FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

				uncu by										ar viene		
1. N	lanufactured and	d certified	by .		ENE	RGY EX	KCH	ANGE	R CO	MPANY, 1844 (Name and add	NORTH G	ARNET	T ROAD, TULS	A, OK	74116	
2. N	lanufactured for	(Name and address of Manufacturer) ctured for FRONTIER REFINING, INC. 300 MORRIE AVENUE CHEYENNE, WYOMING 82007 (Name and address of Purchaser)														
3. L	ocation of install	ation			FRONTI	ER RE	FINI	NG, IN		8410 TRUCKE	R TRAIL	CHEY	ENNE, WYOMI	NG 820	003	
		MINITED	UOD.	17					HEAT	(Name and				X-77	705	
4. 1	уре:	(Ho	riz., vert.,	or sphere)			_	(Tank, s	eparato	EXCHANGER r, jkt. vessel, heat ex	xh., etc.)			(Mfg's se		
					X-7	705-A (Drawing	REV	/. 2		_	5717 (Nat'l Bd. N				2010 (Year built)	
E ^	SME Code, Sec	(CRN)	Div 1	2007	EDITION (2	(=,					(Matribu. N	,			(1 out outly	
				Market Comments	[Edition and Ad	ddenda (d	ate)]			100	de Case No.)			57	ervice per UG-120(d)]	-
Items	6-11 incl. to be	complete	ed for s	ingle wall v	essels, jack	ets of j	acke							amber	vessels.	
6. S	shell (a) No. of	course(s):		3				(b) O	verall length (fi	t & in.):		22'-2 5/16"			
	Course	(s)			Material			ness	Long. Joint (Cat. A)				m. Joint (Cat. A, I		Heat Treatr	-
No.	Diameter, in.		(ft & in.)		Grade or Typ		Nom. Corr.		Туре			Туре				Time
2	40" I.D.		-0"		SA-516-70N			1/8"	1	FULL	1.0	1	FULL	1.0		1 HR.
1	40" I.D.	6'-2	5/16"	SA	-516-70N	5.	/8"	1/8"	1	FULL	1.0	1	FULL	1.0	1150° F	1 HR.
7. H	leads: (a)		SA-516	6-70N H.T.	@ 1150° F.	FOR 1	HR.			(b)	S	A-516-7	ON; H.T. @ 11	50° F. I	FOR 1 HR.	
			(Mat'l Sp	ec. No., Grade	or Type) (H.T	Time & T	emp.))			,			(0.1 1		
	Location (Top,	Thick	-		dius	Elliptio		Coni	0000000	Hemispherical Radius	Flat Diameter		e to Pressure	T	Category A	T 5#
	Bottom, Ends)	Min.	Corr.	Crown	Knuckle	Ratio	_	Apex A	Ingle	Radius	Diameter	Conv	ex Concave	Type	Full, Spot, None	Eff.
(a)	END	5/8"	1/8"			2:1		DED.						1	FULL	1.0
(b)	END	5/8"	1/8"	40" I.D. x 2	2'-9" LG. R	& W CY	LIN	DER				L		1 1	FULL	1.0
9. N	If bar, give dimensions MAWP 460 15 psi at max. temp. 480 350 °F Min. design metal temp20 °F at 460 psi. (external) (external) NO - Exempt Per UCS-66 (a,b,c,g) & UCS-68 (c) at test temperature of °F.															
	•			[Indic	ate yes or no	and the co	mpon	nent(s) in	npact te	stedj				10	717/2/04/5/27	
1 .	lydro., pneu., or			III Par		P.S.I.G	. (1)		_	Floor lest						
	12 and 13 to be					0 7/8"				3 9/16"			5/16"		Bolted	
12. 1	ubesheet:	ic. No.)]	No.)] [Dia., In. (subject to press.)]					(Nom. thk., in.)			orr. Allow., in.)	Attachment (welded or bolted)]				
	-	CL1						3 9/16"		5/16" (Corr. Allow., In.)			Bolted	Bolted (Atlachment)		
1					(3/4"			((Nom. thk., in.) 0.109" THK (MIN)			915	Straight		
(Mat'l Spec. No., Grade or Type) (O.D., in.) (Nom. thk., in. or gauge) (Number) [Type (Strait or U)]									J))]							
	: 14-18 incl. to be Shell (a) No. o			inner cham	bers of jac	keted v	esse	els or c		els of heat excl Overall length (f			2`-2 15/16"			
Course(s)					Material Thickness					Long. Joint (Cat. A)			ım. Joint (Cat. A,	B, & C)	Heat Treat	ment
No.	Diameter, in.	Length	(ft & in.) Spec.	Grade or Typ	pe N	om.	Corr.	Туре	Full, Spot, No	one Eff.	Туре	Full, Spot, None	e Eff.	Temp.	Time
1	40" I.D.	2'-2	15/16"	S	A-516-70N	5	5/8"	1/8"	1	FULL	1.0	1	FULL	1.0	1150° F	1 HR.
		27.52.1		12/2/3												1 = 0
15. F	Heads: (a)		(Mat'l Sp	SA-35 pec. No., Grade	50-LF2 CL1 or Type) (H.T.		emp.)		(b)	S	Mat'l Spec	70N H.T.@ 1150 C. No., Grade or Type	0° F. F	ime & Temp.)	
Location (Top, Thickness					ptical Conic			Hemispherical	Flat		e to Pressure	-	Category A	T 5#		
	Bottom, Ends)	Min.	Corr.	Crown	Knuckle	Rati	0	Apex A	Angle	Radius	Diameter	Conv	ex Concave	Туре	Full, Spot, None	Eff.
(a)	END	3 5/8"	3/16"							35 3/8" I.D.R.	40 3/4"	X				+
(b)	END	1 3/4"										_				
If rem	novable, bolts us	ed (desc	cribe ot	her fastenin	ng)					(a) SA-193-B7	'; 7/8"; 52	(b) SA	-193-B7M; 7/8"	; 52		

FORM U	1 (Back)			
660	350	°F Min design metal temp	-20	

					FORM	U-1 (B	ack)				*6
16. MAWP 352 (internal)	1	15 psi	at max. ten		660		350	°F Min. design me	etal temp.	-20 °F at	352 psi.
			Evamet Bar		(internal)		external)				°F.
17. Impact test		INO,E	dicate yes or n	o and the comp	onent(s) imp	pact tested]	(C)		at test tempe	rature of	
18. Hydro., pneu., or com				P.S.I.G. (1)			roof test		1.11		
Nozzles, inspection, a	nd safety	y valve openi	ngs:								
Purpose		Diameter	Flange	Mate	rial	Nozzle T	hickness	Reinforcement	How At	tached	Location
(Inlet, Outlet, Drain, etc.)	No.	or Size	Туре	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)
INLET/OUTLET	1/1	14"-300#	RF-WN	SA-333-6	SA-105-N	0.5940"	1/8"	SA-516-70N	WELDED	WELDED	SHELL
OUTLET	1	14"-300#	RF-WN	SA-333-6	SA-105-N	0.5940"	1/8"	SA-516-70N	WELDED	WELDED	CHANNEL
INLET (2)	1	14"-300#	RF-WN	SA-105-N	SA-105-N	1.8750"	1/8"	WELD	WELDED	WELDED	FLTG. HEAD
VENT	1	2"-300#	RF-LWN	SA-105		0.6600"	1/8"	WELD	WELDED		CHANNEL
AUX.	4	2"-300#	RF-LWN	SA-105		0.6600"	1/8"	WELD	WELDED		SHELL NOZ.
AUX	2	2"-300#	RF-LWN	SA-105		0.6600"	1/8"	WELD	WELDED		CHAN. NOZ
AUX.	2	2"-300#	RF-LWN	SA-105		0.6600"	1/8'	WELD	WELDED		STINGER
					-						
			L		L						1.00
20. Supports: Skirt (Yes	NO L	ugs	Legs		Others	2-E	(Describe)	NDS Attached		Welded to S	7.5-77
21. Manufacturer's Partial		130000		1900 100 #71			700000000000000000000000000000000000000		and for the fell	(Where and h	
the name of part, item						HISSIOTIC	mspecie	ns nave been lumsi	ieu ioi trie toii	owing items o	r the report. (List
FLTG. HEAD ASSEM	BLY INC	LUDES A BE	LLOWS T	YPE EXPAN	ISION JO	INT PER	KE BUR	GMANN-EJS - DWO	G. M8598 - SE	RIAL NO: 242	27
PARTIAL DATA REPO	Service Samuel Constitution	Property and the Contract					7 36				
22. Remarks: SERVICE:									NO: 20-E-08	25B; SIZE: 40	-288; TYPE: AET
TUBES DESIGNED V	V/0" COF	RROSION AL	LOWANCE	; SAFETY	RELIEF	DEVICE	S FURNIS	SHED BY OTHERS			
(1) FIELD TEST: SH	ELL SID	E = 600 PSI	G - TUBE S	IDE = 460 I	PSIG	SEE A	TTACHE	D U-4 FORM FOR	DDITIONAL	INFORMATIO	N
CERTIFICATE OF SHOP COMPLIANCE We certify that the statements 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 Authorization No. 12370 Expires September 27 ,20 10 Date 4-20-/D Name ENERGY EXCHANGER COMPANY Signed (Representative)											
Date 4-20-70	Nan_	ne	ENERGY	(Manufactur	ER COM	PANY		Signed	Cogu C	resentative)	
			-0.000				INSPECT		(ride	- Coolinaaro)	
I, the undersigned, holdi	ng a vali	d commision	issued by t	he National	Board of	Boiler ar	nd Pressu		and/or the St	ate or Provinc	;e
	Godina propies case	oloyed by _								ynn, MA	
have inspected the pres							-		0.10		, and
state that, to the best of VESSEL CODE, Section											
the pressure vessel des	cribed in	n this Manufa	cturer's Da	ita Report.	Furtherm	ore, neitl	nor his oner the In	employer makes any ispector nor his emr	warranty, expolover shall be	oressed or imp e liable in anv	manner for any
personal injury or proper									noyor onan be	nabio in uny	manner for any
Date 4.20.10 Signed Dololling Commissions N.B.# 12064 A OKLA.# 7											
				thorized inspec			-		oard incl. endorser		
CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE											
We certify that the statements on this report are correct and that field assembly construction of all parts of this vessel conforms with the											
requirements of ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. U Certificate of Authorization No. U Certificate of Authorization No. Expires .20											
o commente of riamonal	U Certificate of Authorization No										
Date	Nan	ne		(Assemble				Signed		resentative)	
		70 T T	CF	RTIFICATE		D ASSE	MRI V INS	SPECTION	(Rep	resentative)	100000000000000000000000000000000000000
I, the undersigned, holdi	ng a vali	d commision							and/or the St	ate or Provinc	.e
		loyed by			Douit of	Donor ar	14 1 10004	no vesser mapeeters	dilator the of	ate of 1 forme	ĭ
of , have compared the statements in this Manufacturer's Data Report with the described pressure vessel											
and state that parts referred to as data items , not included in the certificate of shop inspection, have been											
inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance											
with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. The described vessel was inspected and sutpsi.											
By signing this certificate Manufacturer's Data Rep	ort. Furt	hermore, neit	ther the Ins	pector nor h	kes any v nis emplo	varranty, yer shall	expresse be liable i	d or implied, concer in any manner for an	ning the press by personal inj	sure vessel de ury or property	scribed in this damage or a
loss of any kind arising for			i inis inspe	ction.				2.3			
Date	Sign		(AL	thorized Inspec	tor)		_Commi		oard incl. endorser	ments, State, Provi	nce, and No.)
								A CONTRACTOR OF THE PARTY OF TH			

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

2. Rendering for PRONTER REPRING, INC. 300 MORRIER AVENUE. CHEVENINE, WYOGANDS 3. Location of installation FRONTER REPRING, INC. 3410 TRUCHER TRAIL, CHEVENINE, LYV 30000 RENDER REPRING, INC. 3410 TRUCHER TRAIL, CHEVENINE, LYV 30000 (Provided in various) (Provided in var	Manufactured and certified by	ENERGY EXCHANGER COMPANY, 1844 NORTH GARNETT ROAD TULSA, OK 74116
S. Location of installation FRONTIER REFINING, INC. B410 TRUCKER TRAS. CHEVENING, VPC 2003 4 Type Hostination Hostination	0.14	(Name and address of Manufacturer)
Propose	2. Manufactured for	
4 Types	3. Location of installation	
	4 Type: Horizon	
CARD Character purchase Card Content pu		
Date Report Name Number Remarks	(00)	
Nem Number		(Drawing number) (Astronal Dosid number) (Lest polity
22. REMARKS: LINES 9-11 NOLIDES (1) 46 56° D.D. A*O' ID. A*5 15/16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 15/16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 15/16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 15/16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 15/16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 15/16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 46 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 56 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 56 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 56 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 56 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 56 56° D.D. A*O' ID. A*5 16° THK. 4. (1) 56 56° D.D. A*O' ID. A*5 16° D.D. A*O ID. A*C 16° D.D. A*O' ID. A*C 16° D.D. A*C 1		Demodre
(1) 46 SPF OD J. 407 ID. J. 51 THEK. SA-105-N. RING (1) 46 SPF OD J. 407 ID. J. 51 SPET THEK. SA-105-N. RING (1) 24 347 OD J. 19 SPF ID. J. 3 31/15 THEK. SA-105-N. RING (1) 24 SPF OD J. 407 ID. J. 51 SPET THEK. SA-105-N. RING (1) 46 SPF OD J. 407 ID. J. 51 SPET THEK. SA-105-N. RING (1) 39 SPF OD J. 407 ID. J. 51 SPET THEK. SA-105-N. RING (1) 39 SPF OD J. 407 ID. J. 51 SPET THEK. SA-105-N. RING (1) 39 SPF OD J. 407 ID. J. 51 SPET THEK. SA-105-N. RING (1) 59 SPF OD J. 407 ID. J. 51 SPET THEK. SA-105-N. RING (1) 59 SPF OD J. 407 ID. J. 51 SPET THEK. SA-105-N. RING (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. INCLUDES. (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. INCLUDES. (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. INCLUDES. (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. INCLUDES. (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. INCLUDES. (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. INCLUDES. (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. INCLUDES. (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. INCLUDES. (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. INCLUDES. (1) FROM SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. (1) RISHE SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. (1) RISHE SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. (1) RISHE SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. (1) RISHES SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. (1) RISHES SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. (1) RISHES SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. (1) RISHES SPET THE SASSEMBLY WELDED TO DISHED ONLY HEAD. (1) RISHES SPET THE SASSEMBLY WELLED THE SASSEM		
(1) 46 SRF O.D. J. 45 SINGE TIME. SA-195N. RRIG. (1) 24 SP O.D. 42 T.D. 45 SINGE TIME. SA-195N. RRIG. (1) 24 SP O.D. 42 T.D. 45 SINGE TIME. SA-195N. RRIG. 22. REMARKS: LINES 14-18 INCLUDES (1) 46 SINGE O.D. 42 T.D. 45 SINGE TIME. SA-195N. RRIG. (1) 46 SPF O.D. 42 T.D. 45 LIZ TIME. SA-195N. RRIG. (1) 39 SPF O.D. 43 SIZ T.D. 45 LIZ TIME. SA-195N. RRIG. (1) 39 SPF O.D. 43 SIZ T.D. 45 LIZ TIME. SA-195N. RRIG. (1) 59 SPE O.D. 43 SIZ T.D. 45 LIZ TIME. SA-195N. RRIG. (1) FORGED CYLINGER. 16 13 MG* O.D. 42 13 MG* I.D. 45 LIZ TIME. SA-195N. (1) RRIG. 16 SPF O.D. 42 LIZ TIME I.D. 45 LIZ TIME. SA-195N. (1) FORGED CYLINGER. 16 13 MG* O.D. 42 13 MG* I.D. 45 LIZ TIME. SA-195N. (1) RRIG. 16 SPF O.D. 42 LIZ TIME I.D. 45 LIZ TIME. SA-195N. (1) RRIG. 16 SPF O.D. 42 LIZ TIME I.D. 45 LIZ TIME. SA-195N. (1) RRIG. 16 SPF O.D. 42 LIZ TIME I.D. 45 LIZ TIME. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. 45 LIGHT. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. 45 LIGHT. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. 45 LIGHT. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. 45 LIGHT. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. 45 LIGHT. SA-195N. (1) SINS. 59 FPE T. 12 O.D. 45 SPF TIME. 45 LIGHT. SA-195N. (1) SINS. 50 SPF TIME. 50 SP	ZZ. REWARKS.	
(1) 24 34' O.D. x 19 58" I.D. x 3 3/16" THK. SA-105-N. RING 22. REMARKS. UNES 14-18 INCLUCES (1) 45 154' FO.D. x 40' I.D. x 5 14" THK. SA-105-N. RING (1) 35 58" O.D. x 40" I.D. x 6 14" THK. SA-105-N. RING (1) 35 58" O.D. x 40" I.D. x 6 14" THK. SA-105-N. RING (1) 35 58" O.D. x 40" I.D. x 6 14" THK. SA-105-N. RING (1) 35 58" O.D. x 40" I.D. x 6 14" THK. SA-105-N. RING (1) 59 58" O.D. x 50 12" THK. SA-105-N. RING (1) FORGED CYLINGER 16 1310" COX 12 1311" ID X 10" I.G. SA-105-N. (1) FORGED CYLINGER 16 1310" COX 12 1311" ID X 10" I.G. SA-105-N. (1) FORGED CYLINGER 16 1310" COX 12 1311" ID X 10" I.G. SA-105-N. (1) FORGED CYLINGER 16 1310" COX 12 1311" ID X 10" I.G. SA-105-N. (1) FORGED CYLINGER 16 1310" COX 12 1311" ID X 10" I.G. SA-105-N. (1) FORGED CYLINGER 16 1310" COX 12 1311" ID X 10" I.G. SA-105-N. (1) FORGED CYLINGER 16 1310" COX 12 1311" ID X 10" I.G. SA-105-N. (1) FORGED CYLINGER 16 1310" ID X 12 1311" ID X 10" I.G. SA-105-N. (1) FORGED CYLINGER 16 1311" ID X 12 1311" ID X 10"	#100 To 11 Or 1 (104) 1 (104)	
(1) 46 BET O.D. #40** ILO. #6 140** THK. (1) 39 SET** O.D. #35 12** I.D. #6 140** THK. (1) 39 SET** O.D. #35 12** I.D. #6 140** THK. **SA-350-LF2, C.L.1 RING 19 - INLET NOZZLE FLOATING HEAD TAIL PRIFE ASSEMBLY WELDED TO DISHED ONLY HEAD - INCLUDES: (1) FORGED CYLNDER 16 1316** O.D. #12 1316** ID X 10** I.G. \$A-105*N. (1) SELLOWS TYPE EXPANSION JOINT (JUSTICE DO KLINE 29) (1) FORGED CYLNDER 16 1316** O.D. **12 1316** ID X 10** THK. (1) SINGS - 12 340** O.D. **12 1316** ID X 10** THK. (1) SINGS - 12 340** O.D. **12 1316** ID X 10** THK. (1) SINGS - 12 340** O.D. **12 1316** ID X 10** THK. (1) SINGS - 12 340** O.D. **12 1316** ID X 10** THK. (1) SINGS - 12 340** O.D. **12 1316** ID X 10** THK. (1) SINGS - 12 340** O.D. **12 1316** ID X 10** THK. (1) SINGS - 12 340** O.D. **12 1316** ID X 10** THK. (1) SINGS - 12 340** O.D. **12 1316** ID X 10** THK. (1) SINGS - 12 140** O.D. **12 1316*		
(1) 46 88° O.D. x 40° I.D. x 5 14° THK. (1) 39 58° O.D. x 35 12° I.D. x 5 12° THK. (1) 39 58° O.D. x 35 12° I.D. x 5 12° THK. (1) 39 58° O.D. x 35 12° I.D. x 5 12° THK. (1) PORGED CYLNOER 16 1316° O.D. x 12 1316° I.D. x 10° I.D		
(1) 39 5.0° . O. D. 23 5.10° . I.D. x 5.12° . THK. SA-350-LF2, CL.1 RING 19 - INLET NOZZLE FLOATING HEAD TAIL PIPE ASSEMBLY WELDED TO DISHED ONLY HEAD - INCLUDES: (1) FORGED CYLINGER, 16 13/16° CD X 12 13/16° ID X 5.0° LG. SA-105N. (1) SERLOWS TYPE EAPASISON, DAY 16/13 THE X-105N. (1) FORGED CYLINGER, 16 5/16 CD X 12 13/16° ID X 5.4° LG. SA-105N. (1) RING - 13 30° CD. x 12 13/16° ID X 4 7/16° TLX. SA-105N. (1) RING - 13 30° CD. x 12 13/16° ID X 4 7/16° TLX. SA-105N. (1) RING - 24 30° CD. x 12 13/16° ID X 4 7/16° TLX. SA-105N. (1) RING - 24 30° CD. x 12 13/16° ID X 4 30° TR. SA-105N. (1) SINLE, PIPE - 10° CD. x 59 THX. SA-105N. (1) SINLE, PIPE - 10° CD. x 59 THX. SA-105N. (1) NOZZE FLANGE - 12° 3008 FF LWX x 6° Ig. SA-105N ID. BLIND FLANGES, (LISTED ON LINE 19) TAIL PIPE BOLTING. #13 PLANGE TO #14 FLANGE - SA-109-87, 34°, 20 #13 PLANGE TO #14 FLANGE - SA-109-87, 36°, 20 #13 PLANGE TO #14 FLANGE - SA-109-87, 36°, 20 #14 PLANGE TO #15 FLANGE - SA-109-87, 36°, 20 #15 PLANGE TO #15 FLANGE - SA-109-87, 36°, 20 #15 PLANGE TO #15 FLANGE - SA-109-87, 78°, 20 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of Authorization:** Type UNO 12370 Expires 927 2000 **Certificate of A	22. REMARKS:	LINES 14-18 INCLUDES (1) 45 15/16" O.D. x 40" I.D. x 5 9/16" THK. SA-105-N RING
19 - INLET NOZZLE FLOATING HEAD TAIL PIPE ASSEMBLY WELDED TO DISHED ONLY HEAD - INCLUDES: (I) FORGED CYLINDER 1 519 OD X12 1319 TO X 197 LG. SA-105-N (I) BELLOWS TIPE EARNISON JOINT (LISTED ON LINE 22) (I) FORGED CYLINDER 1 5419 OD X12 1319 TO X12 TO INLINE 23) (I) FORGED CYLINDER 1 5419 OD X12 1319 TO X12 1319 TO INLINE 23) (I) RING - 19 20° OD X 12 1319 TO INLINE 24) (I) RING - 19 20° OD X 12 1319 TO INLINE 24) (I) RING - 19 20° OD X 12 1319 TO INLINE 24) (I) RING - 23 20° OD X 12 1319 TO INLINE 24) (I) RING - 23 20° OD X 12 1319 TO INLINE 25) (I) RING - 23 20° OD X 12 1319 TO INLINE 25) (I) RING - 23 20° OD X 12 1319 TO INLINE 25) (I) RING - 23 20° OD X 12 1319 TO INLINE 25) (I) RING - 23 20° OD X 12 1319 TO INLINE 25) (I) RING - 23 20° OD X 12 1319 TO INLINE 25) (I) NOZZIE FLANGES - 2° 200 FIR FLANGE SA-105-N (LISTED ON LINE 19) TAIL PIPE BOLTING: #13 FLANGE TO #14 FLANGE - SA-193-87, 24°- 20 #12 FLANGE TO #13 FLANGE - SA-193-87, 20°- 20 #12 FLANGE TO #13 FLANGE - SA-183-87, 78°- 20 CONTINUE AND		(1) 46 5/8" O.D. x 40" I.D. x 6 1/4" THK. SA-105-N RING
(1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 10* LG. SA-105-N (1) BELLOWS TYPE EXPANSION. JOINT (LISTED ON LINE 2D) (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 17/16* TI-K. (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 17/16* TI-K. (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 17/16* TI-K. (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 1		(1) 39 5/8" O.D x 35 1/2" I.D. x 5 1/2" THK. SA-350-LF2, CL.1 RING
(1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 10* LG. SA-105-N (1) BELLOWS TYPE EXPANSION. JOINT (LISTED ON LINE 2D) (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 17/16* TI-K. (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 17/16* TI-K. (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 17/16* TI-K. (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 1		
(1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 10* LG. SA-105-N (1) BELLOWS TYPE EXPANSION. JOINT (LISTED ON LINE 2D) (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 17/16* TI-K. (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 17/16* TI-K. (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 17/16* TI-K. (1) FORGED CYLLIDER: 16 19/16* OD X 12 19/16* DI X 1		
(1) FORGED CYLINDER: 18 19/9° OD X 12 13/19*1 DX X 0* 10.5. SA-105-N (1) BELLOWS TYPE EXPANSION. JOINT (LISTED ON LINE 21) (1) FORGED CYLINDER: 18 9/18 OD X 12 13/19*1 DX 3* 7/18*1 DX 5*		
(1) BELLOWS TYPE EXPANSION JOINT (LISTED ON LINE 22) (1) FORGED CYLINDER 14 919 COX 12 131915 ID X 9 7/16* I.Q. SA-105-N (1) RING - 19 30* CO X 12 131916 ID X 9 7/16* I.Q. SA-105-N (1) RING - 19 30* CO X 12 131916 ID X 9 47/16* IX. SA-105-N (1) RING - 24 30* CO X 12 131916 ID X 9 47/16* IX. SA-105-N (1) RING - 24 30* CO X 12 131916 ID X 9 4316* ID X 9 43	19 - INLET NOZZLE	
(1) FORGED CYUNDER: 14 8/16 OD X 12 13/16* ID X 5 7/16* LG. SA-105-N (1) RING: 16 38* OD X 12 13/16* ID X 47/16* ITHK. SA-105-N (1) RING: 16 38* OD X 12 13/16* ID X 47/16* ITHK. SA-105-N (1) RING: 24 34* OD X 12 13/16* ID X 4 34* 9K. SA-105-N (1) RING: 24 34* OD X 12 13/16* ID X 4 34* 9K. SA-105-N (1) SMMS. PIPE: 14* OD X 5 96* THK X 11/16* LG. SA-333-6 (1) NOZZLE FLANGE: 14* S006* RF WIN SCHOOL SORE 14* SO-SORE 14* SOLE 15* SWINBLIND FLANGES (LISTED ON LINE 18) TAIL PIPE BOLTING: #13 FLANGE TO #14 FLANGE: -SA-103-B7; 7/8*; 20 #12 FLANGE TO #13 FLANGE: -SA-103-B7; 7/8*; 20 E12 FLANGE TO #13 FLANGE: -SA-103-B7; 7/8*; 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 2010 Certificate of Authorization: Type O Name EN BRISTY EXCHANGER CO. Signed Gigensentative) Name Commission N. B. #12054A OKLA.# 7		
(1) RING - 19 3/8" O.D. x 12 13/16" I.D. x 4 7/16" THK. SA-105-N (1/8" CORROSION ALLOWANCE - FULL K-RAY - JOINT EFFICIENCY = 1.0) NILET NOZZLE STINGER ASSEMBLY INCLUDES: (1) RING - 24 3/4" O.D. x 12 13/16" I.D. x 4 3/4" thk. SA-105-N (1) SIMS. PIPE - 14" O.D. x 194" THK x 9 11/16" I.D. s. SA-333-6 (1) NOZZLE FLANGE - 14" 300# RF WN SCH 60 BORE - SA-105-N (LISTED ON LINE 18) (2) NOZZLE FLANGES - 2" 300# RF LWN x 9" Ig. SA-105-WIN BLIND FLANGES (LISTED ON LINE 18) TAL PIPE BOLTING: #13 FLANGE TO #14 FLANGE - SA-193-B7; 7/8"; 20 #12 FLANGE TO #14 FLANGE - SA-193-B7; 7/8"; 20 #12 FLANGE TO #15 FLANGE - SA-193-B7; 7/8"; 20 **Certificate of Authorization:** Type U No. 12370 Expires 9/27 2010 Certificate of Authorization: Type U No. 12370 Expires 9/27 2010 Name Engrgy Exchanger CO. Signed Green Commission N.B.# 12054A OKLA#7		
(18" CORROSION ALLOWANCE - FULL X.RAY - JOINT EFFICIENCY = 1.0) INLET NOZZLE STINGER ASSEMBLY INCLUDES: (1) RING - 24 3A" O.D. x 12 13/16" LD. x 4 3A" Bix. SA-105-N (1) SMLS, PIPE - 14" O.D. x 544" THX. 9 11/16" LG. SA-333-6 (1) NOZZLE FLANGE, 14" O.D. x 544" THX. 9 11/16" LG. SA-335-6 (2) NOZZLE FLANGE SA-100 OR FV INS OF BOORE * SA-105-N (LISTED ON LINE 19) (2) NOZZLE FLANGES - 2" 300# RF LWN x 9" Ig. SA-105 with BLIND FLANGES (LISTED ON LINE 19) TAIL PIPE BOLTING: #13 FLANGE TO #14 FLANGE - SA-193-B7; 34" 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 78"; 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 78"; 20 Certificate of Authorization:	- Later and the second second second	
INLET NOZZLE STINGER ASSEMBLY INCLUDES: (1) RING- 24 34"-0.D, x12 131"6" LD, x4 34" bk, SA-105-N (1) SMLS, PIPE - 14"-0.D, x 594" Thk, x9 1/10" LD, SA-333-0 (1) NOZZLE FLANGE - 14" 300# RF VNN SCH 69 BORE - SA-105-N (LISTED ON LINE 19) (2) NOZZLE FLANGES - 2" 300# RF LWN x 9" lg, SA-105 with BLIND FLANGES (LISTED ON LINE 19) TAIL PIPE BOLTING: #13 FLANGE TO #14 FLANGE - SA-193-B7; 7/6"; 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 7/6"; 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 7/6"; 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 2010 Date 4"-20-/0 Name ENERGY EXCHANGER CO. Signed Gepassentative) Name Gepassentative) Name Commission Name Name Commission Name Name Name Commission Name Name Name Name Commission Name Name Name Name Name Name Name Name		
(1) RING- 24 3/4" O.D. x 12 13/16" LD. x 4 3/4" thk. SA-105-N (1) SMLS. PIPE - 14" O.D. x. 594" THIX 9 11/16" LG. SA-333-6 (3) NOZZLE FLANGE - 14" 3000 RF WIN SCH 60 BORE - SA-105-N (LISTED ON LINE 19) (2) NOZZLE FLANGES - 2" 300# RF LWN x 9" Ig. SA-105-with BLIND FLANGES (LISTED ON LINE 19) TALL PIPE BOLTING: #13 FLANGE TO #14 FLANGE - SA-193-B7, 3/4", 20 #12 FLANGE TO #13 FLANGE - SA-193-B7, 7/8", 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 . 2010 Certificate of Authorization: Type U No. 12370 Expires 9/27 . 2010 Date 4-20-/0 Name ENERGY EXCHANGER CO Signed (Right exchanges) ENERGY EXCHANGER CO Signed (Right exchanges) Name ON Commission N.B.# 12094 A. OKLA# 7		
(1) SMLS. PIPE - 14" O.D. x. 594" THK x 9 11/16" LG. SA-333-6 (1) NOZZLE FLANGE. 14" 3008 RF VM SCH 60 BORE - SA-105-N (LISTED ON LINE 19) (2) NOZZLE FLANGES - 2" 3008 RF LWN x 9" Ig. SA-105-N (LISTED ON LINE 19) TAIL PIPE BOLTING: #13 FLANGE TO #14 FLANGE - SA-193-87, 7/8", 20 #12 FLANGE TO #14 FLANGE - SA-193-87, 7/8", 20 #12 FLANGE TO #15 FLANGE - SA-193-87, 7/8", 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 . 2010 Page 1 - 20 - 10 Name Energy Exchanger CO. Signed (Representative) Name One of the flandschard Commission N. B.# 12064 A. OKLA# 7		INLET NOZZLE STINGER ASSEMBLY INCLUDÉS:
(1) NOZZLE FLANGE - 14" 300# RF WN SCH 60 BORE - SA-105-N (USTED ON LINE 19) (2) NOZZLE FLANGES - 2" 300# RF LWN x 9" Ig. SA-105 with BLIND FLANGES (USTED ON LINE 19) TAIL PIPE BOLTING: #13 FLANGE TO #14 FLANGE - SA-183-B7, 7/8", 20 #12 FLANGE TO #13 FLANGE - SA-183-B7, 7/8", 20 #12 FLANGE TO #13 FLANGE - SA-183-B7, 7/8", 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 . 2010 Date 4-20-/0 Name ENERGY EXCHANGER CO. Signed Expires (Representative) Name Commission N.B.# 12084 A. OKLA# 7		(1) RING - 24 3/4" O.D. x 12 13/16" I.D. x 4 3/4" thk. SA-105-N
(2) NOZZLE FLANGES - 2" 300# RF LWN x 9" Ig. SA-105 with BLIND FLANGES (LISTED ON LINE 19) TAIL PIPE BOLTING: #13 FLANGE TO #14 FLANGE - SA-193-87; 3/4"; 20 #12 FLANGE TO #13 FLANGE - SA-193-87; 7/8"; 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 2010 Name ENERGY EXCHANGER CO Signed (Representative) Name Official Column (Representative) Name Commission NB.# 12064 A OKLA# 7		(1) SMLS. PIPE - 14" O.D. x .594" THK x 9 11/16" LG. SA-333-6
TAIL PIPE BOLTING: #13 FLANGE TO #14 FLANGE - SA-193-B7; 7/8"; 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 7/8"; 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 7/8"; 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 . 2010 Date 4-20-/0 Name ENERGY EXCHANGER CO. Signed Corporation: (Representative) Date 4/20-/0 Name Output Name Commission N.B.# 12064 A OKLA# 7		
#13 FLANGE TO #14 FLANGE - SA-193-B7; 7/8"; 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 7/8"; 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 7/8"; 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 2010 Date 4-20-/0 Name ENERGY EXCHANGER CO. Signed Gipton O. Ouco (representative) Name Continued Commission NB# 12964 A OKLA# 7		(2) NOZZLE FLANGES - 2" 300# RF LWN x 9" lg. SA-105 with BLIND FLANGES (LISTED ON LINE 19)
#13 FLANGE TO #14 FLANGE - SA-193-B7; 7/8"; 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 7/8"; 20 #12 FLANGE TO #13 FLANGE - SA-193-B7; 7/8"; 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 2010 Date 4-20-/0 Name ENERGY EXCHANGER CO. Signed Gipton O. Ouco (representative) Name Continued Commission NB# 12964 A OKLA# 7	Partition of the same of the s	TAIL BIDE DOLTING.
#12 FLANGE TO #13 FLANGE - SA-193-B7; 7/8"; 20 Certificate of Authorization: Type U No. 12370 Expires 9/27 2010 Date 4-20-/O Name ENERGY EXCHANGER CO. Signed (Representative) Date 4-20-/O Name Commission N.B.# 12084 A. OKLA#7		
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Date 4'20:/D Name Commission Commission N.B.# 12064 A OKLA # 7 (Nat'l Board Incl. endorsement, state, province and no.)		
(Authorized Inspector) (Nat'l Board incl. endorsement, state, province and no.)	Date 4120.10	Name And Oliver C Commission N. P. # 12024 A. O.V. A. # 7
	1 3 7 9	

X.7705

Signed

(Authorized Inspector)

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 Code Rules, Section VIII, Division 1 KE BURGMANN-EJS 8575 Roland Acres Drive Santee, CA 92071 USA Manufactured and certified by: (Name and address of Manufacturer) Manufactured for: Energy Exchanger Company, 1844 N. Garnett Road, Tulsa OK 74116 (Name and address of Purchaser) Unknown Location of installation: (Name and address) Type: 14.313" ID Single Weld End Expansion Joint Assembly 2427 (CRN) (Mfg's. serial No.) (Description of vessel part (shell, two-piece head, tube bundle) Ke Burgmann-EJS 2010 M8598 (Year built) (Drawing prepared by) (Nat'l Bd. No.1) (Drawing No.) None ASME Code, Section VIII, Div. 1 2007, 2009b (Special Service per UG-120(d) (Edition and Agenda (date)) (Case Code No.) 20.00" Shell (a) No. of courses: Overall Length (ft & in) Long. Joint (Cat A.) Full, Spot, None Material Thickness Circum. Joint (Cat A, B, & C) Heat Treatment Courses Type Full, Spot, None Temp. Time Dia. In. Length ft. & in Spec./Grade or Typ Con Type Nom. 14.313" OI 5.375" 0.750" 0.125" SA 105 N S None 1 14.313" ID 11.250" SB443-625 Gr 1 0.062" 0.0" Full 1 None 0.750" 0.125" S 14.313" OI 5.375" SA 105 N Heads: (a) None None (Mat'l Spec. No., Grade or Type) H.T.-Time & Temp. (Mat'l Spec. No., Grade or Type) H.T.-Time & Hemispheric Flat Side to Pressure Catagory A Location (Top. Thickness Elliptical Bottom, Ends) Knuckle Apex Angle al Radius Diameter Convex Concave If removable, bolts used (describe other fastening) (Mat'l Spec. N., Grade, Size, No.) Min. design metal temp. -20° F at FV/352 Int. FV/460 Ext. psig MAWP FV/352 FV/460 psig at 660 deg. F max. temp. (Internal) (External) (Internal) No not required per UG-20 (F). Impact test Indicate yes or no and the component(s) impact tested) Proof test 10. Hydro., Pneu., or comb. Test press. 661 psig Nozzles, inspection, and safety valve openings Flange Material Nozzle Thickness Reinforcement How Attached Location Diameter Purpose (Inlet, or size Flange Material (Insp. Open.) Others: Attached Supports: Legs (No.) (Describe) 13. Remarks: Axial Spring Rate 4449 lbs./in. Axial Movment +0.625"/-875" Design Cycle life per Appendix 26, 500 cycles Ke Burgmann-EJS Inc. is responsible for the design of the expansion joint per ASME VIII, Div., 1, Apendix 26, 2007 Edition 2009b Add *Per Appendix 26 figure 26.13 Reinforced with solid plate Band and Clips Appendix 26 Figure 26.1 CERTIFICATE OF SHOP/FIELD COMPLIANCE We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. March 6, 2011 24,671 U Certificate of Authorization No. Ke Burgmann-EJS Signed Name (Manufacturer) CERTIFICATE OF SHOP/FIELD INSPECTION 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 California and employed by_ of Hartford, CT. have inspected the pressure vessel part described in this Manufacturer's Data Report on HSB CT 20 10, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part 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 part 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 connected with this inspection.

LA1494_

Commissions

(Nat'l Board incl. Endorsement, State, Province and No.)