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

1. M	anufactured and cert	ified by H	udson	Produc	ts Corpo	ration					ad, Bea	isley, To	exas	774	17				
2. N	lanufactured for	Sunoce	o., Eagle	e Point R	efinery /	Sulfola	ine Ui	nit., V	Westv	ille, N	J								
3. L	ocation of installation	Sur	oco., E	agle Poir	nt Refiner	y / Suli					urchaser) e, NJ								
						<u> </u>		(N	lame and	Addres	s)								
4.	Гуре	Horize							at Exc								11A-P - 1		
	(Hori	iz., Vert., or S							tor, Jkt.	Vessel, H	leat Exh., e					(Mfg	's Serial No	.)	
		N (CF	/A				A-Rev					275					2009		
5 4	SME Code, Sec	•	•	Section '	VIII, Div.		•				N	(Nat'l. B / A	a. No.	1		N.	(Year Built)		
0. 7	Div.1	Zuon vin,			on and Adden		(100)	,				ase No.)			Speci		per UG-120)(d)	
i	tems 6-11 incl. to be	completed fo	r single wa	all vessels, ja	ckets of jack	eted vesse	ls, shell	of heat	t exchan	gers, or o	chamber of	multichamb	er ves:	sels.	•			•••	
	Shell (a) No of (course(s):	1						(b)	Overall l	ength (ft &	in.):			6-7/8" x 1	0-3/4"	x 6' 5"	,	
4.4.4	Course(s)		Ma	terial		Thickness				Long. Joint (Cat. A)			Circum.	Joint (Cat. A, B,	. & C) Heat Treatment			
No.	Diameter, in. Length (ft. & in.)		k in.)	Spec./Grade or Type		Non	Nom. Corr.		Туре	Full, Spot, None		Eff.		Type Full, Spot, Non		Eff.	Temp.	Tim	ne
N/	A N/A	N/A		N/	'A	N/A	A N	N/A	N/A]	RT4	** 100%	N,	/A	N/A	N/A	1125°F.	1Hr24	Min
7. H	eads (a) SA	516,70 (Mat		75 ± 25°F ., Grade or T	T. 1 H ype) (H.TTin	r. 24 M ne & Temp				(b)	SA-516	·		5 ± 25 No., Gra	°F. 1 Hr ide or Type) (H.T.	. 24 M -Time & 1			
	Location (Top,	Т	hickness		Radius	Ell	iptical	Cor	nical	Hemis	pherical	Flat		Side	to Pressure	Category A			
	Bottom, Ends)	Min.	Co	orr. Cro	wn Knud	kle F	Ratio	Apex	Angle	Ra	adius	Diameter	Co	nvex	Concave	Type I	full, Spot, N	one	Eff.
(a)	Top & Bottom	1/2"	0.12	25" N/	'A N/	A N	I/A	N	/A	N	I/A	FLAT	4-5	/8" x	6' 5"	N/A	N/A	N	J/A
(b)	Ends	1/2"	0.12	25" N/	'A N/	A N	1/A	N	/A	N	I/A	FLAT:	4-1	/8" x	0'9-1/2"	N/A	N/A	N	J/A
lf r	emovable, bolts used	(describe oth	er fastenir	ng)						lat'l Caa	. No. Cro.	de, Size, No		s:Weld	ded-Corner Jo	int			
8. T	ype of jacket N	/A								•	re N/A	ue, oize, No.	.,						
	r, give dimensions								•	.01 01000			(0	escribe	as ogee & weld, l		ed, describe	or sketc	h.
		245		15	nal at m	ax. temp.		250		21	50 °F	Min design		4	0	-			
0. N		ternal)		(external)	_ h2i at iii	ax. temp.		(intern			ernal)	wiii. aesigii	metai	temp.		' " -	24	·	psi.
10.			IMPAC		KEMPT PE	R UG-20		(,=	,			at	test temperature	of	N/A		_°F.
				(Indicate	yes or no and	the compo	nent(s)	impact	tested)										
11.	Hydro., pneu., or con	nb. test press	. <u>Hyd</u>	lrostatic	319			. Pro	oof test	N/A						<u>-</u>			
	ms 12 and 13 to be o			ions.	10_3 //"	v 6' 5"			1_	1 //"			0"				1 L. 1 7A7		
12. Tubesheet: SA-516, 70 10-3/4" x ([Stationary (Mat'l Spec. No.]] [Dia., in. (subject to												(Corr. Allow., in.)				Welded [Attachment (welded or bolted)]			
[Stationary (Mat'l Spec. No.)] [Dia., in. (subject to N/A N/A							N/A					N/A			U	N/A			
(Floating (Mat'l Spec.	No.)]	***************************************	(Dia., in.				n. thk.,		_	(C	orr. Allow., i	n.)				hment)		-;
13. Tubes: SA-214 1"							.120" AW					168				Straight			
		c. No., Grade	or Type)		(O.D., in.)	_	(1)		ık., in. or		_		(Num	ber)		[T	ype (Straigh		
	Items 14-18 incl. t	o be complet	ed for inne	r chambers o	of jacketed ve	ssels or ch	annels d	of heat	exchang	ers.									
14.	Shell (a) No. of Cours	e(s): N/A	1						(b) Ove	rall leng	th (ft & in.)	:							
	Course(Course(s) Material Thickne							ess		Long. Join	nt (Cat. A) C		Cir	rcum. Joint (Cat. A, B, & C)		Heat Treatment		ment
No.	Diameter in	Length (ft.&	in.)	Spec./0	Grade or Type		Non	n.	Corr.	Туре	Full, Spot	, None	Eff.	Туре	Full, Spot, No	ne E	ff. Tem	ı. Ti	ime
	Diameter, in.					-										_			
	Diameter, in.						1												
	Diameter, in.																		
15. H	Heads: (a) N/A								(b)										
15. H			:. No., Grai	de or Type) (H.TTime & 1	'emp)			(b)		(Mat'l Spec.	No., G	rade or	Туре) (Н.ТTime	& Temp)			
15. H	Heads: (a) N/A			T	H.TTime & 1	Elliptical		Conica	al		pherical	Flat	No., G		Type) (H.T.·Time o Pressure	& Temp)	Categor	у А	
15.	leads: (a) N/A	(Mat'l Spec		T					al			т <u>. </u>					Categor Full, Spot,	•	Eff.
	Heads: (a) N/A	{Mat'l Spec	ess	Rai	dius	Elliptical		Conica	al		pherical	Flat		Side t	o Pressure			•	Eff.
15. H	Heads: (a) N/A	{Mat'l Spec	ess	Rai	dius	Elliptical		Conica	al		pherical	Flat		Side t	o Pressure			•	Eff.

(Mat'l Spec. No., Grade, Size, No.)

FORM U-1 (Back)

16. MAWP	N/A		psi	at max. temp.		°F. N	Ain. design i	metal temp.	°F at		psi.	
(in	nterna	i) (e	xternal)	(interna	al) (extern		Ü				F	
17. Impact test $\frac{N}{N}$	/A			at test temperature of								
10 11		N	/ A	[Indicate ye	s or no and the co		pact tested)					
18. Hydro.,pneu.,or c				/alve Outlets Per UG-125	Proof test	11/71						
19. Nozzles, inspection Purpose (Inlet,	on, and	Diameter or	Flange	Materia		Nozzlo T	hickness	Deinforces			Logotion	
Outlet, Drain, etc.)	No.		Type	Nozzle	Flange	Nom.	Corr.	Reinforcement Material	How At Nozzle	Flange	Location (Insp. Open)	
Inlet & Outlet	2	6"150#	R.F.W.N.	SA-105		Sch. 80		None	W/W			
	2	6" HPC	TRANS	SA-234,WPBS9		Sch. 80		None	W			
Vent & Drain	1	3"150#	R.F.L.W.N.	SA-105				None	W	-		
veni & Diani	1	3 130#	IX.I [*] ,L [*] ,V [*] ,I [*] V.	3A-103				None	· VV			
	<u> </u>											
20. Supports: Skirt			ugs	Legs	Others			Atta	ached			
21 Manufacturaria I		s or No)	(No.)	(No.) igned by Commissioned Ins	nantara haya haan	(Desc		on itama of the veneral		(Where & How	1)	
			g's. name and identify	• .	pectors have been	i iurnisneu iur	the followin	ig items of the report:				
22. Remarks: * Two Rect.	Hea	aders : Inlet	& Outlet Head	lers : 6-7/8" x 10-3	/4" x 6' 5" E	ach.						
			n Condenser	Item No. SUE-5		t # 13	Rear #	11		····		
				5" x 34' 11" Long		omer Desi	ign Pres	sure 225/FV PSI	G @ 250°F.			
Spot X-R	ay						**	Conforms To A	ppendix 13, P	ara. 13-5		
he ASME Code for P U Certificate of Autl	ressur horiza	e Vessels, Section No.	n VIII, Division 1. 8728	d that all details of design, Expires	Decer	ction, and wor	kmanship of	this vessel conform to			,	
Date4-8-	09	Name _	H	udson Products Co	orporation		_ Sign	1 - 1	LINE	uss.		
				(Manufacturer)	TE OF 0110				(Representative)			
I, the undersigned, I	nolding	a valid commiss	ion issued by the Nati	CERTIFICA' onal Board of Boiler and Pr				r Province of	Texas			
and employed by								Hartford, Con	າ,	have inspected		
· · · · · · -				ton April 8			and state	that, to the best of my				
Manufacturer has c expressed or implied	onstru I, coni	cted this pressur cerning the press	e vessel in accordance ure vessel described ir	with ASME Code, Section this Manufacturer's Data innected with this inspection	1 VIII, Division 1. E Report. Furthermo	By signing this	certificate i	neither the Inspector no	r his employer makes	any warranty,	al	
Date 4-8-2	00	3 Signed	Q	A July		Commissions		NAT'L. BD.#	11617A TY#	1/100		
Date . O		J Signeu_		Authorized Inspector)		Commissions		(Nat'l Board incl. Endors				
			·	ERTIFICATE OF I	FIELD ASSE	MBLY CO						
•		•		t the field assembly constru o.	•			ith the requirements of				
Date		Name			Signed_							
				Assembler)				(Represent	ative)	·		
I, the undersigned, I	olding		ion issued by the Nati	ERTIFICATE OF 1 onal Board of Boiler and Pro	essure Vessel Insp	ectors and/or	the State o					
have compared the		nents in this Man	ufacturer's Data Repo	rt with the described press	sure vessel and sta	ite that parts i	referred to a	ıs data items				
accordance with AS	ME C	ode, Section VIII,	Division 1. The descri	ected by me and to the bes ibed vessel was inspected a mplied, concerning the pres	and subjected to a	hydrostatic to	est of	psi. By s	igning this certificate	e neither the	nnlause	
· _ ·		er for any persor	unty,	amage or a loss of any kind		onnected with	this inspec		iora, naither the MSP	autoi IIVI IIIS 81	nhiokei	
Date		Signed _	ĮΔi	uthorized Inspector)		Commissions		Nat'l Board incl. Endors	ement, State. Provin	ce and No.)		