180462

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

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							_									01/ 7/000					
	anufactured and		-							(Name and add	ress of Mai	rufac	urer)			OK 74066					
2. M	Manufactured for Anadarko Petroleum Co, PO Box 4995, The Woodlands, TX 77387 [Name and address of Purchaser]																				
	ocation of install								(regii	AUROR	A ,CO										
								5/2/11/2		(Name and	2 10 10 10 10 10 10 10 10 10 10 10 10 10			S	S12-10631-1						
4. I)	/pe:	(Ho	oriz., vert., o	r sphere)			(Tan	k, sep	arator,	jkt. vessel, heat e	xh., etc.)		2042								
2	1	I/A			S12	2-1063' (Drawing N					76 (Nati B	15 3. No.	2013 (Year built)								
5. A	SME Code, Sec		II, Div. 1	20	10 ED. 2	011a A	DD.		_	(Co		nacial Se	N/A ervice per UG-120(d	1							
	6-11 incl. to be											211		15			ш				
	hell (a) No. of			nigio irai	_					verall length (f				13'-8 3/16	"						
	Course(s	s)			Material	Th	icknes	s T		Long. Joint (Ca	it. A)	T	Circum.	Joint (Cat. A, E	3, & C)	Heat Treat	iment				
No.	Diameter, in.		(ft & in.)	Spec./	Grade or Typ	e Non				Full, Spot, No	ne E	f.	Type F	ull, Spot, None	_	Temp.	Time				
1	32" I.D.	10	0'-0"	S	A-516-70	7/16	7/16" 1/16		1	SPOT	0.0	\rightarrow	1	SPOT	0.85		N/A				
1	32" I.D.		3/16"		A-516-70	7/16	-	-	1	SPOT	0.0	\rightarrow	1	SPOT	0.85		N/A N/A				
1	18" I.D.		5 7/8"		SA-106B	3/8	-	-	1	SPOT	0.0	-	1	SPOT	0.85		N/A				
1 17 1/4" x 32" 2-1 9/16" SA-516-70 //16 1/16 1 SFOT 0.00 1																					
7. Heads: (a) SA-516-70N (b) ECCENTRIC CONE (Mat'l Spec. No., Grade or Type) (H.T Time & Temp.) (Mat'l Spec. No., Grade or Type) (H.T Time & Temp.)																					
	Location (Top.		ness		dius	Elliptica	_	onica	u I	Hemispherical	Flat	T		Pressure	_	Category A					
	Bottom, Ends)	Min.			Knuckle	Ratio		ex Ang		Radius	Diamet	er	Convex	Concave	Туре	Full, Spot, None	e Eff.				
(a)	END	3/8"	1/16	NA	NA	2:1	2:1		I	NA	NA		NA	Х	S	NONE	1.00				
(b)	END	7/16"	1/16	NA	NA	NA		30°	\perp	NA	NA	_	NA	Х	S	NONE	1.00				
If rem	ovable, bolts us	ed (des	scribe of	ner fasten	ning)						ari enac	N/	rade, size,	No.1							
Q Τ	une of jacket				NA					Jacket clos	sure	*0.,	Haue, size,	1	A						
(Describe as ogee & weld, bar, etc.)														r akatab							
If bar, give dimensions														psi							
701 150	IAWP (internal	al)	(extern	p:	si at max. te	emp.	nternal)	,		external)											
10. In	npact test	NO,Ex	empt Pe	r ucs-20	(f), ucs-66(a	a)(c), Fi	g ucs	-66,	Gene	eral Note(c),	and ucs	-67	at t	est temperal	ture of	NA	°F				
11 H	ydro. Test pres	S		. (inc	cate yes of no	390	iporieri	n(s) in	ipaci ic	Proof test				NA							
	12 and 13 to be		loted for	tube sect	ions					_											
	ubesheet:				22	5/16"	2 1/4"							0.2500" Bolt							
	- IS	tationary	(Mat'l Spec	No.)]			ess.)]			(Nom. thk., in.)				Allow., in.)		[Attachment (welded or bolted)]					
		Floating (NA Mart Spec	No.)]	1)	NA Dia., in.)				(Nom thk, in.)		_	(Corr.	Allow, in.)	(Attachment	()					
13. T	ubes:	S	A-214			3/4"				0.060" MIN		_	(Number) [Type (Strait or U)]								
Itomo	14-18 incl. to b		No., Grade			o.b., in.) acketed v	essel	s or o			575.00	rs.	(14	unibery		(1) po (0001101					
14. S				mmor one	_1					verall length (f				1'-0 5/16							
	Course(T	Material	Т	nicknes	ss		Long. Joint (C	at. A)	Т	Circum.	Joint (Cat. A,	B, & C)	Heat Trea	itment				
No.	Diameter, in.	_	h (ft & in.)	Spec.	/Grade or Typ	e No	n. Co	orr.	Туре	Full, Spot, N	one E	ff.	Type F	ull, Spot, None	e Eff.	Temp.	Time				
1	18"	1'-0	5/16"			1/2	1/2" 1/16		S	SPOT	1	.0	1	SPOT/	1.0	N/A	N/A				
														JW-11(a)(5)(b)							
						19															
15. H	leads: (a)		(Mal'l Sne		-516-70N e or Type) (H.T		emp.)			(b)		(M	at'l Spec. No	NA o, Grade or Type) (H.T	lime & Temp.)					
	T	Thie	kness		idius	Elliptica	_	Conica	al T	Hemispherical	Flat	\neg	Side to	o Pressure	Category A						
	Location (Top, Bottom, Ends)	Min.	Corr.	Crown	Knuckle	Ratio		ex An		Radius	Diame		Convex	Concave	Туре	Full, Spot, Non	e Eff.				
(a)	END	7/16	1/16	NA	NA	2:1		NA		NA	NA		NA	х	S	NONE	1.00				
	ovable holts us	sed (de	scribe of	her faster	nina)		(36	6)3/4	4"Di	ia.SA-193B	7 Stud	ls V	N/SA-1	94-2H Hea	vy H	ex Nuts					
		7/16	1/16	NA	NA		1	NA		NA ia.SA-193B	7 Stud	ls V	NA	x 94-2H Hea	S	NONE					

						FORM	/I'U-1 (E	Back)							
6. MAWP	675	N	A psi	at max. te	mp.	150		NA _	°F Min. design m	etal temp	-20 °F at	<u>675</u>	psi.		
0. 114 1441	(internal)	(exte	mai)			(internal)	•	dernai)			ratura af	NA	°F.		
7. Impact t	test <u>NO,</u>	Exempt F	er ucs-20(f)	, ucs-66(a	a)(c), Fig	ucs-66	, General	Note(c)	, and ucs-67	at test tempe	erature or	NA	- F.		
to Under 7	8. Hydro, Test press. 878 Proof test NA														
•	rest press. s, inspection, a	and eafah	valve oneni	nos.	0.0		— ··								
is. Nozzies	s, inspection, a	aliu Salety	valve openii	 			Nozzle T	hielenana 1	D-1-4	How 4	Attached	Location			
Pur	rpose		Diameter	Flange		erial		Corr.	Reinforcement Material	Nozzie	Flange	(Insp. Open	o l		
(Inlet, Outle	et, Drain, etc.)	No.	or Size	Type	Nozzle	Flange	Nom.			UW16.1	NA NA	NA.	-		
IN	LET	1	6"-300#	RF-LWN		SA-105	1.0625"	1/16	NA.	UW16.1	NA NA	NA.	_		
0ม	TLET	1	8"-300#	RF-LWN		SA-105	1.1250"	1/16	NA NA	UW16.1	NA NA	NA NA			
A	UX.	1	4"-300#	RF-LWN		SA-105	0.8750	1/16	NA NA	 	NA NA	NA NA			
LE	VEL	1	2"-300#	RF-LWN		SA-105	0.6562"	1/16	NA	UW16.1	NA NA	NA.			
LE	VEL	1 1	2"-300#	RF-LWN		SA-105	0.6562"	1/16	NA	UW16.1		NA NA	-		
IN	ILET	1_1_	6"-300#	RF-LWN		SA-105	1.0625	1/16	NA	UW16.1	NA NA	NA NA			
ou	TLET	1	6"-300#	RF-LWN	SA-105	SA-105	1.0625**	1/16	NA NA	UW16.1	NA NA		\dashv		
		<u> </u>				<u> </u>							—		
		<u> </u>		<u> </u>		<u> </u>				 	 		\dashv		
					<u> </u>	<u> </u>		<u> </u>		1					
20 Suppor	0. Supports: Skirt NO Lugs NONE Legs NONE Others (2)Saddles Attached Welded to Shell														
0. Supports: Skirt NO Lugs Note: Legs Note: Legs Note: (Where and how)															
21. Manufa	(Yes or no) (No.)														
(List the	e name of par	rt. item nu	mber, mfg's.	name and	identity	ւոց ոսու	er)								
CYLII	NDER, ITE	M #6, J	& M WEL	DING, L	LC., S	N: 9327	74.2	OF A							
ECC	ENTRICC	ONE, II	EM #6, J	& M WE	LUING	LLC.,	2M: 32	100.1							
CHAN	NNEL, ITE	VI #14, J	J & M WEL	DING,	LLC., S	N: 932	74.1								
22. Remark	ks: SERVI	CE: NG	L Chiller		TEM N	10.: G8	-612								
								 							
STRA	AIGHT TUE	E LEN	GTH 16'-0'	nz											
					CERT	FICATE	OF SHO	P COMP	LIANCE						
We certif	fv that the sta	tements i	n this report a	are correc	t and tha	t all deta	ils of des	ign, mate	rial, construction, a	nd workmans	hip of this ves	sel conform to	the		
ASME C	ode for Press	ure Cesse	els, Section V	'III, Divisio	in 1.			Decem		15	^				
U Certific	cate Authoriza	tion No.		30,112	<u> </u>	EX	pires	Decem	ber 30 .20 _	// //	/?	0 -07			
Date	@/7/13	Na	me F	ABSCO	SHEL	L & TU	BE, LL	C.	Signed	mon	w low	wes//			
Date	N'HZ				(Manul	acturer)				, (Representative)	<i></i>			
				_	CERI	TIFICATE	OF SHO	OP INSPI	ECTION		r the State of I	2mvince			
I, the und	dersigned, ho	lding a va	lid commision	n issued b	y the Na	tional Bo	ard of Bo	iler and h	ressure Vessel ins	pectors and/o	LYNN, MA	-JOANICE			
of C	Oklahoma	and em	iployed by	One	ecis i <u>n</u>	SUKA	MCEC	JMIPAN	07 /	2	E I Idid, Idia		and		
have ins	pected the pr	essure ve	ssel describe	d in this N	lanufacti	irer's Da	ta Report	on	1/5//	2	with ASME C				
state tha	at, to the best	of my kn	lowledge and	belief, th	e Manuf	acturer h	as consti	ructed th	s pressure vessel	n accordance	concerning th	e pressure ve	ssel		
1		41 * 41	:::	- ika lace	COLOR DO	, NIC 0771	NIAVOR 1372	IYPS ANV	warranty, expresse employer shall be		~~:·	- p			
describe	d in this Man dangage or a	utacturer	s Data Repo	t. Punner	more, ne formacie	d with thi	inspecio is inspect	inn.	-		1		•		
	damage or a			2 2		2 11 /2	47	Com	missions / / /	1935 H	4 CKG	,57			
Date 2	0/12/19		gneg/	wi	wilhorized k	3950(F)	101		(Na	l'i Board incl. end	rsements, State, P	ovince, and No.)			
 	<u> </u>		 -	CE	RTIFICA	TE OF F	ELD ASS	EMBLY	COMPLIANCE						
We certi	ify that the sta	itements (on this report	are corre	ct and th	at field a:	ssembly o	construct	ion of all parts of th	is vessel conf	orms with the				
requirem	nents of ASM	E Code, S	ection VIII, E	Division 1.	U Certifi	cate of A	uthorizati	on No.							
	icate of Autho						Expires		,20						
			<u> </u>						Cianad			,			
Date		N	ame		(A35)	embier)			_Signed		(Representative)				
				CE	RTIFICA	TE OF F	IELD AS	SEMBLY	INSPECTION	<u></u> -	-				
Lithaun	dersinned br	lding a va	alid commisio	n issued i	by the Na	tional Bo	oard of Bo	iler and	Pressure Vessel In:	spectors and/	or the State or	Province			
of	watergreek, III		melawad bu												
of —				have com	pared the	statem	ents in thi	s Manufa	cturer's Data Repo	rt with the de	scribed pressu	e vessel			
	te that parts n	eferred to	on data itam	~	-				not included in	the certificate	e of shop inspe	ction, have be	:en		
inenacte	nd hy me and	to the bes	st of my knoy	vledge and	d belief, t	he Manu	facturer h	as const	nucted and assemb	led this press	ure vessel in a	ccordance			
	0 0-	-41 17111	Division 1 T	ha daerril	zzav han	el was in	specied 2	ina suble	Clea to myatostatic	rear or		P	osi.		
		- ***	and the deservation of the same of the sam		a amalau	ar makai	ony war	rantu ex	nressed of implied.	concerning ti	ne pressure ve	ssel describer	ı in		
thic Ma	outschurer's T	ata Repo	ort. Furthermo	ore, neithi	er the ins	spector n	ior nis en	nployer s	hall be liable in an	y manner for	any personal i	njury or prope	ıπy		
damage	or a loss of	any kind a	rising from o	r connecte	ed with th	is inspec	tion.								
Date			igned					Con	nmissions	al'i Board incl. ers	orsements, State, I	rovince, and No.)			

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

Signed

(Authorized Inspector)

Date

1645

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT

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	1. Manufactured and certified by J&M Welding, LLC 7862 South Regency Drive, Tulsa, OK 74131 (Name and address of Manufacturer)																			
2. M	anufacture	ed for						Fabsco,		O. Box 98	8, Sap	ouipa,	OK 74							
3. L	ocation of	install	ation							*unk	nown		f Purcha	ser)			•			
4. T	ype:				HOR	IZONT	AL SHEL	L	(1	Name and add	ress)	g	3274.2	2						
			Descripti	on of ve	essel part (s		plece hea	d, tube bur	ndle)]	FABSCO, I	. –		serial N				(CRN)			
(ř	National Boan	d numb	er)						(Drawing prepa)		2012 (Year built)						
(National Board number) (Drawing number) (Drawing prepared by) (Year built) 5. ASME Code Section VIII Div 1 2010/2011A [Edition and Addenda (date)] (Code Case number) [Special Service per UG-120(d)])]					
Items	Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.																			
6. Sh			of cour	se (s):		1 (b) Overall Length :											,- <u> </u>			
No.	Coun Diameter		ength	Spe	Material Spec./Grade or Type		Thickness Nom. Corr.		Long. Joint (Ca Type Full, Spot, Nor			Eff.			int (Cat. A, B, & C uil, Spot, None		Heat Trea	atment Time		
1	32" OD		10'		SA 516GI	२७0	7/16 0"		1	SPOT		N/A	1	SPC		N/A	ТОПР			
1	32"od	3'-1	3/16		Sa516GR	170	7/16	N/A	1	SPOT	-	N/A	1	SPC)T	N/A				
7. He	7. Heads: (a) SA516GR70 (b)																			
(Material spec. number, grade or type) (H.T. – time & temp) (Material spec. number, grade or type) (H.T. – time & temp)																				
<u> </u>	Location (Top, Bottom, Ends) Thickness			Radius		Ellipti Rati		nical Angle	Hemispherical Radius	Fla Dlame	eter -		Pressure		Ca	itegary A				
(a)			Corr. N/A			e 2:1		Aigk.	100005	32		Convex	Concave	Type	Full,					
(b)			7/10	11)/1			2.1				32			Х	1	_	SPOT	N/A		
If rer	novable, b	olts u	sed (de	scribe	other fa	stening	gs)				·		/A							
8.Ty	oe of jacke	ŧ							Jacke	(Materia et ciosure	il spec.	numbe		size, numb	•					
If	bar, give	dimen	sions						- ,				(Desc	ribe as oge If			etc.) scribe or s	sketch		
9. M/	\WP				at m	ax tem	n.				Min.	desiar	netal	temp		at		psi		
	(1	ntemal	•	xtemal	<u> </u>			Internal)		xternal)				_			•	p34		
10. 1	mpact Tes	ـــــ		[Indica	ate yes or r	io and th	е сошьои	ent(s) lmpa	ct tester	d]	<u>: test</u>	temp	erature	e or						
11. F	lydro., pne	eu., or							oof Te											
	: 12 and 13	10 be c	complet	ed for	tube secti	ons.		-			-						-			
12. T	ubesheet	[Sta	tionary (m	- aterial sy	ec. no.))	(Diar	neter, (sub	ect to pressu	re)ì	(Nominal thick	ness)		(Corr. All	ow.)	[Alt:	achmer	it (welded or I	boltechi		
			N/. ing (mater	A			(Diamet			(Nominal thickne			Corr. Allow				tachment)			
13. T	ubes		l spec, no.				(O.D.)						-		,					
Items	: 14-18 incl	-	-	. •	-, •	hamber	• •	eted vesse	_	iominal thickness hannels of h	-	chane	(Numb	=)		цтуре	: (straight or l	1)]		
	hell (a) N		_	_		1				rall length:					1'1	0"				
Courses Material Thickness Long. Joint (Cat. A) Circum. Joint (Cat. A, B, & C) Heat Treat																				
No.	Diameter	L	ength	Spe	c./Grade or	гТуре	Nom.	Corr.	Туре	Full, Spot, I	vone	Eff.	Туре	Full, Spot	, None	Eff	Temp.	Time -		
									ļ											
-				-					 	1										
	····	Ц.							<u> </u>	<u> </u>			لــــــا							

Form U-2 (Back)

l5. Heads:	(a)						(b)						- C /// T	N C	*	
	(!	iaterial sp	ec. numbe	er, grade	or type) (H.T. – time (& temp)		(Ma	terial sper		grade or ty	<u>je) (n. i.</u>			
Locatio	on (Top,	Thickr	ness	• Ra	dius	Elliptical	Conical	Hemisph		Flat		Pressure	 	Categ		e Eff
	n, Ends)	Min.	Corr.	Crown	Knuckle	Ratio	Apex Angle	Radio	us —	Diameter	Conve	Concave	Type	Full, Sp	II, Spot, None	
					ļ	<u> </u>	·			<u> </u>	-	+	-	 		+
					<u>l</u>		<u> </u>	<u> </u>		1		1	-1	I.——–		1
removable	e, bolts	used (d	escribe	other f	astening	js)			(Mater	ial spec. nt	N/A mber grade	, size, numbe	r)			
6. MAWP		psi .		at n	nax tem	p			<u> </u>	vin. des	ign meta	il temp		at		_ psi
7 T		al)	(External))	NC	ini) SVAC		(External)		at te	st tempe	rature of				
7. Impact 1			[Indica	te yes or	no and th	e component	(s) impact tes	ited]								
8. <u>Hydro.</u> ,	pneu.,	or comb	, test p	ress			Proof	Test _								
9. Nozzles,		tion, and	d safety	valve o	pening:	S:	Mate	dat	N	ozzie Thic	kness R	einforceme	How	Attached	Ti	ocation
	urpose tiet. Drai:	ı. etc)	No.		neter or Size	Flange Type	Nozzle	Flange	N	om.	Corr	Material	Nozz			sp. Open
(Inlet, Outlet, Drain, etc) Inlet			1	6":	300#	RFLWN		SA-105		/80	N/A	None	4	1(a) TY		HELL
	Outlet		1	6":	300#	RFLWN		SA-105	· S		N/A	None		1(a) TY		SHELL
	AUX		1_	4".	300#	RFLWN		SA-105 S		/80	N/A	None	UW16.	1(c) TY	<u>'= 1 </u>	SHELL
													<u> </u>	\dashv		
			1	_	·			'					 			
			 	-												
O. Identific	ation c	f Parts:	1												1 34	- 5- 75-
Nam	e of Part		Quantity	, u	ne No.	Mfr's identi	fication No.	No. Mir's Drawing				RN	National	Board No	. Ye	ar Built
	N/A			_												
			· · · · · ·								- 			****	\top	
·····																
21. Support	s: Skirl	:	NOO	Lu	ıgs _		Legs	·	-	_Othe	rs	scribe)	Attac		Where :	nd how
		(Ye	s or No)			(No.)		(No.)		(De	scribe)		•	111444	410 11011
22. Remark	·											-				
				SAFET	Y VAI	VE(S) S	UPPLIED	BY OT	HER	S PER	UG-125	(a).				
						NO DES	GN BY J&	M WELDI	NG, I	lt <u>c </u>						
					WPS	QUALIFIE	D WITH	AND WI	THO	UT PW	HT.					
					-		TE CITOI	ACTET 1	200	NADT	TANCE	· · · · · · · · · · · · · · · · · · ·				
				CE	KIII	ICATE (OF SHOR	/PIELJ details of	mote	rist con	etaiction LAXIVE	and work:	manshio	of this	ressur	e
We certi	ty that t	he staten	e asmei	ae in in Roll er	and pr	ESSURE VI	ESSEL COD	E. Section	VIII	, Divisio	n I.		•			
										07/18/2				1		
บต	ertificat	e of Autl	horizatio	n Numb	CT	41,929	Expir	es _		0//10/2	1014					
Date	4/24/	/3	Name		38	દેM Weldin	g, LLC		Sign	ed ^	111		<u>//_</u>			
Date .	75.7	, , ,	140000			(Manufac	turer)						(Repre	sentative)		
				C	ERTII	TCATE	OF SHO	P/FIEI	ĎΠ	NSPE	CTION	! Y	, 	a-the C	nte or	Dovin
	dersign	d, holdi	ng a vali	d comm	ission is:	sued by the	National B	oard of B	oner	and Pres	sure ves: of	sei mspeci	Lvni Lvni	n, Ma.	alc or .	
ot	OKL	AHOMA	and i	employe	a by	in this Ma	nufacturer's	Data Re	nort o	uibari	72/31	iz				
					1 %.	-1 -6 +6 - 1/	anutacturer	· hae conel	mirie	או זמוע דו	essure ve	ssel part in	accord	ance wit	h	
			MOTION TO B	TCCCT1	CODE C	antion VIII	I hvieinn	I KV SIOT	ពេក រ	nis centi	ncare nen	TIC! THE III	コレイナイハッ エ	101 11121	or onesh	loyer
neither	the Insp	ector nor	his/her (employe	r shall b	e liable in a	iny manner	for any p	erson	ai injury	or prope	ny camag	C OL 8 10	es or an	Kinu i	amena
from or	connec	ed with t	this inspe	ection.	144.	,	n [] ·									
Data	dh	1/53	Signed		1/1/1/1	(ARD)X	Hone.	/	C	ommissi	ons <u>N</u> E	9265-A			 	
Date	TIL				(Autho	orized Inspec	tor)			[National	l Board(Inc	l endorsem	ents) Stat	e, Provinc	e and n	umber]

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	1. Manufactured and certified by J & M Welding, LLC, 7862 South Regency Dr., Tulsa, Oklahoma 74131 (Name and address of Manufacturer)																				
2.	Manufact	ured for					FABSCO S	hell and		e, 24	10 Indu	strial	Road,		pa, OK	74066					
3.	Location (of instal	lation			-				e and a	ddress of "Unk	Purcha NOW!	aser)								
		- · · · · · · · · · · · · · · · · · · ·		_	Rolled &	Waldad	Eccentric	Cone		(Name	and addr			3185.1							
₹.	Type:		[Descr		of vessel pa	rt (shell, t	vo-plece hea					•	nufactur		l number)			(CRN)			
	(National	Board nur	nber)			10631-1V wing numb					Shell an					0	2012 ear bi				
5.	ASME Cod			Div 1	•	201	o o			•	le Case nu			 .	1C.	poial Cor	vice re	er UG-120	(d)T		
6.	Shell (a)	No. of c	ourse (s): _	fentac	[Edition and Addenda (date) 1					Length		·		[Special Service per UG-120(d)] 1'5-1/4"						
		Course(s)			Material Spec./Grade or		Thick				Joint (C	 7			Joint (Cat. /			Heat 7	T		
No.	Diameter 2'8" ID x		Length	\perp	Ту	e	Nom.	Corr.	Тур			опе	Est.	Type	Full, Spot		EIT	Temp.	"	me	
1	2'-9/16" II	<u> </u>	′ 5-1/4	"	SA 51		7/16"	0	1		Spot		85	<u> </u>	- AI/A		-	-	<u> </u>		
7. Heads: (a) N/A (b) N/A (Material spec. number, grade or type) (H.T. – time & temp) (Material spec. number, grade or type) (H.T. – time &												e & temp									
	Locatio	n (Top,	Thic	kness		Vadius	Elliptic	ai Coni	Conical		Hemispherical Radius		st		Pressure			ategory A			
- 1-	Botton	, Ends)	Min.	Com	Crown	Knuck	le Ratio	Apex A	riile	Ка	-	Diam	eter	Convex Concave		Type -	Full, Spot, Non		ne	Eff _	
(t	0)	<u> </u>	1.			1 -	-	-			-		-	_	<u>-</u>	-			工		
If	If removable, bolts used (describe other fastenings) N/A																				
8.	8. MAWP at max temp. (Material spec. number, grade, size, number) Min. design metal temp. at at																				
9.	(Internal) (External) (External) (External) 9. Impact Test NO. EXEMPT UG-20(f), UCS-66, at test temperature of																				
	-		comb		ate yes or	no and the	componentis) Impact t	ested Proof	Test			_		•	-					
	11. Nozzles, inspection, and safety valve openings:																				
	Pu (Inlet, Out	rpose et, Drain,	etc)	١		lameter or Size	Flange Type				al Nozzie T Flange Nom.				rcement terial	Nozzie Flange (1			Locat Insp. O		
		V/A		+-					+										_		
12.	Identifica		arts		1																
		of Part /A	-	Quar	ntity	Line No.	Mfr's Iden	fication No. Mfr's Drawin				ng no. CRN			UNI I	National Board No. Year Built					
13.	. Supports:	Skirt	- CYE	NO s or No		ugs _	(Number		egs	(Nur	nber)	Oth	ers	(Desc	ribe)	Attach	ea .	(When	and h	iow)	
14.	. Remarks		···			11177		No des		<u>y Ĵ&</u>	M Weld				-						
						WPS	QUALIFIE	אל אז ה	MI 6	ַ טעו אַ	-vvmi C	טאט	TITON	J.							
Γ		·-			1	CERTI	FIÇATE	OF SE	IOP	ƌ.	LD CO	MP	LIAN	ICE	•						
	We certif	y that the	e statem	ents n	nade in th	is report :	are correct	and that a	all de	tails of	materia	i, con	structio	on and v	vorkmans	hip of tl	is pr	essure			
	vessel pa	t confor	m to the	: ASM	E BOILEF	AND PR	ESSURE VE	ESSEL CO	DDE, S	Section	vШ, D	ivisio	n I.		n				_		
	U Certific	ate of A	uthoriz –			41,929		xpires	_			18/20	14	1	#		A				
	Date 4	<u>/24//:</u>	<u> </u>	Nam	ne	<u>J</u>	& M Weld (Manuf	ling, LLC acturer)	2		Sig	ned				(Represe	ntativ	2)			
Г	····					CERT	IFICAT	E OF S	HO	P/FII	LDIN	SPI	ECTI	ON		-					
	I, the und	ersigned OKLAH			ilid comm ind emplo		nued by the One	National Beacon A	. Boar meric	d of B a Insur	oiler and ance Com	Pres pany	sure V	of	spectors a	novor th Lyi	e Stat m, Ma	e or pro L	VIRCE		
	have inst	ected th	e pressi	ire ve	ssel part o	lescribed	in this Mar	ufacture	r's Da	ata Rej	ort on		10	lzuli			:.t				
	ASME BO	ILER A	VID PRES	SSURE	VESSEL	CODE, S	lief, the Ma	. Divisio:	n 1. E	3v sigr	ing this	certif	icate n	either th	e Inspect	or nor h	is/her	employ	er		
	makes an	v warrar	itv. exp	ressed	or impli	d, concer	ming the pr in any man	essure ve	ssel p	oart de	scribed i	n this	: Manu	facturer	's Data Ro	eport. F	urthe	rmore, i	either	•	
	the inspe					oc hadie :	r any man	rict fol si) 'Y bei	SUIM	mjary or	եւգի	orrà ag	gc U	. a 1035 UI	mij Alli	~ m13	ALVII	. 01		
	Date	עלא	113	Sin	med /	Mir	h sol)	W. 181	NI	/	Cor	nmis	sions	NB	92/05/	4					
	Date _	FIL	-		,10tl _ <i></i> /	V VIII	thortzed Insp	ector)	120	<u> </u>				pard (incl	endorseme	ents) Stat	e, Pro	vince and	numbe	er]	