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

Manufacture for Annufacture for Annufactur	1.	Manufactured	and cer	tified by				STEE	TEK, II	NG,	4141	SOUTH	JAC	KSON TULSA	OKLA	HOMA	74107 US	SA.			
	2.	Manufactured	for A	nadarko P	etroleum	Corporation	on ; PO Bo	x 4995 ; The	Woodlar	nds,				ress of Manufa	cturer)		44			
1	3,	Location of Ins	 stallation	Unkno	wn		***			(N	ame a	and addr	ress o	of Purchaser)	***************************************						
NONE	4.	Туре		Но	rizontal						•										
CSRM Code, Scient VIII, Div. 1 2018 (Edition and Addresing Scient) Edition and Addresing Scient) Code Class number) Code Class					ertical, o	r sphere)	1	•	ľank, se	epara	ator, j	kt, vess	el, he				(Manufact			ber)
Count Coun			(CRN)								,	(Natio	onal Board nur	nber)		-			,	
Select All Number of course(s) Select Select All Number of course(s) Select	ნ.	ASME Code,	Section '	VIII, Div. 1	l						~~~				-						
8. Shell: (a) Naturbur colouries)	ltem	s 6 - 11 incl to	he con	inleted for	einale v					hell c	of hea					chamhe			ice per	UG-120(d}] .
No					~	7011 F653010		Jackbead Vol	10010, 01					, or unambor o	, ,,,,,,,,,,	011011100					
2 54° 1.0 10° - 0° S.A.5° 5.70N		Cour	se(s)			*****	Material		TI	nickn	less	ι	.ong.	Joint (Cat. A)		Circu	m. Joint (Cat. A, B	, & C)	Heat To	reatment }
1	No.	Diameter	Le	englh		Spec.	/Grade or T	уре	Noi	m.	Corr.	Туре	Full	l, Spot, None	Eff.	Туре	Full, Sp	ot, Nane	Eff.	Temp.	Time
1	2	54º I.D.	10)' - 0''		S	A-516-70N		.62	5" .	0625	1		Spot	.85	1.	Spot .85 NONE			NONE	
	<u> </u>							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~~			·	-				——-i		
Contact Cont	2	38° I.D.	0	' - 4 ¹³	<u> </u>	8	A-516-70N		,62	5"].(0625"	1		Spot	.85	1	S	pot	.85	NONE	NONE
Contact Cont	7.	Heads: (a) NONE (b)																			
Bottom, Ends Bott			<u> </u>	,							-T-:-				·			type) (H.)
A		'									1	-						Tuna			C 66
	(2)	Bottom, E	nas)	IMIN.	Corr.	Crown	Knuckie		Apex A	Angie	+		i	Diamater		OX C	oncave	Type	ruii, ot	- None	
	-			-			-				-					+				-	
		movable, bolts	used (d	lescribe of	ther fast	enlaa)	1				1			NONE							L
	1,10	movobio, binto	, 0000 (0	ioddilbo o	mai too							Material	spac		de. size	a. numb	er)				
None	8.	Type of jacke	t	`		NO	ONE								,	,		ONE		» ì	
9. MAVP 300 PSI NONE at max. temp. 200 F. NONE (External) (Ex		If har give dir	nension		٠٠.					IONI	_			<u> </u>	(0	escribe	as ogee				nr sketch
					NON	IE .	at may	lemn 200		- IVI		ONE		Min. design I	metal t	emp.	-50	_			
10.	٥.	-					-			_				min sooign							-
11	10,				(=	,		,		ND V				`.	~~~			at test te	mpera	ture of _	-50 F
12. Tubeshee SA-350LF2,CL.1 38.125" 7.750" 1.25" C Corr. allow. C C Corr. allow. C C C C Corr. allow. C Corr. allow. C C Corr. allow. C Corr. allow. C C Corr. allow. C C Corr. allow.	11.	Hydro., pneu	., or co	mb. test p	oressure					роле	ent(s)	impact	teste	d] ·		NO					
SA-350LF2,CL.1 38.125" 7.7502 1.25" Welded			pe com					38	125"				7.7	750°		.12	5"			Welded	
13. Tubes SA-214 Sebs SA-214 Sebs SA-214 Sebs Salay Straight or Up (Material spec. no., grade or type) (O.D.) (Nominal thickness) (Number) (Number) (Type (straight or Up)) (Material spec. no., grade or type) (O.D.) (Nominal thickness) (Number) (Number) (Number) (Number) (Number) (Number) (Number of course(s)) 2					naterial	spec. no.)			ect to	pres			ninal	thickness)			llow.)	[Attac			r bolted)]
Contact Cont		[Float	ng (mat	erial spec.	. no.)]		(Dian	neter)		1)	Nomin	al thickr	ness)	{(Corr. al	low.)		-	(Attac	hment)	
A	13.	Tubes		SA-2	214.			.625"					.0.	60"		18	548	~~			
14. Shell: (a) Number of course(s) 2 Shell: (b) Overline Ov	D									nf ha				hickness)		(Nur	nber)	[Type (s	straight or	U)]
No. Diameter Length Spec./Grade or Type Nom. Corr. Type Full, Spot, None Eff. Type Full, Spot, None None Solder Type Full, Spot, None Eff. Type Full, Spot, None Eff. Type Full, Spot, None None Solder Type Full, Spot, None Eff. Type Type Full, Spot, None Eff. Type				,				vessels Di Cii	2111161616								4' -	6"			
1 38" 1.D. 2' -3" SA-516-70N 1.250" .0625" 1 Full 1.0 1 Full 1.0 NONE NONE 1 38" 1.D. 2' -3" SA-516-70N 1.250" .0625" 1 Full 1.0 1 Full 1.0 NONE NONE 1 38" 1.D. 2' -3" SA-516-70N 1.250" .0625" 1 Full 1.0 1 Full 1.0 NONE NONE 15. Heads:(a) SA-516-70N; NONE (Material spec. number, grade or type) (H.T time and temp.)		Cour	se(s)				Material		TH	nickn	1055	L	ong.	Joint (Cat. A)		Circui	n. Joint (Cat. A, B	& C)	Heat Tr	eatment
1.250" .0625" 1 Full 1.0 1 Full 1.0 NONE NONE SA-516-70N; NONE SA-516-70N; NONE (Material spec. number, grade or type) (H.T time and temp.) (Material spec. number, grade or type) (H.T time and temp.) (Material spec. number, grade or type) (H.T time and temp.) (Material spec. number, grade or type) (H.T time and temp.) (Material spec. number, grade or type) (H.T time and temp.) (Material spec. number, grade or type) (H.T time and temp.) (Material spec. number, grade or type) (H.T time and temp.) (Material spec. number, grade or type) (H.T time and temp.) (All plants or type) (H.T time and temp.)	No.	Diameter	Le	ength		Spec.	/Grade or T	уре	Not	m. (Corr.	Туре	Full	, Spot, None	Eff.	Туре	Full, Sp	ot, None	Eff.	Temp.	Time
15. Heads:(a) SA-516-70N; NONE (b) SA-516-70N; NONE Control C	1	38" I.D.	2	' -3"		5	A-516-70N		1.25	0, "06	0625"	1		Full	1.0	1	F	ull	1.0	NONE	NONE
Control Cont	1	38" ì.D.	2	- 3ª		\$	A-516-70N	:	1.25	.0°	0625"	1		Full	1.0	1	F	ull	1.0	NONE	NONE
Control Cont		-		-	<u></u>		-		:		4	-		- 1	-			•	-	•	
Location (Top, Bottom, Ends) Homeward Bottom, Ends Thickness Radius Elliptical Conical Hemispherical Flat Side to Pressure Category A	15.	5. Heads:(a) SA-516-70N; NONE (b) SA-516-70N; NONE																			
Bottom, Ends Min. Corr. Crown Knuckle Ratio Apex Angle Radius Diameter Convex Concave Type Full, Spot, None Eff.																					
(a) END 1.250" .0625" NONE NONE 2 : 1 NONE NONE NONE NONE NONE X S NONE 1.0 (b) END 1.250" .0625" NONE NONE 2 : 1 NONE NONE NONE NONE NONE X S NONE 1.0 If removable, bolts used (describe other fastening) CHANNELS TO SHELL : (36) 1-3/4" SA-193-B7 STUDS WITH (72) SA-194-2H NUTS EACH.		1												1 1							1 5"
(b) END 1.250" .0625" NONE NONE 2 : 1 NONE NONE NONE NONE X S NONE 1.0 If removable, bolts used (describe other fastening) CHANNELS TO SHELL : (36) 1-3/4" SA-193-B7 STUDS WITH (72) SA-194-2H NUTS EACH.	101		nas)	 							+										
If removable, bolts used (describe other fastening) CHANNELS TO SHELL: (36) 1-3/4" SA-193-B7 STUDS WITH (72) SA-194-2H NUTS EACH.				 							-						-				
The state of the s			Head /				NONE				HELL										
(Material spec. number, grade, size, number)	1116	movable, botte	aadu (U			g <i>)</i>		CHAIN	HELO I	0 01		<u> </u>						21111010	LAVII	<u> </u>	

Form U-1 (Back)

16.	MAWP 1200 PSI		NO	NE	at max. temp.	200 F.	NONE :	Min, o	lesign metal temp.	-50 F.	at	1200 PSI .	
(Internal) (External) 17. Impact test						internal) (E			at test ten	nperature	of -50 F.		
	[Indicate yes or no and the component(s) impact tested]												
	18. Hydro., pneu., or comb. test pressure 1561 Proof test NO												
19.	19. Nozzles, Inspection, and safety valve openings: Purpose Diarneter Flange Material Nozzle Thickness Reinforcement How Attached Location												
["	rurpose nlet, Outlet, Drain, etc.)	No	or Size	Flange	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)	
-				Type			1.00"	.0625"	NONE	E	1	N/A	
-	SH. INLET	1	12"	300#FL	SA-350LF2,CL.1	SA-350LF2,CL.1				-			
\vdash	SH. OUTLET	1	18"	300#FL	SA-350LF2,CL.1	SA-350LF2,CL.1	1.00"	.0625"	NONE	E	1	N/A	
-	SH. MISC.	2	2"	300#LW	SA-350LF2,CL.1	NONE	.660"	.0625"	N/A	E	NONE	N/A	
<u></u>	CH. IN / OUT	1/1	14"	600#FL	SA-360LF2,CL.1	SA-350LF2,CL.1	2.500"	.0625"	NONE	E.	1	N/A	
	CH. VENT / DRAIN	1/1	3/4"	6000#C	SA-350LF2,CL.1	N/A	,500"	.0625"	NONE	E	N/A	N/A	
												N/A	
	CH. AUX. 2 1-1/2" 600#LW SA-350LF2,CL.1 NONE .630" .0625" N/A E NONE N/A												
20.	D. Supports: Skirt NO Lugs NONE Legs NONE Others 2) SADDLES Attached SHELL - WELDED												
	(Yes or no) (Number) (Number) (Describe) (Where and how)												
21.	21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (first the name of part, Item number, Manufacturer's name, and Identifying number): NONE												
	On Decoder 114 to CAPETALVALVES BY OTHERS. IN A CHIEF HAS THE STANDARD VEHICLE OF SECOND CAPETAL OF SE												
22.	22. Remarks LN. 19 - SAFETY VALVES BY OTHERS LN. 6 - SHELL HAS TWO (2) 38" I.D. X 54" I.D. 30 DEG. ECC CONE; SA-516-70N; .625; .0625; 1; Spot; None												
	TYPE: BKM SIZE: 38 / 54-396.												
	P.O. NO : 4500013868 ITEM NO. : G8-404.												
	SERVICE : SECOND GAS CHILLER.												
	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 of Authorization Number 25,595 Expires 05/16/2015												
			-	×					. //	200			
	Date 9-14-12. Name STEELTEK, INC. Signed												
	(Manufacturer) (Representative)												
	APPAPEIANTE OF OLIOS MODEOTION												
	CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and/or the State or Province												
1	of OK				"HSB CT"			of CT					
1		elira.			nis Manufacturer's Data	Report on		triti	7			, and	
							n vessel in) accorda	nce with ASME BOILER	AND			
									ployer makes any warran		has		
									spector nor his/her employ		364		
					/ / // // //					yei silali /			
1	$\alpha \omega \omega \omega$			injury or	property damage or alic	134 .		nected wi	ith this inspection.	11/1	11		
	Date 7/14/12	Si	gned				nissions	JUV	1154154/0	2159	6		
	, ,				(Authorized Inspector)			[National	Board (incl. endorse)ner	its), State,	Province	, and Number]	
						OF FIELD ASSEMB							
	We certify that the stat	ement	s on this re	port are c	orrect and that the field	l assembly construction	of all par	ts of this v	ressel conforms with the	requireme	ents		
	of ASME BOILER AND	PRES	SSURE VES	SSEL COD	DE, Section VIII, Divisio	n 1. U Certificate of Au	thorization	Number	25,595 Expires	(55/16/201	5	
	Date		Name	STEELT	TEK, INC.			Signe	d				
		_				Assembler)		•	(Rep	resentativ	e)		
<u>_</u>													
						OF FIELD ASSEME							
	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 - and employed by -												
	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												
		AND	PRESSUR	E VESSEI	L CODE, Section VIII, D	Division1. The described	vessel wa	as inspect	ed and subjected to a				
	with the ASME BOILER		11111100011										
		,,,,,				v elanina this cortificate	noither #	e Incode	or nor his/har amniouer a	nakes env	Warranh	expressed or	
1	hydrostatic test of			-	. В				or nor his/her employer n	nakes any	warranty	expressed or	
	hydrostatic test of	press	ure vessel	described	. B	Data Report, Furthermo	re, neither	the inspe	ctor nor his/her employer	nakes any	warranty	expressed or	
	hydrostatic test of implied, concerning the shall be liable in andy r	press	ure vessel or for any pe	described	. B	Data Report, Furthermo	re, neither Islng from	the inspe		nakes any	warranty	expressed or	
	hydrostatic test of	press	ure vessel	described	. B	Oata Report, Furthermon	re, neither	the inspe	ctor nor his/her employer				