## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

Manufactured and certified by NORTHERN DESIGN SERVICES, INCSHOP 424 E. DRESDEN ST. KALKASKA,MI 49646  (Name and address of Manufacturer)																			
(Name and address of Manufacturer)  2. Manufactured for NATURAL GAS COMPRESSION SERVICES, INC 2480 AEROPARK DR. TRAVERSE CITY, MI 49686																			
3. Location of installation UNKNOWN (Name and address of Purchaser)																			
				YVV		_		. (	Name and add					-,					
4. Type HORIZ	z. PULS	ATIO	ON (N	lanufa	1146	66 erial number)	(CRN)		20PB10B (Drawing nu			5812 National Board number)			2011				
5. The chemical											ntions of the	ASM	E BOII	umber) LER AN	ND PR	Year buil: SSURE V	ı) ∕ESSEL		
	CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1																		
to																			
	[Addenda, if applicable (date)] (Code Cas Shell SA-106B .375" -										numbers) 19.25"				[Special service per UG-120(d)]				
6. Shell(Ma	nber, gra	de)		ominal thicknes	s) (C	orr. allow.)		(Inner diameter)						72" Length (overall)]					
7. Seams	SM	ALS.							WE	ELDI	ED, SINGLE	BUT	Τ	-	7	0	1		
[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 course)  SA-516 GR70 (A) Material SA-516 GR70															f courses)				
8. Heads: (a) Material SA-516 GR70 (b) Material SA-516 GR70 (Spec. no., grade) (Spec. no., grade)																			
Location (	Top, !	Mini	mum	Со	rrosion	· · · · · · · · · · · · · · · · · · ·	Knuckle	Elliptical	Conical Hemis			herical Fla							
Bottom, E	nds)	Thickness		Allowance		Radius	Radius	Ratio	Apex Angle		Radius		Diameter		(Convex or Concave)				
(a) LEFT		.1876"		-		-	-	2:1					•		CONCAVE				
(b) RIGHT			1876" 2:1										<u>.</u>			CONCAV	<u>E</u>		
If removable, bolts used (describe other fastenings) (Material spec. number, grade, size, number)																			
9. MAWP 215 N/A at may temp 350														N/A					
(Internal) (External) (Internal)  Min. design metal temp. —20 at215 . Hydro., 1001000000000000000000000000000000000												г		ternal)					
wiin. design m 10. Nozzles, inspe		-			-	710	Hydr	O., <b>)(XXXXX</b>	iXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	st pr	essure 🚣	50 F S			KOOI	F TEST:			
Purpose	100001, 0	1	Diame	*****	Openii		terial	Nozzle	Thickness	Rai	nforcement	Atta	chme	nt Deta	ils	Locati	<u> </u>		
(Inlet, Outlet, Drain	etc.) N	No. or Si			Туре	Nozzle	Flange	Nom.	Corr.	Reinforcement Material			zzie	Flan		(Insp. O			
OUTLET		1	6"-15		RFWN	***************************************	SA-105	.432"	-	SA-36		UW-16.1(c) TYPE		≣ 1	L.HE/	AD			
INLET TI/DRAIN		4 3	6" FACT. I		F.F	SA-106B	SA-516GR70	.432"	-		SA-106B		UW-16.1(c) TYPE		<u>1</u>	SHEL			
PI		1	1/2"FN		T.O.L. T.O.L.	SA-105 SA-105	-	3000# 6000#		INHERENT INHERENT			UW-16.1(a) -		SHELL SHELL				
						9, 1, 100		1 0000		7.1.1.1.1.1.1.1.1		UVV-I	UW-16.1(a) -		JIELL		-		
11. Supports: Skir	t NC	)	Lugs		-	Legs	Othe	er	-		Attached				-				
12. Remarks: Man	yes or ufacture	no) er's l	Partial I	n) Data	umber) Report	Nur) s properly is	nber) dentified ar	nd sianed b	(Describe) v Commiss	sion	ed Inspector	rs hav	e bee	Whe) n furni	re and h	now) for the fol	lowina		
items of the re												0 1.0				101 1110 101			
FC	R NON-	LE1	THAL/N	ION-	ORRe	ame of part, iter	n number, Mar VICE. EXEI	nufacturer's nar MPT FROM	ne and identify	ying s	tamp) TING PFR L	IG-20	fi AN	D UCS	-66(c)				
												<u> </u>	(1) / (1)		00(0)	<u>'</u>			
						CERTIFIC	CATE OF SH	HOP/FIELD	COMPLIAN	ICE									
We certify that the	e statem	nent	s made	in t	his rep						rial, constru	ction	and v	workm	anshir	n of this v	essel		
conform to the AS	ME BOI	LER	AND P	RES	SURE V	ESSEL COD	E, Section V	/III, Division	1. "U" Cert	tifica	ite of Author	izatio	n Num	ber		33.792	00001		
expires	/05/12		<del>-</del> ·																
Date 1.177h	Co	. na	me _	IOR	THERN	DESIGN SI		NC.	Sig	gned	P.KALTE	NBAC							
(Manufacturer) (Representative)																			
Vessel constructe	. a. L	NOE	THED	N D	ESIGN			HOP/FIELD			ספרטבא פ	T 1/A		12 A B 41	4004		ŀ		
I, the undersigned							·····	Poord of Po			DRESDEN S						:		
MICHIGAN	u, notum	y a	vallu ci	311111	11991011	issued by thi		mployed by		essu	re vessei ins	pecto	rs and	yor the	State	or Provir	ice of		
have inspected th	ne comp	one	ent des	cribe	ed in th	is Manufact				11	/					and state	that		
to the best of my															LER A	ND PRES	SURE		
VESSEL CODE, S	ection V	/111,	Divisio	ກ 1.	By sign	ning this cer	tificate nei	ther the Ins	spector no	r his	her employ	yer m	akes a	any wa	rranty	, express	sed or		
implied, concern																	loyer		
shall be liable in a	12			7	SUNAI II	of the property of	perty dama:				ising from o NB14299A			with t	nis ins	spection.			
Date /0/////	<b>-</b> − 51g	ned		-140	( <i>A</i>	Authorized Inspe	ctor)		Commissio	1115 -	National Board			ents), St	ate, Pro	vince, and nu	mber)		
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