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

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Manufactured and certified by NORTHERN DESIGN SERVICES, INCSHOP 424 E. DRESDEN ST. KALKASKA,MI 49646  (Name and address of Manufactured)																
(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)																
4. Type HORIZ. PULSATION 11469 - 20								20PB31B					809 2011			
5. Tł			(Drawing number) (National Board number) (National Board number) (National Board number)						(Year bui	it) VESSEL						
	DDE. The design,													10		
to	7.4.1.1		O pplicable (dat										-		*****************	
6. Sł	-	SA-10	• • • • •	.375"				19.25"				[Special service per UG-120(d)				
	(Material	spec. nu SMLS	mber, grade)	1)	lominal thicknes		Corr. allow.)	_ \//	er diameter)			(Length (overall)) - 70 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 (Eff., %)														-		
8. Heads: (a) Material SA-516 GR70 (b) Material SA-516 GR70 (Spec. no., grade) (Spec. no., grade)																
	Location (Top,	Minimum		orrosion		Knuckle	Elliptical	Conical		Hemispherical		Flat		Side to Pressure		
(0)	Bottom, Ends)			llowance		Radius	Ratio	Apex Angle		Radius		Diameter		(Convex or Concave)		
(a) (b)	LEFT RIGHT	<b>-</b>	930"	-		_	2:1 2:1	-				-		CONCAVE CONCAVE		
If removable, bolts used (describe other fastenings)															<u> </u>	
(Material spec. number, grade, size, number)																
		400 ternal)								(Internal)		1			(External)	
	n. design metal t zzles, inspectior					Hydr	O., <b>XXXXXXX</b>	<b>iXXXXXXXXXXX</b> tes	st pr	essure 5	20 PS	il	P	ROO	TEST:	N/A
10. 140	Purpose	i, and	Diameter	<del></del>	, · · · · · · · · · · · · · · · · · · ·	terial	Nozzle	Thickness	Re	inforcement	Atta	achme	nt Deta	ils	Locat	ion
(Inlet, Outlet, Drain etc.)			or Size	Type	Nozzle	Flange	Nom.	Corr.	<u> </u>	Material	Nozzle		Flan	nge (Insp. Open.)		pen.)
OUTLET		1	8"-300# 4"-300#	RFWN		SA-105 SA-105	.500"	-	<u> </u>	SA-106B SA-36	10.1107		TYP		SHE	
	T.I		1/2"FNP1		SA-105	-	3000#	-	١١	HERENT	LOVV-10. IICI			7.11127.05		
	P.I.		1/4"FNPT	T.O.L	SA-105	-	6000#	-	II.	HERENT	UW-16,1(a)		-	SHELL		
				<del> </del>		<u> </u>			<u> </u>	· · · · · · · · · · · · · · · · · · ·					·····	
11. Su	pports: Skirt	NO	_ Lugs	-	Legs	Oth	er	_		Attached				l		
12. Re	۲۹) marks: Manufact	s or no) urer's	Partial Dat	Number) a Repor	Nui) ts properly i	_{mber)} dentified ai	nd signed b	(Describe) v Commis:	sion	ed Inspecto	rs hav	∕e bee	Whe) n furni	re and shed	how) for the fo	llowing
	ms of the report:															
(Name of part, item number, Manufacturer's name and identifying stamp) FOR NON-LETHAL/NON-CORROSIVE SERVICE. EXEMPT FROM IMPACT TESTING PER UG-20(f) AND UCS-66(c)																
															<u>-</u>	
We ce	ertify that the sta	tomon	te mada in	thic ron			HOP/FIELD			vial agratu						
confo	rm to the ASME I	OILEF	R AND PRE	SSURE V	ESSEL COD	E, Section \	/III, Division	1. "U" Cer	nate tifica	erial, constru ete of Author	iction izatio	, and i n Num	workm nber	anshi	33.792	vessel
expires																
Date Co. name NORTHERN DESIGN SERVICES, INC. Signed P.KALTENBACH Q.C																
***************************************	(Manufacturer) (Representative)  CERTIFICATE OF SHOP/FIELD INSPECTION															
	l constructed by				SERVICES,	INC.		at 424	E. [	DRESDEN S						
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 MICHIGAN  and employed by HSB CT														nce of		
have inspected the component described in this Manufacturer's Data Report on 1914111 , and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE																
VESS	EL CODE, Section	n VIII,	Division 1	. By sig	ning this cer	tificate nei	ither the Ins	spector no	r his	her emplo	yer m	akes a	any wa	rrant	y, expres	sed or
	ed, concerning t be liable in any n															ployer
Date .	1017/1	Signe	1 / / /	ر سا	felt	/		Commissio		NB14299A			. v*:L11 L		opection.	<u>.                                    </u>
	-	J5		(,	Authorized Inspe	ctor)				National Board	(incl. er	ndorsem	nents), St	ate, Pro	vince, and n	umber]