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

1. M	Manufactured and certified by NORTHERN DESIGN SERVICES, INCSHOP 424 E. DRESDEN ST. KALKASKA,MI 49646																
(Name and address of Manufacturer)  2. Manufactured for NATURAL GAS COMPRESSION SERVICES, INC 2480 AEROPARK DR. TRAVERSE CITY, MI 49686  (Name and address of Purchaser)																	
3. Location of installation UNKNOWN																	
(Name and address)													2011				
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number)												(Year bui	t)				
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1														RESSURE	VESSEL		
C	ODE. The design,	const	ruction,	and workr	nanship con	form to ASN	VIE Rules, S	Section VIII,	, Div	ision 1				010			
to	Matter Market Ma		10				-						¥6	ar			
	[Adde		pplicable (	date)]	(Code Case nu							[Special service per UG-120(d)]					
6. SI		SA-106	o-B mber, grad	1-1 /6	.375" Iominal thicknes	-1 /0		15.25"			63"						
7 6.		SMLS		ie) (ii	-	s) (Corr. allow.) 85 -		(Inner diameter) - WELDED, SINGLE I			RUT				[Length (overall)]		
[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., %) (No.														f courses)			
8. Heads: (a) Material SA-516 GR70 (b) Material SA-516 GR70 or full)]																	
(Spec. no., grade) (Spec. no., grade)																	
Location (Top, Bottom, Ends)		Minimum Thickness		Corrosion		Knuckle	Elliptical	Conical		Hemispherica				Side to Pressure			
г <i>т</i>			<del></del>	Allowance	Radius	Radius	Ratio			Radius		Dian	Diameter (		(Convex or Concave)		
(a)					-	-	2:1	-					-	CONCAVE			
(b) BOTTOM .3125" -				<u> </u>	- 2:1 -					- CONCAVE					<u>E</u>		
If removable, bolts used (describe other fastenings)																	
(Material spec. number, grade, size, number)  9. MAWP																	
0. 111	(In	ternal)		· ·	(External)				mp. (Internal)						kternal)		
Mi	in. design metal t	temp.		0at	400	Hydro	., <b>JOXXXXXX</b>	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	st pre	essure 5	20 PS	31	PF	₹00F	TEST:	N/A	
10. No	ozzles, inspection	n, and	safety v	alve openi													
	Purpose		Diame			terial	Nozzle	Thickness	Rei	nforcement	Atta	achme	nt Deta	ils	Locati	on	
(Inlet, Outlet, Drain etc.)		No.	or Si		Nozzle	Flange	Nom.	Corr.		Material	<del></del>		Flan	~	(Insp. O	pen.)	
INLET		1	4"-300			SA-105	.337"	-		SA-53B	UW-16.1(c) TYP		~~~~	SHE			
OUTLET AUTO DUMP		1	4"-300			SA105	.337"			SA-53B	1011-10.1167		TYPE	: 1	SHE		
MAN. DUMP		1	1"FNF 1"FNF		SA-105 SA-105	-	3000#	-		HERENT	UW-16.1(a)				SHELL/B		
HLLSD/LLC		2	2"FNF		SA-105 SA-105	<u> </u>	6000#	-		HERENT HERENT	1 OW-10.11C1				B.HE.		
SIGHT GLASS		2	3/4"FN		SA-105		3000#			HERENT	<del> </del>						
		YES			Legs	- 04								SHELL/B.HEAD P HEAD-WELDED			
	(Ye	s or no)	Lugs	(Number)	(Nur	mber)	1	(Describe)		Attached			(Whe	re and	how)		
12. Re	marks: Manufact	urer's	Partial [	Data Repor	ts properly i	dentified an	d signed b	y Commiss	sione	ed Inspector	rs hav	re bee	n furni	shed	for the fo	llowing	
12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:																	
	FOR NO	ON-LE	THAL/N	ON-CORR	OSIVE SER	VICE. EXEN	IPT FROM	IMPACT T	rest	ING PER U	JG-20	(f) AN	D UCS	-66(c	:)		
						***************************************		······································				`				***************************************	
					CERTIFIC	CATE OF SH	OP/FIELD	COMPLIAN	ICE								
We ce	ertify that the stat	temen	ts made	in this ren						rial constru	etion	andi	workm	anahi	im nækhini.		
confo	rm to the ASME I	BOILEF	AND P	RESSURE \	ESSEL COD	E. Section V	III. Division	1. "U" Cert	tifica	te of Author	ization	, anu v n Num	her	3115111	33.792	essei	
expire	00/05/4					_,	,	5 55			Lucio	· · · · · ·			00.702		
Doto	12/5/11	C	N	ORTHERN	I DESIGN SI	ERVICES IN	IC.	٥.		P.KALTE	NBAC	CH O	~ ~				
Date	<del>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </del>	Co. na	ame <u></u>	OKTITLI		ufacturer)	10.	Sig	gned	F.NALIE	NDA			ve)			
(Manufacturer) (Representative)  CERTIFICATE OF SHOP/FIELD INSPECTION																	
Vesse	el constructed by	NO	RTHERI	N DESIGN			IOF/FIELD			RESDEN S	TKA	IKAS	KA MI	1061	6		
	undersigned, hol						loard of Pa									:	
MICH	iliGAN	uniy a	valid CC	111111111111111111111111111111111111111	issued by the				essur	e vessei ins	pecto	rs and	/or the	State	e or Provii	nce of	
MICHIGAN and employed by HSB CT have inspected the component described in this Manufacturer's Data Report on 10/3/// 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																	
VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or													sed or				
implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer													olover				
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.													, , ,				
Date 10/7/// Signed Jale Sette Commissions NB14299A MI300611																	
				(,	Authorized Inspe	ctor)				National Board	(incl. er	dorsem	ents), Sta	ate, Pro	ovince, and n	umber]	