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	anufactured and	certifi	ed by N	ORTHER	N DESIGN S	SERVICES,	INCSHOP	424 E. DF	RES	DEN ST. KA	LKAS	KA,M	I 49646	3			
Manufactured and certified by NORTHERN DESIGN SERVICES, INCSHOP 424 E. DRESDEN ST. KALKASKA,MI 49646 (Name and address of Manufacturer) NATURAL GAS COMPRESSION SERVICES, INC 2480 AEROPARK DR. TRAVERSE CITY, MI 49686 (Name and address of Purchaser)																	
	cation of installa										*********			***************************************			
	\/CDT_F			1140		_	(Name and add			5	796	2011				
4. Ty	(Horizontal or v	ertical, t	tank) (Mai	ufacturer's	erial number)		r) (N:	ational B	oard nu	umber)		(Year buil	it)				
5. The chemical and physical properties of all parts meet the requirements of material specifications of the AS												IE BOILER AND PRESSURE VESSEL					
CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1																	
to	***************************************		10				-	* ************************************		······································			-	31			
[Addenda, if applicable (date)] (Code Case numbers) [Special service per UG-120(d)] 6 Shell SA-106B .375" - 23.25" 70"																	
6. Sl	}CII		mber, grade) (1	lominal thicknes	orr. allow.)	_		[Length (overall)]								
7. Seams SMLS - 85 WELDED, SINGLE BUTT - 70												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., %) (No. of court													f courses)				
8. Heads: (a) Material SA-516 GR70 (b) Material SEE ATTACHED PARTIAL OF ARTION (Spec. no., grade) (Spec. no., grade)												PORT					
	Location (Top,	Minimum Corrosi				Knuckle	Elliptical	Conical		Hemispherical			Т		ide to Pres		
	Bottom, Ends)	Thickness		Allowance		Radius	Ratio	Apex Ang							nvex or Co		
(a)	воттом	BOTTOM .3125"		-	-	-	2:1	-		-	-		-	CONCA		/E	
(b)					_	-		_		-	-						
If removable, bolts used (describe other fastenings) SEE ATTACHED PARTIAL DATA REPORT																	
(Material spec. number, grade, size, number)																	
(Internal) (External) (Internal) (External)																	
										F TEST:	N/A						
10. No	zzles, inspection	n, and	safety va	lve openi	ngs:												
	Purpose	No.	Diamet			terial		hickness	Re	inforcement			nt Detai		Locati		
(Inlet, Outlet, Drain etc.) INLET/OUTLET		2	or Size		Nozzle SA-106B	Flange SA-105	Nom.	Corr.		Material				nge (Insp. Open			
	SHT GLASS	2	3/4"FNF		SA-106B SA-105	SA-105	3000#	- - IN				'-16.1(c) TYPI					
DUMP/RECYCLE		2	1"FNP		SA-105	 	3000#			HERENT	OWEIGHIAI		-				
٨	AN. DUMP	1	1"FNP		SA-105	-	3000#	-		HERENT			-				
LEVEL/BYPASS/FUEL		4	2"FNP	HLF.CF	SA-105	-	6000#	-	IN.	NHERENT	UW-16.1(c)				SHE	LL	
DPI/PI/AUX. 5 1/4"FNPT TOL				SA-105	-	6000#	·····		NHERENT	UW-16	.1(a)		SHELL/T.HEAD		.HEAD		
11. Su	pports. Okirt	YES s or no)	Lugs	1	Legs	Othe	er	_		Attached	T(OP/B			AD/WELD	ED	
12. Re				(Number) ata Repor				(Describe) v Commis	sion	ed Inspector	rs have	e hee		re and shed		llowing	
 Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: TOP HEAD IS A 24" 300# QUICK CLOSURE S/N -26709, MFG. BY LOS ANGELES BOILER WORKS INC. 																	
(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)																	
					CERTIFIC	CATE OF SH	IOP/FIELD	COMPLIAN	ICF								
We ce	rtify that the stat	temen	ts made i	n this ren						orial conetru	iction	ands	workm	anch	in of thic s	100001	
confo	rm to the ASME E	BOILER	R AND PR	ESSURE \	ESSEL COD	E, Section V	'III, Division	1. "U" Cen	tifica	ate of Author	ization	Num	ber	311511	33.792	essei	
expire	02/05/4																
Date .	10/7/4	Co. na	ame NO	RTHERN	I DESIGN SI	ERVICES,II	NC.	Sid	anec	P.KALTE	NBAC	HQ.	5 4			_	
					(Mar	nufacturer)		OIS					resentati	ve)			
						CATE OF SI	HOP/FIELD	INSPECTIO	N								
	l constructed by									DRESDEN S							
	undersigned, hol	ding a	valid cor	nmission	issued by th				essu	re Vessel Ins	pecto	rs and	l/or the	Stat	e or Provii	nce of	
	IIGAN						nployed by		/	,							
have inspected the component described in this Manufacturer's Data Report on, 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																	
implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer																	
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.													, 61				
Date _	101 > 11	Signed	- (h.	skll			Commissio		NB142	199-	4 1	YI.	300	2611		
		_		(.	Authorized Inspe	ector)				(National Board	(incl. en	dorsem	ents), Sta	ite, Pro	ovince, 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 Code Rules, Section VIII, Division 1

11-1390

Manufactured and certified by: Los Angeles Boiler Works Inc. 707 N. 20 th Street. Blackwell, OK. 74631 (Name and address of Manufacturer)																			
(Name and address of Manufacturer) 2. Manufactured for: Northern Design Services, Inc. 424 E. Dresden Kalkaska, MI 49646																			
(Name and address of Purchaser) 3. Location of installation (Name and address) (Name and address)																			
4. Type: 24" 300 psi Hinged Closure 26707 thru 26713 N/A																			
[Description of vessel part (shell, two piece head, tube bundle)] (Mfg's sei N/A CN-1963-3] Los Angeles Boiler Works Inc												serial N	erial No.) (CRN)						
-	VI PtcM)	A No V	·		CN-	1963-3. wing No.	,		LOS	(Drawl	ng prepare	WOLKS	s inc				2011 Year built)		
5. A	SME Code	Sectio	n VIII E	Div 1						•									
•					[Edition a	and Adde	enda (date)	nda (date) (Code Case No.) [Special Service per UG-120(d)]]
6. Shell (a) No. of course (s):																			
No.			/A 0 ln \	- Cna	Material			cness Corr.	Туре	Lon	g. Joint (C II, Spot, No	at A)	Eff.	Circum Type	Joint (Cat. / Full, Spot			leat Trea	tment Time
No.) Spe	SA-106				sml		None		<u> </u>						131110	
 	24 00		 	3A 1008		.500	,123	3111	<u></u>	110110			 						
															N12A				
7. Heads: (a) SA-516-70 Norm. (b) N/A (Matl. Spec. No., Grade or Type) (H.T. – Time & Temp) (Matl. Spec. No., Grade or Type) (H.T. – Time & Temp)																			
(Matl. Spec. No., Grade or Type) (H.T. – Time & Temp) (Matl. Spec. No., Grade or Type) (H.T. –													(H.T						
	Location		Thick			lius	Elliptio				pherical	Flat Diameter		Side to Pressure				Category A	
<u></u>	Bottom,		Min.	Corr.	Crown	Knuck					dius				Concave	ļ	Full, Spo		Eff
(a))	.43	.13			2:1		-						XX		-		
If removable, bolts used (describe other fastenings) ten (10) - 1" SA-193 B7 Stud with SA-194 2H Nut (Mari Spec. No., Grade. Size. No.)																			
												(Ma	n i Spec. No)., Graue, 512	re, NO.)			200	
8. 1	1AWP	300 internal)	- -	15 external	_ psi at	max te	emp.	(internal)		650 extern	oF	MIN.	design	metai	temp.	-20	or at	300	psi
9. I	mpact Test		No, exe	mpt pe	er UG 20	(f). B	olting exe	mpt per	UCS			test i	tempe	rature	of	N	I/A		°F
				Indicate	yes or no	and the	component(s) impact te	ested										
	lydro., Pne							F	Proof	Test					None	3			
11. 1	lozzles, ins		n, and s	afety v				Mak	o-ial		Norda	Thiele	2000	Dainfa		How	Attachad	T 12	
	Purpe (Inlet, Outlet,		etc)	No.	or S	neter Size	Flange Type	Nozzle Nozzle	erial Fla	ange	Nozzle Nom.		orr.		rcement [cerial	Nozzle	Attached Flange		cation . Open.)
(Arried) Stately District East																			
]							
12. I	dentificatio												т	CR			S	T	. 5. 14.
	Name of	Part		Quantity	/ Lin	e No.	Mfr's Ider	0.	Mfr's Drawin			19 110.		dy I	National Board No.		169	r Built	
											**** *********************************			· · · · · · · · · · · · · · · · · · ·		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	
13. 5	Supports: S	kirt			Lug	js	N/A	Le	gs	N	/A	Othe	ers		'A	Attach	ed	N/A	\
(Yes or No.) (No.) (No.) (Describe) (Where and How)																			
14. Remarks No hydro test performed. Design functions and calculations by Los Angeles Boiler Works Inc. Heat Nos. Heads-ArcelorMittal																			
101P32450 E056242 (GEI), 101P32480 E056245 (GER) SA-516-70 Norm.; Necks-USS U81957 (GCS) SA-106-B.																			
					CF	ERTH	FICATE	OF SH	OP/	FIE	LD CO	MP)	LIAN	CE					
	We certify t	hat the	etata	nto mo-	la in this	ranart -	re correct	and that a	11 data	aile of	material	cons	structio	in and	vorkmanal	nin af th	ie nranou	re	
	we certify to											CONS	an actio	ni ana V	voi KillällSI	ուհ ու քը	us bressn	10	
1	U Certificat					721		Expires	L		30 Ma	rch 2	013						
			muurzal	OPI HOL				•			*************		013	1	-//				
I	Date	31/11	_	Name		Los A	ngeles Bo	iler Works acturer)	s Inc		Sign	ied	fr.	L Da	111	Represe	ntativo)		
			·····			ERTI	FICAT		HOP	FIF	או תב	SPF	CTI	N		repi esel	uuve)		
	I, the under	signed	holding	hilav a											pectors an	d/or the	State or	Provinc	e of
		oklahor			employe			Seneca I						of			on, Texas		
	have inspec	ted the	pressur	e vesse	l part des	cribed i	n this Mar	ufacturer	's Dat	ta Rep	ort on			4-1-					
	and state th	at, to th	e best o	f my kr	owledge	and bel	ief, the M	anufacture	er has	const	ructed thi	is pre	ssure v	essel pa	art in acco	rdance	with ASN	IE Cod	e,
1	Section VII	I, Divis	sion 1. I	By sign	ing this co	ertificat	e neither t	he inspect	or no	r his e	mployer	make	s any v	varranty	, express	ed or im	plied, co	ncerning	g
	the pressure	e vessel	part des	scribed	in this M	anufact	urer's Dat	a Report.	Furth	ermoi	e, neithe	r the	inspect	or nor h	nis employ	er shall	be liable	in any	
1	manner for	any per	rsonal in	ijury or	property	damage	or a loss	ot any kin	id aris	sing fr	om or co	nnect	ea witl	n this in	spection.				
١,	Tota //	-/-//	,	Signe	d -	= 1/			7		C	ommi	issions	7	18 12164	IA AL	1201-		İ
'	Date <u>4</u>	-1-11		Signe	u — -	YAM	horized Insp	<i>XUOUU</i> ector)				OHHIH			ard incl end			ovince ar	nd No)
						4								· · · · · · · · · · · · · · · · · · ·					