

#### Williams Field Services

Stewart Dew Point Hickory, PA

7-18-2012

A-Scan Baseline Inspection

Vessel No.: E-130 Vessel Name: Chiller

P&ID No: STWT-P01-006



#### **DBI** Incorporated

#### Lincoln Nebraska

4223 Progressive Avenue.Lincoln NE 68504.Telephone: 402-467-1818 Fax: 402-467-1766 **Omaha Nebraska** 

2211 S. 156<sup>th</sup> Circle.Omaha NE 68130.Telephone:402-330-9612.Fax: 402-330-9640

**Overland Park Kansas** 

11660 West 90th.Overland Park KS 66214.Telephone: 913-888-2321 Fax: 913-888-2351



# **Summary Report**

Report Reviewed By:

API 510 #30888

Client: Williams Field Services

Location: Stewart Dew Point Hickory, PA

Vessel No.: E-130 Vessel Name: Chiller

Inspection Date: 7-18-2012

Type of Inspection: A-Scan Baseline Inspection

Note: An A-Scan baseline inspection was performed on the E-130 Chiller. The E-130 Chiller meets MAWP of 210 psi with a remaining service life of 20+ years. The long and short term corrosion rates were determined using the nominal thickness of the vessel. The insulation is saturated throughout the entire vessel.

Next UT Inspection: 7/17/2017 API 510 para. 6.4

Next Visual Inspection: 7/17/2017

			Short Term Corrosion	Long Term Corrosion	Remaining Life					
	TNom	Тор	Bottom	North	South	East	West	Rate	Rate	(Years)
TML 1	0.375	0.376	0.378			0.377	0.377	<1 mil	<1 mil	20+
TML 2	0.375	0.375	0.378			0.380	0.379	<1 mil	<1 mil	20+

#### DBI, Inc. Quality Inspection and Consulting Services



#### Reliable...Responsive...Resourceful...Proactive

Client: Williams Field Services

Location: Stewart Dew Point Hickory, PA

Vessel No.: E-130 Vessel Name: Chiller

### **Vessel Parameters**

Design Pressure (MAWP):	210 psi	North Head Material:	SA-516-70
Design Temperature:	150 F	North Head Type:	2:1 Ellipsoidal
Operating Pressure:	.5 psi	Allowable Stress:	20,000
Operating Temperature:	-41 F	Joint Efficiency:	.85
Diameter: I.D or O.D	40" OD	South Head Material:	SA-516-70N
Length S/S:	22'-6"	South Head Type:	2:1 Ellipsoidal
Shell Material:	SA-516-70	Allowable Stress:	20,000
Allowable Stress:	20,000	Joint Efficiency:	1.0
Joint Efficiency:	.70	Date Manufactured:	2008
Corrosion Allowance:	.125	In Service Date:	2008

# ASME CODE EDITION USED FOR CALCULATIONS ASME Section VIII, Division 1. 2007 Edition

#### **Paint Information**

Average paint coating thickness: N/A Thickness measured with paint: N/A Paint Multiplier: N/A Thickness measured without paint: N/A

#### Name Plate Information

U1A Available: Yes ASME stamp present on vessel: Yes

Name Plate present: Yes Rubbing taken: Digital Photo



Client: Williams Field Services

Location: Stewart Dew Point Hickory, PA

Vessel No.: E-130 Vessel Name: Chiller

# Vessel Data

Vessel Class:	2	Date Manufactured:	2008
Manufactures Serial #:	13007-6	In Service Date:	2008
Product in Vessel:	Process Gas	Date of ASME VIII Vessel	2007
		Mfg. under:	
P&ID Drawing #:	006	Code Cases:	N/A
P&ID Prepared By:	Laurel Mountain	Addenda:	2007
•	Midstream, LLC		
Manufacturer:	Heat Transfer	National Board Number:	1918
	Systems, Inc.		
Vessel Length S/S:	22'-6"	Vessel Insulated:	Yes
Diameter I.D or O.D:	40" OD	Describe openings (if any):	1 3/4" Ports
No. of Shell Sections:	4	ANSI Flange Rating:	N/A
No. of Nozzles:	16	Vessel Orientation:	Horizontal
Design Pressure (MAWP):	210 psi	Operating Pressure:	.5 psi
Design Temperature:	150 F	Operating Temperature:	-41 F
North Head Type:	2:1 Ellipsoidal	South Head Type:	2:1 Ellipsoidal
North Head Material:	SA-516-70	South Head Material:	SA-516-70N
North Head Weld Type:	Single Butt	South Head Weld Type:	Single Butt
Shell Material:	SA-516-70	Shell Weld Type:	Type 1
Radiography:	None	Hydrostatic:	65 psi

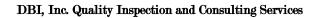
# Relief Valve Information

Relief Valve Tag Number:	130A/B	Relief Valve Pressure Setting:	210 psi
Relief Valve Test Date:	9/10	Relief Valve Size:	3" x 4"



# PRESSURE VESSEL EXTERNAL INSPECTION

Client: Location: Vessel No.: Vessel Name:	Williams Field Ser Stewart Dew Point E-130 Chiller		y, PA	Ins	te Inspected: spector(s): gnature:	7-18-2012 Mike Troyer
					III	the Tuy
NAME PLATE						me ley-
Item Inspected Yes No		Yes	No	N/A	Comments:	
Name Plate pres	<u> </u>				Good condition	
National Board	#				1918	
Manufacturer				Щ	Heat Transfer S	Systems, Inc.
Serial #/ Year B					13007-6/ 2008	
Repair or Rerate	e Name Plate				Vessel has been	re-rated
FOUNDATION Concrete condit					None noted	
cracks)	ion (spannig,				None noted	
Foundation settl	ling				Appears level	
Coating condition					N/A	
	(moisture, cracks)				None noted	
	(					
SUPPORTS						
Describe type (l	egs, saddle, etc.)				Legs	
Corrosion, pittir	ng (describe)				None noted	
Weld condition		$\boxtimes$			Good condition	
Paint condition					No paint failure	noted
Anchor bolts (ti	ghtness &				Appears tight	
corrosion						
Insulation deteri	ioration				N/A	
SHELL						
Corrosion, pittin					N/A	
Bulges/ Blisters/	Deformations			$\boxtimes$	N/A	
Weld condition				$\boxtimes$	N/A	
Paint condition				$\boxtimes$	N/A	
Insulation deterio	oration				Insulation satur	rated
Biological growt					Light biologica	al growth
UT Measuremen					See autocad dra	Ÿ





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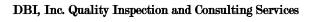
Item Inspected Yes No NA = Not Applicable	Yes	No	N/A	Comments:
Corrosion, pitting (describe)				N/A
Bulges/ Blisters/ Deformations			$\boxtimes$	N/A
Weld condition			$\boxtimes$	N/A
Paint condition			$\boxtimes$	N/A
Insulation deterioration	$\boxtimes$			Insulation saturated
UT Measurements	$\boxtimes$			See autocad drawing
MANWAYS & NOZZLES				
Corrosion, pitting (describe)	<u> </u>	1 📙		N/A
Weld condition	<u> </u>	<u> </u>		N/A
Flange condition		14		N/A
Bolting condition				N/A
Repad condition				N/A
Insulation deterioration				Insulation saturated
UT Measurements				See autocad drawing
APPURTENANCES				
Grounding (tightness & corrosion)				Ground connection is tight
<u> </u>		1=	+ $=$	<u> </u>
Gauges, Sight glass (damage) Relief Valve #/ Size/ Set Pressure		+	+ $=$ $+$	No damage noted 130A/B/ 3" x 4"/ 210 psi
Reflet valve #/ Size/ Set Pressure				130A/B/ 3 X 4 / 210 psi
LADDERS, STAIRS, PLATFORM	4S			
Corroded, Broken Parts				N/A
Paint condition				N/A
Wear (ladder rungs, stair treads)				N/A
Handrails secure				N/A
Flooring condition				N/A
Tightness (bolts, tie down clips)		16		N/A
Attachment welds				N/A
Corrosion, pitting (describe)	T			N/A

# **ADDITIONAL COMMENTS:**











	,	~												No. 4: combinates, destruction	TO SHAROW HAVE TO SHAROW		C-1.	30
	As	Requi	FOR	M U-	1 MAN	UFAC	CTURE e ASM	CR'S DA E Boiler	ATA and	REPOR I Pressure	T Fo	OR P	RESS de Ru	URE V	ESS tion V	ELS /III, D	ivision	I
	. Manufact	ured ar	nd certific	ed by			HEAT	TRANS	FER	SYSTEMS,	INC	., 8100	POLK	, ST. LC	UIS, N	MO. 63	111	
2	. Manufact	ured fo	r .	(Name and address of Manufacturer) PREMIER INDUSTRIES., 3450 PETERS ROAD, HARVEY, LA. 70059														
3	Location of	of instal	lation								NOV	WN	er)					
4.	Туре:				ZONTA				Н	(Name ( EAT EXCH	IANC	BER				13007	I-6	
		N/A	(Ho	rizontal,		007-6-0		(Tank	, sepa	rator, jkt vess 191	8		etc.)	(	Manufac	turer's so	erial number	r)
5.	ASME Cod	(CRN) le Secti	on VIII D	iv 1 _	· 20	wing numb 07 Ed /				(National Boar N (Code Cas	/A	•			18	(Year t	/A	
It	ems 6-11 i	ncl. to	be comp	leted si	-			jacketed	vesse	code Cas els, shell of h			ers, or c	hamber	[Special of mult	il Service ( i-cham	oer UG-120(d) ber vessel	l s.
	Shell: (a						4			(b) Overall L					22'			
No.	Diameter	ourse(s)	Length	8	Materi pec./Grade		Nom.	kness Corr.	Тур	Long. Joint be Full, Spot			Circui	m Joint (C				eatment
2	40"	_	8' - 0''	SA	516, Gr.	70	0.3750"	0.1250"	1	NON	1E	70%	l		ONE	70%	Temp.	Time
1	40" 40" X 23"		- 0 1/2" - 5 1/2"		-516, Gr. -516, Gr.			0.1250" 0.1250"	1	NON		70%	1		ONE	70%		
7.	Heads: (a)	)			16, Gr. 70					(b)			-					
	1			al spec.	number, gra	de or type adius		T time &		)	1		1	mber, grad	e or type		(H. T time	e & temp)
	Bottom	n (Top, ı, Ends)	Min.	Corr.	Crown	Knucki	Elliptica Ratio	Ape - Ang	ex	Hemispherical Radius		Flat imeter	Convex	Pressure	Туре		Spot, None	Eff.
(a		ND	0.312"	0.125			2:1	Aig	10				Convex	X	S	_	NONE	85%
_(b)	emovable,	holte u	and (dags	ariba at	har fastani													
			seu (ues	cribe of	ner rasten	ngs)						spec. nur	nber grad	e, size, nu	mber)			
8.	Type of jack If bar, give		sions			-		-		jacket closure	_		(	Describe as				
0.1	MAWP	50			-			150									scribe or s	
	_	(Interna	ıl) _	(Extern	al)	max ten		Internal)	_	(External)				temp.	-5	0 a	t50	<u> </u>
10.	mpact Tes	t						AND UI		01	at t	est tem	perature	of		<del></del>		
11. 1	lydro., Pne	u., or c	omb. tes	t press.	I	IYDRO	65 PS	Р	roof T	Test								
tem	s 12 and 1	13 to b	e compl	eted tu	be section	ns.												
12. 1	Tubesheet			240, TI				3/4"		3 1/4			0"				OLTED	
					pec. number)			ubject to pres	ss.)]	(Nominal thic			(Corr. Al	llow.)			nt (welded or	bolted)]
13. 1	ubes	SA-2	ting (Materi 249, TP:	304 W	LD "		(Diamet			(Nominal thickn 0.065		g,	(Corr. Alloy	w.) 174		U - 7	(ttachment)	
			l spec, num				(O. D.)			(Nominal II				(umber)	-	[Туре	(Straight or	U)]
						ımbers o	f jacketed	l vessels o	r cha	nnels of hea								
14. 8			er of cou	rse (s):			1			(b) Overall						10"		
No.	Diameter	urses	ength	Sp	Malerial ec./Grade o		Nom.	Corr.	Туре	Long. Joint ( Full, Spot,		Eff.		Joint (Ca Full, Spot		C)	Heat Tre Temp.	alment Time
1	24"		10"	SA-	516, Gr. 7	0N	0.8750"	0.1250"	1	FUL		100%	I		LL		1150 F. (	
15. F	leads: (a)				6, Gr. 701			0 F. 0.9		(b)								
	Location	/Tac	(Material Thick		umber, grad Rad	_	T	T time & t	al T	Jamiaak - door				nber, grade Pressure	or type		H. T time	& temp)
	Location Bottom,		Min.	Corr.	Crown	Knuckle	Elliptical Ratio	Apex Angle	ا ،	Hemispherical Radius		lat neter		Concave	Туре	1	tegory A Spot, None	Eff.
(a) (b)	L - EN	D	0.812"	0.125"			2:1		4					X	S		ONE	100%

If removable, bolts used (describe other fastenings)

1 3/8"- 24 PCS OF SA-193-B7 STUDS AND 1 3/8"- 48 PCS OF SA-194-2H NUTS (Material spec. number, grade, size, number)



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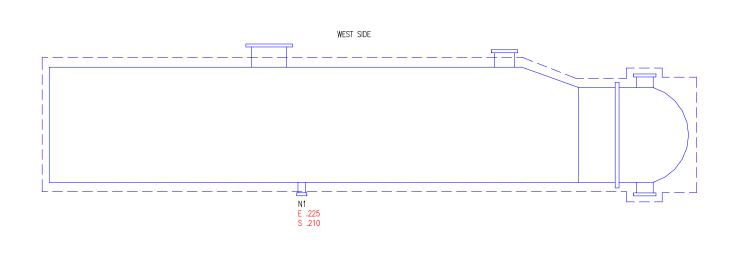
				17 Y	J-1 (Bac	k)				C-130
				rorm (	J-I (Dac		lin, design metal temp.	-50	at _	1000
1000		at n	nax temp.	150	(External		in. design metal temp.			
(Internal)	(Extern			(Internal)	•		test temperature of			
act Test	NON	E PER UG	-20 (f), UCS	-66, AND U	HA-51	at	test temperature or			
pact rest	Indic	ate yes or no	and the compon	ent(s) impact to	,,,,,					
dro., pneu., or cor	nb. test pres	ss	HYDRO - 1	300 PSI P	roof lest					
			as:							
zzles, inspection,	and salety v	arro operan		Inrial	Nozzle T	hickness	Reinforcement		tached	Location (Insp. Open.)
Purpose No.	Diameter	Flange		terial Flange	Nom.	Corr.	Material	Nozzle	Flange	(insp. Open.)
Outlet, Drain, etc.)	or Size	Type	Nozzle	SA-105	0.2000	0.1250"		C	b	
QUIDINLET 1	12"	RFWN RFWN	SA-106-B SML SA-106-B SML	SA-105	0.0	0.1250" 0.1250"		c		
POR OUTLET 1	1/2"- 1 1/2"	CPLG		SA-105	3000#	0.1250"		С	b ,	-
/ TI / PI /RVR 4	4"	RFWN	SA-106-B SML	SA-105 SA-105	0.2180"	0.1250"		C	b	
DRAIN NOZZLE 3	2"	RFWN	SA-106-B SML SA-106-C SML	SA-105	0.6740"	0.1250"		C		
ET/OUTLET 2	4"	CPLG		SA-105	3000#	0.1250"	SADDLE SUPPORTS	Attached	WELDE	D TO SHELL
13			N/A	Legs	N/A	Others	(Describe)	- Alluonou		(Where and how)
Supports: Skirt	NO.	No)	(Number)		(Number)	d Inspecto	(Describe) irs have been furnished f er)	or the follow	wing items	of
Appurfacturer's Par	tial Data Re	ports prope	rly identified ar	nd signed by C	and identify	ing numbe	er)			
Manufacturer's Par the report: (List th	ne name of	part, item nu	umber, Manuta	icturer 5 marrie	and identify					
Remarks										
				TELEVITE	OF SHO	P COM	PLIANCE			
			CERT	TIFICATE	OF SHO	P COM	PLIANCE		Cubin manage	
				Labora all dat	ails of desig	n. materia	PLIANCE	manship o	f this vesse	
We certify that the	: statements	in this repo		Labora all dat	ails of desig	n. materia	PLIANCE	manship o	f this vesse	al .
We certify that the	: statements ME BOILER	in this repo		and that all det CODE, Sectio	ails of design VIII, Divi	gn, materia ision 1.	l, construction and work	manship o	f this vesse	ıl /
conform to the AS	ME BOILER		ort are correct a SURE VESSEL 20649	and that all det CODE, Sectio Expires	ails of design VIII, Divi	gn, materia ision 1. 11/04	1, construction and work	manship o	f this vesso	
conform to the AS U Certificate of A	uthorization		ort are correct a SURE VESSEL 20649	and that all det CODE, Sectio Expires	tails of design VIII, Divi	gn, materia ision 1. 11/04	l, construction and work	1.1	f this vessor	1
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U Certificate of A  Date 10/15  1, the undersigned of M  Management of M  Language inspected M	uthorization  uthorization  d, holding a	Name	20649 HEAT TRAI CER aission issued ployed by ibed in this M	Expires  NSFER SYS (Manufacturer)  TIFICATE by the Nationa OneBeace anufacturer's	TEMS, INC. OF SHO	gn, material ision 1.  11/0- IC. Si DP INSP Boiler and ica Insult ton	4/2009 igned ECTION Pressure Vessel Inspectorance Co of 1-4-08 essure vessel in accorda	ors and/or t BO	he State or STON M	Province ASS., and
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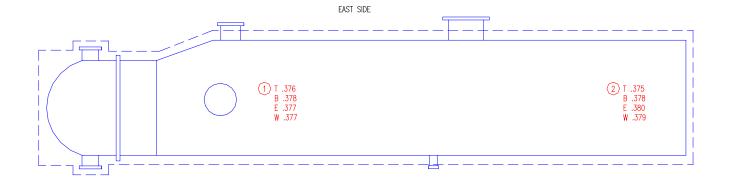


FORMER											Et.	30
FORM U-1 Required by the Pr	MANUFA(	CTURE	R'S DA	TA REF	ORT	r for	PRES	SURE	VESS	5: IEI	-45 C	HILL
	OVISIONS OF TH		- Jones	and Tres	sure	v essei C	ode R	ules, Se	ction	VIII, I		ı I
nufactured and certified by		HEAT	TRANSF	ER SYSTE	EMS, I	INC., 810	0 POLI	K, ST. LO	OUIS.	MO. 63	111	
. Mufactured for	J	PREMIE	R INDUS	TRIES., 34	50 PE	TERS R	OAD	r) IARVEY	'. I.A	70050		
Location of installation  —						ss of Purcha	ser)		, 571.	70039		
4. Type: HORIZO	TEAT EXCHANGED											
N/A (CRN)	B-3007-6-0		(Tank,	separator, jkt	vessel.	heat exch.,	etc.)	-	(Manufac	1300°	7-7 rial numb	2()
5. ASME Code Section VIII Div 1	(Drawing number 2007 Ed / A	2007		(Nationa	Board n	number)	_			200 (Year b	8	
	Edition and Adden	da (data))		(Cod	e Case no				[Special	N.T./	A .	
Items 6-11 incl. to be completed single 6. Shell: (a) Number of course (s)	e watt vessels, jo	ackets of j 1	acketed v	essels, shell	of hea	t exchang	ers, or o	hamber o	of multi	i-chamb	er vesse.	)) Is
Course(s)	Material	Thickn		(b) Over	all Len	gth			22' -	6"		
Vo.         Diameter         Length         Spec           2         40"         8' - 0"         SA-510	/Grade or Type	Nom.	Corr.	Type Full,	Joint (Ca Spot, No	at. A) one Eff.	Circu	m Joint (C Full, Spo	at. A B	3 C)		reatment
1 40" 4' - 0 1/2" SA-510	6, Gr. 70		).1250"  -1250"	1 1	NONE	70%	1	NC	NE	70%	Temp.	Time
571510	5, Gr. 70	0.3750" 0	.1250"		ONE	70% 70%	1		NE NE	70%		
7. Heads: (a) SA-516, (Material spec. numb	Gr. 70			(b)						7070		
Location (Top. Thickness	Radius	(H. T.	- time & te					mber, grade	or type)	(H	f. T time	& temp)
Bottom, Ends) Min. Corr. (a) R - END 0.312" 0.125"	crown Knuckle	Ratio	Apex Angle	Hemispheri Radius		Flat Diameter	Side to Convex	Pressure		Cate	egory A	
(b) 0.312 0.125"		2:1					Convex	Concave	Type		ot, None	Eff. 85%
If removable, bolts used (describe other fa	astenings)											0070
8. Type of jacket				ingket ele	(Materia	I spec. num	ber grade	, size, numb	per)			
r, give dimensions				_ jacket clos	ure			escribe as og		bar etc.)		
9. MAWP 50	at max temp.	1.	50						If bolte	ed, desc	ribe or sk	etch
0. Impact Test (External) (External) NONE PER	UG-20 (f), UC		_	(External)	. ^	Min. design	metal te	emp.	-50	at	50	
(mulcate yes	or no and the comp	ponent(s) im	pact tested	-51	_ at	test tempe	erature o	of				
<ol> <li>Hydro., Pneu., or comb. test press.</li> </ol>	HYDRO		Proof									
ems 12 and 13 to be completed tube se	ctions.		_									
2. Tubesheet SA-240, TP304 [Stationary (Material spec. nur		30 3/4		3 1	/4"		0"					
		imeter (subjec	t to press.)]	(Nominal th	nickness)		(Corr. Alloy		[Att	BOL achment (w	TED relded or bo	ited)]
[Floating (Material spec. number)] SA-249, TP304 WLD		(Diameter) 3/4"		(Nominal thick	ness) 5" Av	(C	orr. Allow.) I			(Attach	ment)	
(Material spec. number, grade or type	•	(O. D.)		(Nominal	thicknes	-51	(Nun	nber)		J - TUI	BES aight or U)]	
ms 14-18 incl. To be completed for inner  Shell: (a) Number of course (s)	chambers of jac	cketed ves	sels or cho	annels of he	at exch	hangers.						
(3).	1		_	(b) Overa	II Leng	th			10	11		
Diameter Length Spec./Grad	erial de or Type No	Thickness m. Co	rr. Type	Long. Joint			Circum Jo	oint (Cat. A	B & C)	He	eat Treatm	ent
24" 10" SA-516, G		50" 0.125	0" I	FUL.	L	Eff. 100%	Type Fo	II, Spot, No FULL	ne Ef	f Ten	p. 7	ime
						-				1100	. 0.5.	2 111.
Heads: (a) SA-516, Gr.	70N	1150 F.	0.92 Hr	_ (b)								
(Material spec. number, g	On the second	(H. T tim	ne & temp)	_ (0)	(A)	Material spe	c. number	, grade or t	ype)	(H. T.	- time & te	emn)
Bottom, Ends) Min. Corr. Crown	Radius Elliptical Apex Angle Crown Knuckle Ratio Angle Radius Plant Ra											
L - END 0.812" 0.125"		2:1	Angle		Jan	Cor	_	X S		III, Spot, N		EII.
amoughle' helle										NONE		0%
ernovable, bolts used (describe other faster	nings)	1 3/8"- 2	4 PCS O	F SA-193-E	37 ST	UDS AN	D 1 3/8	"- 48 PC	S OF S	A-194-	2H NU	TS
				(Mate	rial spec	c. number, (	grade, siz	e, number)				- ,-

# DBI, Inc. Quality Inspection and Consulting Services

,										
										E-130
				Form	n U-1 (B:	ack)			L	-150
1000 (Internal			t max temp.	150 (Internal)	(Exter	201	Min. design metal temp.		-50 at	1000
pact Test	NON	E PER U	G-20 (f), UC	S-66 AND	I III A - 5 1	iiaij	at test temperature of			
8. Hydro., pneu., or co			HYDRO -	onent(s) impact t						-
9. Nozzles, inspection,		_		1300 FSI	Proof Test					
Purpose	Diameter			iterial	No					
ilet, Outlet, Drain, etc.) No.	or Size	Flange Type	Nozzle	Flange	Nom.	hickness	Reinforcement	How	Altached	Location
-LIQUIDINLET 1	6"	RFWN	SA-106-B SML	SA-105		Corr.	Material	Nozzie	Flange	(Insp. Oper
VAPOR OUTLET 1			SA-106-B SML	SA-105		0.1250" 0.1250"		С	b	
LO/TI/PI/RVR 4		CPLG		SA-105		0.1250"		С	b	
PSV 1		RFWN s	SA-106-B SML	SA-105		0.1250"		c		
B/DRAIN NOZZLE 3		RFWN S	SA-106-B SML	SA-105		0.1250"		c	Ь	
NLET/OUTLET 2		RFWN s	A-106-C SML	SA-105		0.1250"		С	b	
HIS 4	1" (	CPLG		SA-105		0.1250"		C	b	
Supports: Skirt	NO	Lugs	N/A	Legs	N/A			С		
Manufacture : =	(Yes or No)					_ otners2	ADDLE SUPPORTS A	ttached	WELDED	TO SHEI
Manufacturer's Partia	l Data Repor	ts property	identified and	signed by Con	nmissioned		(Describe)		(V	Where and how)
the report: (List the	lame or part	, item numi	ber, Manufacti	urer's name ar	nd identifying	g number	)	ne rollow	ing items of	
Remarks										
						11.				
			CERTIF	ICATE OF	CHOR	OME	Y I STORY			
rtify that the state	ments in this	s report are	correct and th	ot all datails	64					
inform to the ASME Be	OILER AND	PRESSURE	VESSEL COD	E Cooting VII	of design, m	aterial, co	onstruction and workmansl	nip of thi	s vessel	
			. LUGEL COD	e, section VII	i, Division	1.			1	
Certificate of Authori	zation	206	49	Expires		11/04/20	009		//	1
ate 11/3/08	Name	LIEAT	r TD ANGER	D GMGmm.				. /	/ .	
1700		nea i	IKANSFE	R SYSTEM	S, INC.	Signe	1 _ // m		11/-	-//
•			CEDTIEL	CATEOR	CHODIN	ICDDO	700	(Represe	ntative)	//-
the undersigned, holdi	ng a valid co	ommission	issued by the	CATE OF	SHOP IN	SPEC.	CION  ure Vessel Inspectors and/			/
f MO	and	employed	issued by the	National Boar	d of Boiler	and Press	ure Vessel Inspectors and/	or the St	ate or Profin	
ve inspected the press	ure vessel de	employed eccribed in	Une One	Beacon Ar	nerica In	suranc	e Co of P	OTZO	N MASS.	ice
			Carl Manutaci	turer's Data Re	eport on		11-4-08			
ESSURE VESSEL COD	E Section V	e and belie	I, the Manufa	cturer has con	structed this	pressure	vessel in accordance with	A SME D	OILED AND	and,
implied concerning th	E, Section V	III, Divisio	on 1. By signir	ng this certification	ate neither t	he Inspec	vessel in accordance with tor nor his/her employer n	ASIME B	OILER AND	
liable in any manner fo	e pressure v	essel descr	abed in this M	anufacturer's	Data Report	. Further	tor nor his/her employer more, neither the Inspector	nakes any	warranty,	expressed
	or any person	nal injury o	or property dar	nage or a loss	of any kind	arising f	more, neither the Inspector rom or connected with this	increasti	ner employe	er shall
: 11-4-08	Signed	1611	1061	$\sim$						
1101-00	_ Signed	000	1111	act ?	Com	missions	NB9098(A)1	170-	0717	
		CEDA	(Authorized Insp	ector)				nante) Ci-	10 Dec	
		CERTH	FICATE O	F FIELD A	SSEMBI	LY CO	MPLIANCE	ients) 9(8	te, Province a	na number
cortify that the same						_ 00	DIMITOE			
CAR DOLLER STATE	ents on this r	report are c	correct and that	t the field asse	embly const	ruction of	f all parts of this vessel cor			
SME BOILER AND PR	ESSURE VES	SEL CODE	Section VIII,	Division I. U	Certificate	of Author	ization No	norms w	ith the requ	irements
	Name							Expir	cs	
	Name		(Assen			Signed				
		CEDTE	(Assen	nbier)				Represent	lative)	
undersianed total		CEKIII	FICATE O	F FIELD A	ASSEMB	LY INS	SPECTION	- opreselli		
undersigned, holding	a valid com	imission is	sued by the Na	ational Board	of Boiler an	d Pressur	SPECTION  c Vessel Inspectors and/or	the Co.		
	and em	iployed by					sser mapectors and/or	the State	e or Provinc	e
oto that no to C		ha	ave compared	the statements	in this Mar	nufacture	's Data Report with the de	nonik - d		
tate that parts referred	to as data it	ems			n	ot include	d in the certificate -f-	scribed p	pressure ves	sel
cted by me and to the	best of my k	cnowledge	and belief, the	Manufacture	r has constr	ucted and	d in the certificate of shop assembled this pressure v	inspecti	on, have be	en
INC ASME BOILER AN	D PRESSUR									
static test of		By si	gning this cer	tificate neither	the Inspect	Or nor his	s/her employer makes any	ojected to	0 a	
ed, concerning the pre	essure vessel	described	in this Manuf	acturer's Data	Report Fin	thermos	her employer makes any , neither the Inspector nor	warranty	, expressed	or
e hable in any manno	er for any pe	rsonal inju	ry or property	damage or a l	oss of any b	ind seisi-	, neither the Inspector nor g from or connected with	his/her e	employer	
					oos or arry K	arisin	g from or connected with	this inspe	ection.	
	Signed _				Comm					
		(A	uthorized Inspec	tor)			National Board (incl )			
							National Board (incl endorsem	ents) State	e, Province ar	nd number)





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- 11	$\cup$	ILJ

1. P&ID NO: STWT-P01-006
2. 3. 4. 5.

CLIENT: Williams Field Services	DBI, Incorporated 5330 N. 57th Street Lincoln, Nebraska 68507	
LOCATION: Stewart Dew Point Hickory. PA		
INSPECTION DATE: 7-18-2012	ACAD DWG. FILE: E-130	
VESSEL No: E-130	DWN BY: MCS	CKD BY:
VESSEL ID: Chiller	MECHANICAL INTEGRITY INSPECTION	