CEL Qua	lity Servi	ices Ltd	1.			VISU	AL INSPE	Tel: (403) 845-5881 • (403) 844-3341							
*	Pressure Equipmer	nt Inspection					REPORT								
Type of Inspection		TALLATION		EXTERN		☐ INTE	RNAL	☐ IN SERV			UT OF S			VENTORY	
Date:	28/Mar/2022		<b></b>	Job #:	ــــــ			*all measurements are in inches unless otherwise stated *ns-not stated *na-not applicable							
Inspected By:	Ben Piers		<u> </u>	CEL Job #:	<u> </u>			_							
Client:	Pipestone Ene						Pre Purchase Inspect	tion							
Owner:	Pipestone Ene	rgy Corp.						PO# E22-191-PO-01							
Region:	Alberta				1			Service PSV prior to r	returning to service	ş					
Area:	Sunchild		Location/		01-04-044-11	.w5		4							
Facility:	Compressor		LSD:	UWI/DH:	<del> </del>			4							
Service:	Sweet	□ Evc	if other des		☐ Euros		Dailer	4							
Description:	✓ Vessel			☐ Tank	☐ Furna	се 🗀 -	Boiler	-							
Unit #:	BU-640		Equip #: Equip. Type:		(accol			4						ļ	
Equip. Name: Jurisdiction #:	Pulsation Dam	prier		0H5670.21				-							
Jurisdiction #: Manufacturer:	Coorstek		CRIV.	UH30/U.2.	13			Diameter OD (in):	1 A E			Height/Len	ath (in)	17	
Serial No.:	C1216057A				Year Built:	2012		PSV on Vesse			□ Di		gtii (iii).	1/	
Serial No.: Volume:	ns				Teal Dulle.	PSV Data:	T Isolati	ion Valve(s) Installed		r-seale	☑ Pip	ping ☐ CRN:	TR	3S 669043	
Zones:	MAWP	Des. T	MDMT	Op.P	Op.T	Set P		Manufacturer	Serial No.		Out	_	Serv. Co.	Serv. Date	
Zones: Shell Side:	2100	150	<del>                                     </del>	0p.P		1830	Tag # 274444R		Seriai No. 820416-2-DA	In 1.5	2 2	Capacity 199	RMV	May 1, 2015	
Coil Side:	na	na		0	ns	1830	2/4444h	Farris	820416-2-DA	1.5	2	199	KIVIV	May 1, 2013	
Units	na PSI	na r	na F	PSI		PSI						USGPM			
Components:		r Nominal (in)	Sgl./Dbl/		Calc. Trim	Retire t	CA (in)	UT TML	Lowest t	Acc.	Ret.	Dia. (OD),(in)	RT	HT	
Shell:	ns	ns	561.755.,	Weid	Cdlc. IIIIII	Reule i	ns CA (III)		0.448	ACC.	Net.		ns	Yes	
Head:	ns	ns	<del>                                     </del>	$\vdash \vdash \vdash$	$\vdash$	<del>                                     </del>	ns	00	0.440			4.5	115	163	
Tube/Coil:	115	113	<del>  </del>		$\vdash$	<u> </u>	III	+ +	<del> </del>	片	片	4.5		<del>                                     </del>	
Channel:		<del>                                     </del>	<del>                                     </del>	$\vdash \vdash \vdash$	$\vdash$	<del>                                     </del>	<del>                                     </del>	+		H				<del>                                     </del>	
Other		$\vdash$	<del>                                     </del>	$\vdash \vdash \vdash$	$\vdash$	<del>                                     </del>	<del>                                     </del>	+		H	╁	+		<del>                                     </del>	
Manway/Port:	Port	Size (in):	4		☐ Davit Ar	rm Present	☐ Dav	vit Arm Greased	☐ Double	Nutte	,ч 	Condition:			
•		ement pads u				loles Present		Comment:		1.0					
Nozzles:		ell supported			✓ Joining a				Secure and intact						
	✓ PSV Pipir			rains prop		✓ Well		Comment:							
	✓ Inlet Pipi	_		ree from le		✓ Well		Comment:							
	✓ Outlet Pi			ree from le		✓ Well		Comment: Secure							
Piping:	✓ Drain Pip		✓ Fr	ree from le	eaks	✓ Well	coated	Comment: Secure							
	✓ Instrume	entation Pipin	ng	<b>✓</b>	Free from lea	aks/kinks		Comment: Secure and intact							
		Fluid Identifi	-		Flow direction	n marked		Comment: No Labels Present							
	✓ Manual I	solation Valv	/e	✓	Free from lea	aks		Comment: Acceptable, no leaks noted							
Valves:	☐ Automate	ed Control Va	alve		Free from lea	aks		Comment: None							
	✓ Vents an	d Drains Plug	gged					Comment:	Acceptable, no lea	ıks not	ed				
Gauges:	✓ Pressure		Condition:	Clear and i	intact x1										
Gauges.	☐ Tempera	ture	Condition:	None											
Sight Glass:	☐ Fluid Lev	el	Condition:	None											
Orientation:	Vertical		Foundation:		Concrete	☐ Gravel	☐ Tim	nber 🔽 Stee	el 🗌 Other:	Co	ndition:	Skid secure an	d level on pi	les	
	Saddle		Seal-welded		Free to move	<u>e</u>			Condition:						
Support:	Skirt		Free of debri		Comment:				Condition:						
	Hangers	L	] Secure		Comment:				Condition:						
	Other				d level by pipir	ng			Electrical Groun			irect 🔽	Indirect	☐ None	
Overall:	General condi		Suitable for co						Condition:						
Ext. Surface:	✓ Painted			ire-proofe		added [	Other:		Condition:		s accept	able, blue		_	
Ext. Fixtures:	Ladder		tform(s)		Other:				Condition:						
Int. Surface:	☐ Coated	Line		hermal sp	-	Cladde		Wielded overlay	Condition:						
Int. Fixtures:	Baffle	☐ Floa	at ir	mpingeme	int	☐ Weir		Vortex Breaker	Condition:	Extern	al Inspe	ction Only			
Recommended Ac														NCR#:	
Service PSV pr	or to return	ing to servi	ce												
C		) /   f	l to be constal	la fanan				I a a a a a a a a a a a a a a a a a a a		C - to lea	Chi-file				
Summary Co			to be acceptab	_	ice.			Inspection			Chief In	spector			
_			tinuation page:	_	Report No.	See next pag	ge		Quality			Ray Diagra			
	quipment is su		tinued service: Certificate No:	_	<u> </u>			4	Signature of Insp			Ben Piers			
Terms and Conditi	ons: Refer to "						Received by: (print)  Received by: (sign)								



### **ULTRASONIC SURVEY REPORT**

					Report #:	SN C1216057A-VE,U	T-2022-03-28			
☐ New Ed	quipment	UT Survey	✓ Existir	ng Equipment	UT Survey	☐ In-Service	Out of Service			
Client Job #:				CEL Job #:						
Client:	Pipestone E	nergy Corp.	Location:	Surface:	01-04-044-11w5					
Date:	28/Mar/2022	2	Location.	UWI/DH:						
Region:	Alberta		Access Con	siderations:	Year-Round Access					
Area:	Sunchild		Scope of I	nenaction		<b>✓</b>	$\checkmark$			
Facility:	Compressor	-	Scope of t	nspection	Inventory	External	UT			
				Stati	c Data					
Equipn	Equipment Name: Pulsation Damp				MAWP Shell (PSI):	2100	Pre/Post 1999: Post			
Ed	quipment #:	ns			MAWP Tube (PSI):	na	Diameter (in): 4.5			
Jur	isdiction #:	ns			MAWT Shell (F):	150	CA Head (in): ns			
Ma	nufacturer:	Coorstek			MAWT Tube (F):	na	CA Shell (in): ns			
	Year Built:	2012			Shell Material: ns		Nominal (in): ns			
	SN #:	C1216057A			Head Material:	ns	Nominal (in): ns			
	CRN #:	0H5670.213					RT (Joint Eff): ns			
	Accep	tance Criteria &	Specifications:	Client Evaluation	1					
				Me	thod					
Procedure:		USB-001, Rev 0	)1	Mode:	✓ Zero Degree	Shear Wave				
Equipment Typ	e:	DMS Go		Serial No:	12105442	Last Calibration:	Jan 3, 2022			
Transducer: 0.250"				Serial No:	90849	Type/Frequency:	Duel / 5.0 MHZ			
Cable Length (in): 72"				Couplant:	Echo Mix - water based	powder mix				
Surface Condit	ion:	☐ Clean Base	Metal A	s Ground 🗌	Machined ☐ Sand Blast ☑ Painted ☐ Other:					
Cal Block(s):	SN#:	17-4	4164	Type:	1" 4 step Block					
Notes:										
Interval:	Set by Chief	f Inspector after r	review							

<sup>\*\*</sup>NA=Not Applicable



<sup>\*</sup>NS=Not Stated

# CEL Quality Services Ltd. Pressure Equipment Inspection

### **PHOTOS PAGE**

Tel: (403) 845-5881 • (403) 844-3341 •

		Report#:	SN C1216057A-VE,UT-2022-03-28
A#: ns	S/N#: C1216057A	or Other: ns	-







### ULTRASONIC SURVEY REPORT



UT Corrosion Survey Readings										
Date: 28-Mar-22	Area:	Sunchild	Equipment Name:	Pulsation Dampner	Equipment #:	ns				
Client: Pipestone Energy Corp.	LSD:	01-04-044-11w5	Jurisdiction #:	ns	SN #:	C1216057A	Job #:			

										Vessel TML Rea	dings				
	Baseline	# of Years	Previous	# of Years	Act	ual	MAWP (PSI)		Shell OD (in)	Shell Nom	Head Nom	Shell Stress	<b>Head Stress</b>	Joint Efficiency	
	2012	10	2012	10	20:	22	2	100	4.5	0.448	ns	17100	ns	0.70	Comments
TML ID	Bas	seline	Low	High	Low	High	OD (in)	ID (in)	STCR (in/YR)	LTCR (in/YR)	T min (in)	RL (YRS)	% Loss	Component	
0	0.	448	0.448	0.475	0.448	0.475	4.500	3.604	0.0000	0.0000	0.3533	50+	0.00%	Shell	

	Vessel Attachment Piping TML Readings																	
	Baseline	# of Years	Previous	# of Years	Act	ual	MAW	P (PSI)	Shell OD (in)		Stress		Joint Efficiency					
	2012	10	2012	10	20:	22	2	100	4.5		17100		1.00					
TML ID	Bas	seline	Low	High	Low	High	OD (in)	ID (in)	STCR (/YR)	LTCR (/YR)	T min (in)	RL (YRS)	% Loss	SCH	Nominal (in)	Attached Component	Туре	Shape
5	0.	343	0.350	0.393	0.350	0.393	2.375	1.689	0.0000	0.0000	0.1120	50+	0.00%	S160	0.343	Shell	Piping	90

<sup>\*</sup> All readings are in inches.



Inspector:	Ben Piers	Certifications:
Signature:	BEN PIERS	ASNT Level 2 UT(SB); CGSB UT Level 1 #18240

<sup>\*</sup> Head and shell nominal are assumed

<sup>\*</sup> Vessel stress is assumed



## **Scope of Services**

The agreement of CEL Quality Services Ltd. to perform services extends only to those services provided for in writing. Under no circumstance shall such services extend beyond the performance of the requested services. It is expressly understood that all descriptions, comments and expressions of opinion reflect the opinions or observations of CEL Quality Services Ltd. based on information and assumptions supplied by the owner/operator and are not intended nor can they be construed as representations or warranties. CEL Quality Services Ltd. is not assuming any responsibilities of the owner/operator and the owner/operator retains complete responsibility for the engineering, manufacture, repair and use decisions as a result of the data or other information provided by CEL Quality Services Ltd. In no event shall, CEL Quality Services Ltd., liability in respect of the services referred to herein exceed the amount paid for such services.

#### Standard of Care

In performing the services provided, CEL Quality Services Ltd. uses the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or implied, is made or intended by CEL Quality Services Ltd.