CEL Qua	lity Servi	ices Ltd	1.			VISU	AL INSPE	Tel: (403) 845-5881 • (403) 844-3341							
*	Pressure Equipmen	nt Inspection					REPORT					UT-2022-03-28			
Type of Inspection		TALLATION		Z EXTERN		☐ INTE	RNAL	☐ IN SERV				SERVICE		VENTORY	
Date:	28/Mar/2022		<u> </u>	Job #:	<u> </u>			*all measurements a	re in inches unless	other	wise stat	ted *ns-not s	tated *na-	-not applicable	
Inspected By:	Ben Piers			CEL Job #:											
Client:	Pipestone Energy Corp.							Pre Purchase Inspection							
Owner:	Pipestone Ene	rgy Corp.						PO# E22-191-PO-01							
Region:	Alberta							Service PSV prior to r	returning to service	е				ļ	
Area:	Sunchild		Location/	Surface:	01-04-044-11	Lw5		]						ļ	
Facility:	Compressor		LSD:	UWI/DH:				]						ļ	
Service:	Sweet		if other des	scribe:				]						ļ	
Description:	✓ Vessel	☐ Exc	changer [	☐ Tank	☐ Furna	ice 🗌 F	Boiler	]						ļ	
Unit #:	BU-640		Equip #:	FL-304										ļ	
Equip. Name:	Glycol Charcoa	al Filter	Equip. Type:	Filter				1						ļ	
Jurisdiction #:	0618125		CRN:	V-7195.2				1						ŀ	
Manufacturer:	Alco Gas & Oil	Production E	quipment LTD.					Diameter OD (in):	16			Height/Len	igth (in):	42	
Serial No.:	2011-8267-06				Year Built:	2012		☐ PSV on Vesse			☑ Pi	ping		<u>'</u>	
Volume:	ns					PSV Data:	☐ Isolati	ion Valve(s) Installed	d 🔲 Car	r-seale		CRN:			
Zones:	MAWP	Des. T	MDMT	Op.P	Op.T	Set P	Tag #	Manufacturer	Serial No.	In	Out	Capacity	Serv. Co.	Serv. Date	
Shell Side:	150	200	1	0	ns	1	27117R	Crosby	C11-3806 0	1	2	16.1	RMV	Apr. 17, 2015	
Coil Side:	na	na	na					,							
Units	PSI	F	<b>.</b>	PSI	F	PSI						GPM			
Components:		Nominal (in)			Calc. Trim	Retire t	CA (in)	UT TML	Lowest t	Acc.	Ret.	Dia. (OD),(in)	RT	нт	
Shell:	SA-106-B	0.375		$\overline{}$	<del></del>	_	0.125		0.376	√.cc.		16	1	Yes	
Head:		1.00/0.246			<del>                                     </del>		0.125	100	0.0.1	H	Ħ	16	-	1	
Tube/Coil:	5/1.525 . 5	1.00, 0.2	<del>                                     </del>	$\vdash \vdash$	$\vdash \vdash \vdash$	$\vdash$	0.123	+		H	H	10		<del>                                     </del>	
Channel:	<b></b>		<del>                                     </del>	$\vdash \vdash$	$\vdash \vdash \vdash$	$\vdash$		+		H				<del>                                     </del>	
Other	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	<del> </del>	<del>                                     </del>	<del>                                     </del>	+ -		H	$\vdash$	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	
Manway/Port:	Port	Size (in):	8		✓ Davit Arr	m Present	✓ Dav	vit Arm Greased	☐ Double	Nutte	лd 	Condition:	Acceptable		
•		ement pads i				loles Present		Comment:	_	Hucc	u	Contactions	, 10.12		
Nozzles:		ell supported			✓ Joining a				Secure and intact						
	✓ PSV Pipin			rains prop		✓ Well o		Comment:							
	✓ Inlet Pipi	_		ree from le		✓ Well o		Comment: Secure							
	✓ Outlet Pip			ree from le		✓ Well (		Comment: Secure							
Piping:	✓ Drain Pip			ree from le		✓ Well o		Comment:							
		entation Pipir			Free from lea			Comment: Secure and intact							
		Fluid Identifi	•		Flow direction	•			Rich Glycol						
		solation Valv			Free from lea				Acceptable, no lea	ks not	ed				
Valves:		ed Control V			Free from lea			Comment:							
		d Drains Plu						Comment: Acceptable, no leaks noted							
	✓ Pressure		-	Clear and	intact x1										
Gauges:	☐ Tempera			None											
Sight Glass:	☐ Fluid Lev			None											
Orientation:	Vertical	<u>.</u>	Foundation:		Concrete	Gravel	☐ Tim	nber 🗹 Stee	el 🗌 Other:	Co	ndition:	: Skid secure an	d level on pi	iles	
	☐ Saddle		Seal-welded		Free to move				Condition:						
	Skirt		Free of debris		Comment:				Condition:						
Support:	Hangers		Secure		Comment:			Condition:							
	✓ Other			Flat base	bolted to skid f	floor, Secure	and level		Electrical Groun	ding:	□ D	irect 🗸	Indirect	☐ None	
Overall:	General condit	tion:	Suitable for cor			,			Condition:		•		1		
Ext. Surface:	✓ Painted			ire-proofe		added [	Other:	T				able. grey			
Ext. Fixtures:	✓ Painted       Insulated       Fire-proofed       Cladded       Other:       Condition: Paint is acceptable, grey         Ladder       Platform(s)       Other:       Condition: None														
Int. Surface:	Coated Lined Thermal sprayed Cladded Wielded overlay Condition: External Inspection Only														
Int. Fixtures:	Coated   Lined   Thermal sprayed   Cladded   Wielded Overlay   Condition: External inspection Only														
Recommended Ac				- р 3					Contactions		,.	,		NCR#:	
Service the PSV		turning to s	service											1.0	
Service the 15	prior to rec	urining to 3	ci vice.												
Summary Co	omment:	Vessel found	d to be acceptab	ale for serv	vice			Inspection	interval:	Set by	Chief In	spector		<u> </u>	
Summary Co			tinuation page:			$\overline{}$		mspection	Quality			эрсског			
F			tinued service:	_	Report No.	See next pag	ge		Signature of Insp			Ben Piers			
_	quipinent is su			_	/70	Ь		1	Received by:						
Terms and Condition	Inspector Certificate No: IPV #000770  ions: Refer to "Scope of Services" and "Standard of Care"							Received by: (sign)							



#### **ULTRASONIC SURVEY REPORT**

					Report #:	A0618125-VE,UT-202	22-03-28				
☐ 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	nanaction		7	$\checkmark$				
Facility:	Compressor	-	Scope of t	nspection	Inventory	External	UT				
				Stati	c Data						
Equipn	nent Name:	Glycol Charcoal	Filter		MAWP Shell (PSI):	150	Pre/Post 1999: Post				
Ec	quipment #:	FL-304			MAWP Tube (PSI):	na	Diameter (in): 16				
Jur	Jurisdiction #: 0618125				MAWT Shell (F):	200	CA Head (in): 0.125				
Ma	nufacturer:	Alco Gas & Oil F	Production Equipr	ment LTD.	MAWT Tube (F):	na	CA Shell (in): 0.125				
	Year Built:	2012			Shell Material:	SA-106-B	Nominal (in): 0.375				
	SN #:	2011-8267-06			Head Material:	SA-516-70MT	Nominal (in): 1.00/0.246				
	CRN #:	V-7195.2					RT (Joint Eff): 1				
	Accep	tance Criteria &	Specifications:	Client Evaluation	1						
				Me	thod						
Procedure:		USB-001, Rev 0	)1	Mode:	✓ Zero Degree	Shear Wave					
<b>Equipment Typ</b>	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	Surface Condition:			s Ground 🗌	Machined 🗌 Sand	d Blast 🗹 Painte	d 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.

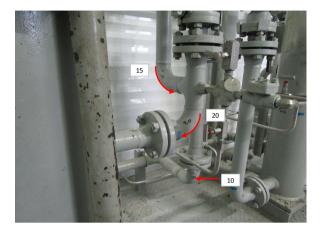
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# Pressure Equipment Inspection

#### **PHOTOS PAGE**

		Report#:	A0618125-VE,UT-2022-03-28
A#: 0618125	S/N#: 2011-8267-06	or Other: FL-304	-









#### **ULTRASONIC SURVEY REPORT**



UT Corrosion Survey Readings										
Date: 28-Mar-22	Area:	Sunchild	Equipment Name:	Glycol Charcoal Filter	Equipment #:	FL-304				
Client: Pipestone Energy Corp.	LSD:	01-04-044-11w5	Jurisdiction #:	0618125	SN #:	2011-8267-06	Job #:			

	Vessel TML Readings														
	Baseline	# of Years	Previous	# of Years	Act	ual	MAW	P (PSI)	Shell OD (in)	Shell Nom	Head Nom	Shell Stress	Head Stress	Joint Efficiency	
	2012	10	2012	10	20:	22	1	50	16	0.375	1.00/0.246	17100	20000	1.00	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.	.375	0.362	0.397	0.362	0.397	16.000	15.250	0.0000	0.0013	0.0672	50+	3.47%	Shell	
	0.	.375	0.376	0.392	0.376	0.392	16.000	15.250	0.0000	0.0000	0.0672	50+	0.00%	Shell	_

	Vessel Attachment Piping TML Readings																		
	Baseli	eline	# of Years	Previous	# of Years	Act	ual	MAW	P (PSI)		Shell OD (in)			Stress Joint Efficiency					
	2012	112	10	2012	10	20:	22	1	150	16			17100 1.00						
TML II	)	Base	eline	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
	10	0.2	218	0.224	0.234	0.224	0.234	2.375	1.939	0.0000	0.0000	0.0085	50+	0.00%	XS	0.218	Shell	Piping	90
	15	0.2	218	0.206	0.229	0.206	0.229	2.375	1.939	0.0000	0.0012	0.0085	50+	5.50%	XS	0.218	Shell	Piping	90
	20	0.2	218	0.202	0.227	0.202	0.227	2.375	1.939	0.0000	0.0016	0.0085	50+	7.34%	XS	0.218	Shell	Piping	90
	25	0.2	218	0.216	0.236	0.216	0.236	2.375	1.939	0.0000	0.0002	0.0085	50+	0.92%	XS	0.218	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> All readings acceptable at time of the inspection.



### **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.