CEL Qual	lity Servi	ices Ltd	l.			VISU	AL INSPEC	<b>ECTION</b> Tel: (403) 845-5881 • (403) 844-3341							
*	Pressure Equipmen	nt Inspection					REPORT	·							
Type of Inspection		TALLATION	<b>✓</b>	Z EXTERN	AL	☐ INTE	RNAL	☐ IN SERV				SERVICE		VENTORY	
Date:	28/Mar/2022			Job #:				*all measurements a	re in inches unless	other	wise stat	ied *ns-not s	tated *na-	-not applicable	
Inspected By:	Ben Piers			CEL Job #:	<u> </u>										
Client:	Pipestone Ene	rgy Corp.						Pre Purchase Inspection							
Owner:	Pipestone Ene	rgy Corp.						PO# E22-191-PO-01							
Region:	Alberta							Service PSV prior to r	returning to service	9					
Area:	Sunchild		Location/	Surface:	01-04-044-11	1w5									
Facility:	Compressor		LSD:	UWI/DH:				]							
Service:	Sweet		if other de	scribe:				]							
Description:	☐ Vessel	✓ Exc	hanger [	☐ Tank	☐ Furna	ıce 🗌 F	Boiler								
Unit #:	BU-640		Equip #:	E-301											
Equip. Name:	Glycol Heat Ex	changer	Equip. Type:	Shell and Tu	ube Exchanger	•		1							
Jurisdiction #:	0618418		CRN:	V-7198.2											
Manufacturer:	Alco Gas & Oil	Production E	quipment LTD.					Diameter OD (in):	16			Height/Len	igth (in):	72	
Serial No.:	2011-8267-03				Year Built:	2012		☐ PSV on Vesse			☑ Pi	ping			
Volume:	ns					PSV Data:	☐ Isolati	ion Valve(s) Installed	d 🗆 Ca	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:	2050	150		0	70	1	27131R		827444-1-DA	2	3	1019.4	RMV	Apr. 17, 2015	
Coil Side:	2050	150	-50	0	68	1440	27131R	Farris	827444-1-DA	2	3	1019.4	RMV	Apr. 17, 2015	
Units	PSI	F		PSI	F	PSI	2713111	1 01115	027444 1 0/1	_	-	M3/MIN		7.pr. 17, 2015	
	Material	Nominal (in)	Sgl./Dbl/		Calc. Trim	Retire t	CA (in)	UT TML	Lowest t	Acc.	Ret.	Dia. (OD),(in)	RT	HT	
Components: Shell:	SA-333-GR6	1.219	3g1./D01/	Weid	Calc. ITIIII	_	0.125	00	1.192	ACC.	net.	16	1	Yes	
Head:		1.219	$\vdash$	<b> </b>	<b> </b>			00	1.192		┝		1	res	
	SA-350-LF2	1		<del>                                     </del>	<b> </b>	<del>                                     </del>	0.125	-		片		16	-		
Tube/Coil:	SA-516-70MT	3.125	<b>——</b>	<del>                                     </del>	<u> </u>	<u> </u>	ļ			屵	╀	<u> </u>	-		
Channel:		<u> </u>	<b></b>	<b>─</b> —'	<u> </u>	<u></u> '	<u> </u>			H		<u> </u>	-		
Other															
Manway/Port:	Port	Size (in):				m Present		vit Arm Greased	☐ Double	Nutte	:d	Condition:			
Nozzles:		ement pads u				loles Present		Comment:							
	✓ Piping we					as per code			Secure and intact						
	✓ PSV Pipin	_		rains prop		✓ Well		Comment:							
	✓ Inlet Pipi			ree from le		✓ Well o		Comment: Secure							
Piping:	☑ Outlet Pip			ree from le		✓ Well o		Comment: Secure							
, -	✓ Drain Pip	ing	✓ Fr	ree from le		✓ Well o	coated	Comment: Secure							
		entation Pipir	•		Free from lea	•			Comment: Secure and intact						
		Fluid Identifi			Flow direction	n marked			No Labels Present						
	✓ Manual Is				Free from lea			Comment:	Acceptable, no lea	ıks not	ed				
Valves:	Automate				Free from lea	aks		Comment: None							
	✓ Vents and	d Drains Plu	gged					Comment:	Acceptable, no lea	ıks not	ed				
Gauges:	✓ Pressure		Condition:	Clear and i	intact x										
	✓ Tempera	ture	Condition:	Clear and i	intact x1										
Sight Glass:	✓ Fluid Lev	el	Condition:	Clear and i	intact x1										
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	е			Condition:						
Support:	✓ Skirt	<b>✓</b>	Free of debri	is	Comment:	Bolted to ski	id floor		Condition:	Secure	and lev	/el			
зиррогт.	☐ Hangers		] Secure		Comment:				Condition:						
	☐ Other		Specify:						Electrical Groun	ding:	☐ Di	irect 🗹	Indirect	☐ None	
Overall:	General condit	tion:	Suitable for co	ntinued se	rvice				Condition:	Accep	table				
Ext. Surface:	☑ Painted ☐ Insulated ☐ Fire-proofed ☑ Cladded ☐ Other: Condition: Paint and cladding are acceptable														
Ext. Fixtures:	☐ Ladder ☐ Platform(s) ☐ Other: Condition: None														
Int. Surface:	☐ Coated ☐ Lined ☐ Thermal sprayed ☐ Cladded ☐ Wielded overlay Condition: External Inspection Only														
Int. Fixtures:	☐ Baffle	☐ Floa	at 🗌 Ir	mpingeme	ent	☐ Weir	□ V	Vortex Breaker	Condition:	Extern	ial Inspe	ction Only			
Recommended Ac	tions:											,		NCR#:	
Service the PS	V prior to re	turning to s	service.												
Summary Co	omment:	Vessel found	to be acceptab	ole for serv	ice.			Inspection	interval:	Set by	Chief In	spector		1	
•			tinuation page:						Quality						
E			tinued service:	_	Report No.	See next pag	ge		Signature of Insp			Ben Piers			
			Certificate No:	_	70			1	Received by:						
Terms and Condition	tions: Refer to "Scope of Services" and "Standard of Care"						1	Received by							



## **ULTRASONIC SURVEY REPORT**

					Report #:	A0618418-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 Heat Exc	hanger		MAWP Shell (PSI):	2050	Pre/Post 1999: Post			
Ed	quipment #:	E-301			MAWP Tube (PSI): 2050		Diameter (in): 16			
Jur	risdiction #:	0618418			MAWT Shell (F):	150	CA Head (in): 0.125			
Ma	nufacturer:	Alco Gas & Oil F	Production Equipr	ment LTD.	MAWT Tube (F):	150	CA Shell (in): 0.125			
	Year Built:	2012			Shell Material: SA-333-GR6		Nominal (in): 1.219			
	SN #:	2011-8267-03			Head Material:	SA-350-LF2	Nominal (in): 1.219			
	CRN #:	V-7198.2					RT (Joint Eff): 1			
	Accep	tance Criteria &	Specifications:	Client Evaluation	1					
				Me	thod					
Procedure:		USB-001, Rev 0	)1	Mode:	✓ Zero Degree	Shear Wave				
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	urface Condition:					Blast 🗹 Painte	d Other:			
Cal Block(s):	SN#:	17-4	4164	Type:	2: 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#:	A0618418-VE,UT-2022-03-28
A#: 0618418	S/N#: 2011-8267-03	or Other: E-301	













### **ULTRASONIC SURVEY REPORT**



	UT Corrosion Survey Readings										
Date	e: 28-Mar-22	Area:	Sunchild	Equipment Name:	Glycol Heat Exchanger	Equipment #:	E-301				
Client	t: Pipestone Energy Corp.	LSD:	01-04-044-11w5	Jurisdiction #:	0618418	SN #:	2011-8267-03	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	2	050	16	1.219	1.219	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	1.	219	1.192	1.204	1.192	1.204	16.000	13.562	0.0000	0.0027	0.8759	50+	2.21%	Shell	
5	1.	219	1.197	1.204	1.197	1.204	16.000	13.562	0.0000	0.0022	0.8759	50+	1.80%	Shell	
10	0.	.843	0.852	0.870	0.852	0.870	10.750	9.064	0.0000	0.0000	0.5854	50+	0.00%	Shell	

	Vessel Attachment Piping TML Readings																	
	Baseline	# of Years	Previous	# of Years	Act	ual	MAW	P (PSI)		Shell OD (in)		Str	ess	Joint E	fficiency			
	2012	10	2012	10	20:	22	2	050		16		17	100	1	.00	1		
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
15	0.	562	0.582	0.640	0.582	0.640	6.625	5.501	0.0000	0.0000	0.3553	50+	0.00%	S120	0.562	Shell	Piping	90
20	0.	218	0.205	0.220	0.205	0.220	2.375	1.939	0.0000	0.0013	0.1252	50+	5.96%	XS	0.218	Shell	Piping	45
2	0.	343	0.357	0.414	0.357	0.414	2.375	1.689	0.0000	0.0000	0.1091	50+	0.00%	S160	0.343	Shell	Piping	90
30	0.	343	0.358	0.407	0.358	0.407	2.375	1.689	0.0000	0.0000	0.1091	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



# **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.