

CEL Quality Services Ltd.

VISUAL INSPECTION

Tel: (403) 845-5881 • (403) 844-3341



Pressure Equipment Inspection

REPORT

Report#: NB1139484-VE,UT-2022-03-28

Type of Inspection:	<input type="checkbox"/> INSTALLATION		<input checked="" type="checkbox"/> EXTERNAL		<input type="checkbox"/> INTERNAL		<input type="checkbox"/> IN SERVICE		<input checked="" type="checkbox"/> OUT OF SERVICE		<input type="checkbox"/> INVENTORY				
Date:	28/Mar/2022		Job #:				*all measurements are in inches unless otherwise stated *ns-not stated *na-not applicable								
Inspected By:	Ben Piers		CEL Job #:				Pre Purchase Inspection PO# E22-191-PO-01								
Client:	Pipestone Energy Corp.														
Owner:	Pipestone Energy Corp.														
Region:	Alberta														
Area:	Sunchild	Location/ LSD:	Surface:	01-04-044-11w5											
Facility:	Compressor	UWI/DH:													
Service:	Sweet	if other describe:													
Description:	<input checked="" type="checkbox"/> Vessel <input type="checkbox"/> Exchanger <input type="checkbox"/> Tank <input type="checkbox"/> Furnace <input type="checkbox"/> Boiler														
Unit #:	BU-640		Equip #:		V-300										
Equip. Name:	Air Receiver		Equip. Type:		Air Receiver										
Jurisdiction #:	ns		CRN:		L9124.2137										
Manufacturer:	Manchester Tank					Diameter OD (in):	14		Height/Length (in):	26					
Serial No.:	NB# 1139484		Year Built:		2010		<input checked="" type="checkbox"/> PSV on Vessel <input type="checkbox"/> Piping								
Volume:	20 GAL		PSV Data:		<input type="checkbox"/> Isolation Valve(s) Installed <input type="checkbox"/> Car-sealed <input type="checkbox"/> 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	650	-40	0	ns	150	ns	Kingston	ns	0.5		140	ns	ns	
Coil Side:	na	na	na												
Units	PSI	F	F	PSI	F	PSI						scfm			
Components:	Material	Nominal (in)	Sgl./Dbl/ Weld	Calc. Trim	Retire t	CA (in)	UT TML	Lowest t	Acc.	Ret.	Dia. (OD),(in)	RT	HT		
Shell:	NS	0.094				ns	10	0.103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14	ns	ns		
Head:	NS	0.094				ns	00	0.105	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14				
Tube/Coil:									<input type="checkbox"/>	<input type="checkbox"/>					
Channel:									<input type="checkbox"/>	<input type="checkbox"/>					
Other									<input type="checkbox"/>	<input type="checkbox"/>					
Manway/Port:	Port Size (in): 2		<input type="checkbox"/> Davit Arm Present <input type="checkbox"/> Davit Arm Greased <input type="checkbox"/> Double Nitted		Condition:										
Nozzles:	<input type="checkbox"/> Reinforcement pads used <input type="checkbox"/> Weep Holes Present					Comment: None									
	<input checked="" type="checkbox"/> Piping well supported <input checked="" type="checkbox"/> Joining as per code					Comment: Secure and intact									
Piping:	<input checked="" type="checkbox"/> PSV Piping <input checked="" type="checkbox"/> Drains properly <input checked="" type="checkbox"/> Well coated					Comment: Secure, vents to atmosphere									
	<input checked="" type="checkbox"/> Inlet Piping <input checked="" type="checkbox"/> Free from leaks <input checked="" type="checkbox"/> Well coated					Comment: Secure									
	<input checked="" type="checkbox"/> Outlet Piping <input checked="" type="checkbox"/> Free from leaks <input checked="" type="checkbox"/> Well coated					Comment: Secure									
	<input checked="" type="checkbox"/> Drain Piping <input checked="" type="checkbox"/> Free from leaks <input checked="" type="checkbox"/> Well coated					Comment: Secure									
	<input checked="" type="checkbox"/> Instrumentation Piping <input checked="" type="checkbox"/> Free from leaks/kinks					Comment: Secure and intact									
	<input type="checkbox"/> Process Fluid Identified <input type="checkbox"/> Flow direction marked					Comment: No Labels Present									
Valves:	<input checked="" type="checkbox"/> Manual Isolation Valve <input checked="" type="checkbox"/> Free from leaks					Comment: Acceptable, no leaks noted									
	<input type="checkbox"/> Automated Control Valve <input type="checkbox"/> Free from leaks					Comment: None									
	<input checked="" type="checkbox"/> Vents and Drains Plugged					Comment: Acceptable, no leaks noted									
Gauges:	<input checked="" type="checkbox"/> Pressure Condition: Clear and intact x1														
	<input type="checkbox"/> Temperature Condition: None														
Sight Glass:	<input type="checkbox"/> Fluid Level Condition: None														
Orientation:	Vertical		Foundation:		<input type="checkbox"/> Concrete <input type="checkbox"/> Gravel <input type="checkbox"/> Timber <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Other:		Condition: Skid secure and level on piles								
Support:	<input type="checkbox"/> Saddle <input type="checkbox"/> Seal-welded <input type="checkbox"/> Free to move					Condition:									
	<input type="checkbox"/> Skirt <input type="checkbox"/> Free of debris					Comment:									
	<input type="checkbox"/> Hangers <input type="checkbox"/> Secure					Comment:									
	<input checked="" type="checkbox"/> Other Specify: 2 Legs bolted to I-Beam in skid, Secure and level					Electrical Grounding:		<input type="checkbox"/> Direct <input checked="" type="checkbox"/> Indirect <input type="checkbox"/> None							
Overall:	General condition:		Suitable for continued service		Condition: Acceptable										
Ext. Surface:	<input checked="" type="checkbox"/> Painted <input type="checkbox"/> Insulated <input type="checkbox"/> Fire-proofed <input type="checkbox"/> Cladded <input type="checkbox"/> Other:					Condition: Paint is acceptable, grey									
Ext. Fixtures:	<input type="checkbox"/> Ladder <input type="checkbox"/> Platform(s) <input type="checkbox"/> Other:					Condition: None									
Int. Surface:	<input type="checkbox"/> Coated <input type="checkbox"/> Lined <input type="checkbox"/> Thermal sprayed <input type="checkbox"/> Cladded <input type="checkbox"/> Welded overlay					Condition: External Inspection Only									
Int. Fixtures:	<input type="checkbox"/> Baffle <input type="checkbox"/> Float <input type="checkbox"/> Impingement <input type="checkbox"/> Weir <input type="checkbox"/> Vortex Breaker					Condition: External Inspection Only									
Recommended Actions:														NCR#:	
Pull test or replace the PSV prior to returning to service.															
Summary Comment: Vessel found to be acceptable for service.														Inspection interval: Set by Chief Inspector	
Additional notes on continuation page: <input checked="" type="checkbox"/> Equipment is suitable for continued service: <input checked="" type="checkbox"/> Inspector Certificate No: IPV #000770														Quality Check: Signature of Inspector: <u>Ben Piers</u> Received by: (print) _____ Received by: (sign) _____	
Terms and Conditions: Refer to "Scope of Services" and "Standard of Care"															

Report #: NB1139484-VE,UT-2022-03-28					
<input type="checkbox"/> New Equipment UT Survey		<input checked="" type="checkbox"/> Existing Equipment UT Survey		<input type="checkbox"/> In-Service <input checked="" type="checkbox"/> Out of Service	
Client Job #:			CEL Job #:		
Client:	Pipestone Energy Corp.	Location:	Surface:	01-04-044-11w5	
Date:	28/Mar/2022		UW/DH:		
Region:	Alberta	Access Considerations:		Year-Round Access	
Area:	Sunchild	Scope of Inspection	<input type="checkbox"/> Inventory	<input checked="" type="checkbox"/> External	<input checked="" type="checkbox"/> UT
Facility:	Compressor				
Static Data					
Equipment Name:	Air Receiver	MAWP Shell (PSI):	150	Pre/Post 1999:	Post
Equipment #:	V-300	MAWP Tube (PSI):	na	Diameter (in):	14
Jurisdiction #:	ns	MAWT Shell (F):	650	CA Head (in):	ns
Manufacturer:	Manchester Tank	MAWT Tube (F):	na	CA Shell (in):	ns
Year Built:	2010	Shell Material:	NS	Nominal (in):	0.094
SN #:	NB# 1139484	Head Material:	NS	Nominal (in):	0.094
CRN #:	L9124.2137			RT (Joint Eff):	ns
Acceptance Criteria & Specifications:		Client Evaluation			
Method					
Procedure:	USB-001, Rev 01	Mode:	<input checked="" type="checkbox"/> Zero Degree	<input type="checkbox"/> Shear Wave	
Equipment Type:	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 Condition:	<input type="checkbox"/> Clean Base Metal <input type="checkbox"/> As Ground <input type="checkbox"/> Machined <input type="checkbox"/> Sand Blast <input checked="" type="checkbox"/> Painted <input type="checkbox"/> Other:				
Cal Block(s):	SN#: 17-4164	Type:	1" 4 step Block		
Notes:					
Interval:	Set by Chief Inspector after review				

*NS=Not Stated

**NA=Not Applicable



CEL Quality Services Ltd.

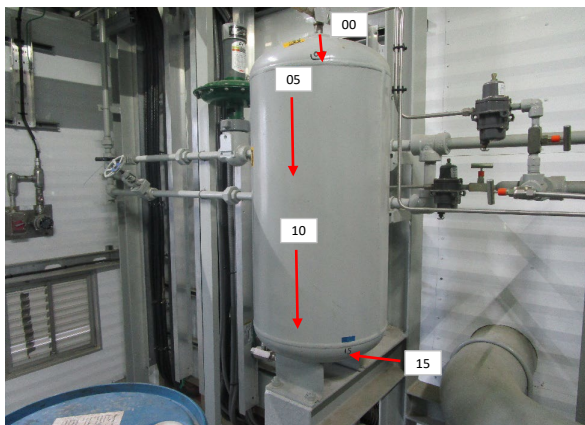


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PHOTOS PAGE

A#: ns		S/N#: NB# 1139484	Report#: NB1139484-VE,UT-2022-03-28
		or Other: V-300	



Signature of Inspector:

Ben Piers

UT Corrosion Survey Readings													
Date:	28-Mar-22	Area:	Sunchild	Equipment Name:	Air Receiver	Equipment #:	V-300						
Client:	Pipestone Energy Corp.	LSD:	01-04-044-11w5	Jurisdiction #:	ns	SN #:	NB# 1139484					Job #:	

Vessel TML Readings															
TML ID	Baseline	# of Years	Previous	# of Years	Actual		MAWP (PSI)		Shell OD (in)	Shell Nom	Head Nom	Shell Stress	Head Stress	Joint Efficiency	Comments
	2010	12	2010	12	2022		150		14	0.094	0.094	17100	20000	0.70	
	Baseline		Low	High	Low	High	OD (in)	ID (in)	STCR (in/YR)	LTCR (in/YR)	T min (in)	RL (YRS)	% Loss	Component	
0	0.094		0.105	0.117	0.105	0.117	14.000	13.812	0.0000	0.0000	0.0741	50+	0.00%	Head - Ellipsoidal	
5	0.094		0.109	0.114	0.109	0.114	14.000	13.812	0.0000	0.0000	0.0872	50+	0.00%	Shell	
10	0.094		0.103	0.112	0.103	0.112	14.000	13.812	0.0000	0.0000	0.0872	50+	0.00%	Shell	
15	0.094		0.105	0.113	0.105	0.113	14.000	13.812	0.0000	0.0000	0.0741	50+	0.00%	Head - Ellipsoidal	

* All readings are in inches.

* Vessel stress is assumed



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.