

1.1-FRM-001VS Visual External Inspection Report

Report #:	PSV Service Report Avail. <input type="checkbox"/> Y <input checked="" type="checkbox"/> N MDR Avail. <input type="checkbox"/> Y <input type="checkbox"/> N UT Verified <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Installation <input checked="" type="checkbox"/> External <input type="checkbox"/> Internal
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Date:	2022-08-11	WO #:	1001-TI	Proc. Used:	Cat 1 - Unfired Separator	Rec. Insp. Interval:	3
Inspected By:	Dwight Colp ISI-PVPP Cert# 000692, API 510 #43558, API 570 #45288			Radiography:	None		
Client:	Tara Energy			Heat Treatment:	No		
Coordinator:	Jeff Warr			National Board Number:			
Region:	NE B.C, Alberta	Area:	North Peace				
Facility:	Portable						
Location, LSD	Portable						
Description:	<input checked="" type="checkbox"/> Vessel <input type="checkbox"/> Exchanger <input type="checkbox"/> Tank <input type="checkbox"/> Heater						
Service Fluid:	<input type="checkbox"/> Sweet <input checked="" type="checkbox"/> Sour Fluid Name: Well Emulsion						
Unit Name / #:	ST-05	Equip#:	ST-05 FGS				
Equip. Name:	Fuel Gas Scrubber						
Jurisdiction #:	1007.14981	CRN:	0H2298.21345				
Manufacturer:	Lo Tech Manufacturing Inc.						
Year Built:	2014	S/N:	1007.14981				

Components:	Diameter	Length	Material	Nominal t	CA	Comment
Shell:	8"	36"	SA-516-70N	0.322"	0.125"	
Head:	8"	Flat	SA-516-70N	0.75"	0.125"	
Channel:						
Tube:						
Other:						

PSV Data: PSV Capacity Verified: Y N Block Valve(s) Installed: Yes No Car-sealed Open: Yes No N/A

Zones:	MDMT	Design T	MAWP	Set Press	Tag#	Model	Manf.	PSV CRN	Serial Number	In.	Out.	Capacity	Serv. Co.	Serv. Date
Shell Side:	20 F	650 F	150 PSI	150 PSI	ST-05	B2E4351331	Taylor	0G01316.2C	105456-66	1"	1"	613 SCFM	King Energy	2022-09-09
Tube Side:														
Other:														

Orientation: Hor. Ver. **Foundation:** Concrete Gravel Timbers Steel Other: Trailer Condition: Good

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:	Condition:
<input type="checkbox"/> Hangers: <input type="checkbox"/> Secure Comment:	Condition:
<input checked="" type="checkbox"/> Other (Specify): Bottom Head welded to trailer checker plate floor	Condition: Good

Overall: General Condition: Good Dead Legs Exist Electrical Grounding: None Indirect Direct Secure

Ext. Surface: Painted Fire-proofed Cladded Insulated Other: Condition: Good

Ext. Fixtures: Ladder Platform(s) Other (Specify): Condition:

Int. Surface: Coated Weld Overlay Cladded Lined Thermal Sprayed Condition:

Int. Fixtures: Baffle Vortex Breaker Float Weir Impingement plate Condition:

Nozzles: MW Inspection port only MW Size: Davit arm: Greased Double-nutted Condition: Not Applicable

Reinforcement pads used Weep holes visible No evidence of weeping Comment: Good

Piping:	Well-coated	Proper joints	Free of leaks	Proper supports	Fluid is identified	Flow dir. shown	Drains properly	Comments:
<input checked="" type="checkbox"/> PSV piping:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PSV is mounted on Piping <input checked="" type="checkbox"/> or Vessel <input type="checkbox"/>
<input checked="" type="checkbox"/> Inlet piping:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Outlet piping:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Drain piping:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Instrument piping:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Valves:

<input checked="" type="checkbox"/> Manual isolation valves: <input checked="" type="checkbox"/> Free from leaks	Comment:
<input checked="" type="checkbox"/> Automated control valves: <input checked="" type="checkbox"/> Free from leaks	Comment:
<input checked="" type="checkbox"/> Vents and/or drains: <input checked="" type="checkbox"/> Properly plugged	Comment:

Gauges:

<input checked="" type="checkbox"/> Pressure: Range: 0 - 200 PSI	Reading: 5	Condition: Reading while static. May be stored pressure or failed gauge.
<input type="checkbox"/> Temperature: Range:	Reading:	Condition:
<input type="checkbox"/> Sight Glass Level:	Reading:	Condition:

Recommended Actions:

- 1.
- 2.
- 3.

Summary: The vessel exterior and the associated piping are considered to be in Good condition.

PHOTOS



Unit ID



Vessel Overview



Vessel Nameplate



Gas Outlet Piping



Inlet Piping



Drain Piping

PHOTOS



PSV Overview



PSV Nameplate



PSV Service Tag



PIMS

ULTRASONIC THICKNESS GAUGE (UTT) & MPI REPORT FORM

REPORT FORM 101

CLIENT NAME:	TARA ENERGY SERVICES INC.			PROJECT NAME:	ST-05
Client Address:	9526 – 81 Avenue, Clairmont, AB T8X 0M2			Client Job No.:	NA
Client Contact Information:	Name:	Jeff Warr		Purchase Order Number:	NA
	Phone:	587-259-8523		AFE Number:	NA
Work Dates:	August 10, 2022			Other:	NA
Work Location:	Grande Prairie Yard			Report Page Number:	Page 1 of 16
UT Procedure #	UT-001	Rev: 1	Client Specs:	N/A	Acc. Std.:

PIMS TESTING EQUIPMENT

UT TESTING EQUIPMENT:

UT Instrument:	Olympus	Calibration Date:	February 7, 2022									
UT Instrument Model:	Epoch 650				Material Thickness:	Various						
UT Instrument Serial:	160160802		Calibration Blocks:	Step Wedge	DWG. #:	N/A						
Cable Type	Cable Length	Test Angle	Probe S/D	Freq.(MHZ)	Serial No.	Dia.	Transfer Value	Test From	dB	% FSH	Scan Sens.	Range
Coaxial	36"	0 DEG	S	5MHZ	A924D	0.25 0"	-	-	60	80	-	20mm

MPI TESTING EQUIPMENT


MPI Instrument:	Yoke	Calibration Date:	January 18, 2022		
Make:	Contour Probe	Model:	B-300	Serial Number:	2443

Inspection Data

Scope:	UT Report Package for 1007.14981 FGS	Area to be Inspected:	FGS
Results:	See attached report for results.		
	Note: Flag Thickness for ASME B31.3 Piping is Nom-12.5%. ASME Sec VIII Div 1 flags established at Nom-(CA/2) unless otherwise specified by client.		

Photo	Report

This Certificate or Report is valid only for that work which was specifically requested. The company is not responsible for any views expressed by employees performing this work which falls outside the exact terms of reference. All certificates and/or reports are the result of work performed in conformance with applicable specifications and standards to the best of our ability and intent. However, the company will not be responsible for deviations with in normal limits of accuracy in accordance with the standard practices. Final Code acceptance shall require Client/Manufacture representative signature.

UT Technician: Jeremy Kerr	Certification: CGSB REG: 20506	Level: CGSB Level 1
Reviewed By: Steve Gillingham	Certification: CGSB REG: 11441	Level: CGSB Level 2
Client Representative:	Signature: 	Date: August 10, 2022

Location Name:	Grande Prairie AB	LSD:	Portable
Jur #:	OH2298.21345	Equipment/Tag No.	ST-05
Equipment Description:	Fuel Gas Scrubber		
Manufacturer:	Lo Tech Manufacturing Inc.		
Serial Number:	1007.14981	CRN:	OH2298.21345
Shell MAWP:	150	PSI	Shell Design Temp: 650 °F
Tube MAWP:	-	PSI	Tube Design Temp: - °F
Shell Material:	SA-333-6		Head Material: SA-350 LF2
Shell Thickness:	8.18	mm	Head Thickness: 8.18 mm
Corrosion Allowance:	3.2	mm	Date Built: 2014
Size:	8	in	Pipe / Rolled Plate: Pipe
RT:	NS		Client DWG #: -

Photos



View of Nameplate

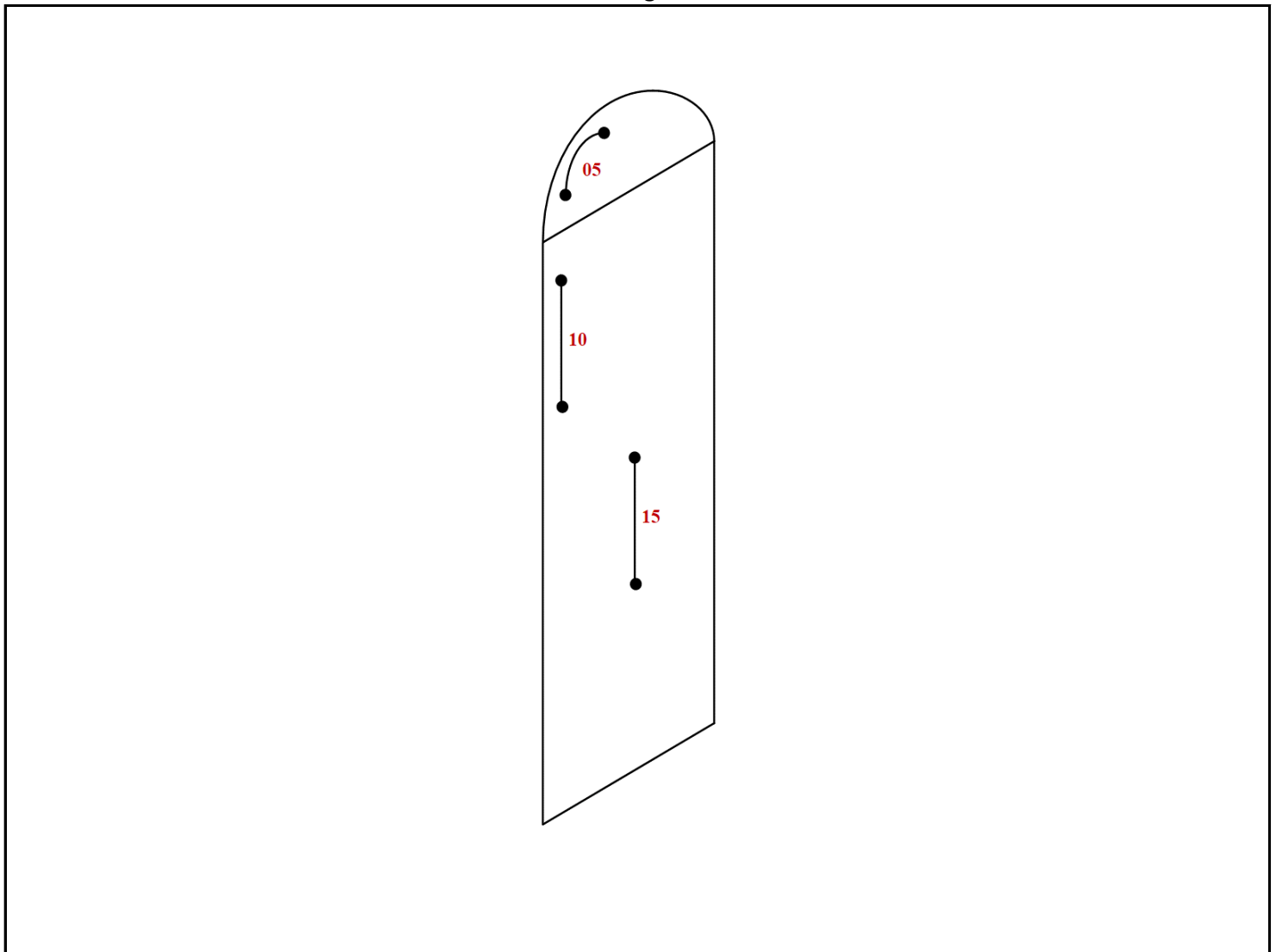


Overall view of Equipment



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ISO Drawing of TML's



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TML#	Description	Shape	Size	Sch	Nom	Flag	2022-08-10	
							Min	Avg
5	Head	Ellipsoidal	8"	Sch40	8.18	7.16	7.58	7.81
10	Shell	Cylindrical	8"	Sch40	8.18	7.16	8.42	9.00
15	Shell	Cylindrical	8"	Sch40	8.18	7.16	8.51	8.68

API 570 #45288 Dwight Colp CCI

