

01-18-017-18W4M
FUEL GAS SEPARATOR
1007.186C87832
REPORT # 1007.186_GRADY INSPECTION LTD VE UT INSP_1APR2022

DATE 4/1/2022
CLIENT CNRL

Phone:403-793-7697

8 Sarah King Crt E Brooks, Alberta, T1R 0J8
grady.rustebakke@gmail.com




RESULTS OF INSPECTION:


VE Inspection:
Fit For Service. Vessel not secured to foundation
No weep hole in PSV discharge elbow
UT Inspection:
No corrosion was found with the ultrasonic inspection.


PRESSURE EQUIPMENT										AB-506 INTERVAL																																													
DISTRICT					SHELL					TUBE					Fuel gas scrubbers																																								
FACILITY					ARMADA					MAWT					100					F																																			
A#					YR					2000					MAWP					150					psi																														
SERIAL #					1007.186					PSV					150					psi					INSPECTION TYPE																														
CRN					0H2298.2134					PSV CRN					0G2606.5C																																								
EQUIP#					SERVICED					3/1/2016																																													
STATUS					IN SERVICE					UNIT					Refridge COMP					VE						VI						MT						PT						ET						UT					
MANUFACTURER					Lo Tech					INSPECTION RESULT:																																													
DH LSD					L					2.2 Ft					OD					.72 Ft					NCR-OPERATIONS																														
REPAD					0					UNIQUE ID					C87832					NCR-REGULATORY/ADMIN																																			
										ACTION ITEM RAISED												X																																	
										REPAIR REQUIRED																																													
										SUITABLE FOR SERVICE												X																																	
										RECOMMENDATIONS:																																													
										VE Inspection: Ensure vessel is secured to foundation Install weep hole to prevent fluid accumulation in PSV discharge piping																																													

SIGN OFF		API 510	EXP.	IPV	EXP.	INSPECTOR - PRIMARY	INSPECTOR - REVIEW	CLIENT SIGN OFF
INSPECTED BY	ToddM Mckenzie	97445	12/31/202	00133	7/13/2026			
REVIEWED BY	Ashley Rustebakke	60285	7/31/2024	966	6/16/2026			

Ultrasonic Report		Date	4/1/2022	Phone: 403-793-7697	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant	8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
DH-LSD		Field	Red Deer District		
Jurisdiction #					
Serial #	1007.186				
Ultrasonic Report #: 1007.186_GRADY INSPECTION LTD VE UT INSP_1APR2022					

ULTRASONIC SET			COMPONENT DETAILS				CODE					
EQUIPMENT	CALIBRATION DUE	SERIAL NUMBER	MATERIAL GRADE	SURFACE PREP		TEMP	THICKNESS	CALIBRATION	EVALUATION			
EPOCH 600	2/25/2023	120388107	Carbon Steel	Painted		0C		ASME V	ASME VIII Div 1			
CALIBRATION BLOCK		PROBE							COUPLING		METHOD	
TYPE	SERIAL#	REF dB	SCAN dB	FREQ.	SIZE.	ANGLE	SERIAL #	TYPE	COUPLANT	CABLE	TECHNIQUE	PROCEDURE
10 Step Metric	14-2065	60	66	5 Mhz	0.25 "	0	15B00DU3	Dual	UT-X	6' BNC to Micro	LW Dual	UT01T1R4
SCOPE		As requested by Dustin Rumohr an ultrasonic inspection was completed on the FUEL GAS SEPARATOR										
LIMITATIONS		Evaluation with Minimal Documentation Assumed SA-283 Grade C as per API 510 7.7 3. Nominal assumed based on UT readings.										
RESULTS		No corrosion was found with the ultrasonic inspection.										

Technician Name	Certification Body	Certification #	Expiry	Technician Signature			
3 ToddM	CGSB	9234					
				Client Name			
				Client Signature			

External Inspection - (Vessel)		Date	4/1/2022	Phone:403-793-7697	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant	8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
DH-LSD		Field	Red Deer District		
Jurisdiction #					

Fit For Service:	Fit For Service.
Inspection Summary:	Vessel not secured to foundation No weep hole in PSV discharge elbow
Recommendations:	Ensure vessel is secured to foundation Install weep hole to prevent fluid accumulation in PSV discharge piping

External Inspection Items	G/F/P	Comments
General Condition:	Good	No notable external corrosion, mechanical damage, areas of wear/fretting, distortion, misalignment, current leaks, or visible weld defects.
External Coating:	Good	Vessel is in good visual condition. Vessel is painted. Vessel is indoors.
Insulation / Cladding:	N/A	Non insulated vessel
Nozzles, Piping and Connections:	Fair	Nozzles and piping in good visual condition No flange nozzles on vessel No attached drain piping.
Buried Vessels:	Good	Above Ground
Ladders, Platforms and Walkways:	N/A	No attached ladder or platform
Foundations and Supports:	Fair	Building is secure Concrete is intact with no visible deficiencies No vessel securement.
Shell:.	Good	No notable external corrosion, mechanical damage, areas of wear/fretting, distortion, misalignment, current leaks, or visible weld defects.
Saddles / Skirts:	N/A	
Grounding:	Good	Ground Wire is secure Grounded through piping system
Gauges and Instrumentation:	N/A	Shell Gauge (- @) Temp Gauge (- @) No gauges found.
Pressure Protection:	Fair	PSV set pressure of 150 psi is suitable for vessel MAWP of 150psi PSV discharge piping has a upward vertical rise creating a fluid trap.
NDE Summary:	Good	No corrosion was found with the ultrasonic inspection.
Manway Davits/Quick Closure:	N/A	No Manway.
Nameplate:	Good	Nameplate is legible and readily accessible and securely affixed
Code Variance:		

PSV Data
LSD

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FIELD Red Deer District

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ASSOCIATED PRESSURE EQUIPMENT DATA			
PV JUR/SER		1007.186	
		SHELL	TUBE
MAWP	150		psi
PSV FIT FOR SERVICE STATEMENT			
Fit For Service.			
PSV STATIC DATA			
MODEL	9117D511807E		
SERIAL	80381		
MANUFACTURER	MERCER		
TAG	38060B		
CRN	0G2606.5C		
SEAL	Y		
SET PRES	150		psi
CAPACITY	329		SCFM
SERVICE DATE	3/1/2016		
SERVICE COMPANY	Unifed Valve		
		T/F	UV NB
		T	U NB
		SIZE	B VALVE CARSEAL
INLET	1	N	
OUTLET	1	N	
PSV COMMENTS			

Overview Photo

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4/1/2022

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GRADY
INSPECTION LTD**Nameplate****Overview****CNRL C Number****No securement**

Overview Photo

LSD

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Red Deer District

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GRADY

INSPECTION LTD



PSV discharge elbow

Phone:403-793-7697

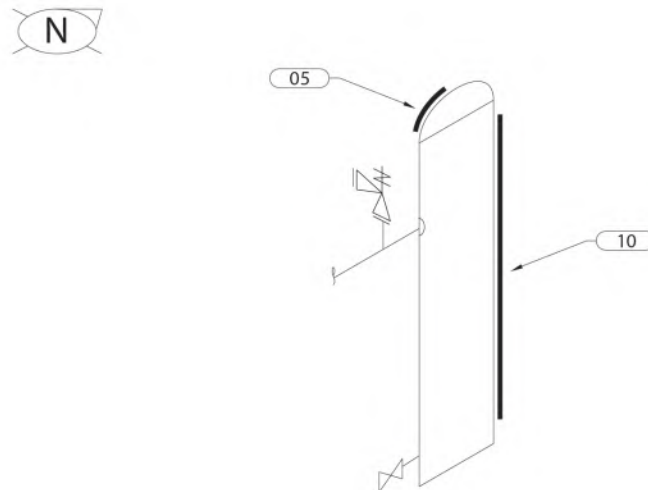
FACILITY Armada Gas Plant

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DWG 1

Location:

CML#	Nom	CA/Tol	SFlag	STmin	PTmin	>Tmin	Comp Type	Pipe Size	Code	MOP	Baseline		3rd Last		2nd Last		Last		# of Insp	Nom Wall Loss	Corrosion Rates			Rem Life Date	Rem (yrs)	Next Insp Date	Insp (yrs)	Inspection Comments
											Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave			ST	LTn	LTi					



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CML#	Nom	CA/Tol	Inspection Dates and Thickness Values (mm)				Comp Type	Pipe Size	Code	MOP	Inspection Dates and Thickness Values (mm)				Last Date	Min Ave	# of Insp	% Nom Wall Loss	Corrosion Rates			Rem Life Date	Rem Life (yrs)	Next Insp Date	Insp Int (yrs)	Inspection Comments
			SFlag	STmin	PTmin	> Tmin					Baseline Date	Min Ave	3rd Last Date	Min Ave	2nd Last Date	Min Ave			ST	LTn	LTi					
05	6.1	6.1	1.4	1.4	1.4		Head		UG32HeadEll	150	4/1/22	7.4 8.0					1	-21%						3/29/2032	10.0	
10	8.0	8.0	2.8	1.4	1.4		Shell		UG27ShellInt	150	4/1/22	5.9 6.1					1	26%		0.09		11/24/2069		3/29/2032	10.0	