

01-18-017-18W4M  
GLYCOL CHARCOAL FILTER  
A0225255 85-0687-2  
REPORT # A#0225255\_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 is in good visual condition.  
UT Inspection:  
No corrosion was found with the ultrasonic inspection.


PRESSURE EQUIPMENT										AB-506 INTERVAL														
DISTRICT		AB - OIL & NATURAL GAS					SHELL		TUBE			Upstream pressure vessels not												
FACILITY		Armada Gas Plant					MAWT		250		F			GRADE										
A#		A0225255		YR		1985		MAWP		275				psi			YEARS							
SERIAL #		85-0687-2				PSV		275				psi			Equip									
CRN		F3241.2				PSV CRN		0G8841.5C							PSV									
EQUIP#						SERVICED		6/6/2017							UT									
STATUS		IN SERVICE					UNIT		Refridge			INSPECTION TYPE												
												VE		VI		MT		PT		ET		UT		
												X										X		
MANUFACTURER		PETRO EQUIPMENT SALES LTD.					INSPECTION RESULT:																	
DH LSD							L		4		Ft		OD		.67		Ft		NCR-OPERATIONS					
REPAD		0		UNIQUE ID		NCR-REGULATORY/ADMIN																		
							ACTION ITEM RAISED																	
							REPAIR REQUIRED																	
							SUITABLE FOR SERVICE						X											
							RECOMMENDATIONS:																	
							VE Inspection: Recommend installing gauges suitable for design parameters																	

SIGN OFF		API 510	EXP.	IPV	EXP.	INSPECTOR - PRIMARY	INSPECTOR - REVIEW	CLIENT SIGN OFF
INSPECTED BY	ToddM McKenzie	97445	12/31/2022	00133	7/13/2026			
REVIEWED BY	Ashley Rustebakke	60285	7/31/2024	966	6/16/2026			

<b>Ultrasonic Report</b>		<b>Date</b>	4/1/2022	Phone: 403-793-7697 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
<b>LSD</b>	01-18-017-18W4M	<b>Facility</b>	Armada Gas Plant		
<b>DH-LSD</b>		<b>Field</b>	Red Deer District		
<b>Jurisdiction #</b>	A0225255				
<b>Serial #</b>	85-0687-2				
<b>Ultrasonic Report #:</b> A#0225255_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 FILTER										
LIMITATIONS		Previous ultrasonic inspection data not obtained by Grady Inspection Ltd.										
RESULTS		No corrosion was found with the ultrasonic inspection.										

<b>Technician Name</b>	<b>Certification Body</b>	<b>Certification #</b>	<b>Expiry</b>	Technician Signature			
3    ToddM	CGSB	9234					
				<b>Client Name</b>			
				<b>Client Signature</b>			

<b>External Inspection - (Vessel)</b>		<b>Date</b>	3/30/2022	Phone:403-793-7697	
<b>LSD</b>	01-18-017-18W4M	<b>Facility</b>	Armada Gas Plant	8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
<b>DH-LSD</b>		<b>Field</b>	Red Deer District		
<b>Juristiction #</b>	A0225255				

<b>Fit For Service:</b>	Fit For Service.
<b>Inspection Summary:</b>	Vessel is in good visual condition.
<b>Recommendations:</b>	Recommend installing gauges suitable for design parameters

External Inspection Items	G/F/P	Comments
General Condition:	Good	No notable mechanical damage, areas of wear/fretting, distortion, misalignment, or visible weld defects.
External Coating:	Good	Vessel is in good visual condition. Paint is intact and well adhered to the vessel. Vessel is indoors.
Insulation / Cladding:	N/A	Non insulated vessel
Nozzles, Piping and Connections:	Good	Number of nozzles repaded: 0 Number of nozzles without repad: 0 Nozzles and piping in good visual condition
Buried Vessels:	N/A	Above Ground
Ladders, Platforms and Walkways:	N/A	No attached ladder or platform
Foundations and Supports:	Good	Building is secure Building on concrete pilings
Shell:.	Good	No notable mechanical damage, areas of wear/fretting, distortion, misalignment or visible weld defects.
Saddles / Skirts:	Good	Saddle is in good visual condition
Grounding:	Good	Ground Wire is secure Grounded through piping system
Gauges and Instrumentation:	N/A	<div>Shell Gauge ( - @ )Temp Gauge ( - @ )</div> <div>No gauges found. AB-516 Section 37 Section 37 Responsibility of Owners (e) the pressure equipment is operated within established safe operating limits,</div>
Pressure Protection:	Good	The PSV Set Pressure ( 275 psi) is suitable for the MAWP ( 275 psi)
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

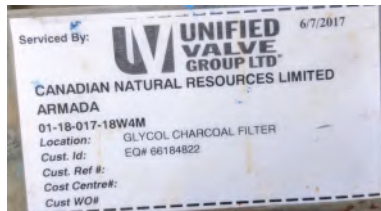
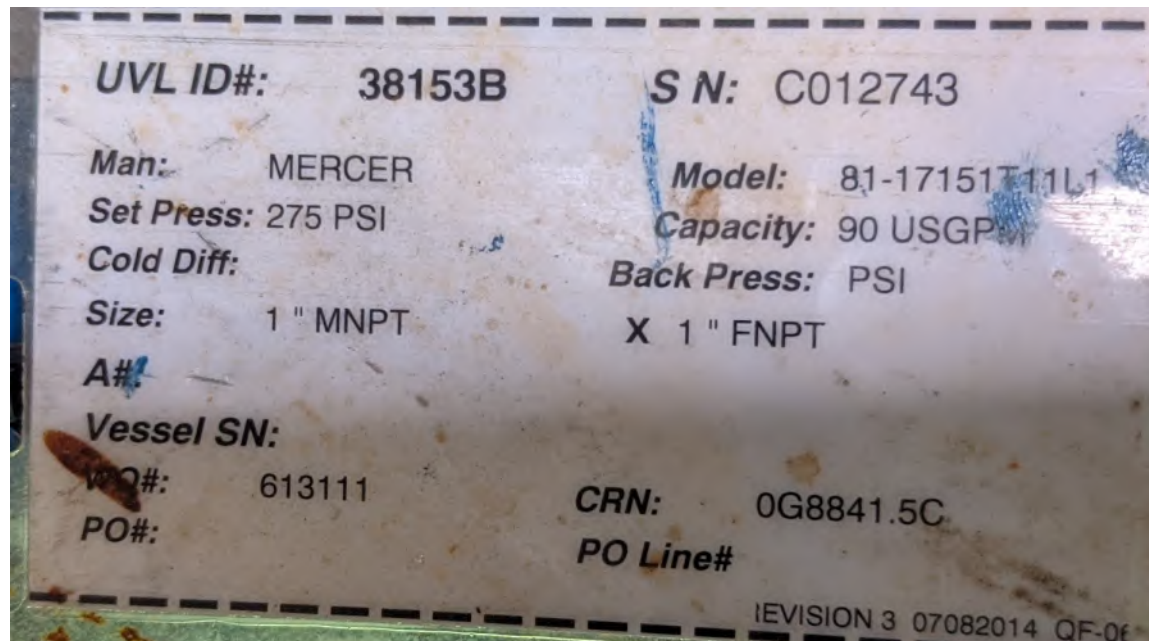
LSD

01-18-017-18W4M

FACILITY Armada Gas Plant

FIELD Red Deer District

Phone:403-793-7697

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INSPECTION LTD

## ASSOCIATED PRESSURE EQUIPMENT DATA

PV JUR/SER A0225255 85-0687-2

SHELL TUBE

MAWP 275 psi

## PSV FIT FOR SERVICE STATEMENT

Fit For Service.

## PSV STATIC DATA

MODEL 81-17151T11L1

SERIAL C012743

MANUFACTURER MERCER

TAG 38153B

CRN 0G8841.5C

SEAL Y

SET PRES 275 psi

CAPACITY 90 US

SERVICE DATE 6/6/2017

SERVICE COMPANY Unified Valve Group

T/F UV NB

T UV NB

SIZE B VALVE CARSEAL

INLET 1 N

OUTLET 1 N

## PSV COMMENTS



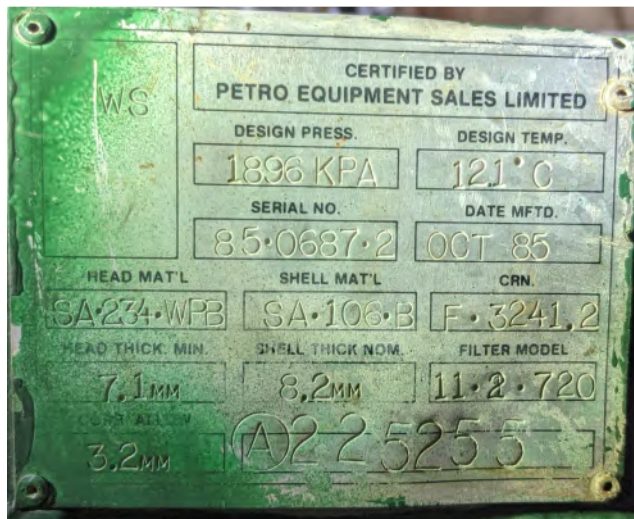
**Overview Photo**

**LSD** 01-18-017-18W4M  
**Jur #** A0225255  
**Serial #** 85-0687-2

<b>Date</b>	4/1/2022
<b>FACILITY</b>	Armada Gas Plant
<b>FIELD</b>	Red Deer District

Phone: 403-793-7697

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**GRADY**  
INSPECTION LTD

Nameplate



Overview



Vessel support



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LSD 01-18-017-18W4M FACILITY Armada Gas Plant  
DH-LSD FIELD Red Deer District  
Jur # A0225255 DWG 1 Location:  
Ser # 85-0687-2

Phone:403-793-7697

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Ser #		85-0687-2		Inspection Dates and Thickness Values (mm)																				% Nom Wall Loss		Corrosion Rates			Rem Life		Insp	
CML#	Nom	CA/Tol	SFlag	STmin	PTmin	> Tmin	Comp Type	Pipe Size	Code	MOP	Baseline		3rd Last		2nd Last		Last		# of Insp			ST	LTn	LTi	Date	(yrs)	Next Insp Date	(yrs)	Inspection Comments			
05	7.1	7.0	2.5		2.5	2.5	Head		UG32HeadEll	275	3/28/12	7.8			11/28/17	7.8	4/1/22	7.9	8.2	3	-11%						3/29/2032	10.0				
10	8.2	8.1	4.9		2.4	2.4	Shell		UG27ShellInt	275	3/28/12	8.4			11/28/17	8.4	4/1/22	8.0	8.2	3	2%	0.09		0.04	10/15/2082		3/29/2032	10.0				
15	8.2	8.1	4.9		2.4	2.4	Shell		UG27ShellInt	275	3/28/12	7.6			11/28/17	8.5	4/1/22	7.6	8.2	3	7%						3/29/2032	10.0				