


Ultrasonic Report		Date	3/30/2022	Phone: 403-793-7697 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant		
DH-LSD		Field	Red Deer District		
Jurisdiction #					
Serial #	808006.4B				
Ultrasonic Report #: 808006.4B_GRADY INSPECTION LTD VE UT INSP_31MAR2022					

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 AERIAL COOLER										
LIMITATIONS		Previous ultrasonic inspection data not obtained by Grady Inspection Ltd.										
RESULTS		No corrosion was found with the ultrasonic inspection.										

External Inspection - (Vessel)		Date	3/30/2022	Phone: 403-793-7697 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
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Fit For Service:	Fit For Service.
Inspection Summary:	Vessel is in good visual condition. PSV service seal is broken
Recommendations:	Service PSV

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. Areas of loose and flaking paint.
Insulation / Cladding:	N/A	Non insulated vessel
Nozzles, Piping and Connections:	Good	Number of nozzles repaded: 0 Number of nozzles without repad: 2 Nozzles and piping in good visual condition
Buried Vessels:	N/A	Above Ground
Ladders, Platforms and Walkways:	Good	Building secure
Foundations and Supports:	Good	Anchor bolts fully engaged
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
Gauges and Instrumentation:	N/A	<div>Shell Gauge (- @)Temp Gauge (- @)</div> <div>Compressor is digitally monitored for pressure and temperature.</div>
Pressure Protection:	Fair	The PSV Set Pressure (1100 psi) is suitable for the MAWP (1315 psi) PSV service seal broken
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

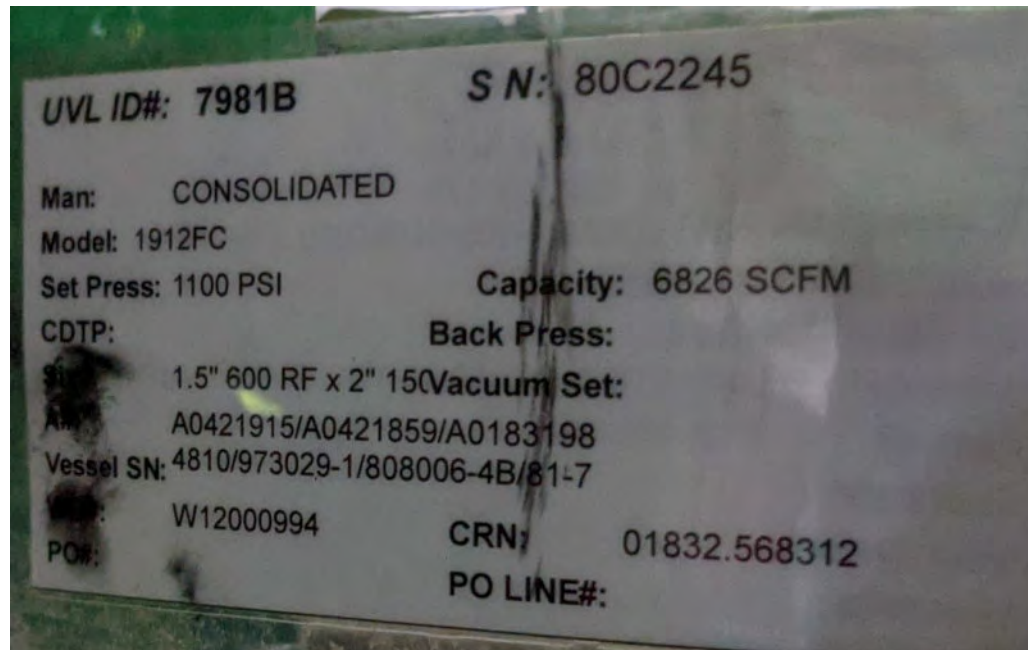
LSD

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 808006.4B

SHELL TUBE

MAWP 1315 psi

PSV FIT FOR SERVICE STATEMENT

Not Fit For Service.

PSV STATIC DATA

MODEL 1912FC

SERIAL 80C2245

MANUFACTURER CONSOLIDATED

TAG 7981B

CRN 01832.568312

SEAL N

SET PRES 1100 psi

CAPACITY 6826 SCFM

SERVICE DATE 9/9/2020

SERVICE COMPANY Unified Valve Group

T/F UV NB

F UV NB

SIZE B VALVE CARSEAL

INLET 1.5 N

OUTLET 2 N

PSV COMMENTS

Broken Service Seal

Overview Photo

LSD 01-18-017-18W4M
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FACILITY

Armada Gas Plant

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Red Deer District

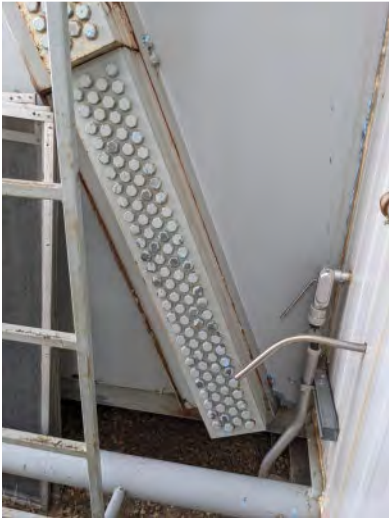
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Nameplate



Overview



Alternate Overview



CNRL C Number

Overview Photo

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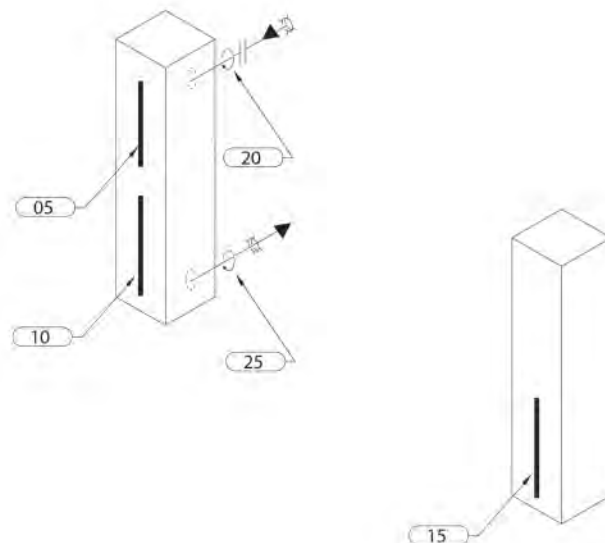
Pipe to building interface

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Jur # **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	Next Insp	Insp Int	Insp Inspection Comments	
											Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave			ST	LTh	LTI	Rem Life Date	(yrs)	Insp Date	(yrs)	



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CML#	Nom CA/Tol		SFlag STmin PTmin > Tmin				Comp Type	Pipe Size	Code	MOP	Inspection Dates and Thickness Values (mm)								# of Insp	% Nom Wall Loss	Corrosion Rates			Rem Life Date	Rem Life (yrs)	Next Insp Date	Insp Int (yrs)	Inspection Comments
											Baseline Date	Min Ave	3rd Last Date	Min Ave	2nd Last Date	Min Ave	Last Date	Min Ave										
05	3.2	3.2	10.8	5.4	5.4		Shell		UG27ShellInt	1315	3/31/22	23.5	23.7						1	-640%						3/28/2032	10.0	
10	3.2	3.2	10.8	5.4	5.4		Shell		UG27ShellInt	1315	3/31/22	23.2	23.3						1	-631%						3/28/2032	10.0	
15	3.2	3.2	10.8	5.4	5.4		Shell		UG27ShellInt	1315	11/28/17	23.2	24.2				3/31/22	22.9 23.1	2	-621%	0.07					3/28/2032	10.0	
20	8.6			5.3	5.3		Nozzle	4" XS 80--(8.6mm)	UG45Nozzle	1315	3/31/22	8.5	8.8						1	1%	0.00		10/15/3386			3/28/2032	10.0	
25	8.6			5.3	5.3		Nozzle	4" XS 80--(8.6mm)	UG45Nozzle	1315	3/31/22	8.0	8.6						1	7%	0.01		6/19/2214			3/28/2032	10.0	