

01-18-017-18W4M
CONDENSATE STABILIZER TOWER
A0205694 84C-3203-05
REPORT # A#0205694_GRADY INSPECTION LTD VE UT INSP_2MAY2022

DATE 5/2/2022
CLIENT CNRL

Phone:403-793-7697
PO Box 1173, Brooks,
Alberta, T1R 19B
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	200		F		GRADE		YEARS			REG							
A#	A0205694		YR	1984		MAWP	125				psi										
SERIAL #	84C-3203-05				PSV						psi										
CRN	F-0738.2				PSV CRN																
EQUIP#					SERVICED																
STATUS	OUT OF SERVICE			UNIT	Refridge				VE		VI		MT		PT		ET		UT		
X																		X			
MANUFACTURER	ALCO GAS & OIL PRODUCTION EQUIPMENT LTD.														INSPECTION RESULT:						
DH LSD					L	Ft		OD	Ft		NCR-OPERATIONS										
REPAD	UNIQUE ID								NCR-REGULATORY/ADMIN												
														ACTION ITEM RAISED							
														REPAIR REQUIRED							
														SUITABLE FOR SERVICE				X			
														RECOMMENDATIONS:							
														VE Inspection: Inspect PSV after installation to confirm suitability. Visually monitor for CUI							

SIGN OFF		API 510	EXP.	IPV	EXP.	INSPECTOR - PRIMARY	INSPECTOR - REVIEW	CLIENT SIGN OFF
INSPECTED BY	ToddM Mckenzie	97445	12/31/2023	001336	7/13/2026			
REVIEWED BY	Ashley Rustebakke	60285	7/31/2024	966	6/16/2026			

Ultrasonic Report		Date	3/30/2022	Phone: 403-793-7697 PO Box 1173, Brooks, Alberta, T1R 19B grady.rustebakke@gmail.com	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant		
DH-LSD		Field	Red Deer District		
Jurisdiction #	A0205694				
Serial #	84C-3203-05				
Ultrasonic Report #: A#0205694_GRADY INSPECTION LTD VE UT INSP_2MAY2022					

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

Technician Name	Certification Body	Certification #	Expiry	Technician Signature			
3 ToddM	CGSB	9234	12/15/2030				
				Client Name			
				Client Signature			

External Inspection - (Vessel)		Date	3/30/2022	Phone:403-793-7697 PO Box 1173, Brooks, Alberta, T1R 19B grady.rustebakke@gmail.com	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant		
DH-LSD		Field	Red Deer District		
Jurisdiction #		A0205694			

Fit For Service:	Fit For Service.
Inspection Summary:	Vessel is in good visual condition.
Recommendations:	Inspect PSV after installation to confirm suitability. Visually monitor for CUI

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. non measurable corrosion found visually.
Insulation / Cladding:	Fair	Insulation is in good visual condition. Staining identified.
Nozzles, Piping and Connections:	Good	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	Skirt is in good visual condition
Grounding:	Good	Ground Wire is secure
Gauges and Instrumentation:	Good	<div>Shell Gauge (0 - 200 @ psi)</div> <div>Temp Gauge (50 - 500 @ F)</div> <div>Gauges are clear, colorless and correct for the MAWP and MAWT.</div>
Pressure Protection:	N/A	Out for service at time of inspection
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:		

Overview Photo

LSD 01-18-017-18W4M
Jur # A0205694
Serial # 84C-3203-05

Date	5/2/2022
FACILITY	Armada Gas Plant
FIELD	Red Deer District

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GRADY
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Nameplate



Overview



Pressure Gauge



Temperature Gauge

Overview Photo

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5/2/2022

FACILITY

Armada Gas Plant

FIELD

Red Deer District

Phone:403-793-7697

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GRADY
INSPECTION LTD**Ground Wire****Non-measurable corrosion at CML Port**

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DH-LSD

Jur # A0205694

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FACILITY Armada Gas Plant

FIELD Red Deer District

DWG 1

Location:

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INSPECTION LTD

Ser # 84C-3203-05										Inspection Dates and Thickness Values (mm)																		%		Corrosion Rates			Rem		Next		Insp	
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	ST	LTn	LTI	Rem Life Date	Rem Life (yrs)	Insp Date	Insp Int (yrs)	Inspection Comments									
												Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave																			

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LSD 01-18-017-18W4M FACILITY Armada Gas Plant
DH-LSD FIELD Red Deer District
Jur # A0205694 DWG 1 Location:
Ser # 84C-3203-05

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Ser #		84C-3203-05		Inspection Dates and Thickness Values (mm)																								
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 Life (yrs)	Next Insp Date	Insp Int (yrs)	Inspection Comments	
											Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave			ST	LTn						LTi
05	8.1	8.0	-0.2	-0.1	-0.1	Shell		UG27ShellInt	125		5/2/22	8.0	8.3						1		0.00				4/29/2032	10.0		
10	8.1	8.0	-0.2	-0.1	-0.1	Shell		UG27ShellInt	125		5/2/22	8.3	8.7						1						4/29/2032	10.0		
20	8.1	8.0	-0.2	-0.1	-0.1	Shell		UG27ShellInt	125		4/1/12	8.9	9.5				5/2/22	8.7 9.3	2		0.02				4/29/2032	10.0		
25	8.1	8.0	-0.2	-0.1	-0.1	Shell		UG27ShellInt	125		4/1/12	8.0	8.2				5/2/22	7.8 8.2	2		0.02		6/19/2421		4/29/2032	10.0		
30	4.5	3.9	2.0	1.8	0.1	1.8	Elbow	1" XS 80--(4.5mm)	API570	125		4/1/12	4.3	4.4				5/2/22	4.1 4.3	2	9%	0.02		4/18/2138		4/29/2032	10.0	
40	8.1	8.0	-0.2	-0.1	-0.1	Shell		UG27ShellInt	125		4/1/12	8.9	9.1				5/2/22	8.8 9.0	2		0.01				4/29/2032	10.0		
45	8.2	8.1	-0.1	-0.1	-0.1	Head		UG32HeadEll	125		4/1/12	8.9	9.4				5/2/22	8.4 9.0	2		0.05				4/29/2032	10.0		