



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			Refrigeration Vessels						
FACILITY	Armada Gas Plant				MAWT	150	150	F	GRADE		YEARS				REG		
A#	A0199810		YR	1985	MAWP	250	685	psi			Equip	PSV	UT				
SERIAL #	85033301		PSV					psi			3	10	5	10			X
CRN	F3988.2		PSV CRN							INSPECTION TYPE							
EQUIP#										VE	VI	MT	PT	ET	UT		
STATUS	OUT OF SERVICE			UNIT	Refridge					X					X		
MANUFACTURER	ALCO GAS & OIL PRODUCTION EQUIPMENT LTD.										INSPECTION RESULT:						
DH LSD						L	Ft	OD	2	Ft	NCR-OPERATIONS						
REPAD	UNIQUE ID										NCR-REGULATORY/ADMIN						
										ACTION ITEM RAISED							
										REPAIR REQUIRED							
										SUITABLE FOR SERVICE					X		
										RECOMMENDATIONS:							
										VE Inspection: Confirm location of Shell side PSV. Inspect PSVs when installed to confirm suitability Cut more insulation ports for shell CMLs							

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

LSD01-18-017-18W4M

DH-LSD

Juristiction #A0199810

Serial #85033301

Ultrasonic Report #:A#0199810_GRADY INSPECTION LTD VE UT INSP_2MAY2022

Date

3/30/2022

Facility

Armada Gas Plant

Field

Red Deer District

Phone:403-793-7697

PO Box 1173, Brooks,
Alberta, T1R 19B
grady.rustebakke@gmail.com

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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	10mm	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 CHILLER											
LIMITATIONS	Historical data correlation limited											
RESULTS	No corrosion was found with the ultrasonic inspection.											

Technician Name

3 ToddM

Certification Body

CGSB

Certification #

9234

Expiry

12/15/2030

Technician Signature


Client Name

Dustin Rumohr

Client Signature

Company Name

CNRL

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 # A0199810				

Fit For Service:	Fit For Service.
Inspection Summary:	Vessel is in good visual condition.
Recommendations:	Confirm location of Shell side PSV. Inspect PSVs when installed to confirm suitability Cut more insulation ports for shell CMLs

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:	Good	Insulation is in good visual condition.
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	Saddle is in good visual condition
Grounding:	Good	Ground Wire is secure
Gauges and Instrumentation:	Fair	Shell Gauge (- @) Temp Gauge (- @) Tube side pressure gauge is suitable for MAWP No Tube side temperature gauge Shell side pressure gauge is suitable for MAWP Shell side temperature gauge is suitable for MAWT
Pressure Protection:	N/A	Tube side PSV coverage through LTS. Out for service at time of inspection Engineering to confirm location of Shell side PSV
NDE Summary:	Good	No corrosion was found with the ultrasonic inspection.
Manway Davits/Quick Closure:	N/A	No Manway
Nameplate:	Good	Nameplates are legible and readily accessible and securely affixed
Code Variance:		

Overview Photo

LSD 01-18-017-18W4M
Jur # A0199810
Serial # 85033301

Date

5/2/2022

FACILITY

Armada Gas Plant

FIELD

Red Deer District

Phone:403-793-7697

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ShellSide Nameplate



Overview



Tubeside Nameplate



Overview

Overview Photo

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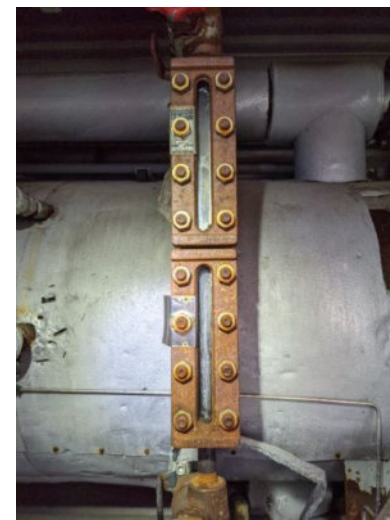
Anchor bolt



Pressure Gauge



Temperature Gauge



Liquid Level

REPORT # A#0199810_GRADY INSPECTION LTD VE UT INSP_2MAY2022

LSD 01-18-017-18W4M

FACILITY Armada Gas Plant

DH-LSD

Jur # A0199810

FIELD Red Deer District

DWG 1

Location:

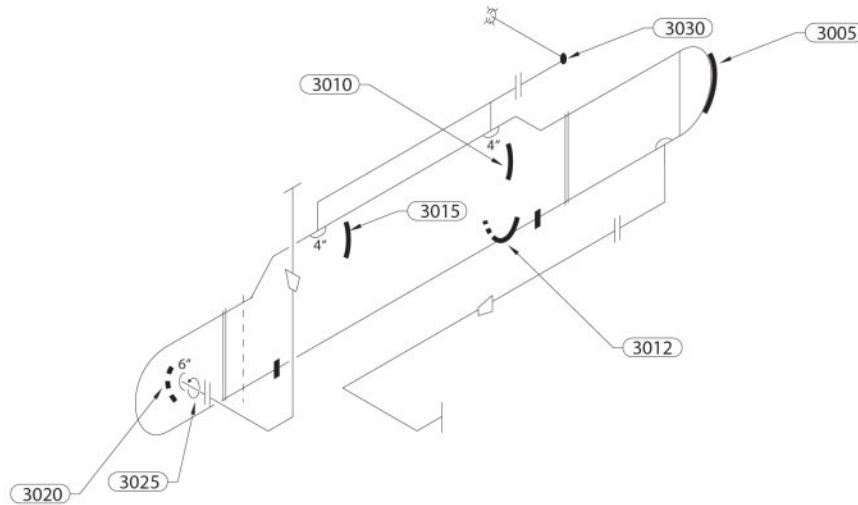
Ser # 85033301

Inspection Dates and Thickness Values (mm)

Phone:403-793-7697

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REPORT # A#0199810_GRADY INSPECTION LTD VE UT INSP_2MAY2022
LSD 01-18-017-18W4M FACILITY Armada Gas Plant
DH-LSD FIELD Red Deer District
Jur # A0199810 DWG 1 Location:
Ser # 85033301

Phone:403-793-7697

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Inspection Dates and Thickness Values (mm)																				%	Corrosion Rates			Rem	Rem	Next	Insp	Inspection
CML#	Nom	CA/Tol	SFlag	STmin	PTmin	> Tmin	Comp Type	Pipe Size	Code	MOP	Baseline Date	Min Ave	3rd Last Date	Min Ave	2nd Last Date	Min Ave	Last Date	Min Ave	# of Insp	Nom Wall Loss	ST	LTn	LTi	Life Date	Life (yrs)	Insp Date	Int (yrs)	
3005	7.3	7.2	5.0	5.0	5.0		Head		UG32HeadElli	250	1/4/12	12.3	12.4				5/2/22	12.2	12.5	2	-67%	0.01				4/29/2032	10.0	
3010	9.5	9.4	10.0	5.0	5.0		Shell		UG27ShellInt	250	5/2/22	9.2	9.4							1	3%	0.01		4/27/2547		4/29/2032	10.0	
3012	9.5	9.4	10.0	5.0	5.0		Shell		UG27ShellInt	250	5/2/22	9.6	9.9							1	-1%					4/29/2032	10.0	
3015	9.5	9.4	10.0	5.0	5.0		Shell		UG27ShellInt	250	1/4/12	9.1	9.3				5/2/22	9.9	10.1	2	-4%					4/29/2032	10.0	
3020	7.3	7.2	5.0	5.0	5.0		Head		UG32HeadElli	250	5/2/22	12.3	12.6							1	-69%					4/29/2032	10.0	
3025	18.2			6.2	6.2		Nozzle	6" -- 160--(18.2mm)	UG45Nozzle	250	5/2/22	17.4	17.8							1	4%	0.02		1/15/2544		4/29/2032	10.0	
3030	6.0	5.3	3.1	2.3	0.7	2.3	Elbow	4" STD 40--(6mm)	API570	250	5/2/22	5.9	6.3							1	2%	0.00		4/6/3366		4/29/2032	10.0	