16-14-020-12W4M

A0551782 14171

Co2 STILL COLUMN VENT

DATE

2025-10-27

CLIENT

Po Box 1173 Brooks Alberta T1R 1B9 grady.rustebakke@gmail.com



CLIENT SIGN OFF

REPORT # A0551782__27OCT2025_UT_VE_VI_GRADYINSPECTIONLTD





PRESSURE EQUIPMENT										AB-506 INTERVAL					
DISTRICT					SHE	LL	TUBE		Upstr	ean	n pressi	ıre v	essels	not	
FACILITY	Princess			MAWT	2	50		F	GRAD	DΕ		YEA	RS		
A#	A0551782	YR	2000	MAWP	5	0		psi			Equip	PS	SV	UT	REG
SERIAL#	14171			PSV				psi	1		3	3	3	3	Х
CRN	T1798.2		PSV	CRN					INSPE	СТ	ON TY	'ΡΕ			
EQUIP#			SERVI	CED					VE	٧	I N	1T	PT	ET	UT
STATUS			UNIT						х		×				Х
MANUFAC	TURER BILTON	1 WE	LDING 8	MANUF	ACT	URIN	G LTD		INSPE	СТ	ON RE	SUL	T:		
DH LSD				L	10 I	Ft O I	D 6	Ft	NCR-0	OPE	RATIO	NS			
REPAD	UNIQ	UE II	ס	SWE	ET/S0	OUR			NCR-F	REG	ULATO	RY/	ADMIN		
									ACTIC) N	TEM RA	AISE	D		
(18.1 yrs) Int ((18.1 yrs) Int (3 yrs) Min @ Top Elbow														
									REPAI	IR R	EQUIR	ED			
									SUITA	BLE	FOR S	SER	VICE		Х

RESULTS OF INSPECTION:

VE Inspection

Fit For Service. Vessel is in good visual condition. Pre-purchase inspection prior to moving unit.

35% (1.9mm) loss on SNozz CML 20 DWG 1 Nom: (5.5mm) Act: (3.6mm) Req: (2.3mm) CR: .07 Yrs: (18.1 yrs) Int (3 yrs) Min @

VI Inspection:

Fit For Service. Minor corrosion found on nozzle throat to a measured depth of 0.7 mm Minor corrosion measured in vapor phase at 12:00 to a measured depth of 0.5 mm,

Coating has failed on the nozzles and vapour space.

SIGN OFF		API 510	EXP.	IPV	EXP.	INSPECTOR - PRIMARY	INSPECTOR - REVIEW
INSPECTED BY	Grady Rustebakke	28850	2027-07-31	A-64882	2026-11-22	Carry 0 - 20 1/4=	10 , , ,
REVIEWED BY	Ashley Rustebakke	60285	2027-07-31	966	2026-06-16	GRAPY KUSTEBAHHE	Mustetalle

16-1	4-02	20-1	2W	4N

Co2 STILL COLUMN VENT

DATE 2025-10-27 CLIENT

403-793-7697

Po Box 1173 Brooks Alberta T1R 1B9 grady.rustebakke@gmail.com

A0551782 14171

REPORT # A0551782__270CT2025_UT_VE_VI_GRADYINSPECTIONLTD

RECOMMENDATIONS:

VE Inspection:

No recommendations.

VI Inspection:

Blast clean and coat vessel.

SIGN OFF		API 510	EXP.	IPV	EXP.	INSPECTOR - PRIMARY	INSPECTOR - REVIEW	CLIENT SIGN OFF
INSPECTED BY	Grady Rustebakke	28850	2027-07-31	A-64882	2026-11-22	Carry P - Tayler	10 , , ,	
REVIEWED BY	Ashley Rustebakke	60285	2027-07-31	966	2026-06-16	GRAPY KUSTEBARNE	Mistetalle	

Ultrasonic	Report
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LSD 16-14-020-12W4M

DH-LSD

Date Facility

Field

403-793-7697

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Juristiction # A0551782 **Serial #** 14171

Ultrasonic Report #: A0551782__27OCT2025_UT_VE_VI_GRADYINSPECTIONLTD

ULTRASONIC SET						COMPONENT DETAILS						CODE					
EQUIPMENT	CALIBRATION	DUE	SERIAL N	JMBER	MATER	IAL GRADE	SURFACE	PREP	TEMP	THICK	HICKNESS		CALIBRATION		EVALUATION		
Danatronics FD	2026-02-05		05668	360	Carbon Steel Painted (0C	C		ASME V		ASME VIII Div 1			
CALIBRATIO	ON BLOCK		PROBE COUPLING METI				PROBE COUPLING					NETHO	D				
TYPE	SERIAL#	REF dB	SCAN dB	FREQ.	SIZE.	ANGLE	SERIAL#	TYPE	cou	COUPLANT CABL		.E	TECHNIQU	JE	PROCEDURE		
5 Step Metric	13-5295	66	66	7.5 Mhz	0.25 "	0	15B00DU4	Dual		UT-X 6' BNC to		UT-X 6' BNC to Micro		Micro	LW Dual	ļ	UT03T1R2
SCOPE	As requested by Fu	el an ultrasor	nic inspection	was complet	ed on the Co2	STILL COLUM	N VENT										
LIMITATIONS	CML 20 Sch not ver	CML 20 Sch not verified. Assumed SCH 80															
RESULTS	35% (1.9mm) loss o	35% (1.9mm) loss on SNozz CML 20 DWG 1 Nom: (5.5mm) Act: (3.6mm) Req: (2.3mm) CR: .07 Yrs: (18.1 yrs) Int (3 yrs) Min @ Top Elbow															

2025-10-27

Technician Name	Certification Body	Certification #	Expiry	Technician Signature		0
09 Grady Rustebakke	CGSB UT 2	9640	2026-09-15		GRADY	KUSTEBAHNE
	SNT-TC-1A UT 2		2029-03-06	Client Name	Fuel	Company Name
	ı			Client Signature		

Juristiction # A0551782		Field grady.rustebakke@gmail.com INSPECTION LTD
Fit For Service: Fi	t For Service.	
Inspection Summary: Ve	essel is in good visual	condition. Pre-purchase inspection prior to moving unit.
Recommendations: No	recommendations.	
External Inspection Items	G/F/P	Comments
General Condition:	N/A	Fully insulated
External Coating:	N/A	Fully insulated.
Insulation / Cladding:	Good	Insulation is in good visual condition.
Nozzles, Piping and Connect	tions: Good	Piping not included with unit. Nozzles were exposed for inspection. No visual access to bridle nozzle. Nozzle full of fluid. Verify if bridle elbow is SCH 40 or SCH 80. UT (3.6/4.8 mm)
Buried Vessels:	N/A	Above Ground
Ladders, Platforms and Walk	ways: N/A	No platform.
Foundations and Supports:	N/A	Vessel moved from site.
Shell:.	Fair	No UT ports found or created on insulation.
Saddles / Skirts:	Good	
Grounding:	N/A	Ground wire removed for vessel moving.
Gauges and Instrumentation	: Good	Shell Gauge (- @) Temp Gauge (0 - 250 @ 40 F)
		Gauge is not suitable for MAWT
Pressure Protection:	N/A	NO PSV. Vented to atmosphere
NDE Summary:	Fair	35% (1.9mm) loss on SNozz CML 20 DWG 1 Nom: (5.5mm) Act: (3.6mm) Req: (2.3mm) CR: .07 Yrs: (18.1 yrs) Int (3 yrs) Min @ Top Elbow
Manway Davits/Quick Closur	re: Fair	Corrosion found on manway throat to a maximum measured depth of 0.7 mm. Corrosion is within the corrosion allowance of 3.2 mm.
Nameplate:	Good	Nameplate is legible and readily accessible and securely affixed

2025-10-27

403-793-7697

Po Box 1173 Brooks Alberta T1R 1B9

External Inspection - (Vessel)

LSD

DH-LSD

Code Variance:

16-14-020-12W4M

Date

Field

Facility

Internal Inspection - (Vessel LSD 16-14-020-12W4M Jur # A0551782

Serial #

A0551782 14171 FACILITY FIELD

Date

2025-10-27

Phone:403-793-7697
PO Box 1173, Brooks, Alberta, T1R 19B grady.rustebakke@gmail.com

Fit For Service:	Fit For Se	ervice.									
Inspection Summary: Overview of Inspection Findings		Minor corrosion found on nozzle throat to a measured depth of 0.7 mm Minor corrosion measured in vapor phase at 12:00 to a measured depth of 0.5 mm,									
	Coating h	Coating has failed on the nozzles and vapour space.									
Internal Inspection Items	G/F/P	Comments									
Inlet Area:	Fair	The coating has failed around the nozzle on the shell and on the deflection plate.									
Internal Piping:	Good	Internal stainless steel heating loop in good visual condition.									
Baffles, Deflector Plates, Weir, et	tc: N/A										
Trays:	N/A										
Demister Pad:	N/A										
Head (1):	Good	Head in good visual condition.									
Head (2):	Good	Head in good visual condition.									
Shell:	Fair	Coating in vapor space has failed. Minor general corrosion to a maximum measured depth of 0.5 mm was found on the shell at 12:00. Corrosion found in the failed coating section is within the 3.2 mm corrosion allowance.									
Tubesheet:	N/A										
Channel Section:	N/A										
Bundle / Tubes:	N/A										
Nozzles / Manways:	Fair	Corrosion found on the manway throat to a maximum measured depth of 0.7 mm. Corrosion is within the corrosion allowance of 3.2 mm.									
Welds:	Good										
Vortex Breakers, Drains, etc:	Good	Bolted vortex breaker on 3" nozzle projection. Vortex not removed for inspection.									
Internal Coating: Fair	NotCoated × Coated	The coating has failed on the manway, nozzles and on the 12:00 portion of the shell. The coating has chipped and flaked, general corrosion visible where the coating has failed on the shell and manway. No visual access to the nozzle coating failures.									

Internal Inspection - (Vessel) LSD 16-14-020-12W4M Jur # A0551782 Serial # 14171		Pate FACILITY FIELD CoatingFailure	2025-10-27	Phone:403-793-7697 PO Box 1173, Brooks, Alberta, T1R 19B grady.rustebakke@gmail.com
		Blisters		
		Cracks/Flake		
		Repaired Replaced		
Weld Repairs	Weld Repa None Requ	irs Required iired		
Internal Ano	des: Internal Anod	les × None		
Non-Conform	nances and Corrective	Actions:		
Preparatory '	Work Required for Next	t Inspection:		
Recommend	ations for Next Inspect	ion: Blast clean and coat vesse		

Phone:403-793-7697

Internal Inspection - (Vessel)

LSD 16-14-020-12W4M

 Jur #
 A0551782

 Serial #
 14171

Date FACILITY

2025-10-27

FIELD

Po Box 1173 Brooks Alberta T1R 1B9 grady.rustebakke@gmail.com





Nameplate



Nameplate



Overview



Overview

LSD 16-14-020-12W4M

 Jur #
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 Serial #
 14171

Date FACILITY

FIELD

2025-10-27

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Po Box 1173 Brooks Alberta T1R 1B9
grady.rustebakke@gmail.com





Temperature Gauge



Corrosion on throat measured to a depth of 0.7 mm



Coating failure on manway throat



Internal Overview

LSD 16-14-020-12W4M

 Jur #
 A0551782

 Serial #
 14171

Date FACILITY

FIELD

2025-10-27

Y

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Internal Overview stainless 2" piping



12:00 coating failure



Typical nozzle cleanliness



12:00 coating failure

LSD 16-14-020-12W4M

Jur# A0551782 Serial # 14171

Date

2025-10-27

FACILITY FIELD

Po Box 1173 Brooks Alberta T1R 1B9





12:00 coating failure



12:00 coating failure



Head overview



Typical nozzle coating failure

 Overview Photo

 LSD
 16-14-020-12W4M

 Jur #
 A0551782

 Serial #
 14171

Date FACILITY FIELD 2025-10-27

Po Box 1173 Brooks Alberta T1R 1B9 grady.rustebakke@gmail.com



Inlet distribution plate.

A0551782__27OCT2025_UT_VE_VI_GRADYINSPECTIONLTD

LSD 16-14-020-12W4M

Nom CA/Tol SFlag STmin PTmin > Tmin Comp Type Pipe Size

FACILITY

DH-LSD Jur # A0551782 **FIELD**

Ser# 14171

REPORT#

CML#

DWG

1 Location: Still Column

Code

MOP Date

Inspection Dates and Thickness Values (mm) Baseline Min Ave

3rd Last Date Min Ave

2nd Last Date Min Ave Po Box 1173 Brooks Alberta T1R 1B9

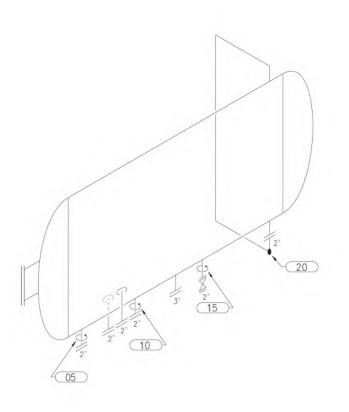
grady.rustebakke@gmail.com

Last # of Wall Insp | Loss

Corrosion Rates ST LTn LTi

403-793-7697

Rem Life Life Next Int Inspection Date (yrs) Insp Date (yrs) Comments





REPORT# A0551782__27OCT2025_UT_VE_VI_GRADYINSPECTIONLTD 403-793-7697 LSD 16-14-020-12W4M **FACILITY** DH-LSD **FIELD** Po Box 1173 Brooks Alberta T1R 1B9 Jur # A0551782 DWG 1 Location: Still Column grady.rustebakke@gmail.com Ser# 14171 Inspection Dates and Thickness Values (mm) Nom Corrosion Rates Baseline 3rd Last 2nd Last # of $_{\rm I}$ Wall Last Rem Life | Life | Next SFlag STmin PTmin > Tmin Comp Type Pipe Size Life Next Int Inspection (yrs) Insp Date (yrs) Comments Nom CA/Tol Min Ave Insp Loss CML# Code MOP Date Min Ave Date Min Ave Date Date Min Ave ST LTn LTi Date 1 2028-10-26 3.0 05 8.7 2" -- 160--(8.7mm) UG45Nozzle 50 25/10/27 8.7 9.1 0% 10 SNozz 2" -- 160--(8.7mm) UG45Nozzle 50 25/10/27 9.1 9.3 1 -5% 2028-10-26 3.0 Inc @ 4.6 North Side 8.7

9.6

15

20

8.7

5.5

2" -- 160--(8.7mm) UG45Nozzle 50 25/10/27 9.2

2" XS 80--(5.5mm) UG45Nozzle 50 25/10/27 3.6 4.8

SNozz

SNozz

-6%

35%

2028-10-26 3.0

2043-12-15 | 18.1 | 2028-10-26 | 3.0 | Min @ Top Elbow