



Client: CNRL

PRESSURE VESSEL INSPECTION REPORT

District:	GRANDE PRAIRIE	Facility	Spirit River South	Location/LSD	08-09-077-07W6
Equipment Name	TREATER			Prov Reg No.:	0478711
Serial No.:	01-07-55	Equip No.:		National Board No.	

UT SURVEY	Accept
PSV INSP	N/A
VTE INSP	Concern
VTI INSP	N/A

FIT FOR SERVICE

INSPECTOR: Isaac Ekpo

VITUS INTERNAL REVIEW BY: Kevin Billesberger

DATE: 27 June 2022

CLIENT SIGNOFF

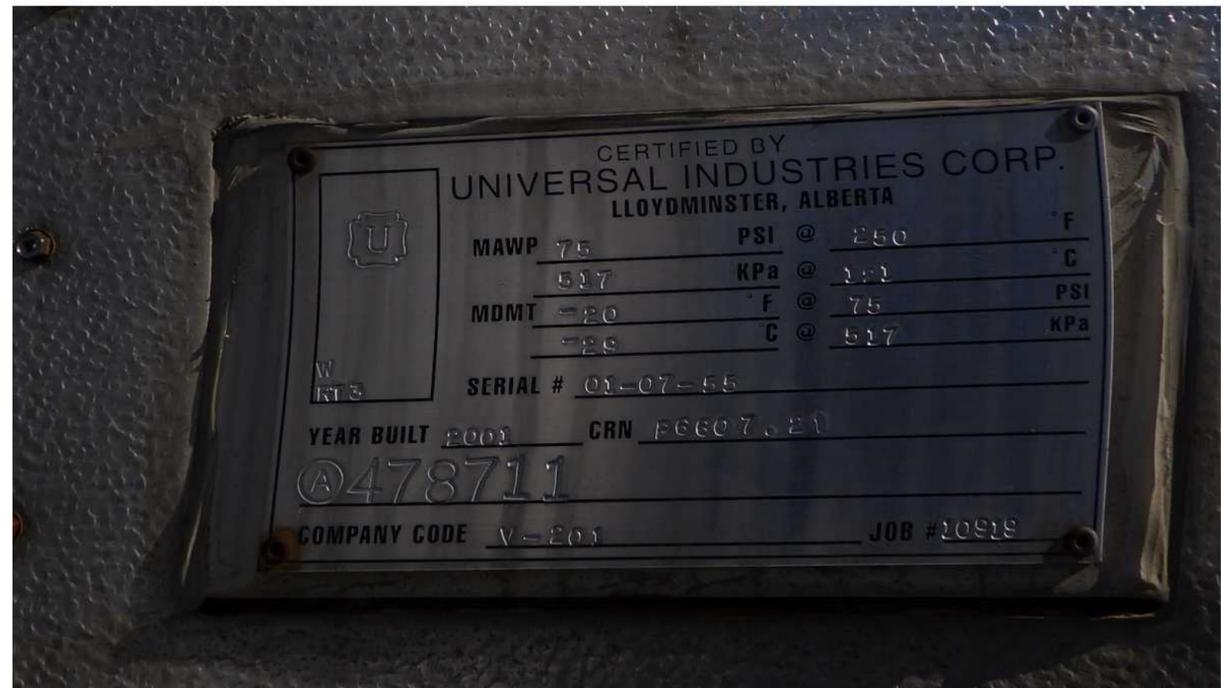
DATE:

PRESSURE VESSEL DEFICIENCY SUMMARY

UT SURVEY	LATEST UT DATE USED IN SUMMARY			June 23, 2022
LOCATION	Nom - CA	Low RDG	Avg RD	TMin
N/A				No TMLs Flagged for This
RECOMMENDATION	N/A		QUALITY ACTION	N/A
RESULT	Accept			
PSV INSPECTION	LATEST PSV INSP DATE USED IN SUMMARY			
DEFICIENCY	RECOMMENDATION	QUALITY ACTION	RESULT	
VISUAL EXTERNAL INSPECTION	LATEST VTE DATE USED IN SUMMARY			June 23, 2022
DEFICIENCY	RECOMMENDATION	QUALITY ACTION	RESULT	
NO SAFE ACCESS TO PSV DATA	NCR	CAR	Concern	
VISUAL INTERNAL INSPECTION	LATEST VTI DATE USED IN SUMMARY			
DEFICIENCY	RECOMMENDATION	QUALITY ACTION	RESULT	
N/A	N/A	N/A	N/A	

PRESSURE VESSEL STATIC DATA

Equipment Status:	Operating			Orientation:	Horizontal		
Skid No.:				Unit:			
EQUIPMENT STATIC DATA							
AB Registration No.:	0478711			Serial No.:	01-07-55		
Registration No./Other:				Equipment No.:			
CRN NO.:	P6607.21			Unique ID No.:	V-201		
National Board No.:				Oncor ID No.:	182678		
Manufacturer:	Universal Industries			Year Built:	2001		
MAWP:	75.00	(psi)	517.11	(Kpa)	Temperature:	250.00	(F)
Diameter.:	96.000	(In)	2438.40	(mm)	Length:	384.00	(In)
Radiography:	RT3			Heat Treatment:	No		
Corrosion allowance:	0.063	(In)	1.600	(mm)	MDMT:	-20.00	
Lining Or Coated:	No			Painted:	Yes		
Insulated:	Yes			Internally Clad:	No		
Hand Hole:	No			Support Type:			
Manway:	No			Manway Size(In):	24.00		
Capacity/Volume(m3):				Nozzle Rating:			
MATERIALS/COMPONENTS							
Name	Joint Efficiency	Outside Diameter(in.)	Head Type	Material Type	Stress Value (PSI)	Nominal Thickness(In.)	
SHELL	1.00	96.000		Unknown	15000		
HEAD	1.00	96.000	Ellipsoidal	Unknown	15000		
PIPING STATIC DATA							
Primary Flange Rating:	150			ASME B16.5 - Table 2-1.1 @ 150F:	285 (psi)		
Pressure Use For TMin:	Vess Design Press			Piping Operating Press:	75 (psi)		
Stress Value:	20000	(psi)	E Value:	1.00	Joint:		
SERVICE CONDITIONS							
Sweet	✓	Sour		Oil		Gas	
Amine		LPG		Condensate		Air	
Water		Glycol					
COMMENTS							





ULTRASONIC CORROSION SURVEY REPORT

UT SURVEY Accept

District:	GRANDE PRAIRIE	Facility	Spirit River South	Location/LSD	08-09-077-07W6
Equipment Name	TREATER			Prov Reg No.:	0478711
Serial No.:	01-07-55	Equip No.:		National Board No.	

SUMMARY

TYPE	LAST INSPECTIONS	INSPECTION INTERVAL (YEARS)	CORROSION RATE (IN/YR)		REMAINING LIFE (YEARS)	NEXT INSPECTION DATE
			SHORT TERM	LONG TERM		
VESSEL	Jun 23, 2022	5.0	0.0000	0.0000	198.0	Jun 23, 2027
PIPING	Jun 23, 2022	5.0	0.0010	0.0010	64.5	

VESSEL SURVEY READINGS

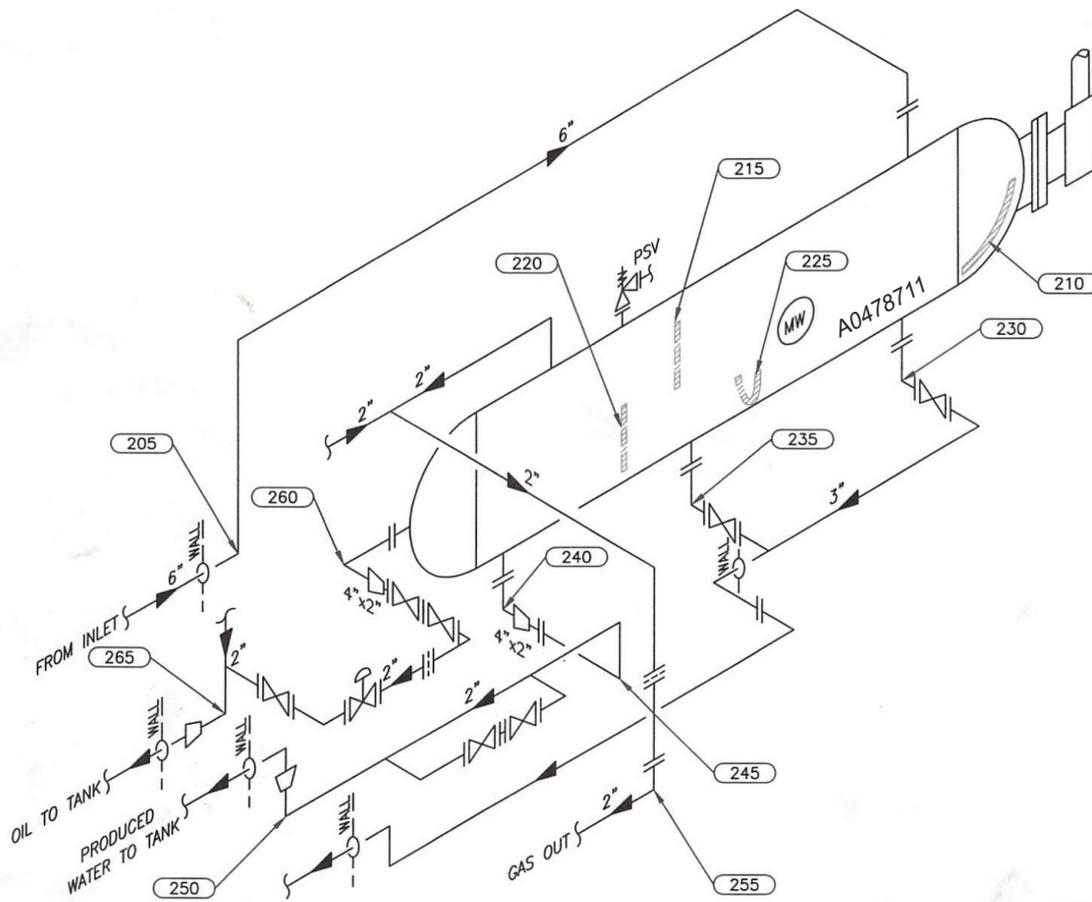
POINT NUMBER	TYPE	Point Data (INCH)		NOM-CA	DATE	SURVEY READINGS			CALCULATIONS			Flag
		NOM.	C.A.			LOW	AVG	T Req (inch)	short term corr rate	long term corr rate	remaining life	
210	HEAD	0.0000	0.0630	-0.0630	Jun 23/22	0.519	0.530	0.239	0.0000	0.0000	198.0	NO COMMENTS
215	SHELL	0.0000	0.0630	-0.0630	Jun 23/22	0.408	0.415	0.240	0.0000	0.0000	198.0	NO COMMENTS
220	SHELL	0.0000	0.0630	-0.0630	Jun 23/22	0.405	0.415	0.240	0.0000	0.0000	198.0	NO COMMENTS
225	SHELL	0.0000	0.0630	-0.0630	Jun 23/22	0.392	0.400	0.240	0.0000	0.0000	198.0	NO COMMENTS

PIPING SURVEY READINGS

POINT NUMBER	TYPE	SIZE	SCH	POINT DATA (INCH)			DATE	SURVEY READINGS			CALCULATIONS			Flag
				NOM.	Mill Tol./CA	NOM-CA		LOW	AVG	T Req (inch)	short term corr rate	long term corr rate	remaining life	
205	90L 6 STD	6.00	STD	0.2800	0.0980	0.1820	Jun 23/22	0.290	0.305	0.110	0.0000	0.0000	198.0	NO COMMENTS
230	90L 3 STD	3.00	STD	0.2160	0.0900	0.1260	Jun 23/22	0.200	0.215	0.080	0.0007	0.0007	161.3	NO COMMENTS
235	90L 3 STD	3.00	STD	0.2160	0.0900	0.1260	Jun 23/22	0.200	0.215	0.080	0.0007	0.0007	161.3	NO COMMENTS
240	90L 4 STD	4.00	STD	0.2370	0.0930	0.1440	Jun 23/22	0.235	0.250	0.090	0.0001	0.0001	1,558.7	NO COMMENTS
245	90L 2 STD	2.00	STD	0.1540	0.0820	0.0720	Jun 23/22	0.137	0.150	0.070	0.0008	0.0008	84.7	NO COMMENTS
250	90L 2 STD	2.00	STD	0.1540	0.0820	0.0720	Jun 23/22	0.133	0.150	0.070	0.0010	0.0010	64.5	NO COMMENTS
255	90L 2 STD	2.00	STD	0.1540	0.0820	0.0720	Jun 23/22	0.153	0.165	0.070	0.0000	0.0000	1,784.5	NO COMMENTS
260	90L 4 STD	4.00	STD	0.2370	0.0930	0.1440	Jun 23/22	0.252	0.265	0.090	0.0000	0.0000	198.0	NO COMMENTS
265	90L 2 STD	2.00	STD	0.1540	0.0820	0.0720	Jun 23/22	0.157	0.170	0.070	0.0000	0.0000	198.0	NO COMMENTS

INSPECTOR-EQUIPMENT DATA

Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equipment	Due Date Of Calibration	NDE Procedure #
Isaac Ekpo		1	24468	06/23/2022	106_61457706_EPOCH 4	01/03/2023	WQS UT-001



05/2017 - NO ACCESS TO PSV

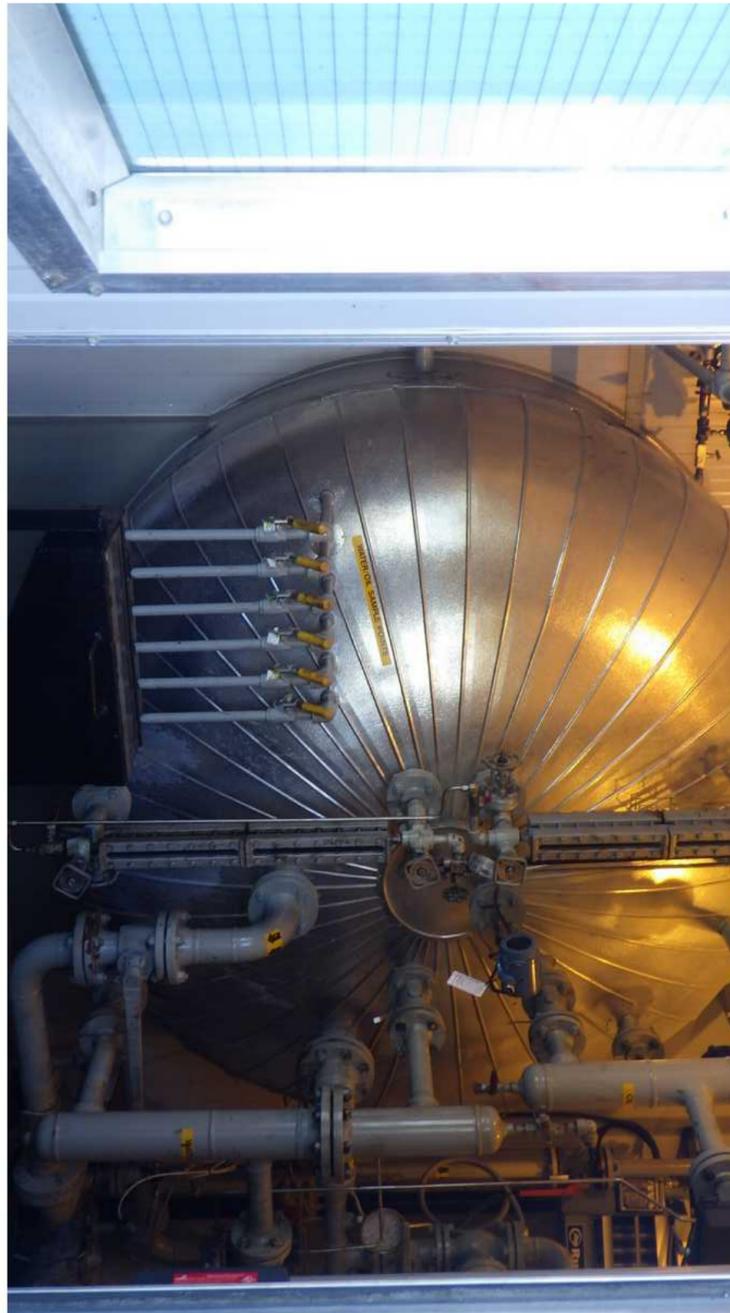




ULTRASONIC CORROSION SURVEY REPORT

UT SURVEY Accept

District:	GRANDE PRAIRIE	Facility	Spirit River South	Location/LSD	08-09-077-07W6
Equipment Name	TREATER			Prov Reg No.:	0478711
Serial No.:	01-07-55	Equip No.:		National Board No.	





VISUAL INSPECTION REPORT - PRESSURE VESSEL

District:	GRANDE PRAIRIE	Facility	Spirit River South	Location/LSD	08-09-077-07W6
Equipment Name	TREATER			Prov Reg No.:	0478711
Serial No.:	01-07-55	Equip No.:		National Board No.	

VTE INSP	Concern
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External Inspection

Inspector:	Isaac Ekpo	ABSA PESL #:	001302	Signature:		Date:	06/23/2022
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External Corrosion

There was no significant external corrosion found on the vessel/piping Accept

External Damage

There was no external corrosion found on the vessel/piping Accept

Leakage

No Leaks were found on the vessel or piping connections Accept

Vessel and Piping Supports

Vessel support is Saddle and is acceptable Accept

Vessel support anchor bolts are in place and acceptable Accept

Vessel Foundation is Metal and is acceptable Accept

Piping does not have additional supports but is supported by connected piping and is acceptable Accept

Insulation/Paint

	Type	Findings	
Vessel	Insulated	None Tearing, None Denting, Accept Banding, Accept Seals/Joints	Accept
Inlet Piping	Insulated	None Tearing, None Denting, Accept Banding, Accept Seals/Joints	Accept
Outlet Piping	Insulated	None Tearing, None Denting, Accept Banding, Accept Seals/Joints	Accept

Pressure Envelope Flanging

	Bolting	Thread engagement	Gaskets	Flange Rating	
Manway	Accept	Accept	Accept	Accept	Accept
Vessel	Accept	Accept	Accept	Accept	Accept
Inlet Piping	Accept	Accept	Accept	Accept	Accept
Outlet Piping	Accept	Accept	Accept	Accept	Accept
Other Piping	Accept	Accept	Accept	Accept	Accept

General

Pressure Gauge is acceptable, Temp Gauge is acceptable, Level Gauge is acceptable, Grounding is acceptable, Platform is acceptable, Ladder/Stairway is acceptable, Davit is acceptable, Accept

NO SAFE ACCESS TO PSV DATA Concern

Comment