

Report #: 123938-DB-34 Inspect Date: 09/17/2010 Page: 1 of 10

Insp. Co. Job #: 123938

		Yellow	7		
Insp. Comp: Matrix_Inspection	District:	St Albert		Field:	Joffre
Location: 04-10-039-26W4	Unit / Skid #:			LSD:	04-10-039-26W4
Jurisdiction #: A3027808	Equip Tag #:	N/A		Serial #:	94C-5260-01
CRN #: H6599.12	Nat'l Bd #:	N/A	Ye	ear Built:	1995
Manufacturer: ALCO GAS & OIL PRODUCT	TION Equip	ment Description:	Other: GLYCOL	CONTACT	TOR
Status: In Service -	Equip. T	ype: Vessel:		_	Service: Sweet
MAWP Shell: 1650 Psi @ 150	°FV	olume: N/A		Cod	de Stamp: 🛛 Y 🔲 N
MAWP Tube: @	Height/L		in.	_	Insulated: TY N
MDMT:		meter.: 28.00 i		_	PWHT: 🛛 Y 🔲 N
	-	CNRL Inventory Lis			Manway: ☐ Y ☒ N
C.A.: N/A in. Coated: N	N/A Clad:	: <u>N/A</u> J.E	E.: N/A Remo	ote Access	s: 🗌
'	aterial	Nominal Thk			ube Side Shell Side
	516-70N	1.500 in.	28.000 in.	OD	
· · ·	516-70N	1.490 in.	28.000 in.	OD	
	516-70N	1.490 in.	28.000 in.	OD	
4 -					
5 -					
Static Data: Confirmed	e Comments) 🛛				
Comments:					
Nameplate secure and legible.					
Adequate information stated.  Date of construction changed to tag informat	ion				
Date of construction changed to tag informat	ЮП.				
DSV Static Data					
PSV Static Data	Carriel #1, 222	220.5		PDN: OCA	1246.20
PSV -1 Tag #: PSV3027808	Serial #: 233			RN: OG1	
PSV –1 Tag #: PSV3027808 Model #: T-8200-2	Serial #: 233		Set Press	sure: 1440	0 psi
PSV –1 Tag #: PSV3027808  Model #: T-8200-2  Manufacturer: Mercer Valve	Capacity: 108		Set Press Service Comp	any: POV	0 psi VERCOMM
PSV –1 Tag #: PSV3027808  Model #: T-8200-2  Manufacturer: Mercer Valve  Inlet Size & Type: 1.50 in Threaded	Capacity: 108	371 SCFM	Set Press Service Comp Last Service D	any: POV	0 psi VERCOMM
PSV –1 Tag #: PSV3027808  Model #: T-8200-2  Manufacturer: Mercer Valve  Inlet Size & Type: 1.50 in Threaded  Outlet Size & Type: 1.50 in Threaded	Capacity: 108	371 SCFM	Set Press Service Comp Last Service D ock Valve: N/A -	any: POV Date: 9/7/2	0 psi VERCOMM 2005
PSV –1 Tag #: PSV3027808  Model #: T-8200-2  Manufacturer: Mercer Valve  Inlet Size & Type: 1.50 in Threaded  Outlet Size & Type: 1.50 in Threaded  Carseal Intact: Yes	Capacity: 108	371 SCFM BI	Set Press Service Comp Last Service D ock Valve: N/A - Code Sta	sure: 1440 any: POV Date: 9/7/2	0 psi VERCOMM 2005
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PSV –1 Tag #: PSV3027808  Model #: T-8200-2  Manufacturer: Mercer Valve  Inlet Size & Type: 1.50 in Threaded  Outlet Size & Type: 1.50 in Threaded  Carseal Intact: Yes  Shell Side / Tube Side: Shell Side  PSV –2 Tag #: Shell Side  Manufacturer: Inlet Size & Type: -  Outlet Size & Type: -  Carseal Intact: Shell Side / Tube Side:  PSV Comments	Capacity: 108  Out for Service Serial #: Capacity:	BI SCFM BI CE During Insp.: N	Set Press Service Comp Last Service D ock Valve: N/A - Code Sta Location of F Set Press Service Comp Last Service D ock Valve: - Code Sta	sure: 1440 any: POV oate: 9/7/2 amp: Yes On V CRN: sure: any: Oate: - amp:	0 psi VERCOMM 2005 Vessel
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PSV –1 Tag #: PSV3027808  Model #: T-8200-2  Manufacturer: Mercer Valve  Inlet Size & Type: 1.50 in Threaded  Outlet Size & Type: 1.50 in Threaded  Carseal Intact: Yes  Shell Side / Tube Side: Shell Side  PSV –2 Tag #: Shell Side  Manufacturer: Inlet Size & Type: -  Outlet Size & Type: -  Carseal Intact: Shell Side / Tube Side:  PSV Comments	Capacity: 108  Out for Service Serial #: Capacity:	BI SCFM BI CE During Insp.: N	Set Press Service Comp Last Service D ock Valve: N/A - Code Sta Location of F Set Press Service Comp Last Service D ock Valve: - Code Sta	sure: 1440 any: POV oate: 9/7/2 amp: Yes On V CRN: sure: any: Oate: - amp:	0 psi VERCOMM 2005 Vessel
PSV –1 Tag #: PSV3027808  Model #: T-8200-2  Manufacturer: Mercer Valve  Inlet Size & Type: 1.50 in Threaded  Outlet Size & Type: 1.50 in Threaded  Carseal Intact: Yes  Shell Side / Tube Side: Shell Side  PSV –2 Tag #: Shell Side  Manufacturer: Inlet Size & Type: -  Outlet Size & Type: -  Carseal Intact: Shell Side / Tube Side:  PSV Comments	Capacity: 108  Out for Service Serial #: Capacity:	BI SCFM BI CE During Insp.: N	Set Press Service Comp Last Service D ock Valve: N/A - Code Sta Location of F Set Press Service Comp Last Service D ock Valve: - Code Sta	sure: 1440 any: POV oate: 9/7/2 amp: Yes On V CRN: sure: any: Oate: - amp:	0 psi VERCOMM 2005 Vessel



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Insp. Company: Ma	trix_Ir	spection	LSD:04-10-039-26W4 Jur	isdiction #:	A30	27808
External Inspection Results – VE External Inspection Performed						
Item	N/A	Condition	Comment	NCR	Action Item	Action Item
Namanlata		Assent	(Check Status Bar or Press F1 for Help)	-	Integrity	Maintenance
Nameplate Foundation and Supports	旹	Accept	Nameplate is secure and legible.	$\dashv \vdash \vdash$		
Anchor Bolts	旹	Accept	Foundation and supports in good condition.			
		Accept	Anchor bolts in place and secure.  Ground is secure to skid. Clean and tight.	$\dashv \dashv$		
Grounding Insulation Condition		Accept	Not applicable for this inspection.	<u> </u>		
PSV		Reject	PSV is overdue for service.			
Shell Heads & Nozzles	H	Accept	Shell, Heads and Nozzles in good condition.	ᆉ		
Metal Surfaces (Paint)	+	Accept	Metal surfaces and paint good condition.	ᆉ		
Aux Equipment		Ассері	Not applicable for this inspection.	$\dashv                                    $		
Cathodic Protection			Not applicable for this inspection.	$\dashv \exists$		
Alignment		Accept	Vessel alignment is good.	ᅥ片		
Flange Connections	旹	Accept	Flange connections proper, in good condition.	ᅥ片		
Pressure Gauge	H	Accept	Pressure gauge appears functional.			
Temperature Gauge	H	Accept	Temperature gauge appears functional.	ᅥ片		
Sight Glass	旹	Accept	Sight glass clean and in good condition.	ᅥ片		
Ladder / Platform		Доссрі	Not applicable for this inspection.			
Leaks		No	No leaks noted at time of inspection.			
Piping from Vessel	旹	Accept	Piping is well supported and in good condition.			
Previous UT Survey	H	Yes		JT Compan	v. Aitec	
		103	Evidence of previous inspection.	от обттрат	y. 71100.	
External Visual Observations						
Vessel and associated components in good external condition.  * PSV is overdue for service.  Nameplate is secure and legible. Foundation and supports in good condition. Anchor bolts in place and secure.  Ground is secure to skid. Clean and tight. Shell, Heads and Nozzles in good condition.  Metal surfaces and paint good condition., Vessel alignment is good. Flange connections proper, in good condition. Temperature gauge appears functional. Pressure gauge appears functional. Sight glass clean and in good condition. No leaks noted at time of inspection. Piping is well supported and in good condition.						
Recommendations:						
Service the PSV and attac	h a ta	ng.				



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	Insp. Company:M	atrix_Ir	spection	LSD:	04-10-039-26W4	Jurisdic	tion #:	A30	27808
Internal Inspection Results – VI N/A (Not Applicable)									
	Item	N/A	Condition	(Che	Comment eck Status Bar or Press F1 for Help)		NCR	Action Item Integrity	Action Item Maintenance
	Shell				spection Carried Out				П
	Heads				spection Carried Out				
	Manway				spection Carried Out				
	Gasket Surfaces				spection Carried Out				
	Welds				spection Carried Out				
	Refractory				spection Carried Out		一一		
	Heating Coils				spection Carried Out				
	Demister Pad				spection Carried Out				
	Vane Pack				spection Carried Out				
	Baffles				spection Carried Out				
	Trays				spection Carried Out				
	Filter				spection Carried Out				
	Internal Coating				spection Carried Out				
	Tubesheet				spection Carried Out				
	Tube Bundle				spection Carried Out				
_  -	nternal Visual Observatior	10	'						
	No Internal Inspection Carried Out								
F	Recommendations:								
	No Internal Inspection C	arried (	Out						



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Insp. Company:M	atrix_In	spection	LSD:	04-10-039-26	W4	Jurisdiction	#: A3	3027808
Firetube Static Data N/A (Not Applicable)								
Diameter: Not Applica	able		Nom	Thickness: Not A	plicable	11	Bend: No	ot Applicable
Length: Not Applica	able		Firetube D	Description: Not Ap	plicable			
	UT	Repor	t#: Not Applic	able	ET 🗌	Report#:	Not Applicable	
Firetube NDE			t#: Not Applic		RT 🗌	_	Not Applicable	
Performed:	PT	•	t#: Not Applic		Other 🗌		Not Applicable	
F								
Firetube Inspection Result	is	1						1
Item	N/A	Condition	(Chr	Comment eck Status Bar or Press	E1 for Holp)	N	CR Action Item Integrity	Action Item Maintenance
Burner				nspection Carried		Г		
Stack				nspection Carried (				
Flange (Throat)				nspection Carried				
Tube Sheet				nspection Carried				
Hot Side				nspection Carried (				
Miter				nspection Carried (				
Return Bend				nspection Carried (				
Supports				nspection Carried (		Ī		
Butt Welds				nspection Carried (				
Fillet Welds				nspection Carried (				
Firetube Visual Observatio	ne			•				
		04						
No Firetube Inspection C	arned (	Jul						
Recommendations:								
No Firetube Inspection C	,ameu	Out						



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04-10-039-26W4 A3027808 Matrix Inspection LSD: Jurisdiction #: Insp. Company: **Vessel NDE and Final Summary:** Report#: Report#: ET 🗌 NDE Performed: Report#: RT 🗌  $\mathsf{MT} \square$ Report#: PT 🗌 Report#: Other Report#: Maxi-Trak Observations Summary (Summarize inspection results Max 255 Characters): Vessel and associated components are in good external condition. Maxi-Trak Recommendations Summary (Summarize Recommendations Max 255 Characters): \* Service the PSV and attach a tag. Continue to inspect at regular intervals. Actions Corrected at Time of Inspection: (If actions were corrected at the time of Inspection - note the corrected actions here.) Not applicable for this inspection. Additional Visual Observations Not applicable for this inspection. Any other safety concerns or observations from associated equipment: (for example associated piping, buildings, pumps etc...) Not applicable for this inspection.



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Jurisdiction #:

A3027808

### Thickness and Remaining Life Evaluation

# " Must be Completed"

# MUST BE COMPLETED AND RESOLVED WITH CNRL IMMEDIATELY UPON DISCOVERY OF LOW WALL THICKNESS AREAS

Step 1: Was any thickness measurement location found to be less than (Nominal WT - Corrosion Allowance)?: No

If YES, proceed to Step 2; if NO, proceed to "Crack Evaluation" and "CNRL Criticality Designation".

Step 2: Which component(s) were found below (Nominal WT - Corrosion Allowance)?

Components found below Nom - CA:

Components				
N/A - N/A				
N/A - N/A				
N/A - N/A				
N/A - N/A				
N/A - N/A				

Perform Steps 3 – 8 for each component with actual thickness less than (Nominal WT – Corrosion Allowance).

Step 3: Describe Location and Extent of Corrosion:

Components

**Location and Extent of Corrosion** 

N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection

#### Notes:

Not Applicable for this Inspection

#### Step 4:

- For shells and nozzles, calculate minimum required thickness (T-min) as per ASME Section VIII UG-27.
- For heads, calculate minimum required thickness (T-min) as per ASME Section VIII UG-32.

I -IVIIII
N/A



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Thickness and Remaining Life Evaluation (Continued)

Matrix\_Inspection

Step 5: Is any measured thickness less than calculated minimum required thickness (T-min)? N/A

LSD:

If YES, complete Step 6 If NO, proceed to Step 7..

Insp. Company:

Step 6: Is nature and extent of pitting acceptable as per API 510? N/A

Step 7: Calculate Remaining Life as per API 510. How? (Find last reading; use nominal thickness if nothing available). Short Term Corrosion Rates and Long Term Corrosion Rates.

Components	Remaining Life (Yrs)
N/A - N/A	N/A

Step 8: Contact CNRL Integrity Coordinator to discuss above results.

- Name of CNRL contact: Not Applicable for this Inspection
- Date and time of conversation: Not Applicable for this Inspection

Summary/results of conversation:

Not Applicable for this Inspection

#### " Must be Completed" Crack Evaluation by Magnetic Particle or Alternative Inspection

#### MUST BE COMPLETED AND RESOLVED WITH CNRL IMMEDIATELY UPON DISCOVERY OF CRACK-LIKE INDICATIONS

Were any indications found to suggest the vessel contained cracks? N/A

If NO, proceed to "CNRL Criticality Designation".

If YES, Contact CNRL Integrity Coordinator to discuss results.

- Name of CNRL contact: Not Applicable for this Inspection
- Date and time of conversation: Not Applicable for this Inspection

Summary/results of conversation:

Not Applicable for this Inspection



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## CNRL Criticality Evaluation – "MUST BE COMPLETED"

The CNRL In-Service Pressure Vessel Inspector MUST answer all the following questions

- Is the vessel fit-for-service? : Yes
- 2. Was the measured thickness less than the calculated minimum required thickness (T-min) for any component?: **No**
- Were MT indications found?: N/A 3.
- Was the remaining life less than 6 years for sour service vessels or less than 10 years for sweet service vessels?: No 4.
- Were NCR's or Action Items generated as a result of the inspection? : Yes
- Were UT readings below (Nominal WT Corrosion Allowance) found? : No

#### Information on CNRL Owner User Program - Criticality Designation and Required Review

**RED** – Vessel Inspection Results are deemed RED if one of the following occurred:

- The measured thickness was less than the calculated minimum required thickness (T-min) for any component.
- MT indications were found.
- The remaining life was calculated to be less than 6 years for sour-service vessels or less than 10 years for sweet-service vessels.

RED inspection reports must be signed off by the CNRL Chief Inspector.

YELLOW - Vessel Inspection Results are deemed YELLOW if one or more of the following occurred:

- The vessel was declared NOT fit-for-service by the 3<sup>rd</sup> Party In-Service PV Inspector.
- NCR's or Action Items were generated as a result of the inspection.
- UT readings below (Nominal WT Corrosion Allowance) were found.

YELLOW inspection reports must be signed off by the CNRL Pressure Equipment Integrity Coordinator.

GREEN - Vessel Inspection Results are deemed GREEN if all of the following are true:

- The vessel was declared fit-for-service by the 3<sup>rd</sup> Party In-Service PV Inspector.
- UT readings below (Nominal WT Corrosion Allowance) were NOT found.
- MT indications were NOT found.
- NCR's or Action Items were NOT generated as a result of the VE inspection.

GREEN inspection reports must be signed off by the 3<sup>rd</sup> Party In-Service Pressure Vessel Inspector.

Critica	ality Designation	Yellow
Vehicle #:	321 Kms:	Inspector (Name): Dennis Bowlby PESL:
Time In:	00:00 Time Out: 00:00 Hrs	Inspector (Signature): Dennis Bowlby, C = CA, O = Matrix 2010.11.08 14:27:37-0700'
Time In:	00:00 Time Out: 00:00 Hrs	CNRL Coordinator (Name):
Personnel:	Mike Schmidt	CNRL Coordinator (Signature):
Billing Info:	:	CNRL Chief Inspector (Signature): (I am in full agreement with report contents)
		(I am in full agreement with report contents)



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### **Equipment Photographs:**





Figure\_001\_Nameplate

Figure\_002\_Overview





Figure\_003\_Bottom Shell

Figure\_004\_Temperature gauge



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Figure\_005\_Pressure gauge

Figure\_006\_Top Shell Section No Access





Figure\_007\_Anchor bolting

Figure\_008\_Liquid level