

Pressure Vessel Survey												
Location:	Point Tupper EM&I J Report			EM&I J Report N					00D-090714-JT-R0			
Client Name:				lient Ref No.:			PT-11564783-002-D2100D					
Client Rep.:				Inspector Name:		J	James Tulk					
WO No.:				Inspection Date:			July 14, 2009					
SPO No.:				System:	Propane							
Workscope No.:	PT-2009-D2100D-INT-01 EM&I J Job No :					EMJ0132.43						
Tag No.:	D-2100D Equipment Desc											
Date of Last Inspection:	NA	Ą		Previous Record								
Drawing No.:		2-4										
Drawing No.: LA-B23-F-22-8052-01-Z4, 980047-4-2, 980047-2-4 Inspection Summary												
Restriction?	© Yes ● No					Comments:						
	Item					Condition				Comments		
External Ladders, Access a	nd	Support Stru	cture			Good	Fair	Poor	NA	Internal inspection only		
 If applicable, check ladders, stairways, platforms and walkways that are connected to, or bearing on the vessel for signs of corrosion, missing components 									\boxtimes			
or deterioration.	sottlomont											
2. If applicable, check vessel supports for signs of deterioration, settlement, deflection, and/or corrosion.									\square			
If applicable, check coatings for signs of deterioration, rusts spots, cracks, blistering, and/or coating disbondment.									\square			
4. a) For horizontally mounted vessels, check for signs of trapped moisture, resulting in corrosion between cradle support and vessel shell.									\boxtimes			
b) For vertically mounted vessels on skirt support or support legs, check for condensation, resulting in corrosion on the bottom cap/ inside skirt support surface									\boxtimes			
or area of attachment of the support legs to the bottom cap. 5. Check the grounding connection is correctly installed, with cable connections												
5. Check the grounding connection is correctly installed, with cable connections tight and ground wires in good condition.									\boxtimes			
6. Check all bolted connection					•				\square			
7. If applicable, check the ves free.	sel	sliding foot fre	ee to move	and h	old-down bolts are				\square			
Vessel External Surfaces						Good	Fair	Poor	NA	Internal inspection only		
1. Check permanent identifying tags on vessel are legible and present the required information.						\square				See Detail of Findings and photo 4		
2. If applicable, check that all bolts/studs extend fully through their nuts, having a protrusion beyond the nut of not less than one thread; flange bolts have bolt heads all on the side of the joint.									\boxtimes			
3. If applicable, check bolted connections are in full contact with connected elements and connections for any signs of rust, corrosion or mechanical damage.									\boxtimes			
4. If applicable, check insulation support bands and clips for signs of corrosion or breakage.									\boxtimes			
5. Check all welded seams and connections for any signs of deterioration, corrosion, cracking, pitting or other sign of failure. Specify.									\boxtimes			
6) If applicable, check insulation type, condition for any insulation damage and ingress of water. Record insulation type.									\boxtimes			
 Carry out visual inspection of the exterior surface of the vessel, including coatings for any signs of leaks, cracks, deformation, distortion, pitting, corrosion or other forms of deterioration. If so, specify type, location and extent. 									\boxtimes			
8. If applicable, check weep I	hole	es in reinforce	ment plates	s are r	not plugged.				\square			
External Piping / Instrumen						Good	Fair	Poor	NA	Internal inspection only		
1. If applicable, check vessel trim, such as gauges, sight glasses, valves and other appurtenances, show signs of deterioration, or missing components, etc.												
 If applicable, check if the PSV on the vessel is in calibration. Record tag number of PSV and calibration date. 										See Detail of Findings and photo 5		
3. Inspect fittings, nozzles and other connections, including the surrounding vesse									\boxtimes			



Inspection Summary								
Restriction?	C Yes	Comments:						
		Cond	dition	Comments				
shell / head for any signs of dist coatings, etc. Specify extent and								
Vessel Internal Surfaces		Good	Fair	Poor	NA			
 Check for signs of corrosion, forms of deterioration on the inte and extent. 	\boxtimes				See note 1			
Check all welded joints for an or other sign of failure. Specify.	\boxtimes				See note 2			
 Check all man-ways, nozzles wall loss and other type of defect type, extent and location. 	\boxtimes				See note 3			
 If applicable, compare the reprevious reports for areas of wa report. 				\boxtimes				
5. Where applicable, check ves cracks, holes, etc. If any, specif				\boxtimes				
Where applicable, check the such as: rust spots, blisters, coa location and extent.				\boxtimes				
If possible, check gasket sea mechanical damage.	\square				Manway only, see note 4			
Internal Equipment/Piping /Su	ipports		Good	Fair	Poor	NA		
1. Where applicable, check supports for vessel's internal equipment and components for signs of corrosion, distortion and deterioration.							Screen support legs, see note 5	
2. If applicable, check vessel's deterioration, missing component	\boxtimes				Vortex breaker N2, see note 6			
 If applicable, check if bolted of elements and connections are fur prohibit full contact. 				\boxtimes				
	[Detail of Findings						

Instructions: With the aid of Drawing(s), Sketch(es) and Photo(s) describe findings

Note 1) No signs of cracks, blisters, distortion, erosion/corrosion (other than pitting) or any forms of deterioration evident on interior shell. However, a mechanical mark having a diameter approximately 1.5" and a depth of 1.4 mm (max. depth evident) was noted adjacent to circumference weld seam 9. See photo 1 and 2.

Generalized pitting found throughout shell particularly between circ seams 9 to 11. A random selection of the most pronounced pitting was measured and the maximum depth was found to be approximately 1.2 mm. Acceptable for service. See photo 3.

Note 2) No evidence of corrosion, cracking, pitting or deterioration was found on welded joints. Acceptable for service.

Note 3) No signs of distortion, cracks, corrosion, wall loss or any type of defect on manway, nozzels or connections was found. Acceptable for continuing service.

Note 4) No evidence of corrosion/erosion or any mechanical damage on manway gasket and cover seals. Acceptable for service.

Note 5) No signs of cracking, corrosion, erosion, distortion or any deterioration on sceen support legs.

Note 6) No evidence of corrosion, distortion, missing components or any deterioration on votex .

Note: Only lower half of vessel in question could be properly inspected during time of entry. No scaffold in place to access upper half.



Detail of Findings

Instructions: With the aid of Drawing(s), Sketch(es) and Photo(s) describe findings

ID Tag:

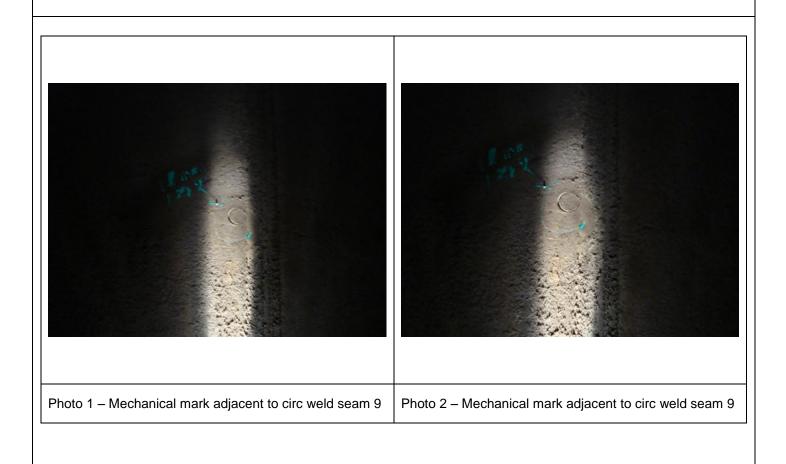
Certified by: RNG Pro-Tech Inc

MAWP: 210/-11 PSI @ 149°F MDMT: -17°F @ 250/-11 PSI Serial No: 98-9 Year Built: 1999 CRN: 8124.8

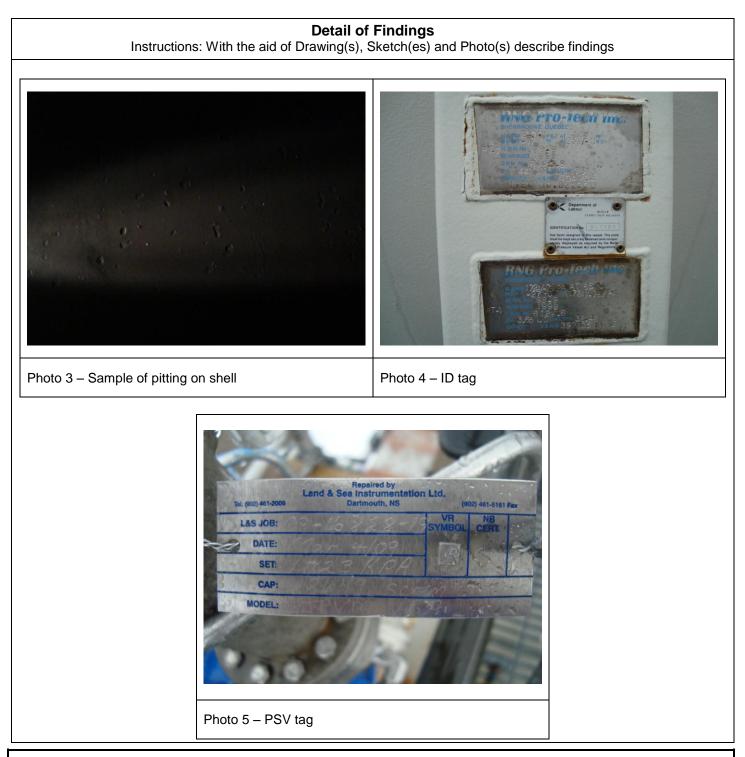
MAWP: 1724/-76 KPA @ 65°C MDMT: -27°C @ 1724/-76 KPA Year Built: 1999 CRN: 8124.8

PSV Tag:

L&S Job: 09-16828-19 Date: March 4, 2009 Set Pressure: 1723 KPA Capacity: 18649 SCFM Model: JPVM 15A







List of Attachments

Attachment 1: PT-D2100D-090706-NE-MPI (hinges)

Attachment 2: PT-D2100D-090714-NE-MPI (internal)

Attachment 3: 980047-2-4

End of Report



		Magnetic Pa	rticle Ir	nspectio	on				
Location: Point Tupper				•			D2100D-090706-NE-MPI		
Client Name:	Exxon Mobil Sable			•			PT-11564783-001-D2100D		
Client Rep.:	Dale Groves						Neil English		
WO No.: 11564783			Inspe	Inspection Date:			July 6, 2009		
SPO No.: 4501905471			Inspe	Inspection Time:			Various		
Workscope No.:	PT-2009-D	2100D-INT-01	Syste	System:			Propane Storage Vessel D-2100D		
Previous Report No.	NA		EM&IJ Job No:			EMJ0132.43			
Ref. Drawing No.:		22-8052-01-Z4, 2, 980047-2-4	ltem	Item Inspected:			D-2100D		
Technician Certifications:	CGSB MP	LVL 2	Certi	Certification Expiry D			December 31, 2	2011	
nspection Code: AS				Inspection Procedure			MT401ASME		
•	TM Section I								
	Condition: Wire Brush Clea		eaned	Temp.:			eld Indicator:		
Lighting Type: Natural	Black Light S/N:		NA						
Contrast: White Manufa	acturer: Ardr	OX	Type: 8	3901W			Batch: 86082407		
	acturer: Ardr	-		3031, Blac			Batch: 32111507		
Equipment: Type: Electro	Spec ES-X	S/N: 12768	Calibra	tion Due	: 10 Lb C	al Lift	Current Type	: AC	
		Inspecti	on Sum	marv					
Restriction?	C Yes	• • • • • • • • • • • • • • • • • • •							
Comments:	100			Com	ments:				
Comments: Black on white Magnetic Part hinges.			d on prop	I		el D-21	00D on the 24" i	man-way	
Black on white Magnetic Parl	ticle Inspectio	on was conducte		I		el D-21	00D on the 24" ı	man-way	
Black on white Magnetic Part hinges.	ticle Inspection	on was conducte as were observed	d.	I		el D-21	00D on the 24" 1	man-way	
Black on white Magnetic Part hinges. At the time of the inspection,	ticle Inspection	on was conducte as were observed	d.	I		el D-21	00D on the 24" 1	man-way	
Black on white Magnetic Part hinges. At the time of the inspection,	ticle Inspection	on was conducte as were observed	d.	I		el D-21	00D on the 24" i	man-way	
Black on white Magnetic Part hinges. At the time of the inspection,	ticle Inspection	on was conducte as were observed	d.	I		el D-21	00D on the 24" ı	man-way	
Black on white Magnetic Part hinges. At the time of the inspection,	ticle Inspection	on was conducte as were observed	d.	I		el D-21	00D on the 24" i	man-way	
Black on white Magnetic Part hinges. At the time of the inspection,	ticle Inspection	on was conducte as were observed	d.	I		el D-21	00D on the 24" i	man-way	

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MPI Survey								
Location: Point Tupper		r	EM&IJ Report No.:	PT-D2100D-090714-NE-MPI				
Client Name:	Client Name: Exxon Mobil		Sable	Client Ref No.: PT-11564		783-002-D2100D		
Client Rep.: Dale Grove		Dale Groves		Inspector Name: Neil E		Inglish		
WO No.:	WO No.: 11564783			Inspection Date: July 14, 2		2009		
SPO No.: 4501		4501905471		Inspection Time: Various				
Workscope No.: F		PT-2009-D2100D-INT-01		System:	Propane	Storage Vessel		
Previous Report No.		NA		EM&IJ Job No:	EMJ0132	.43		
Ref. Drawing No.:		LA-B23-F-22	2-8052-01-Z4, 98	0047-4-2, 980047-2-4				
Technician Certifications:		CGSB MPI LVL 2		Certification Expiry Date:		December 31, 2011		
Inspection Code:		ASME VIII		Inspection Procedure:		MT401ASME		
Material:		C/S		Surface Condition:	Wire brush cleaned			
Consumables:	Contrast:	White	Type: 8901W	Manufacturer: Ardro	x	Batch: 65082407		
Equipment:	Type: Electro Spec ES-X		S/N: 12764	Calibration Due: 10 L	_b Cal lift	Current Type: AC		

Inspection Summary

Comments:

Black on white Magnetic Particle Inspection was conducted on the propane storage vessel D-2100D. Nozzles N6, N3B, N4B, N3, N10 and M1 were inspected. Also, two foot spot checks on every second circular seam were inspected in the 3, 6, and 9 o'clock positions, as well as any accessible tee joint.

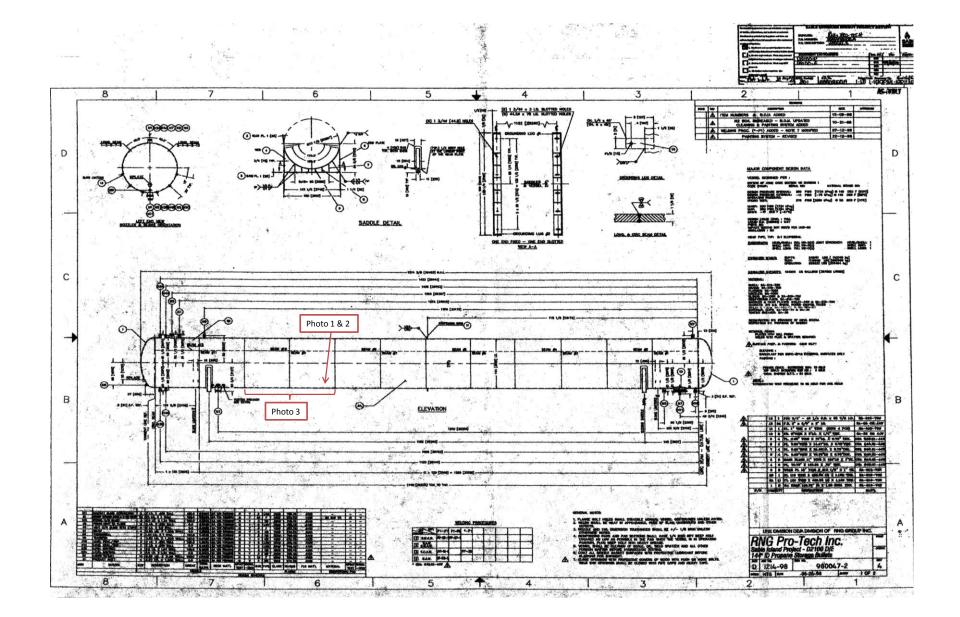
At time of inspection, no relevant Indications were observed.

Foil strip Type 1 indicator (brass finish) used to test sensitivity.

Neil English CGSB: #11752

Ink Manufacturer: Ardrox Type: 8031 Black Ink Solution: Prepared bath, Aerosol Batch:32111507

End of Report



Attachment 3

PT-11564783-002-D2100D