

Pressure Vessel Survey									
Location:	Point Tupper	EM&IJ Repor	rt No.:		P٦	PT-D2008-090313-BR-R1			
Client Name:		<b>Client Ref No</b>	<b>)</b> .:		PT	PT-11573609-001-D2008			
Client Rep.:		Inspector Na	me:		Ba	Barry Ritchie			
WO No.:		Inspection Da	ate:		Ma	March 13, 2009			
SPO No.:		System:			Pr	opane	+ Liquids		
Workscope No.:	PT-2008-VESSEL-EXT-02	EM&IJ Job N	o:		EN	ЛJ013	2.31		
Tag No.:	D-2008	Equipment D	escrip	tion:	Of	f-spec	: Storage Vessel		
Date of Last Inspection:	NA	<b>Previous Rec</b>	cords	Seen:	NA	4			
Drawing No.:	LA-B22-F-22-8006-01-Z4, 980047	-1-4, 980047-4	4-2, 98	-CA-3	99735	5-4B			
	Inspection	Summary							
	Item			Cond		1	Comments		
External Ladders, Access a			Good	Fair	Poor	NA			
	ders, stairways, platforms and walk he vessel for signs of corrosion, missir		$\boxtimes$						
	I supports for signs of deterioration, set	tlement,	$\square$				See photos 1 to 4		
	gs for signs of deterioration, rusts spot	s, cracks,							
4. a) For horizontally mounted	d vessels, check for signs of trapped m n cradle support and vessel shell.	oisture,							
	essels on skirt support or support legs,	check for							
condensation, resulting in cor	rosion on the bottom cap/ inside skirt s support legs to the bottom cap.					$\square$			
5. Check the grounding connectight and ground wires in goo	ection is correctly installed, with cable of condition.	connections	$\boxtimes$				See photo 5 & 8		
	ns for any signs of corrosion or mechar	-	$\square$						
7. If applicable, check the ves free.	ssel sliding foot free to move and hold-o	down bolts are				$\square$			
Vessel External Surfaces			Good	Fair	Poor	NA			
<ol> <li>Check permanent identifyi required information.</li> </ol>	ing tags on vessel are legible and pres	ent the	$\square$				See photo 9		
	I bolts/studs extend fully through their r not less than one thread; flange bolts h								
	connections are in full contact with con r any signs of rust, corrosion or mechar		$\square$						
<ol> <li>If applicable, check insulati breakage.</li> </ol>	ion support bands and clips for signs o	f corrosion or				$\square$			
5. Check all welded seams an corrosion, cracking, pitting or	nd connections for any signs of deterio other sign of failure. Specify.	ration,	$\square$				Only one area of concern, see photo 32		
<ol><li>If applicable, check insulat ingress of water. Record insu</li></ol>	ion type, condition for any insulation da lation type.	mage and				$\square$			
coatings for any signs of leak	n of the exterior surface of the vessel, in s, cracks, deformation, distortion, pittin If so, specify type, location and extent.						Overall coating in good condtion with four small isolated patches of coating breakdown.		
8. If applicable, check weep				$\square$					
External Piping / Instrumen	Good	Fair	Poor	NA					
other appurtenances, show s	l trim, such as gauges, sight glasses, v igns of deterioration, or missing compo	nents, etc.	$\boxtimes$						
number of PSV and calibration		C C	$\square$				See photo 24		
	d other connections, including the surre listortion or cracks, wall loss, leakage, o		$\square$						



Inspection Summary	Inspection Summary										
Item	Condition				Comments						
coatings, etc. Specify extent and location.											
Vessel Internal Surfaces	Good	Fair	Poor	NA							
1. Check for signs of corrosion, erosion, cracks, blisters, pitting, distortion, or other forms of deterioration on the internal vessel surfaces. If any, specify type, location and extent.				$\boxtimes$							
2. Check all welded joints for any signs of deterioration, corrosion, cracking, pitting or other sign of failure. Specify.				$\boxtimes$							
3. Check all man-ways, nozzles and connections for distortion, cracks, corrosion, wall loss and other type of defects or failures. If any defects are noted, specify type, extent and location.				$\boxtimes$							
4. If applicable, compare the results of performed wall thickness survey with previous reports for areas of wall thickness loss. Identify areas on inspection report.				$\boxtimes$							
5. Where applicable, check vessel internal cladding for signs of bulging, buckling, cracks, holes, etc. If any, specify type, location and extent.				$\boxtimes$							
6. Where applicable, check the vessel internal coating for signs of deterioration, such as: rust spots, blisters, coating disbandment, etc. If any, specify type, location and extent.				$\boxtimes$							
<ol><li>If possible, check gasket seals on all flanges for signs of corrosion and/or mechanical damage.</li></ol>				$\boxtimes$							
Internal Equipment/Piping /Supports	Good	Fair	Poor	NA							
1. Where applicable, check supports for vessel's internal equipment and components for signs of corrosion, distortion and deterioration.				$\boxtimes$							
2. If applicable, check vessel's internals for signs of corrosion, distortion and deterioration, missing components etc.				$\boxtimes$							
3. If applicable, check if bolted connections are in full contact with connected elements and connections are free from rust or other deleterious material that may prohibit full contact.				$\boxtimes$							
Datail of Findingo											

### Detail of Findings

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

### ID Tag D-2008

Manufacturer - RNG Pro-Tech Inc Manufacturer Date - 1999 Serial No – 98-11 MAWP – 250/-11 PSI @ 149°F // 1724/-76 KPA @ 65°C MDMT – -17°F @ 250/-11 PSI // -27°C @ 1724/-76 KPA

### PSV Tag D-2008

L&S Job - 07-13878-2 Date - Jan 8/08 Set Pressure – 250 PSI Capacity - 18656 SCFM Model - JPVM 15A



### **Detail of Findings**

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





# **Detail of Findings** Instructions: With the aid of Drawing(s), Sketch(es) and Photo(s) describe findings Photo 5 – Showing earthing strap connection on North Photo 6 – Showing earthing strap North support support

Photo 7 – Showing earthing strap South support

Photo 8 – Showing close up of South side earth connection South vessel support





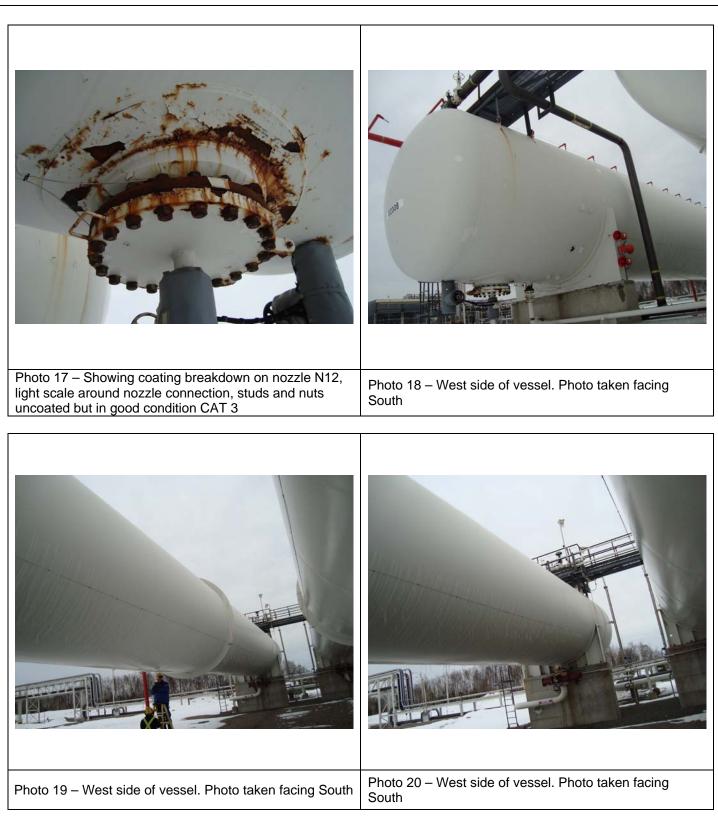






### **Detail of Findings**

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



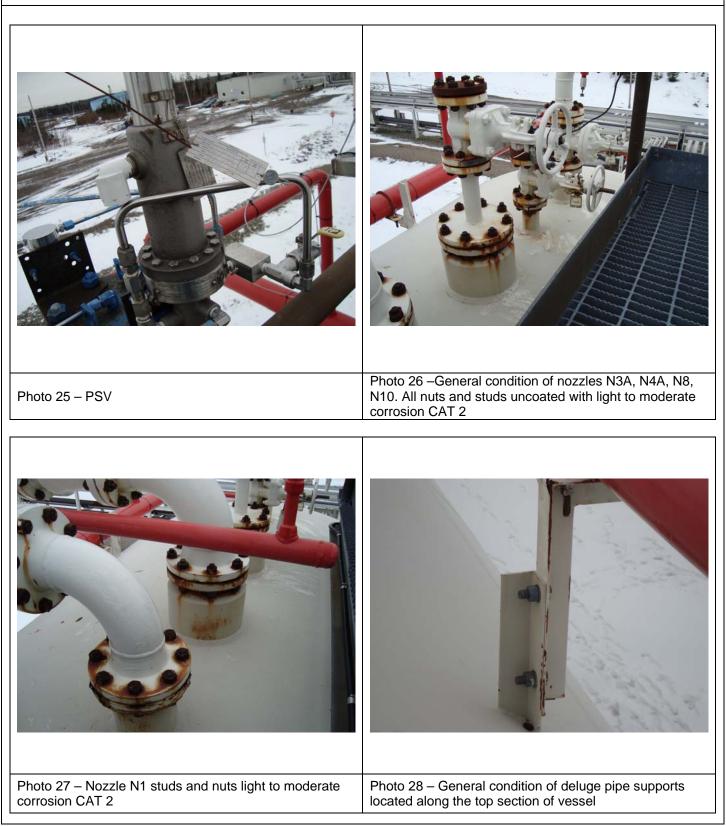




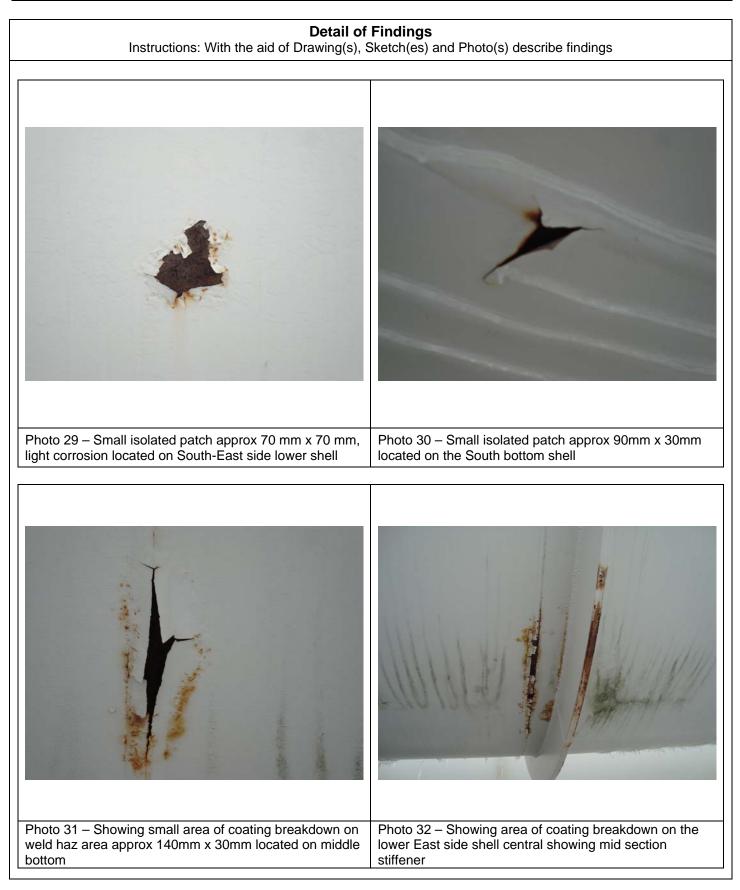


### **Detail of Findings**

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



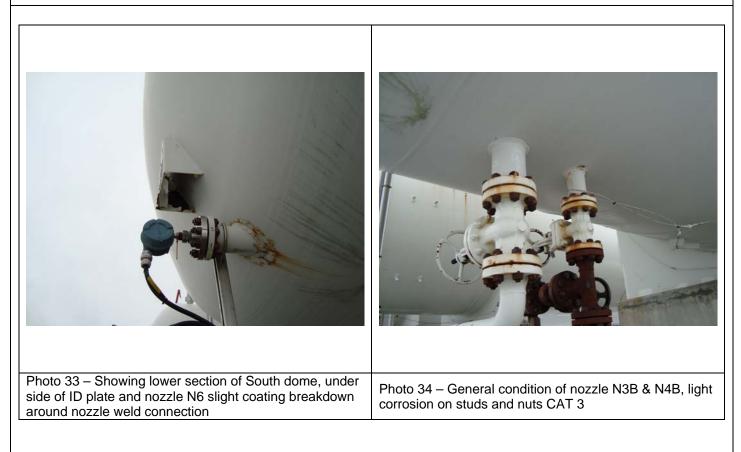






### **Detail of Findings**

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



List of Attachments
Attachment 1: PT-D2008-090313-VR-UT (Page 1 to 7)
Attachment 2: Sketch of UT Grid - Side View
Attachment 3: Sketch of UT Grid - End View
Attachment 4: PT-D2008-090525-MR-UT (Page 1 to 3)
Attachment 5: 980047-1-4

### End of Report



	Ultrasonic Inspection Survey for Vessel Inspection									
Location:		Point Tup	oper			EM&I J Report No.		PT-D200	08-090313-VR-UT	
Client Name:		Exxon M	Exxon Mobil Sable			Client Ref No.:		PT-1157	'3609-001-D2008	
Client Rep.:		Dale Gro	ves			Inspector Name:		Victor Ri	itchie	
WO No.:		1157360	9			Inspection Date:		March 1	3, 2009	
SPO No.:		4501854	963			Inspection Time:		Various		
Workscope No.:		PT-2008-	VESSEL-E	XT-02		System:		Propane	+ Liquids	
Previous Report N	lo.	NA				EM&I J Job No:		EMJ013	2.31	
Ref. Drawing No.:		LA-B22-F	-22-8006-0	)1-Z4, 9	980	047-1-4, 980047-4-2	, 98-CA-3	99735-4B		
Technician Certifi	cations:	PCN UT	2			<b>Certification Expir</b>	y Date:	January	29, 2014	
Inspection Code:		NA				Inspection Proced	ure:	EM&I		
Item Inspected:		D-2008				Material (Incl. Vol.)	):	CS		
Surface Condition	1:	As coate	d			Surface Temp:		Ambient		
Instrument	Туре	: Epoch L	ТС	Equip	ome	ent S/N: 090100701	Cal Due	<b>Date:</b> Ja	nuary 24, 2010	
Instrument Setting	gs Refe	rence Lev	r <b>el:</b> 80fsh	Gain:	50	db	Reject S	Settings:	NA	
Search Unit Cable	es Type	):		Lengt	th:	5'	Transfe	r Value:		
Calibration Block:		Step wec	lge 2.5-12.5	5mm	C	alibration Block S/N	:	CB2		
Simulation Block:		NA			С	ouplant:		Ultragel		
Computerized Pro	gram:	NA								
Transducer Mfg:	Transducer Mfg: Type: Model No.:					Angle:	Frequence	cy:	Size:	
Panametrics	dual elen	al element D790SM				0	5MHz		10mm	

Inspection Summary								
<b>Restricted Access?</b>	🎦 Yes	🖸 No	Comments:					

### Comments:

UT measurements were taken on side wall using echo technique and readings were recorded.

This does not constitute a UT survey.

See below and Attachment 2 & 3 for locations and readings. All readings are in millimeters.



Item Identification         Test (inches)         Nominal Wall Thickness (mm)         Minimum Wall Thickness (mm)         Average Wall Thickness (mm)           North Dome End         A1         147.5         31.75         32.6         32.8           North Dome End         A2         147.5         31.75         32.6         32.8           North Dome End         A3         147.5         31.75         32.2         32.7           North Dome End         B1         147.5         31.75         32.1         32.5           North Dome End         B2         147.5         31.75         32.1         32.5           North Dome End         B3         147.5         31.75         32.1         32.6           North Dome End         B4         147.5         31.75         32.4         32.8           North Dome End         C2         147.5         31.75         32.4         32.8           North Dome End         C2         147.5         31.75         32.8         33.1           North Dome End         C2         147.5         31.75         32.8         33.1           North Dome End         D1         147.5         31.75         32.8         33.1           North Dome End <t< th=""><th colspan="10">Inspection Summary</th></t<>	Inspection Summary										
North Dome End         A1         147.5         31.75         32.6         32.8           North Dome End         A2         147.5         31.75         32.9         33.1           North Dome End         A3         147.5         31.75         32.9         33.1           North Dome End         A4         147.5         31.75         32.2         32.7           North Dome End         B1         147.5         31.75         32.1         32.5           North Dome End         B2         147.5         31.75         32.1         32.5           North Dome End         B3         147.5         31.75         32.4         32.8           North Dome End         C1         147.5         31.75         32.6         32.9           North Dome End         C2         147.5         31.75         32.6         32.8           North Dome End         C2         147.5         31.75         32.8         33.0           North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.3         32.7           North Dome End         D3         147.5         31.75	Item Test Diameter Thickness Thickness Thi										
North Dome End         A3         147.5         31.75         32.9         33.1           North Dome End         A4         147.5         31.75         32.2         32.7           North Dome End         B1         147.5         31.75         32.1         32.5           North Dome End         B2         147.5         31.75         32.1         32.6           North Dome End         B3         147.5         31.75         32.1         32.6           North Dome End         B3         147.5         31.75         32.4         32.8           North Dome End         C2         147.5         31.75         32.6         32.8           North Dome End         C2         147.5         31.75         32.8         33.0           North Dome End         C3         147.5         31.75         32.8         33.0           North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.2         32.6           North Dome End         D3         147.5         31.75         32.2         32.7           North Dome End         D4         147.5         31.75			· · · · · · · · · · · · · · · · · · ·			· · /					
North Dome End         A4         147.5         31.75         32.2         32.7           North Dome End         B1         147.5         31.75         32.1         32.5           North Dome End         B2         147.5         31.75         32.1         32.5           North Dome End         B3         147.5         31.75         32.1         32.6           North Dome End         B4         147.5         31.75         32.4         32.8           North Dome End         C2         147.5         31.75         32.6         32.8           North Dome End         C2         147.5         31.75         32.8         33.0           North Dome End         C4         147.5         31.75         32.8         33.0           North Dome End         C4         147.5         31.75         32.8         33.1           North Dome End         D2         147.5         31.75         32.2         32.6           North Dome End         D3         147.5         31.75         32.3         32.7           North Dome End         D4         147.5         31.75         32.2         32.8           North Dome End         E3         147.5         31.75	North Dome End	A2	147.5	31.75	32.5	32.9					
North Dome End         B1         147.5         31.75         32.1         32.5           North Dome End         B2         147.5         31.75         32.1         32.5           North Dome End         B3         147.5         31.75         32.4         32.6           North Dome End         C1         147.5         31.75         32.4         32.8           North Dome End         C1         147.5         31.75         32.6         32.9           North Dome End         C2         147.5         31.75         32.6         32.8           North Dome End         C3         147.5         31.75         32.8         33.0           North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.3         32.7           North Dome End         D4         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E2         147.5         31.75	North Dome End	A3	147.5	31.75	32.9	33.1					
North Dome End         B2         147.5         31.75         32.1         32.5           North Dome End         B3         147.5         31.75         32.1         32.6           North Dome End         B4         147.5         31.75         32.4         32.8           North Dome End         C1         147.5         31.75         32.6         32.9           North Dome End         C2         147.5         31.75         32.6         32.8           North Dome End         C2         147.5         31.75         32.8         33.0           North Dome End         C4         147.5         31.75         32.8         33.1           North Dome End         D1         147.5         31.75         32.8         33.1           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D3         147.5         31.75         32.3         32.6           North Dome End         D4         147.5         31.75         32.3         32.7           North Dome End         E2         147.5         31.75         32.2         32.6           North Dome End         E3         147.5         31.75	North Dome End	A4	147.5	31.75	32.2	32.7					
North Dome End         B3         147.5         31.75         32.1         32.6           North Dome End         B4         147.5         31.75         32.4         32.8           North Dome End         C1         147.5         31.75         32.6         32.9           North Dome End         C2         147.5         31.75         32.6         32.8           North Dome End         C3         147.5         31.75         32.8         33.0           North Dome End         C4         147.5         31.75         32.8         33.1           North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D4         147.5         31.75         32.3         32.7           North Dome End         E2         147.5         31.75         32.2         32.8           North Dome End         E3         147.5         31.75         32.0         32.6           North Dome End         F1         147.5         31.75	North Dome End	B1	147.5	31.75	32.1	32.5					
North Dome End         B4         147.5         31.75         32.4         32.8           North Dome End         C1         147.5         31.75         32.6         32.9           North Dome End         C2         147.5         31.75         32.6         32.8           North Dome End         C3         147.5         31.75         32.8         33.0           North Dome End         C4         147.5         31.75         32.8         33.1           North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D3         147.5         31.75         32.3         32.7           North Dome End         D4         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.6           North Dome End         E3         147.5         31.75         32.2         32.6           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F1         147.5         31.75	North Dome End	B2	147.5	31.75	32.1	32.5					
North Dome End         C1         147.5         31.75         32.6         32.9           North Dome End         C2         147.5         31.75         32.6         32.8           North Dome End         C3         147.5         31.75         32.8         33.0           North Dome End         C4         147.5         31.75         32.8         33.1           North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D4         147.5         31.75         32.3         32.6           North Dome End         D4         147.5         31.75         32.3         32.7           North Dome End         E1         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         F1         147.5         31.75         32.0         32.5           North Dome End         F2         147.5         31.75	North Dome End	B3	147.5	31.75	32.1	32.6					
North Dome End         C2         147.5         31.75         32.6         32.8           North Dome End         C3         147.5         31.75         32.8         33.0           North Dome End         C4         147.5         31.75         32.8         33.1           North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D3         147.5         31.75         32.3         32.6           North Dome End         D4         147.5         31.75         32.3         32.7           North Dome End         D4         147.5         31.75         32.2         32.8           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E2         147.5         31.75         32.2         32.6           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75	North Dome End	B4	147.5	31.75	32.4	32.8					
North Dome End         C3         147.5         31.75         32.8         33.0           North Dome End         C4         147.5         31.75         32.8         33.1           North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D3         147.5         31.75         32.3         32.6           North Dome End         D4         147.5         31.75         32.2         32.6           North Dome End         D4         147.5         31.75         32.2         32.6           North Dome End         E1         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.6           North Dome End         E3         147.5         31.75         32.2         32.7           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.0         32.4           North Dome End         F4         147.5         31.75	North Dome End	C1	147.5	31.75	32.6	32.9					
North Dome End         C4         147.5         31.75         32.8         33.1           North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D3         147.5         31.75         32.3         32.6           North Dome End         D4         147.5         31.75         32.3         32.7           North Dome End         D4         147.5         31.75         32.2         32.6           North Dome End         E1         147.5         31.75         32.2         32.7           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E3         147.5         31.75         32.0         32.6           North Dome End         E4         147.5         31.75         32.0         32.4           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F4         147.5         31.75         32.0         32.5           North Dome End         A1         147.5         31.75	North Dome End	C2	147.5	31.75	32.6	32.8					
North Dome End         D1         147.5         31.75         32.4         32.8           North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D3         147.5         31.75         32.3         32.6           North Dome End         D4         147.5         31.75         32.3         32.7           North Dome End         E1         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E3         147.5         31.75         32.2         32.7           North Dome End         E4         147.5         31.75         32.0         32.4           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.0         32.4           North Dome End         F4         147.5         31.75         32.0         32.4           South Dome End         A1         147.5         31.75	North Dome End	C3	147.5	31.75	32.8	33.0					
North Dome End         D2         147.5         31.75         32.3         32.6           North Dome End         D3         147.5         31.75         32.5         32.8           North Dome End         D4         147.5         31.75         32.3         32.7           North Dome End         E1         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E3         147.5         31.75         32.2         32.6           North Dome End         E4         147.5         31.75         32.0         32.5           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.4         32.7           North Dome End         F3         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.4         32.9	North Dome End	C4	147.5	31.75	32.8	33.1					
North Dome End         D3         147.5         31.75         32.5         32.8           North Dome End         D4         147.5         31.75         32.3         32.7           North Dome End         E1         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E3         147.5         31.75         32.2         32.7           North Dome End         E4         147.5         31.75         32.0         32.5           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.0         32.4           North Dome End         F3         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.4         32.9           South Dome End         A1         147.5         31.75         31.7         32.4           South Dome End         A2         147.5         31.75	North Dome End	D1	147.5	31.75	32.4	32.8					
North Dome End         D4         147.5         31.75         32.3         32.7           North Dome End         E1         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E3         147.5         31.75         32.2         32.7           North Dome End         E3         147.5         31.75         32.3         32.6           North Dome End         E4         147.5         31.75         32.0         32.5           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.0         32.5           North Dome End         F2         147.5         31.75         32.0         32.4           North Dome End         F4         147.5         31.75         32.4         32.7           North Dome End         F4         147.5         31.75         32.0         32.5           North Dome End         A1         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75	North Dome End	D2	147.5	31.75	32.3	32.6					
North Dome End         E1         147.5         31.75         32.2         32.6           North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E3         147.5         31.75         32.3         32.6           North Dome End         E4         147.5         31.75         32.0         32.5           North Dome End         E4         147.5         31.75         32.0         32.4           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.0         32.5           North Dome End         F3         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.0         32.5           North Dome End         A1         147.5         31.75         32.0         32.5           North Dome End         A1         147.5         31.75         32.4         32.9           South Dome End         A2         147.5         31.75         31.9         32.3           South Dome End         A3         147.5         31.75	North Dome End	D3	147.5	31.75	32.5	32.8					
North Dome End         E2         147.5         31.75         32.2         32.7           North Dome End         E3         147.5         31.75         32.3         32.6           North Dome End         E4         147.5         31.75         32.0         32.5           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.0         32.4           North Dome End         F3         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.4         32.9	North Dome End	D4	147.5	31.75	32.3	32.7					
North Dome End         E3         147.5         31.75         32.3         32.6           North Dome End         E4         147.5         31.75         32.0         32.5           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.4         32.7           North Dome End         F3         147.5         31.75         32.4         32.7           North Dome End         F3         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.4         32.9           North Dome End         F4         147.5         31.75         32.4         32.9           North Dome End         A1         147.5         31.75         32.4         32.9           South Dome End         A1         147.5         31.75         32.4         32.9           South Dome End         A2         147.5         31.75         32.1         32.4           South Dome End         A3         147.5         31.75         31.7         32.4           South Dome End         B1         147.5         31.75	North Dome End	E1	147.5	31.75	32.2	32.6					
North Dome End         E4         147.5         31.75         32.0         32.5           North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.0         32.4           North Dome End         F3         147.5         31.75         32.4         32.7           North Dome End         F3         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.4         32.9           South Dome End         F4         147.5         31.75         32.4         32.9           South Dome End         A1         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         32.1         32.4         32.9           South Dome End         A1         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         31.9         32.3           South Dome End         B1         147.5         31.75         31.7         32.4           South Dome End         B	North Dome End	E2	147.5	31.75	32.2	32.7					
North Dome End         F1         147.5         31.75         32.0         32.4           North Dome End         F2         147.5         31.75         32.4         32.7           North Dome End         F3         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.4         32.7           North Dome End         F4         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.4         32.9           South Dome End         A1         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         31.9         32.3           South Dome End         A3         147.5         31.75         31.7         32.4           South Dome End         B4         147.5         31.75         31.8         32.3           South Dome End         B2         147.5         31.75         31.8         32.3           South Dome End         B3         147.5         31.7	North Dome End	E3	147.5	31.75	32.3	32.6					
North Dome End         F2         147.5         31.75         32.4         32.7           North Dome End         F3         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.4         32.9           South Dome End         A1         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         31.9         32.3           South Dome End         A3         147.5         31.75         31.9         32.3           South Dome End         A3         147.5         31.75         31.7         32.4           South Dome End         B4         147.5         31.75         31.7         32.4           South Dome End         B1         147.5         31.75         31.8         32.3           South Dome End         B2         147.5         31.75         31.8         32.0           South Dome End         B3         147.5         31.75	North Dome End	E4	147.5	31.75	32.0	32.5					
North Dome End         F3         147.5         31.75         32.0         32.5           North Dome End         F4         147.5         31.75         32.4         32.9           South Dome End         A1         147.5         31.75         32.1         32.4           South Dome End         A1         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         31.9         32.3           South Dome End         A3         147.5         31.75         31.9         32.3           South Dome End         A3         147.5         31.75         31.7         32.4           South Dome End         B1         147.5         31.75         31.7         32.4           South Dome End         B1         147.5         31.75         31.8         32.3           South Dome End         B2         147.5         31.75         31.8         32.0           South Dome End         B3         147.5         31.75         31.8         32.2           South Dome End         B4         147.5         31.75	North Dome End	F1	147.5	31.75	32.0	32.4					
North Dome End         F4         147.5         31.75         32.4         32.9           South Dome End         A1         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         31.9         32.3           South Dome End         A3         147.5         31.75         31.7         32.4           South Dome End         A3         147.5         31.75         31.7         32.4           South Dome End         A4         147.5         31.75         31.7         32.4           South Dome End         B1         147.5         31.75         31.8         32.3           South Dome End         B2         147.5         31.75         31.8         32.3           South Dome End         B2         147.5         31.75         31.8         32.2           South Dome End         B3         147.5         31.75         31.8         32.2           South Dome End         B4         147.5         31.75         31.5         32.0           South Dome End         C1         147.5         31.75	North Dome End	F2	147.5	31.75	32.4	32.7					
South Dome End         A1         147.5         31.75         32.1         32.4           South Dome End         A2         147.5         31.75         31.9         32.3           South Dome End         A3         147.5         31.75         31.7         32.4           South Dome End         A3         147.5         31.75         31.7         32.4           South Dome End         A3         147.5         31.75         31.7         32.4           South Dome End         A4         147.5         31.75         32.0         32.6           South Dome End         B1         147.5         31.75         31.8         32.3           South Dome End         B2         147.5         31.75         31.8         32.3           South Dome End         B2         147.5         31.75         31.8         32.0           South Dome End         B3         147.5         31.75         31.8         32.2           South Dome End         B4         147.5         31.75         31.8         32.0           South Dome End         C1         147.5         31.75         32.0         32.5           South Dome End         C1         147.5         31.75	North Dome End	F3	147.5	31.75	32.0	32.5					
South Dome EndA2147.531.7531.932.3South Dome EndA3147.531.7531.732.4South Dome EndA4147.531.7532.032.6South Dome EndB1147.531.7531.832.3South Dome EndB2147.531.7531.832.3South Dome EndB2147.531.7531.832.3South Dome EndB2147.531.7531.832.2South Dome EndB3147.531.7531.832.2South Dome EndB4147.531.7531.532.0South Dome EndC1147.531.7532.032.5South Dome EndC2147.531.7532.032.5South Dome EndC2147.531.7532.432.4South Dome EndC2147.531.7532.432.4	North Dome End	F4	147.5	31.75	32.4	32.9					
South Dome EndA2147.531.7531.932.3South Dome EndA3147.531.7531.732.4South Dome EndA4147.531.7532.032.6South Dome EndB1147.531.7531.832.3South Dome EndB2147.531.7531.832.3South Dome EndB2147.531.7531.832.3South Dome EndB2147.531.7531.832.2South Dome EndB3147.531.7531.832.2South Dome EndB4147.531.7531.532.0South Dome EndC1147.531.7532.032.5South Dome EndC2147.531.7532.032.5South Dome EndC2147.531.7532.432.4South Dome EndC2147.531.7532.432.4	South Dome End	A1	147.5	31 75	32.1	32.4					
South Dome EndA3147.531.7531.732.4South Dome EndA4147.531.7532.032.6South Dome EndB1147.531.7531.832.3South Dome EndB2147.531.7531.532.0South Dome EndB3147.531.7531.832.2South Dome EndB4147.531.7531.832.2South Dome EndB4147.531.7531.532.0South Dome EndC1147.531.7531.532.0South Dome EndC2147.531.7532.032.5South Dome EndC2147.531.7532.032.5South Dome EndC2147.531.7532.432.4South Dome EndC2147.531.7532.432.4											
South Dome EndA4147.531.7532.032.6South Dome EndB1147.531.7531.832.3South Dome EndB2147.531.7531.532.0South Dome EndB3147.531.7531.832.2South Dome EndB4147.531.7531.532.0South Dome EndB4147.531.7531.532.0South Dome EndC1147.531.7531.532.0South Dome EndC2147.531.7531.932.0South Dome EndC2147.531.7531.932.0South Dome EndC2147.531.7532.432.4											
South Dome EndB1147.531.7531.832.3South Dome EndB2147.531.7531.532.0South Dome EndB3147.531.7531.832.2South Dome EndB4147.531.7531.532.0South Dome EndC1147.531.7531.532.0South Dome EndC1147.531.7531.932.0South Dome EndC2147.531.7531.932.0South Dome EndC2147.531.7532.432.4											
South Dome EndB2147.531.7531.532.0South Dome EndB3147.531.7531.832.2South Dome EndB4147.531.7531.532.0South Dome EndC1147.531.7532.032.5South Dome EndC2147.531.7531.932.0South Dome EndC2147.531.7531.932.0South Dome EndC3147.531.7532.432.4											
South Dome EndB3147.531.7531.832.2South Dome EndB4147.531.7531.532.0South Dome EndC1147.531.7532.032.5South Dome EndC2147.531.7531.932.0South Dome EndC2147.531.7531.932.0South Dome EndC3147.531.7532.432.4											
South Dome EndB4147.531.7531.532.0South Dome EndC1147.531.7532.032.5South Dome EndC2147.531.7531.932.0South Dome EndC3147.531.7532.432.4		-									
South Dome EndC1147.531.7532.032.5South Dome EndC2147.531.7531.932.0South Dome EndC3147.531.7532.432.4		-									
South Dome End         C2         147.5         31.75         31.9         32.0           South Dome End         C3         147.5         31.75         32.4         32.4											
South Dome End         C3         147.5         31.75         32.4         32.4											
South Dome End   04   147.5   31.75   32.0   32.5	South Dome End	C4	147.5	31.75	32.0	32.5					



Inspection Summary											
ItemTestDiameterNominal WallMinimum WallAverage WIdentificationPoint(inches)(mm)(mm)(mm)											
South Dome End	D1	147.5	31.75	32.0	33.0						
South Dome End	D2	147.5	31.75	31.6	32.0						
South Dome End	D3	147.5	31.75	32.1	32.3						
South Dome End	D4	147.5	31.75	32.3	32.4						
South Dome End	E1	147.5	31.75	32.9	33.1						
South Dome End	E2	147.5	31.75	33.0	33.2						
South Dome End	E3	147.5	31.75	33.0	33.4						
South Dome End	E4	147.5	31.75	32.4	32.9						
South Dome End	F1	147.5	31.75	32.6	33.1						
South Dome End	F2	147.5	31.75	32.2	33.0						
South Dome End	F3	147.5	31.75	33.0	33.4						
South Dome End	F4	147.5	31.75	32.6	33.0						
East Side Wall	TP1	147.5	28.5	30.4	N/A						
East Side Wall	TP2	147.5	28.5	30.1	N/A						
East Side Wall	TP3	147.5	28.5	30.6	N/A						
East Side Wall	TP4	147.5	28.5	30.3	N/A						
East Side Wall	TP5	147.5	28.5	30.1	N/A						
East Side Wall	TP6	147.5	28.5	30.4	N/A						
East Side Wall	TP7	147.5	28.5	30.4	N/A						
East Side Wall	TP8	147.5	28.5	30.8	N/A						
East Side Wall	TP9	147.5	28.5	30.6	N/A						
East Side Wall	TP10	147.5	28.5	30.3	N/A						
East Side Wall	TP11	147.5	28.5	30.8	N/A						
East Side Wall	TP12	147.5	28.5	31.4	N/A						
East Side Wall	TP13	147.5	28.5	31.0	N/A						
East Side Wall	TP14	147.5	28.5	30.0	N/A						
East Side Wall	TP15	147.5	28.5	30.6	N/A						
East Side Wall	TP16	147.5	28.5	31.2	N/A						
East Side Wall	TP17	147.5	28.5	30.3	N/A						
East Side Wall	TP18	147.5	28.5	30.8	N/A						
East Side Wall	TP19	147.5	28.5	30.4	N/A						
East Side Wall	TP20	147.5	28.5	31.0	N/A						
East Side Wall	TP21	147.5	28.5	31.4	N/A						
East Side Wall	TP22	147.5	28.5	31.0	N/A						
East Side Wall	TP23	147.5	28.5	30.3	N/A						



Inspection Summary											
ItemTestDiameterNominal WallMinimum WallAverage WIdentificationPoint(inches)(mm)(mm)(mm)											
East Side Wall	TP24	147.5	(mm) 28.5	30.8	N/A						
East Side Wall	TP25	147.5	28.5	30.5	N/A						
East Side Wall	TP26	147.5	28.5	31.0	N/A						
East Side Wall	TP27	147.5	28.5	31.0	N/A						
East Side Wall	TP28	147.5	28.5	30.3	N/A						
East Side Wall	TP28	147.5	28.5	30.8	N/A						
East Side Wall	TP29	147.5	28.5	31.0	N/A						
East Side Wall	TP30	147.5	28.5	30.3	N/A						
East Side Wall	TP32	147.5	28.5	30.5	N/A						
East Side Wall	TP33	147.5	28.5	30.8	N/A						
East Side Wall	TP34	147.5	28.5	31.3	N/A						
East Side Wall	TP35	147.5	28.5	31.0	N/A						
East Side Wall	TP36	147.5	28.5	30.5	N/A						
West Side Wall	TP1	147.5	28.5	30.5	N/A						
West Side Wall	TP2	147.5	28.5	30.7	N/A						
West Side Wall	TP3	147.5	28.5	30.5	N/A						
West Side Wall	TP4	147.5	28.5	30.8	N/A						
West Side Wall	TP5	147.5	28.5	30.4	N/A						
West Side Wall	TP6	147.5	28.5	30.7	N/A						
West Side Wall	TP7	147.5	28.5	30.7	N/A						
West Side Wall	TP8	147.5	28.5	30.9	N/A						
West Side Wall	TP9	147.5	28.5	31.0	N/A						
West Side Wall	TP10	147.5	28.5	31.0	N/A						
West Side Wall	TP11	147.5	28.5	30.6	N/A						
West Side Wall	TP12	147.5	28.5	30.7	N/A						
West Side Wall	TP13	147.5	28.5	30.6	N/A						
West Side Wall	TP14	147.5	28.5	30.7	N/A						
West Side Wall	TP15	147.5	28.5	31.0	N/A						
West Side Wall	TP16	147.5	28.5	30.8	N/A						
West Side Wall	TP17	147.5	28.5	31.0	N/A						
West Side Wall	TP18	147.5	28.5	31.0	N/A						
West Side Wall	TP19	147.5	28.5	30.3	N/A						
West Side Wall	TP20	147.5	28.5	30.7	N/A						
West Side Wall	TP21	147.5	28.5	30.6	N/A						
West Side Wall	TP22	147.5	28.5	30.4	N/A						



Inspection Summary											
ItemTestDiameterNominal WallMinimum WallAverage WIdentificationPoint(inches)(mm)(mm)(mm)											
West Side Wall	TP23	147.5	28.5	30.3	N/A						
West Side Wall	TP24	147.5	28.5	30.4	N/A						
West Side Wall	TP25	147.5	28.5	30.3	N/A						
West Side Wall	TP26	147.5	28.5	30.3	N/A						
West Side Wall	TP27	147.5	28.5	30.4	N/A						
West Side Wall	TP28	147.5	28.5	30.8	N/A						
West Side Wall	TP28	147.5	28.5	31.0	N/A						
West Side Wall	TP29	147.5	28.5	31.4	N/A						
West Side Wall	TP30	147.5	28.5	31.3	N/A						
West Side Wall	TP32	147.5	28.5	30.7	N/A						
West Side Wall	TP33	147.5	28.5	31.0	N/A						
West Side Wall	TP34	147.5	28.5	31.3	N/A						
West Side Wall	TP35	147.5	28.5	31.0	N/A						
West Side Wall	TP36	147.5	28.5	30.9	N/A						
Top of Shell	TP1	147.5	28.5	31.0	N/A						
Top of Shell	TP2	147.5	28.5	31.0	N/A						
Top of Shell	TP3	147.5	28.5	31.3	N/A						
Top of Shell	TP4	147.5	28.5	31.1	N/A						
Top of Shell	TP5	147.5	28.5	31.5	N/A						
Top of Shell	TP6	147.5	28.5	31.3	N/A						
Top of Shell	TP7	147.5	28.5	31.6	N/A						
Top of Shell	TP8	147.5	28.5	31.5	N/A						
Top of Shell	TP9	147.5	28.5	30.9	N/A						
Top of Shell	TP10	147.5	28.5	30.9	N/A						
Top of Shell	TP11	147.5	28.5	30.7	N/A						
Top of Shell	TP12	147.5	28.5	30.6	N/A						
Top of Shell	TP13	147.5	28.5	30.8	N/A						
Top of Shell	TP14	147.5	28.5	30.8	N/A						
Top of Shell	TP15	147.5	28.5	30.6	N/A						
Top of Shell	TP16	147.5	28.5	30.8	N/A						
Top of Shell	TP17	147.5	28.5	29.9	N/A						
Top of Shell	TP18	147.5	28.5	30.3	N/A						
Top of Shell	TP19	147.5	28.5	30.1	N/A						
Top of Shell	TP20	147.5	28.5	29.8	N/A						
Top of Shell	TP21	147.5	28.5	29.4	N/A						

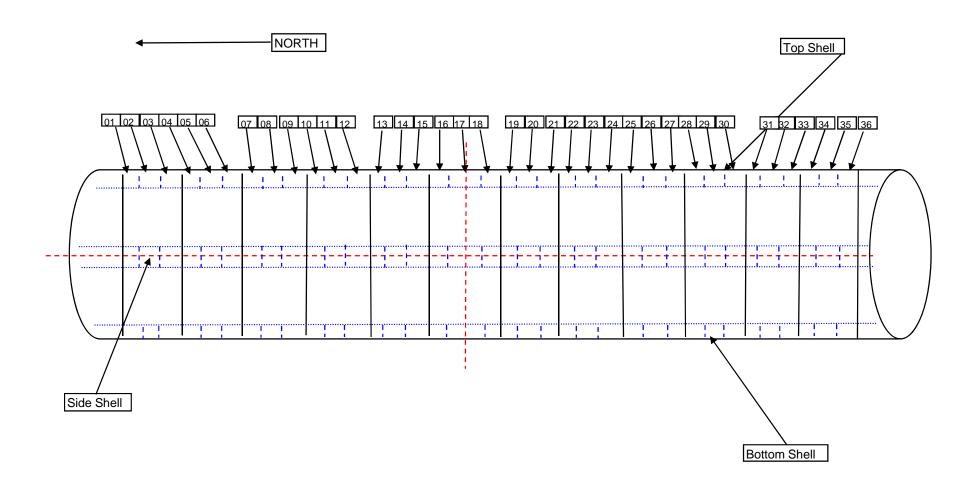


Inspection Summary										
ItemNominal WallMinimum WallAverageItemTestDiameterThicknessThicknessThickIdentificationPoint(inches)(mm)(mm)(mm)										
Top of Shell	TP22	147.5	28.5	29.6	N/A					
Top of Shell	TP23	147.5	28.5	30.1.	N/A					
Top of Shell	TP24	147.5	28.5	29.7	N/A					
Top of Shell	TP25	147.5	28.5	30.0	N/A					
Top of Shell	TP26	147.5	28.5	30.5	N/A					
Top of Shell	TP27	147.5	28.5	30.2	N/A					
Top of Shell	TP28	147.5	28.5	30.8	N/A					
Top of Shell	TP28	147.5	28.5	31.0	N/A					
Top of Shell	TP29	147.5	28.5	30.7	N/A					
Top of Shell	TP30	147.5	28.5	30.8	N/A					
Top of Shell	TP32	147.5	28.5	30.7	N/A					
Top of Shell	TP33	147.5	28.5	31.1	N/A					
Top of Shell	TP34	147.5	28.5	30.7	N/A					
Top of Shell	TP35	147.5	28.5	30.7	N/A					
Top of Shell	TP36	147.5	28.5	30.7	N/A					
Shell Bottom	TP1	147.5	28.5	30.6	N/A					
Shell Bottom	TP2	147.5	28.5	30.5	N/A					
Shell Bottom	TP3	147.5	28.5	30.9	N/A					
Shell Bottom	TP4	147.5	28.5	30.2	N/A					
Shell Bottom	TP5	147.5	28.5	30.1	N/A					
Shell Bottom	TP6	147.5	28.5	30.1	N/A					
Shell Bottom	TP7	147.5	28.5	30.1	N/A					
Shell Bottom	TP8	147.5	28.5	31.0	N/A					
Shell Bottom	TP9	147.5	28.5	30.9	N/A					
Shell Bottom	TP10	147.5	28.5	30.9	N/A					
Shell Bottom	TP11	147.5	28.5	30.7	N/A					
Shell Bottom	TP12	147.5	28.5	30.8	N/A					
Shell Bottom	TP13	147.5	28.5	31.9	N/A					
Shell Bottom	TP14	147.5	28.5	30.9	N/A					
Shell Bottom	TP15	147.5	28.5	30.5	N/A					
Shell Bottom	TP16	147.5	28.5	30.5	N/A					
Shell Bottom	TP17	147.5	28.5	30.2	N/A					
Shell Bottom	TP18	147.5	28.5	30.2	N/A					
Shell Bottom	TP19	147.5	28.5	30.3	N/A					
Shell Bottom	TP20	147.5	28.5	30.0	N/A					



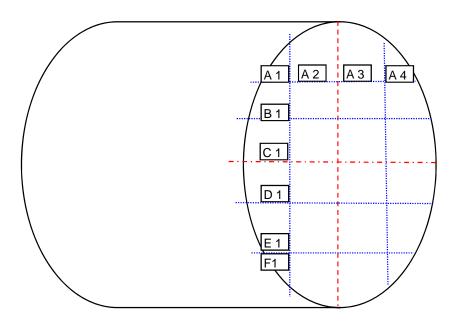
Inspection Summary												
ItemTestDiameterNominal WallMinimum WallAverageIdentificationPoint(inches)(mm)(mm)(mm)												
Shell Bottom	TP21	147.5	28.5	30.0	N/A							
Shell Bottom	TP22	147.5	28.5	31.4	N/A							
Shell Bottom	TP23	147.5	28.5	31.0	N/A							
Shell Bottom	TP24	147.5	28.5	31.4	N/A							
Shell Bottom	TP25	147.5	28.5	30.1	N/A							
Shell Bottom	TP26	147.5	28.5	30.0	N/A							
Shell Bottom	TP27	147.5	28.5	30.0	N/A							
Shell Bottom	TP28	147.5	28.5	30.0	N/A							
Shell Bottom	TP28	147.5	28.5	30.7	N/A							
Shell Bottom	TP29	147.5	28.5	30.3	N/A							
Shell Bottom	TP30	147.5	28.5	31.3	N/A							
Shell Bottom	TP32	147.5	28.5	31.7	N/A							
Shell Bottom	TP33	147.5	28.5	30.4	N/A							
Shell Bottom	TP34	147.5	28.5	30.6	N/A							
Shell Bottom	TP35	147.5	28.5	30.4	N/A							
Shell Bottom	TP36	147.5	28.5	30.4	N/A							

End of Report



Attachment 2

PT-11573609-001-D2008



EM&I J Vessel Report No. PT-D2008-090313-BR

Attachment 3

PT-11573609-001-D2008



	Ultrasonic Inspection Survey for Vessel Inspection									
Location:		Point Tup	oper			EM&I J Report No.		PT-D200	08-090525-MR-UT	
Client Name:		Exxon M	obil Sable			Client Ref No.:		PT-1157	3609-001-D2008	
Client Rep.:		Dale Gro	Dale Groves			Inspector Name:		Michael	Rotondella	
WO No.:		1157360	9			Inspection Date:		May 25,	2009	
SPO No.:		4501854	963			Inspection Time:		Various		
Workscope No.:		PT-2008-	VESSEL-E	XT-02		System:		Propane	+ Liquids	
Previous Report N	lo.	NA				EM&I J Job No:		EMJ013	2.31	
Ref. Drawing No.:		LA-B22-F	-22-8006-0	01-Z4, 9	980	047-1-4, 980047-4-2,	, 98-CA-3	99735-4B		
Technician Certifi	cations:	PCN UT	2 3.1, 3.2, 3	3.8, 3.9	1	Certification Expire	y Date:	October	24, 2010	
Inspection Code:		NA				Inspection Proced	ure:	EM&I		
Item Inspected:		D2008				Material (Incl. Vol.)	):	C/S		
Surface Condition	1:	As coate	d			Surface Temp:		Ambient		
Instrument	Туре	: Epoch L	ТС	Equip	Equipment S/N: 090108403 Cal Due Date: March 11			arch 11, 2010		
Instrument Setting	gs Refe	rence Lev	r <b>el:</b> 80fsh	Gain:	60	db	Reject Settings: NA			
Search Unit Cable	s Type	):		Lengt	th:	5'	Transfe	r Value:		
Calibration Block:		Step wec	lge 2.5-12.5	5mm	C	alibration Block S/N		09-1652		
Simulation Block:		NA			С	ouplant:		Ultragel	I	
Computerized Pro	gram:	NA								
Transducer Mfg:	Transducer Mfg: Type: Model No.:					Angle:	Frequence	cy:	Size:	
Panametrics	Dual Eler	ement D790SM				0	5MHz		10mm	

Inspection Summary						
Restricted Access?	🖸 Yes	💽 No	Comments: Rope Access Required			

### **Comments:**

UT spot readings were taken and the readings were recorded. See below and Attachment 5 for locations and readings. All readings are in millimeters.

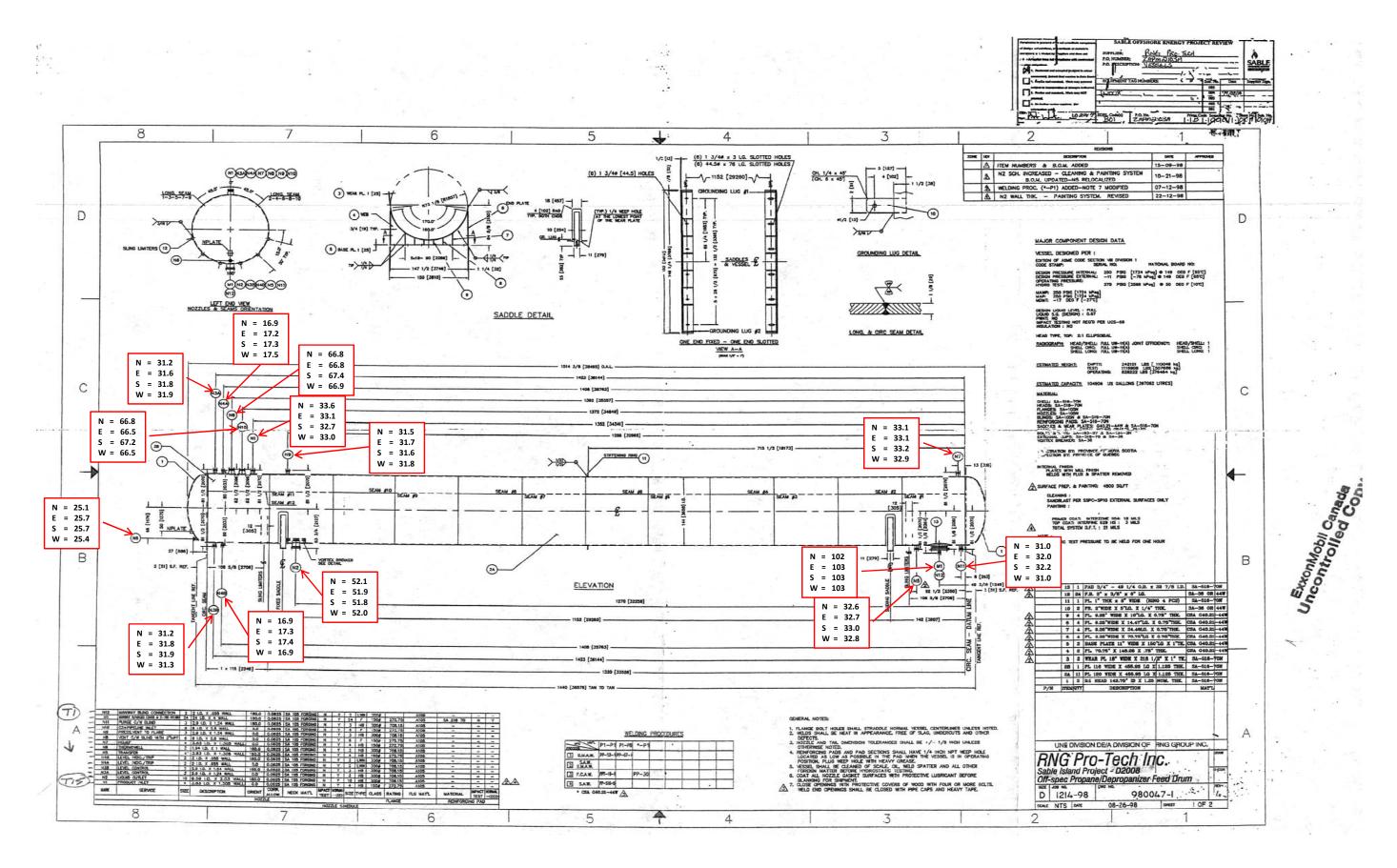


Inspection Summary								
Item Identification	Test Point	Diameter (inches)	Nominal Wall Thickness (mm)	Minimum Wall Thickness (mm)	Average Wall Thickness (mm)			
D2008 N1	North	4"	33.1	33.6	N/A			
D2008 N1	East	4"	33.1	33.1	N/A			
D2008 N1	South	4"	33.1	32.7	N/A			
D2008 N1	West	4"	33.1	33.0	N/A			
D2008 N2	North	10"	51.6	52.1	N/A			
D2008 N2	East	10"	51.6	51.9	N/A			
D2008 N2	South	10"	51.6	51.8	N/A			
D2008 N2	West	10"	51.6	52.0	N/A			
D2008 N3A	North	3"	31.5	31.2	N/A			
D2008 N3A	East	3"	31.5	31.6	N/A			
D2008 N3A	South	3"	31.5	31.8	N/A			
D2008 N3A	West	3"	31.5	31.9	N/A			
D2008 N3B	North	3"	31.5	31.2	N/A			
D2008 N3B	East	3"	31.5	31.8	N/A			
D2008 N3B	South	3"	31.5	31.9	N/A			
D2008 N3B	West	3"	31.5	31.3	N/A			
D2008 N4A	North	2"	16.6	16.9	N/A			
D2008 N4A	East	2"	16.6	17.2	N/A			
D2008 N4A	South	2"	16.6	17.3	N/A			
D2008 N4A	West	2"	16.6	17.5	N/A			
D2008 N4B	North	2"	16.6	16.9	N/A			
D2008 N4B	East	2"	16.6	17.3	N/A			
D2008 N4B	South	2"	16.6	17.4	N/A			
D2008 N4B	West	2"	16.6	16.9	N/A			
D2008 N5	North	4"	33.1	32.6	N/A			
D2008 N5	East	4"	33.1	32.7	N/A			
D2008 N5	South	4"	33.1	33.0	N/A			
D2008 N5	West	4"	33.1	32.8	N/A			
D2008 N6	North	2"	25.4	25.1	N/A			
D2008 N6	East	2"	25.4	25.7	N/A			
D2008 N6	South	2"	25.4	25.7	N/A			
D2008 N6	West	2"	25.4	25.4	N/A			
D2008 N7	North	4"	33.1	33.1	N/A			
D2008 N7	East	4"	33.1	33.1	N/A			
D2008 N7	South	4"	33.1	33.2	N/A			
D2008 N7	West	4"	33.1	32.9	N/A			



Inspection Summary								
Item Identification	Test Point	Diameter (inches)	Nominal Wall Thickness (mm)	Minimum Wall Thickness (mm)	Average Wall Thickness (mm)			
D2008 N8	North	6"	63.5	66.8	N/A			
D2008 N8	East	6"	63.5	66.8	N/A			
D2008 N8	South	6"	63.5	67.4	N/A			
D2008 N8	West	6"	63.5	66.9	N/A			
D2008 N9	North	3"	31.5	31.5	N/A			
D2008 N9	East	3"	31.5	31.7	N/A			
D2008 N9	South	3"	31.5	31.6	N/A			
D2008 N9	West	3"	31.5	31.8	N/A			
D2008 N10	North	6"	63.5	66.8	N/A			
D2008 N10	East	6"	63.5	66.5	N/A			
D2008 N10	South	6"	63.5	67.2	N/A			
D2008 N10	West	6"	63.5	66.5	N/A			
D2008 N11	North	3"	31.5	31.0	N/A			
D2008 N11	East	3"	31.5	32.0	N/A			
D2008 N11	South	3"	31.5	32.2	N/A			
D2008 N11	West	3"	31.5	31.0	N/A			
D2008 M	North	24"	101.6	102.0	N/A			
D2008 M	East	24"	101.6	103.0	N/A			
D2008 M	South	24"	101.6	103.0	N/A			
D2008 M	West	24"	101.6	103.0	N/A			

End of Report



EM&I J Vessel Report No. PT-D2008-090313-BR

Attachment 5

### PT-11573609-001-D2008