

Pressure Vessel Survey												
Location:	Point Tupper	EM&I J Report N	o.:		PT-D21	05C-0)90503-DL-R0					
Client Name:		Client Ref No.:		PT-11573619-001-D2105C								
Client Rep.:		Inspector Name:			Daniel L	ewis						
WO No.:		Inspection Date:		May 03, 2009								
SPO No.:		System:			Butane							
Workscope No.:	PT-2008-VESSEL-EXT-04	EM&I J Job No:			EMJ0132.33							
Tag No.:	D-2105C	Equipment Desc	ription				ge Vessel D-2105C					
Date of Last Inspection:		Previous Record			NA							
Drawing No.:												
Drawing No.: LA-B23-F-22-8062-01-Z4, 98-CA-399735-E, 98-CA-399735-4C Inspection Summary												
	Item			Cor	ndition		Comments					
External Ladders, Access a	nd Support Structure		Good	Fair	Poor	NA	Supporto for access way					
	ders, stairways, platforms and he vessel for signs of corrosion, m						Supports for access way allow a lot of movement. This could possibly be placing stress on the re- enforcment plates					
 If applicable, check vessel deflection, and/or corrosion. 	I supports for signs of deterioratior	n, settlement,	\boxtimes				Vessel supports are in good condition. Small cracks at the top of the concrete legs					
 If applicable, check coatin blistering, and/or coating disb 			\boxtimes			Small areas of coating breakdown. The access way appears to be the source of some of the rust staining on the vessel ends						
	d vessels, check for signs of trappe n cradle support and vessel shell.	ed moisture,	\square									
 b) For vertically mounted v condensation, resulting in cor 	essels on skirt support or support rosion on the bottom cap/ inside s support legs to the bottom cap.					\square						
5. Check the grounding connectight and ground wires in goo	ection is correctly installed, with ca d condition.	able connections	\square									
6. Check all bolted connection	ns for any signs of corrosion or me	echanical damage.	\square									
7. If applicable, check the ves free.	ssel sliding foot free to move and h	old-down bolts are				\square						
Vessel External Surfaces			Good	Fair	Poor	NA						
 Check permanent identifyi required information. 	ng tags on vessel are legible and	present the	\square				The vessel plate is fitted and the details recorded below					
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.							The nozzle attached to the man-way has CAT I studs and nuts					
3. If applicable, check bolted connections are in full contact with connected elements and connections for any signs of rust, corrosion or mechanical damage.												
4. If applicable, check insulation support bands and clips for signs of corrosion or breakage.						\boxtimes	This vessel is not insulated					
corrosion, cracking, pitting or	-		\boxtimes				The vessel weld seams are coated. No deterioration evident					
ingress of water. Record insu						\square	This vessel is not insulated					
coatings for any signs of leak	n of the exterior surface of the vess s, cracks, deformation, distortion, If so, specify type, location and ex	pitting, corrosion or		\boxtimes			This vessel is coated. The vessel surface appears to be in good					



Inspection Summary	Inspection Summary										
Item		Cond	dition		Comments						
					condition. Small isolated areas of coating breakdown occuring over the vessel shell						
8. If applicable, check weep holes in reinforcement plates are not plugged.	\square	ĻĻ									
External Piping / Instrument Attachments 1. If applicable, check vessel trim, such as gauges, sight glasses, valves and other appurtenances, show signs of deterioration, or missing components, etc.	Good	Fair	Poor		The vessel level gauge is Stainless Steel. This is connected to a Carbon Steel flange. The gauges on this vessel are in good condition. There is 5% coating breakdown with surface corrosion occuring on the SDV of this vessel. The trim attached to N4B has 100% coating breakdown and light surface corrosion						
If applicable, check if the PSV on the vessel is in calibration. Record tag number of PSV and calibration date.					The PSV on this vessel is in good condition. The details of the PSV have been recorded below below						
3. Inspect fittings, nozzles and other connections, including the surrounding vessel shell / head for any signs of distortion or cracks, wall loss, leakage, deterioration of coatings, etc. Specify extent and location.	\boxtimes				The nozzles of this vessel are in good condition. The nozzle flanges of this vessel have coating breakdown. This has been captured in the photos of the nozzles						
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							
 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							
If possible, check gasket seals on all flanges for signs of corrosion and/or mechanical damage.				\boxtimes							
Internal Equipment/Piping /Supports	Good	Fair	Poor	NA							
 Where applicable, check supports for vessel's internal equipment and components for signs of corrosion, distortion and deterioration. 				\square							



Inspection Summary										
Item Condition Co 2 If applicable, check vessel's internals for signs of corrosion, distortion and										
2. If applicable, check vessel's internals for signs of corrosion, distortion and										
deterioration, missing components etc. 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.										
Detail of Findings Instructions: With the aid of Drawing(s), Sketch(es) and	d Photo(s) describe findi	ngs								
PSV Tag: Calibrated By: Land and Sea Instrumentation Type: JPVM 15A Serial No.: ZA0172245 Calibration Date: 01-14-09 Capacity: 24890 SCFM										
Set Pressure: 1247 KPA Condition: CAT 2 studs and nuts and 15% coating breakdown with surface	ce corrosion									
	ce corrosion									



Detail of Findings Instructions: With the aid of Drawing(s), Sketch(es) and Photo(s) describe findings Photo 1 – North dome end of vessel and vessel access Photo 2 – (M1) 100% coating breakdown with surface structure. Rust staining is propagating from the recorrosion of flange and CAT II studs and nuts enforcement plates of the supports of the access way Photo 3 – (N5) 100% coating breakdown with surface Photo 4 – (N10) Covered by insulation jacket. Heat trace in place, insulation jacket not removed due to proximity corrosion of flange and CAT II studs and nuts. 20% coating breakdown with surface corrosion occurring on of linear heat trace. No CUI appears to be occurring at nozzle. Studs and nuts CAT II nozzle



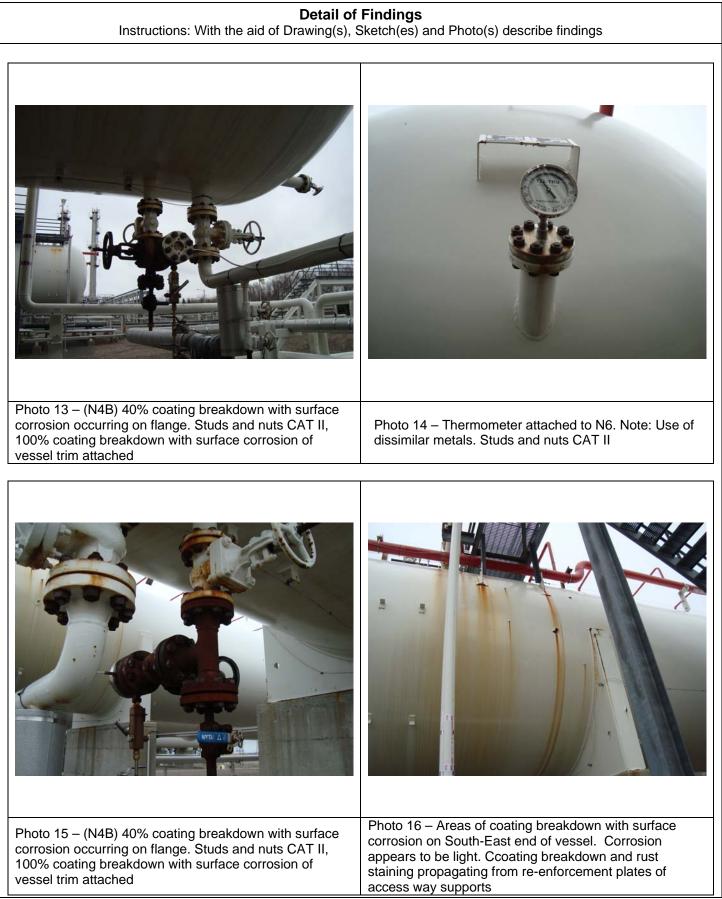
Detail of Findings Instructions: With the aid of Drawing(s), Sketch(es) and Photo(s) describe findings Photo 6 - Concrete support leg in good condition Photo 5 - Nozzle attached to M1, studs and nuts CAT I Photo 7 – Coating breakdown with surface corrosion Photo 8 – Area of coating breakdown with surface occurring at foot of saddle support. This is a general corrosion on support ring at bottom of vessel occurrence of all the propane storage vessels



Detail of Findings

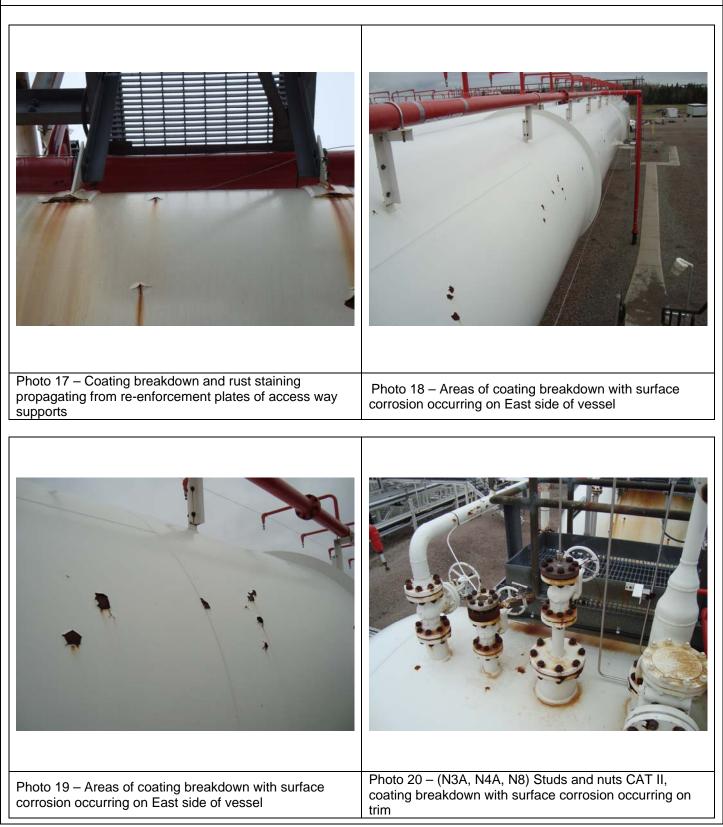






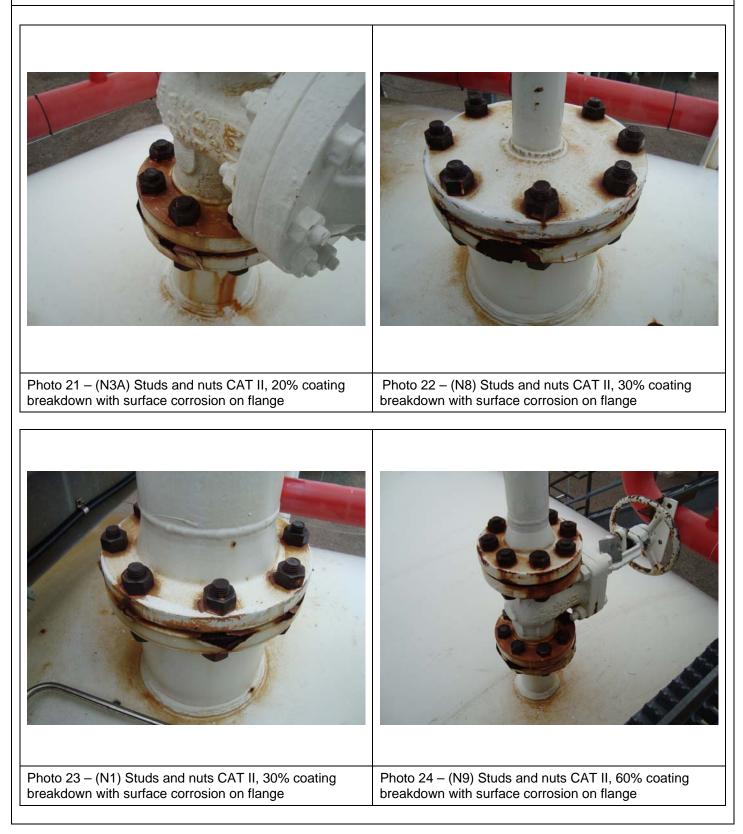


Detail of Findings





Detail of Findings



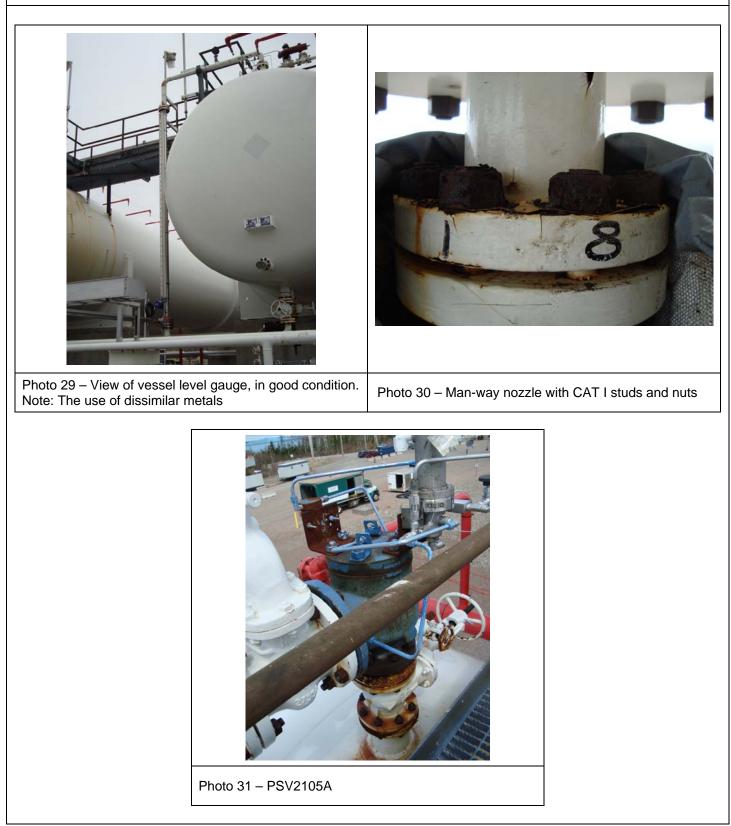


Detail of Findings





Detail of Findings





List of Attachments

Attachment 1: PT-D2105C-090314-VR-UT (Page 1 to 2) Attachment 2: PT-D2105C-090523-MR-UT (Page 1 to 5) Attachment 3: 98-CA-399735E

End of Report



	Ultrasonic Inspection Survey for Vessel Inspection									
Location:		Point Tup	oper			EM&I J Report No.		PT-D2105C-090314-VR-UT		
Client Name:		Exxon M	obil Sable			Client Ref No.:		PT-1157	'3619-001-D2105C	
Client Rep.:		Dale Gro	ves			Inspector Name:		Victor Ri	itchie	
WO No.:		1157361	9			Inspection Date:		March 1	4, 2009	
SPO No.:		4501869	140			Inspection Time:		Various		
Workscope No.:		PT-2008-	-Vessel-EX	T-04		System:		Butane		
Previous Report N	lo.	NA				EM&I J Job No:		EMJ013	2.33	
Ref. Drawing No.:		LA-B23-F	-22-8062-0	01-Z4, 9	98-0	CA-399735-E, 98-CA	-399735-4	1C		
Technician Certifi	cations:	PCN UT2 Certification Expiry Date:				y Date:	January 29, 2014			
Inspection Code:		NA	NA			Inspection Proced	ure:	EM&I		
Item Inspected:		Storage -	Tank			Material (Incl. Vol.)):	CS		
Surface Condition	:	As coate	d			Surface Temp:		Ambient		
Instrument	Туре	: Epoch L	ТС	Equip	me	ent S/N: 090100701	Cal Due	e Date: January 24, 2010		
Instrument Setting	gs Refe	rence Lev	el: 80fsh	Gain:	50	db	Reject S	Reject Settings: NA		
Search Unit Cable	s Type):		Lengt	:h:	5'	Transfe	ansfer Value:		
Calibration Block:		Step wec	lge 2.5-12.5	ōmm	С	alibration Block S/N	:	CB2		
Simulation Block:		NA			Ŭ	ouplant:		Ultragel		
Computerized Pro	ogram:	NA								
Transducer Mfg:	Type:		Model No).:		Angle:	Frequence	cy:	Size:	
Panametrics	dual elen	nent	D790SM			0	5MHz		10mm	

Inspection Summary							
Restricted Access?	🌅 Yes	🖸 No	Comments:				

Comments:

UT measurment were taken on side wall using echo technique and readings were recorded. This does not constitute a UT survey. See below 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)				
Shell Bottom	TP1	132"	20.6	21.7	N/A				
Shell Bottom	TP2	132"	20.6	21.7	N/A				
Shell Bottom	TP3	132"	20.6	21.7	N/A				
Shell Bottom	TP4	132"	20.6	21.6	N/A				
Shell Bottom	TP5	132"	20.6	21.5	N/A				
Shell Bottom	TP6	132"	20.6	21.6	N/A				
Shell Bottom	TP7	132"	20.6	22.2	N/A				
Shell Bottom	TP8	132"	20.6	22.4	N/A				
Shell Bottom	TP9	132"	20.6	22.0	N/A				
Shell Bottom	TP10	132"	20.6	22.1	N/A				
Shell Bottom	TP11	132"	20.6	22.1	N/A				
Shell Bottom	TP12	132"	20.6	21.7	N/A				
Shell Bottom	TP13	132"	20.6	21.9	N/A				
Shell Bottom	TP14	132"	20.6	22.0	N/A				
Shell Bottom	TP15	132"	20.6	21.9	N/A				
Shell Bottom	TP16	132"	20.6	22.0	N/A				
Shell Bottom	TP17	132"	20.6	22.0	N/A				
Shell Bottom	TP18	132"	20.6	22.0	N/A				
Shell Bottom	TP19	132"	20.6	22.1	N/A				
Shell Bottom	TP20	132"	20.6	22.0	N/A				
Shell Bottom	TP21	132"	20.6	22.1	N/A				
Shell Bottom	TP22	132"	20.6	22.0	N/A				
Shell Bottom	TP23	132"	20.6	21.9	N/A				
Shell Bottom	TP24	132"	20.6	21.5	N/A				
Shell Bottom	TP25	132"	20.6	21.9	N/A				
Shell Bottom	TP26	132"	20.6	21.9	N/A				
Shell Bottom	TP27	132"	20.6	22.0	N/A				
Shell Bottom	TP28	132'	20.6	22.3	N/A				
Shell Bottom	TP28	132"	20.6	22.1	N/A				
Shell Bottom	TP29	132"	20.6	22.0	N/A				
Shell Bottom	TP30	132"	20.6	22.2	N/A				
Shell Bottom	TP32	132"	20.6	22.0	N/A				
Shell Bottom	TP33	132"	20.6	22.0	N/A				
Shell Bottom	TP34	132"	20.6	22.1	N/A				
Shell Bottom	TP35	132"	20.6	22.0	N/A				
Shell Bottom	TP36	132"	20.6	22.0	N/A				

End of Report



	Ultrasonic Inspection Survey for Vessel Inspection									
Location:		Point Tup	per			EM&I J Report No.: PT-D21			C-090523-MR-UT	
Client Name:		Exxon Mo	obil Sable			Client Ref No.:		PT-115736	19-001-D2105C	
Client Rep.:		Dale Gro	ves			Inspector Name:		Michael Ro	otondella	
WO No.:		1157361	9			Inspection Date:		May 23, 20	09	
SPO No.:		4501869	140			Inspection Time:		Various		
Workscope No.:		PT-2008-	VESSEL-E	XT-04		System:		Butane		
Previous Report N	lo.	NA				EM&I J Job No:		EMJ0132.3	33	
Ref. Drawing No.:		LA-B23-F	-22-8062-0	01-Z4, 9	98-0	CA-399735-E, 98-CA	-399735	5-4C		
Technician Certifie	ician Certifications: PCN UT 2					Certification Expir	y Date:	October	24, 2010	
Inspection Code:		NA				Inspection Proced	ure:	EM&I		
Item Inspected:						Material (Incl. Vol.)):	C/S		
Surface Condition	:	As coated	b			Surface Temp:		Ambient		
Instrument	Туре	: Epoch L	ТС	Equip	ome	ent S/N: 090108403	Cal D	Due Date: March 11, 2010		
Instrument Setting	ys Refe	rence Lev	el: 80fsh	Gain:	60	db	Rejec	ect Settings: NA		
Search Unit Cable	s Type):		Lengt	th:	5'	Trans	fer Value:		
Calibration Block:		Step wed	ge 2.5-12.5	5mm	С	alibration Block S/N	l:	09-1652		
Simulation Block:		NA			С	ouplant:		Ultragel II		
Computerized Pro	gram:	NA								
Transducer Mfg:	Type:		Model No).:		Angle:	Freque	ncy:	Size:	
Panametrics	Dual Eler	ment	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 for locations and readings. All readings are in millimeters.

Readings on North head were taken facing South and reaadings on South head were taken facing North.



Item Identification	Test Point	Diameter (inches)	Nominal Wall Thickness (mm)	Minimum Wall Thickness (mm)	Average Wall Thickness (mm)
D2105C Bottom Shell	Plate 1	132"	20.6	21.00	N/A
D2105C Bottom Shell	Plate 2	132"	20.6	20.80	N/A
D2105C Bottom Shell	Plate 3	132"	20.6	20.60	N/A
D2105C Bottom Shell	Plate 4	132"	20.6	20.60	N/A
D2105C Bottom Shell	Plate 5	132"	20.6	20.60	N/A
D2105C Bottom Shell	Plate 6	132"	20.6	21.00	N/A
D2105C Bottom Shell	Plate 7	132"	20.6	20.60	N/A
D2105C Bottom Shell	Plate 8	132"	20.6	20.70	N/A
D2105C Bottom Shell	Plate 9	132"	20.6	20.60	N/A
D2105C Bottom Shell	Plate 10	132"	20.6	20.80	N/A
D2105C Bottom Shell	Plate 11	132"	20.6	20.60	N/A
D2105C Bottom Shell	Plate 12	132"	20.6	20.80	N/A
D2105C Top Shell	Plate 1	132"	20.6	20.80	N/A
D2105C Top Shell	Plate 2	132"	20.6	20.50	N/A
D2105C Top Shell	Plate 3	132"	20.6	20.40	N/A
D2105C Top Shell	Plate 4	132"	20.6	20.50	N/A
D2105C Top Shell	Plate 5	132"	20.6	20.40	N/A
D2105C Top Shell	Plate 6	132"	20.6	20.60	N/A
D2105C Top Shell	Plate 7	132"	20.6	20.70	N/A
D2105C Top Shell	Plate 8	132"	20.6	20.60	N/A
D2105C Top Shell	Plate 9	132"	20.6	20.50	N/A
D2105C Top Shell	Plate 10	132"	20.6	20.50	N/A
D2105C Top Shell	Plate 11	132"	20.6	20.60	N/A
D2105C Top Shell	Plate 12	132"	20.6	20.90	N/A
D2105C North Head	12 o'clock	132"	19.8	21.80	N/A
D2105C North Head	3 o'clock	132"	19.8	21.30	N/A
D2105C North Head	6 o'clock	132"	19.8	21.60	N/A
D2105C North Head	9 o'clock	132"	19.8	21.40	N/A
D2105C North Head	Centre	132"	19.8	21.60	N/A
D2105C South Head	12 o'clock	132"	19.8	22.00	N/A
D2105C South Head	3 o'clock	132"	19.8	22.00	N/A
D2105C South Head	6 o'clock	132"	19.8	21.80	N/A N/A
D2105C South Head	9 o'clock	132	19.8	21.80	N/A N/A
D2105C South Head	Centre	132	19.8	21.30	N/A N/A



Inspection Summary										
Item Identification	Test Point	Diameter (inches)	Nominal Wall Thickness (mm)	Minimum Wall Thickness (mm)	Average Wall Thickness (mm)					
D2105C East Shell Reading	Plate 1	132"	20.6	20.60	N/A					
D2105C East Shell Reading	Plate 2	132"	20.6	20.80	N/A					
D2105C East Shell Reading	Plate 3	132"	20.6	20.50	N/A					
D2105C East Shell Reading	Plate 4	132"	20.6	20.50	N/A					
D2105C East Shell Reading	Plate 5	132"	20.6	20.60	N/A					
D2105C East Shell Reading	Plate 6	132"	20.6	20.80	N/A					
D2105C East Shell Reading	Plate 7	132"	20.6	20.60	N/A					
D2105C East Shell Reading	Plate 8	132"	20.6	20.70	N/A					
D2105C East Shell Reading	Plate 9	132"	20.6	20.40	N/A					
D2105C East Shell Reading	Plate 10	132"	20.6	20.40	N/A					
D2105C East Shell Reading	Plate 11	132"	20.6	20.40	N/A					
D2105C East Shell Reading	Plate 12	132"	20.6	20.90	N/A					
D2105C West Shell Reading	Plate 1	132"	20.6	20.70	N/A					
D2105C West Shell Reading	Plate 2	132"	20.6	20.70	N/A					
D2105C West Shell Reading	Plate 3	132"	20.6	20.60	N/A					
D2105C West Shell Reading	Plate 4	132"	20.6	20.40	N/A					
D2105C West Shell Reading	Plate 5	132"	20.6	20.60	N/A					
D2105C West Shell Reading	Plate 6	132"	20.6	20.90	N/A					
D2105C West Shell Reading	Plate 7	132"	20.6	20.70	N/A					
D2105C West Shell Reading	Plate 8	132"	20.6	20.70	N/A					
D2105C West Shell Reading	Plate 9	132"	20.6	20.60	N/A					
D2105C West Shell Reading	Plate 10	132"	20.6	20.60	N/A					
D2105C West Shell Reading	Plate 11	132"	20.6	20.50	N/A					
D2105C West Shell Reading	Plate 12	132"	20.6	20.90	N/A					
D2105B N1	N	4"	33.15	32.10	N/A					
D2105B N1	E	4"	33.15	32.20	N/A					
D2105B N1	S	4"	33.15	32.20	N/A					
D2105B N1	W	4'	33.15	32.10	N/A					
D2105B N2	N	8"	22.22	24.00	N/A					
D2105B N2	E	8"	22.22	23.90	N/A					
D2105B N2	S	8"	22.22	24.00	N/A					
D2105B N2	W	8"	22.22	24.00	N/A					
D2105A N3A	N	3"	31.43	32.00	N/A					
D2105B N3A	E	3"	31.43	32.20	N/A					
D2105B N3A	S	3"	31.43	32.20	N/A					
D2105B N3A	W	3"	31.43	32.10	N/A					



Inspection Summary									
Item Identification	Test Point	Diameter (inches)	Nominal Wall Thickness (mm)	Minimum Wall Thickness (mm)	Average Wall Thickness (mm)				
D2105B N3B	N	3"	31.43	31.80	N/A				
D2105B N3B	E	3"	31.43	31.90	N/A				
D2105B N3B	S	3"	31.43	32.00	N/A				
D2105B N3B	W	3"	31.43	31.90	N/A				
D2105B N4A	N	2"	16.67	17.40	N/A				
D2105B N4A	E	2"	16.67	17.40	N/A				
D2105B N4A	S	2"	16.67	17.40	N/A				
D2105B N4A	W	2"	16.67	17.40	N/A				
D2105B N4B	N	2"	16.67	17.30	N/A				
D2105B N4B	E	2"	16.67	17.30	N/A				
D2105B N4B	S	2"	16.67	17.40	N/A				
D2105B N4B	W	2"	16.67	17.30	N/A				
D2105B N5	N	3"	31.43	31.90	N/A				
D2105B N5	E	3"	31.43	31.90	N/A				
D2105B N5	S	3"	31.43	32.00	N/A				
D2105B N5	W	3"	31.43	31.90	N/A				
D2105B N6	N	2"	25.40	24.80	N/A				
D2105B N6	E	2"	25.40	24.90	N/A				
D2105B N6	S	2"	25.40	24.90	N/A				
D2105B N6	W	2"	25.40	24.90	N/A				
D2105B N7	N	4"	33.15	32.90	N/A				
D2105B N7	E	4"	33.15	33.00	N/A				
D2105B N7	S	4"	33.15	33.10	N/A				
D2105B N7	W	4"	33.15	33.90	N/A				
D2105C N8	N	6"	31.61	32.00	N/A				
D2105C N8	E	6"	31.61	31.90	N/A				
D2105C N8	S	6"	31.61	31.90	N/A				
D2105C N8	W	6"	31.61	32.00	N/A				
D2105C N9	N	2"	16.67	17.40	N/A				
D2105C N9	E	2"	16.67	17.40	N/A				
D2105C N9	S	2"	16.67	17.30	N/A				
D2105C N9	W	2"	16.67	17.40	N/A				
D2105C N10	N	3"	31.43	32.00	N/A				
D2105C N10	E	3"	31.43	32.00	N/A				
D2105C N10	S	3"	31.43	31.90	N/A				
D2105C N10	W	3"	31.43	32.00	N/A				



Inspection Summary										
Item Identification	Test Point	Diameter (inches)	Nominal Wall Thickness (mm)	Minimum Wall Thickness (mm)	Average Wall Thickness (mm)					
D2105C M	N	24"	127.00	128.00	N/A					
D2105C M	E	24"	127.00	127.00	N/A					
D2105C M	S	24"	127.00	127.00	N/A					
D2105C M	W	24"	127.00	128.00	N/A					

End of Report

	RIES AND	I am auto I	T	and the second se			5						
		STD DWG		REQD	FURN.	BY INSTL	BY						
	IMENTS		TYPE T	es No	FAB	FAB	-						
CHIPPOPPE					-	1.1	-						
		CLIENT	SADD. Y	ÆS	YES	YES							
						1							DITO OF
							<u> </u>						· MOTO 25
WORTEX ODE WEED													et
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NP		VESSELNAME		HEADS	SA- R LINING	-516-70(N)	MATERIALS			INTERNAL EXTERNAL	DESIGN 1275 kPa(ga) @ 62 kPa(ga) @	65 °C 65 °C	381 kPa(ga) 4 - kPa(ga) @
		VESSEL NAME		HEADS CLAD OF SUPPOR	SA- R LINING	-516-70(N) -516-70		SADDLE:	\$4-516-70(N)	INTERNAL EXTERNAL WIND: SPE	DESIGN 1275 kPa(ga) @ 62 kPa(ga) @ C. XA-A00-Z-15-0004	65 °C 65 °C SEISMIC:	381 kPa(ga) 4
		VESSEL NAME		HEADS CLAD OF SUPPOR NOZZLE	SA- R LINING RTS SA- S I	-516-70(N) -516-70 FLANGE:	SA-105(N)	SADDLE: NECK:		INTERNAL EXTERNAL	DESIGN 1275 kPa(ga) @ 62 kPa(ga) @ C. XA-A00-Z-15-0004	65 °C 65 °C	381 kPa(ga) 4 - kPa(ga) @ SPEC. XA-A00-Z-1
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	RF		BLD.	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERNA	SA- R LINING ITS SA- S I LES/ I DLES (S S I LS F S S	-516-70(N) -516-70 FLANGE: FORGINGS: COVER: 316 S/S S PRESS: PRESS: PIPE:	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-193 B7 TEF. C SA-194 2H TEF. C	SADDLE: NECK: NECK: NECK: ITALIC TD TD PLATE:	SA-516-70(N) SA-106B SA-106B	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC O MAWP (INT) AT MAWP (EXT) AT MAWP (EXT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY	DESIGN 1275 KPa(ga) @ 62 kPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP27 GRAVITY 0.498-0.666 DESIGN TEMP. & CORR. DESIGN TEMP. & CORR. DESIGN TEMP. & CORR. DESIGN TEMP. & CORR. DESIGN TEMP. & CORR. SHELL & HEADS FIXED INTERNALS 100%	65 °C 65 °C SEISMIC: °C 1275 84 1392 1392 1.6 mm 3.2 mm	381 kPa(ga) 4 - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga SERVICE: SWEET kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) NOZZLES
		MANHOLE C/W	BLD.	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERNA TRAYS	SA- R LINING ITS SA- S I ES/ I DLES C S F F F LLS F ALS F	516-70(N) 516-70 FLANGE: FORGINGS: COVER: 316 S/S S PRESS: PRESS: PIPE: STRUCT: PLATE:	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-193 B7 TEF. C SA-194 2H TEF. C	SADDLE: NECK: - LF2 NECK: ITALIC TD TD PLATE: BOLTING	SA-516-70(N) SA-106B SA-106B	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC (MAWP (INT) AT MAWP (EXT) AT MAWP (EXT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE	DESIGN 1275 KPa(ga) @ 62 kPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP27 GRAVITY 0.498-0.666 DESIGN TEMP. & CORR. DESIGN TEMP. & CORR. DESIGN TEMP. & CORR. DESIGN TEMP. & CORR. DESIGN TEMP. & CORR. SHELL & HEADS FIXED INTERNALS 100%	65 °C 65 °C SEISMIC: °C 1275 84 1392 1392 1.6 mm 3.2 mm	381 kPa(ga) 4 - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga) SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) NOZZLES REMOV INTERNALS
	RF		BLD.	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERNA TRAYS	SA- R LINING ITS SA- S I ES/ I DLES C S F F F LLS F ALS F	516-70(N) 516-70 FLANGE: FORGINGS: COVER: 316 S/S S PRESS: PRESS: PIPE: STRUCT: PLATE:	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-193 B7 TEF. C SA-194 2H TEF. C	SADDLE: NECK: - LF2 NECK: ITALIC TD TD PLATE: BOLTING	SA-516-70(N) SA-106B SA-106B	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC O MAWP (INT) AT MAYP (EXT) AT MAYP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP27 GRAVITY 0.498-0.668 DESIGN TEMP. & CORR DESIGN TEMP. & CORR DESIGN TEMP. & CORR DESIGN TEMP. & CORR DESIGN TEMP. & CORR 100% ICY PER	65 °C 65 °C SEISMIC: °C 1275 84 1392 1.8 mm 3.2 mm CODE	381 kPa(ga) 4 - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga) SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) NOZZLES REMOV INTERNALS
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1 24 150 1 24 150 10 1 3 300 19 1 2 300 18 1 6 150	RF	MANHOLE CW PURGE C/W E PRESSURE VI VENT CW BLINI	BLD. β <i>LIND</i> ενΤ	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERNA TRAYS SUPPOR	SA- R LINING ITS SA- S I S I S I S I S I S I S I S I S I S I	518-70(N) 518-70 FLANGE: FORGINGS: COVER: 316 S/S S PRESS: PRESS: PIPE: STRUCT: PLATE:	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD TD PLATE: BOLTING STRUCT:	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC MAWP (INT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.666 DESIGN TEMP. & CORR DLD) TEST SHELL & HEADS FIXED INTERNALS 100% ICCY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1	65 °C 65 °C SEISMIC: °C 1275 - 84 / 392 / 9/3 1.6 mm 3.2 mm CODE M.A. DUCTION TI	381 kPa(ga) - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) NOZZLES REMOV INTERNALS NDE PER CODE
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1 24 150 1 24 150 1 300 1 300 1 2 1 50 1 1	RF	MANHOLE CW PURGE C/W E PRESSURE VA VENT CW BLINI RELIEF	BLD. β <i>LIND</i> ενΤ	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERN TRAYS SUPPOR REINFOR	SA- R LINING ITS SA- S I LES/ I LES/ I LES/ I F LLS S ALS F T RINGS IC. PADS	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 316 S/S S PRESS: PRESS: PRESS: PIPE: STRUCT: PLATE: S SA-516	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD TD PLATE: BOLTING STRUCT:	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S S: 54,576-70 N	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC (MAWP (INT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.666 DESIGN TEMP. & CORR SHELL & HEADS FIXED INTERNALS 100% ICY PER AT TREATMENT N. A. N. A. PRO SECT. VIII, DIV. 1 TSSA, ON TAKE	65 °C 65 °C SEISMIC: °C 1275 - 84 1392 1913 1.6 mm 3.2 mm CODE M.A. DUCTION TI 210	381 kPa(ga) 4 - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) LIMITED
1 24 150 1 24 150 1 24 150 1 2 300 1 2 300 1 6 150 1 6 150 1 7 1 4 1 2 300	RF RF RF RF RF	PURGE C/W E PURGE C/W E PRESSURE VA VENT CW BLINI RELIEF THERMOWELL	BLD. β <i>LIND</i> ενΤ	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERN TRAYS SUPPOR REINFOR	SA- R LINING ITS SA- S I S I S I S I S I S I S I S I S I S I	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 316 S/S S PRESS: PRESS: PRESS: PIPE: STRUCT: PLATE: S SA-516	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD TD PLATE: BOLTING STRUCT:	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC O MAWP (INT) AT MAWP (EXT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY PAINTING SI	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. -27 GRAVITY 0.498-0.668 DESIGN TEMP. & CORR DID) TEST SHELL & HEADS FIXED INTERNALS 100% ICY PER AT TREATMENT PRO VECT. VIII, DIV. 1 PRO	65 °C 65 °C SEISMIC: °C 1275 - 84 1392 1913 1.6 mm 3.2 mm CODE M.A. DUCTION TI 210	381 kPa(ga) 4 - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) LIMITED
1 24 150 1 24 150 1 24 150 1 2 300 N8 1 6 150 N7 1 4 150 N6 1 2 300 V6 1 2 300 V5 1 3 300	RF RF RF RF RF RF RF RF	PURGE C/W E PURGE C/W E PRESSURE V VENT CW BLINI RELIEF THERMOWELL TRANSFER	BLD. BLIND ΣΝΤ Οξ Σ ΝΡ	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERN TRAYS SUPPOR REINFOR	SA- R LINING ITS SA- S I LES/ I LES/ I LES/ I F LLS S ALS F T RINGS IC. PADS	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 316 S/S S PRESS: PRESS: PRESS: PIPE: STRUCT: PLATE: S SA-516	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD TD PLATE: BOLTING STRUCT:	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S S: 54,576-70 N	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC (MAWP (INT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.668 DESIGN TEMP. & CORR DID) TEST SHELL & HEADS FIXED INTERNALS 100% ICY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1	65 °C 65 °C SEISMIC: °C 1275 84 1392 1913 1.6 mm 3.2 mm CODE M.A. DUCTION TI 210 SURF. PRE	381 kPa(ga) - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) LIMITED B
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	KF. LWN RF RF RF RF RF LWN	PURGE C/W E PURGE C/W E PRESSURE VA VENT CW BLINI RELIEF THERMOWELL	BLD. BLIND ΣΝΤ Οξ Σ ΝΡ	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERN TRAYS SUPPOR REINFOR	SA- R LINING ITS SA- S I LES/ I LES/ I LES/ I F LLS S ALS F T RINGS IC. PADS	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 316 S/S S PRESS: PRESS: PRESS: PIPE: STRUCT: PLATE: S SA-516	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD TD PLATE: BOLTING STRUCT:	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S S: 54,576-70 N	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC O MAWP (INT) AT MAWP (EXT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY PAINTING SI	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.668 DESIGN TEMP. & CORR IOD% ICY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1 TSSA, ON TAPE PEC. XA-A00-Y-15-0005 NONE	65 °C 65 °C SEISMIC: °C 1275 84 1392 1913 1.6 mm 3.2 mm CODE M.A. DUCTION TI 210 SURF. PRE	381 kPa(ga) - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) LIMITED B
1 24 150 1 24 150 1 24 150 10 1 3 300 10 1 2 300 18 1 6 150 17 1 4 150 16 1 2 300 18 1 6 150 17 1 4 150 15 1 3 300 A/B 2 2 300	RF RF RF RF RF RF RF RF	PURGE SAN PURGE SAN PURGE SAN PRESSURE VI VENT CAN BLINI RELIEF THERMOWELL TRANSFER LEVEL IN DICO	ΒLD. Β <i>LIND</i> εντ Οξ Σ κη ΑΤΙΟΝ	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERN TRAYS SUPPOR REINFOR	SA- R LINING ITS SA- S I LES/ I LES/ I LES/ I F LLS S ALS F T RINGS IC. PADS	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 316 S/S S PRESS: PRESS: PRESS: PIPE: STRUCT: PLATE: S SA-516	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD TD PLATE: BOLTING STRUCT:	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S S: 54,576-70 N	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC (MAWP (INT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY PAINTING SF INSULATION	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.666 DESIGN TEMP. & CORR SHELL & HEADS FIXED INTERNALS 100% ICY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1 TSSA, ON TAGE CEC. XA.A00-Y-15-0005 NONE NONE TOTAL	65 °C 65 °C SEISMIC: °C 1275 - 84 / 392 / 9/3 1.6 mm 3.2 mm CODE (V.A. DUCTION TI 2/0 SURF. PRE WEIGHTS	381 kPa(ga) - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) LIMITED B
1 24 150 1 24 150 1 24 150 10 1 3 300 10 1 3 300 10 1 3 300 10 1 3 300 18 1 6 150 17 1 4 150 16 1 2 300 15 1 3 300 4/B 2 3 300	\$\$K\$F. LWN \$\$R\$F \$\$K\$F. \$\$K\$F. \$\$R\$F. \$\$R\$F.	PURGE SAVE PURGE SAVE PRESSURE VI VENT OW BLINI RELIEF THERMOWELL TRANSFER LEVEL IN DI CONT LEVEL CONT	BLD. BLIND ENT O& I NM ATION TROL	HEADS CLAD OF SUPPOR NOZZLE MANHOL HANDHC GASKET BOLTINC NUTS INTERNA EXTERN TRAYS SUPPOR REINFOR	SA- R LINING ITS SA- S I LES/ I LES/ I LES/ I F LLS S ALS F T RINGS IC. PADS	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD PLATE: BOLTING STRUCT: STIFF. RING	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S S: 54,576-70 N	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC (MAWP (INT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY PAINTING SF INSULATION	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.666 DESIGN TEMP. & CORR SHELL & HEADS FIXED INTERNALS 100% ICY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1 TSSA, ON TAGE CEC. XA.A00-Y-15-0005 NONE NONE TOTAL	65 °C 65 °C SEISMIC: °C 1275 84 1392 1913 1.6 mm 3.2 mm CODE M.A. DUCTION TI 210 SURF. PRE	381 kPa(ga) - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) LIMITED B
1 24 150 1 24 150 1 24 150 10 1 3 300 10 1 3 300 10 1 3 300 10 1 3 300 10 1 3 300 16 1 6 150 17 1 4 150 16 1 2 300 15 1 3 300 15 1 3 300 15 1 3 300 15 1 3 300 15 1 3 300 16 2 2 300 12 1 5 150	RF LWN RF RF RF RF RF LWN RF LWN RF LWN	MANHOLE CW PURGE C/W E PRESSURE VI VENT CW BLINI RELIEF THERMOWELL TRANSFER LEVEL IN DI CO LEVEL CONT LIQUID OUTLET	BLD. BLIND ΕΝΤ Οξ Σ ΝΡΙ ΑΤΙΟΝ ΓΡΟL	HEADS CLAD OF SUPPOR NOZZLE MANHOL GASKET BOLTING NUTS INTERNA EXTERNA TRAYS SUPPOR REINFOF	SA- R LINING TS SA- S I LES/ I LES/ I LES/ I LLS I ALS I T RINGS C. PADS	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C SA-105 (N) SPECIFICATIONS XA-A00-Y-15-0005 ; REFERENCE DRAWII	SADDLE: NECK: NECK: ITALIC TD PLATE: BOLTING STRUCT: STIFF. RING S XA-A00	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S S: 54,576-70 N	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC O MAWP (INT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY PAINTING SF INSULATION	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.668 DESIGN TEMP. & CORR IODUD) TEST SHELL & HEADS FIXED INTERNALS 100% ICY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1	65 °C 65 °C SEISMIC: °C 1275 84 1392 1913 1.6 mm 3.2 mm CODE (V.A. DUCTION TI 210 SURF. PRE WEIGHTS EMPTY:	381 kPa(ga) 4 - kPa(ga) @ SPEC. XA-A00-Z-1 @ kPa(ga) SERVICE: SWEET kPa(ga) LIMITED BY kPa(ga) LIMIT
1 24 150 1 24 150 1 24 150 1 2 300 10 1 3 300 10 1 2 300 10 1 6 150 17 1 4 150 16 1 50 12 10 2 300 10 1 2 10 1 3 10 1 2 10 1 2 10 1 2 10 1 2 10 1 2 10 1 2 10 1 2 10 1 2 10 1 2 10 1 2 10 1 2 10 3 300 15 1 3 10 3 300 12 1 8 150 1	\$\$K\$F. LWN \$\$R\$F \$\$K\$F. \$\$K\$F. \$\$R\$F. \$\$R\$F.	PURGE SAVE PURGE SAVE PRESSURE VI VENT OW BLINI RELIEF THERMOWELL TRANSFER LEVEL IN DI CONT LEVEL CONT	BLD. BLIND ΕΝΤ Οξ Σ ΝΡΙ ΑΤΙΟΝ ΓΡΟL	HEADS CLAD OF SUPPOR NOZZLE MANHOL GASKET BOLTING NUTS INTERNA EXTERNA TRAYS SUPPOR REINFOF	SA- R LINING ITS SA- S I LES/ I LES/ I LES/ I F LLS S ALS F T RINGS IC. PADS	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD TD PLATE: BOLTING STRUCT: STIFF. RING S XA-A00	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S SS: 54 576 - 70 M	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC (MAWP (INT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY PAINTING SF INSULATION OPERATING: TEST:	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.668 DESIGN TEMP. & CORR IOO% ICY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1 TSSA, ON TAR PEC. XA-A00-Y-15-0005 NONE TOTAL 294900 kg 404600 kg	65 °C 65 °C SEISMIC: °C 1275 84 1392 1913 1.6 mm 3.2 mm CODE (V.A. DUCTION TI 2/0 SURF. PRE WEIGHTS EMPTY: ERECTION:	381 kPa(ga) 4 - kPa(ga) @ SPEC. XA-A00-Z-1 @ @ kPa(ga) SERVICE: SWEET kPa(ga) LIMITED BY kPa(ga) NOZZLES REMOV INTERNALS NDE NDE PER CODE EST PLATE: //. A STAMPED: CRN: CRN: REQUIRED P. SPEC. XA-A00-1 72580 kg
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	RF RF RF RF RF RF RF RF LWN RF LWN RF LWN RF	MANHOLE CW PURGE C/W L PRESSURE VI VENT CW BLINI RELIEF THERMOWELL TRANSFER LEVEL IN DI C LEVEL CONT LIQUID OUTLET INLET PUMP RE	BLD. BLIND ENT O& I NM ATION TROL	HEADS CLAD OF SUPPOR NOZZLE MANHOL GASKET BOLTING NUTS INTERNA EXTERN TRAYS SUPPOR REINFOF XA-A0	SA- R LINING ITS SA- S I LES/ I LES/ I S F LLS F ALS F T RINGS C. PADS 0-Z-15-00 	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C SA-105(N) SPECIFICATIONS XA-A00-Y-15-0005 ; REFERENCE DRAWII -11.02-0; ES-053-21	SADDLE: NECK: NECK: ITALIC TD TD PLATE: BOLTING STRUCT: STIFF. RING S XA-AOC NGS .03-0; ES-C	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S S: <u>54 576 - 70 N</u> S-M-15-0031	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC (MAWP (INT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY PAINTING SF INSULATION OPERATING: TEST: C1 07-12-17	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.668 DESIGN TEMP. & CORR FIXED INTERNALS 100% ICY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1	65 °C 65 °C SEISMIC: °C 1275 84 1392 1913 1.6 mm 3.2 mm CODE (V.A. DUCTION TI CODE (V.A. DUCTION TI SURF. PRE EMPTY: ERECTION SE	381 kPa(ga) - kPa(ga) SPEC. XA-A00-Z-1 @ kPa(ga) SERVICE: KPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) LIMITED BY kPa(ga) NOZZLES REMOV INTERNALS NDE PER CODE EST PLATE: Y.A STAMPED: CRN: REQUIRED P. SPEC. XA-A00-1 72580 KOK KOK
1 24 150 1 24 150 1 24 150 1 24 150 1 24 150 1 2 300 1 6 150 1 6 150 1 2 300 15 1 3 300 15 1 3 300 15 1 3 300 16 2 3 300 12 1 B 150 11 1 6 150	RF LWN RF RF RF RF RF LWN RF LWN RF LWN	MANHOLE CW PURGE C/W E PRESSURE VI VENT CW BLINI RELIEF THERMOWELL TRANSFER LEVEL IN DI CO LEVEL CONT LIQUID OUTLET	BLD. BLIND ENT O& I NM ATION TROL	HEADS CLAD OF SUPPOR NOZZLE MANHOL GASKET BOLTING NUTS INTERNA EXTERN TRAYS SUPPOR REINFOF XA-A0 ES-05: ES-05:	SA- R LINING ITS SA- S I LES/ I LES/ I LES/ I I LES/ I F LLS F I T RINGS C. PADS 0-Z-15-00 	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 318 5/S S PRESS: PRESS: PIPE: STRUCT: PLATE: 	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C SA-105 2H TEF. C SA-103 B7 TEF. C SA-104 2H TEF. C SA-105 2H TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD PLATE: BOLTING STRUCT: STIFF. RING S XA-A00 NGS 03-0; ES-0 .07-0; ES-0	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S SS: <u>54 576 - 70 N</u> S-M-15-0031	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC (MAWP (INT) AT MAWP (EXT) AT MAP (NEW & CC HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY PAINTING SF INSULATION OPERATING: TEST: C1 97-12-17 B1 97-06-01	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. ETAL TEMP. -27 GRAVITY 0.498-0.668 DESIGN TEMP. & CORR IOO% ICY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1 TSSA, ON TAR PEC. XA-A00-Y-15-0005 NONE TOTAL 294900 kg 404600 kg	65 °C 65 °C SEISMIC: °C 1275 84 1392 1913 1.6 mm 3.2 mm CODE (V.A. DUCTION TI CODE (V.A. DUCTION TI SURF. PRE EMPTY: ERECTION SE	381 kPa(ga) 4 - kPa(ga) @ SPEC. XA-A00-Z-1 @ @ kPa(ga) SERVICE: SWEET kPa(ga) LIMITED BY kPa(ga) NOZZLES REMOV INTERNALS NDE NDE PER CODE EST PLATE: //. A STAMPED: CRN: CRN: REQUIRED P. SPEC. XA-A00-1 72580 kg
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I I I 1 24 150 1 24 150 1 24 150 1 24 150 N10 1 3 300 N8 1 6 150 N7 1 4 150 N6 1 2 300 N4/B 2 2 300 N2 1 8 150 N1 1 6 150 AP#X 0TY 812E RATING	RF RF RF RF RF RF RF RF LWN RF LWN RF LWN RF	MANHOLE CW PURGE C/W L PRESSURE VI VENT CW BLINI RELIEF THERMOWELL TRANSFER LEVEL IN DI C LEVEL CONT LIQUID OUTLET INLET PUMP RE	BLD. BLIND ENT D& I NM ATION TROL	HEADS CLAD OF SUPPOR NOZZLE MANHOL GASKET BOLTING NUTS INTERNA EXTERN TRAYS SUPPOR REINFOF XA-A0 ES-05: ES-05:	SA- R LINING ITS SA- S I LES/ I LES/ I LES/ I I LES/ I F LLS F I T RINGS C. PADS 0-Z-15-00 	-518-70(N) -518-70 FLANGE: FORGINGS: COVER: 318 5/S S PRESS: PRESS: PIPE: STRUCT: PLATE: 	SA-105(N) SA-105(N) & SA350 SA-105(N) PIRAL WOUND - FLEXI SA-103 B7 TEF. C SA-104 2H TEF. C SA-105 2H TEF. C SA-103 B7 TEF. C SA-104 2H TEF. C SA-105 2H TEF. C SA-104 2H TEF. C	SADDLE: NECK: NECK: ITALIC TD PLATE: BOLTING STRUCT: STIFF. RING S XA-A00 NGS 03-0; ES-0 .07-0; ES-0	SA-516-70(N) SA-106B SA-106B TYPE 316 S/S SS: <u>54 576 - 70 N</u> S-M-15-0031	INTERNAL EXTERNAL WIND: SPE MIN. DESIGN M LIQ. SPECIFIC O MAWP (INT) AT MAP (NEW & CO HYDROSTATIC CORROSION ALLOWANCE RADIOGRAPHY JOINT EFFICIEN POST WELD HE IMPACT TEST: CODE: ASME S INSPECTION BY PAINTING SF INSULATION OPERATING: TEST: C1 97-12-17 B1 97-08-01 A1 97-06-26	DESIGN 1275 KPa(ga) @ 62 KPa(ga) @ C. XA-A00-Z-15-0004 ETAL TEMP. 275 RAVITY 0.498-0.666 DESIGN TEMP. & CORR SHELL & HEADS FIXED INTERNALS 100% ICY PER AT TREATMENT N. A. PRO SECT. VIII, DIV. 1	65 °C 65 °C SEISMIC: °C 1275 84 /392 /9/3 1.6 mm 3.2 mm CODE //.A. DUCTION TH CODE //.A. DUCTION TH CODE //.A. DUCTION TH CODE //.A. DUCTION TH CODE //.A. DUCTION TH CODE //.A. DUCTION TH CODE //.A. DUCTION TH CODE //.A. DUCTION TH CODE //.A. DUCTION TH CODE //.A. CODE //. CODE //.A.	381 kPa(ga) - kPa(ga) @ SPEC. XA.A00-Z- @ kPa(ga) SERVICE: SWEE kPa(ga) LIMITED BY kPa(ga) NOZZLES REMOV INTERNALS NDE PER CODE EST PLATE: X.A STAMPED: CRN: REQUIRED P. SPEC. XA-A00- 72500 k K.DY LF AIK AIK
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EMHIJ REPORT NO. PT-DOIOSC-090503-DL

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Attachment 3.

