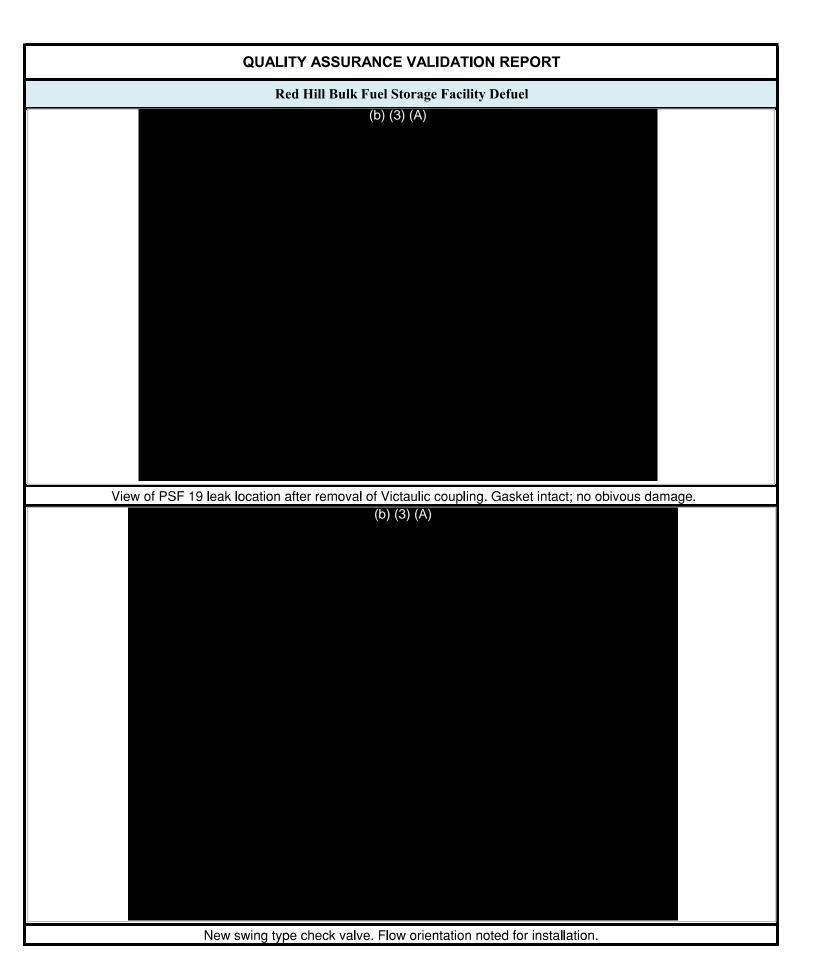
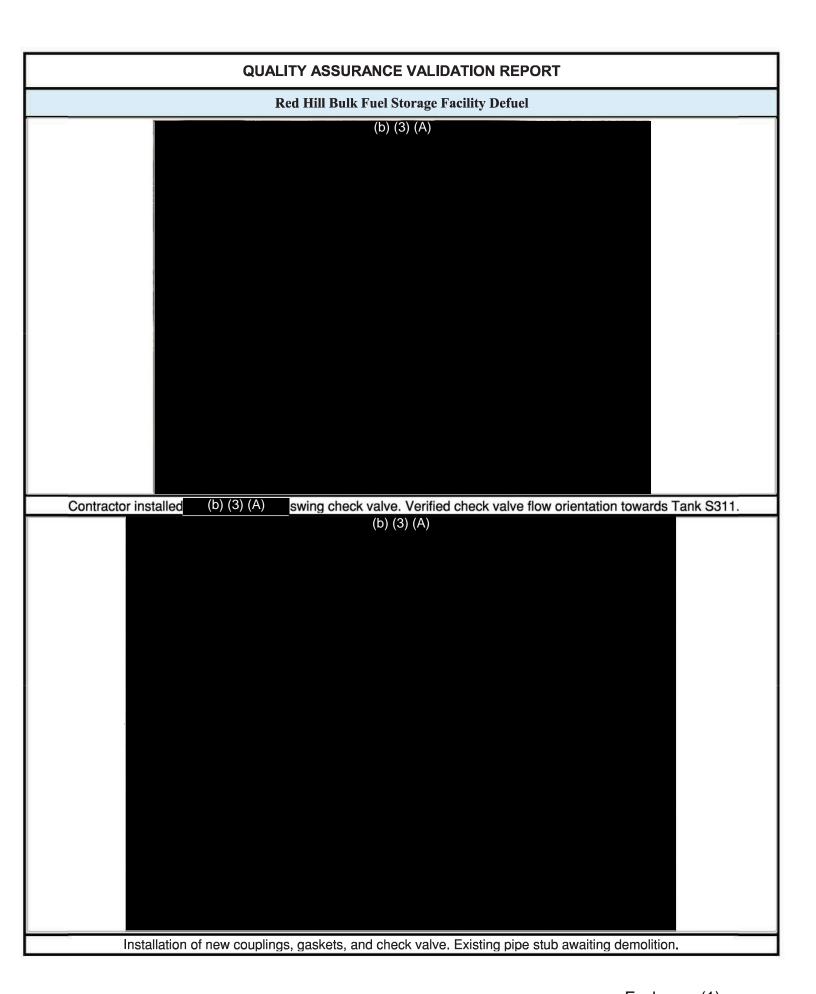
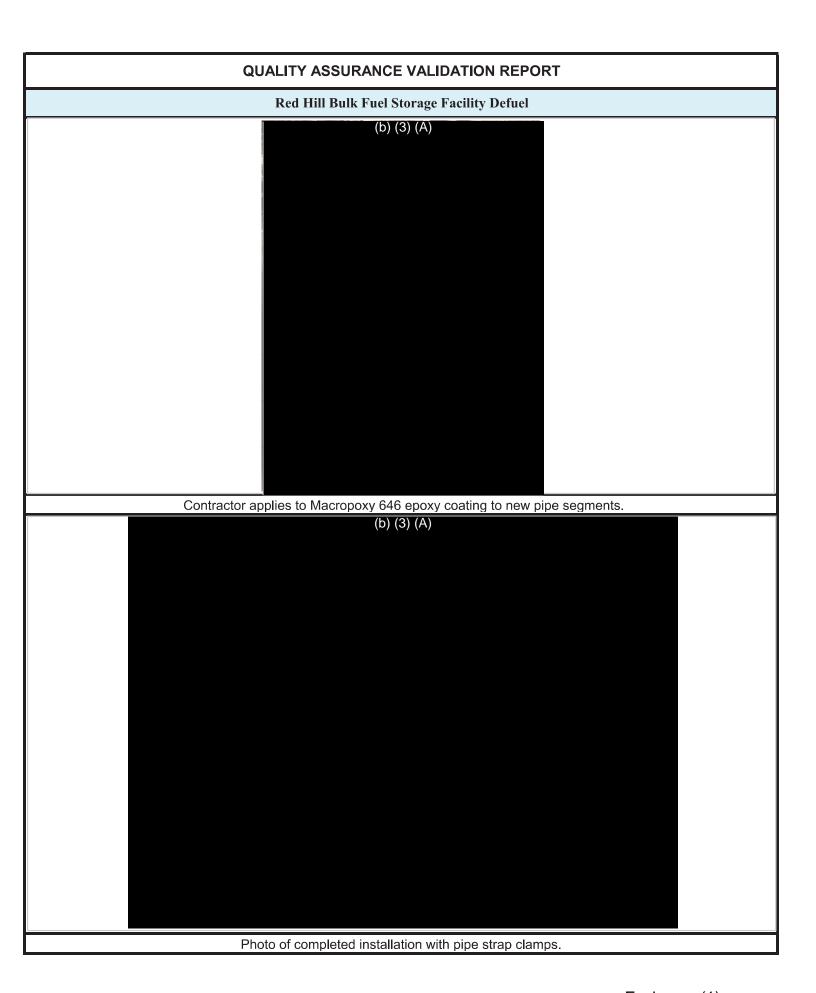
QUALITY VALIDATION (QV) REPORT										
Red Hill Bulk Fuel Storage Facility Defuel										
Validation Firm HDR Environmental				, Operatio	ns and Construction,	Inc.		Repair No.	FOR Che	ck Valve
	Address	9781 S. N	/leridian Bl	vd., Suite	400, Englewood, CO	80112		Repair ID	N/A	
C	Contract No.	FA89031	5D0007, D	.O. FA890	3-19-F-0027	19-F-0027			29 OCT 2	2024
Q	V Engineer	(b) (6)		Phone (b) (6)			Email	(b) (6)		
	VALIDATION									
Sor	urce	I	PDF Page N	lo.	Facility Geograph	ic Area		Location	Reference	
RMMR		N/A			FOR Line: Adit 3		PSF 18-1	9		
Repair Description		Modify FOR piping ahead of Adit 3 ball valve to allow che valve installation, replace failed Victaulic coupling gasket					Source Contract Reference Reference 722E		21F0025	
Description of Contractor QC Method(s) Used		segments hydrostatically tested above 150 PSI for 4 hours.					Contractor QC Records Reviewed			
Description of QA Validation and Observations		NCTF-RH QV reviewed vendor cut sheets for installed materials, hydrostatic testing, welder qualifications and NDE results.					ion and			
	D	Final acceptance by government. Date: 28 OCT 2024  Needed Photo Record Attached					Repair Work Validated as Complete			
	Yes	Needed	No		See Pages 2-4.	L	Repair	Yes		No
Comments  Contractor removed diameter FOR piping segment from the leaking Victaulic coupling at PSF 19 to coupling at PSF 18. To prevent potential backflow from Tank S311, a swing check valve was installed in a replacement pipe segment. Contractor performed 100% VT and SWUT on pipe welds. Touch-up coating was applied after installation. Verified check valve flow orientation. New Victaulic couplings with Type T fuel-compatible Nitrile gaskets installed.  NDE result table, NDE inspection reports and pressure testing log included for reference. FOR line leak detection test results provided under separate cover.										
CERTIFICATION										
	tify that repair			QV ENG	INEER SIGNATURE	(b) (d	6)			
report was p report is true		ostantiated and this			DATE	DATE 29 OCT 2024				









819 Moowaa Street, Unit 203, Honolulu, HI 96819 PHONE: 808-841-0030 WWW.INSPECTESTING.COM

## **Condition Found Report**

CFR #: 9284

(						1				
SUBMITTED	SHIP/HULL#		JOB#		CONTRACT NU		JMBER GWO#			
10/10/2024	FOR PIPELINE		45	336		N/A	N	N/A		
REQUEST ANSWE	R BY SURVEYO		OP W	ORK ITEN	A #	PARA REF#		TIP ID #		
In sometime discretization	N D I				// #	V				
3 DAYS		N/A	N/	А		N/A	I.	N/A		
ITEM TITLE										
ACCOMPLISHED A	ACCOMPLISHED A (VT) VISUAL AND (UTSW) ULTRASONIC SHEARWAVE INSPECTION FOR PIPELINE.									
TYPE OF REPORT			BRIEF DESCRI	PTION						
Required Repo	ort with Attachme	ents			SUAL AND (L	JTSW) ULTRASONIC	SHFARV	WAVE INSPECTION		
rioqui ou riopo	or with rate of this	onto	ON THE FINA		JONE MILE (	orow, ournative	JIILAIN	NAVE III SI ECITOR		
COMPARTMENT /	LOCATION OF WO	RK	STATE CHANG	ES TO IN	TERNAL OR (	CONTRACTUAL MILES	STONES			
CLARK'S PETROLE	UM SHOP		NONE							
DD0D1514.0D.601	IDITION DESCRIPTI									
_	PROBLEM OR CONDITION DESCRIPTION OF WORK REQUIREMENTS IAW									
☐ DRAWING;	111		RUCTIONS	-	ANDARD ITEM					
								A, PARAGRAPH # <b>N/A</b>		
PERFORMED A (V	T) VISUAL AND (UT	'SW) ULTI	RASONIC SHEAF	RWAVE II	NSPECTION C	ON THE FOLLOWING	ITEM(S	):		
VT ACCEPTABLE F	OR : 4 EA. BUTT-W	ELDS.								
UTSW ACCEPTABL	E FOR : 4 EA. BUTT	-WELDS.								
Accept required	d report									
RESPONSE FROM	<b>1</b> SUPERVISOR PHNSY (	7/400								
RESPONSE IS SUBMITT		., 100								
near order to continue to to.										
APPROVED BY SUPERV	risor 🗌	DA	TE:							
DISTRIBUTION FILE, CON	T, QA	ORI	IGINATOR		SHOP		P. M. A	APPROVAL		
INSPEC TESTING		<b>/ </b>	\ (C)		INSPEC TES	TING				
		(D	) (6)							
For Inspec Testing	For Inspec Testing Use ONLY:									
, or maper resulty	USG ONLT.				241					
OP Manager:				NDT Level III:						



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## NONDESTRUCTIVE INSPECTION REPORT

NDT-15 REV-0 VISUAL ☑ NDT-11 REV-1 LIQUID PENETRANT ☐ NDT-16 REV-0 MAGNETIC PARTICLE ☐

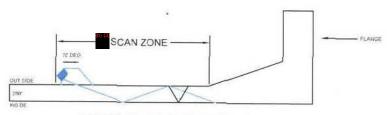
DATE: OCTOBER 9, 2024	I.T. JOB #: 45336							
CUSTOMER: CLARK'S PETRO	PURCHASE ORDER: N/A							
SHIP: FOR PIPELINE	CONTRACT: N/A							
WORK ITEM: N/A	PARAGRAPH: N/A							
MOD/IDR#: N/A	SPEC #: N/A							
MATERIAL TYPE/ SPECIFICATION	N (IF KNOWN) STL							
LOCATION / IDENTIFICATION OF ITEM INSPECTED: CLARK'S PETROLEUM SHOP								
STD/SPECS	AREA/IDENTIFICATION OF INSPECTION	ACC	REJ					
ASNT-TC-1A: 2011	PERFORMED A (VT) VISUAL AND (UTSW) ULTRASONIC SHEARWAVE INSPECTION ON THE FOLLOWING ITEM:							
ASME B31.3								
	"FINAL WELD"							
	FOR PIPELINE:							
	-2 EA. PIPE   CARBON STEEL   SCH 40   FLANGE   BUTT-WELD:	х						
	-2 EA. PIPE   CARBON STEEL   SCH 40   VITAULIC   BUTT-WELD:	х						
CLASS N/A								
LIQUID PENETRANT								
AMS 2644								
TYPE:								
METHOD:								
FORM:								
MFG:								
MAGNETIC PARTICLE								
P-90 🗆 /								
YOKE   /								
MFG:								
метнор								
WET   DRY								
AC DC DC D	NOTE: INSPECTION PERFORMED IN SHOP							
LONG CIRC PARTICLES:		$\vdash$						
CURRENT:		$\vdash$						
CALIB:	INSPECTOR:							

FORM NO. 201 VT/MT/PT INSPECTION REPORT....

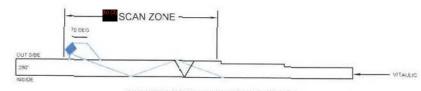


819 MOOWAA ST. #203, HONOLULU, HI 96817 (808)841-0030 FAX (808)841-0031 REPORT OF ULTRASONIC SHEAWAVE INSPECTION

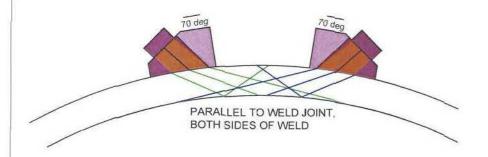
Project: FOR PI	PELINE	FRAME: N/A	PORT:	STBD: N/A	LOCATION:	CLARK'S PETR	OI ELIM SHOR	MATERIAL:		IT JOB#:
NSTRUMENTA	IANUFACTURE:	SERIAL #:	MODEL:	GAIN:	CUSTOMER:	CEARROTEIR	CUSTOMER JOB#:	CARBON STL	10/9/2024	45336
	E	9110503	USM GO			RK'S PETROLEUM	N/A		PO#:	****
	<i>IANUFACTURE:</i> /A	SERIAL #: N/A	MODEL: N/A	GAIN: N/A	CONTRACT#:	N/A	SPECIFICATION #:	2002		N/A
<i>RANS S/N:</i> U123Y2	TYPE: SINGLE	FREQUENCY: 5 MHz	SIZE:		WORK ITEM #:	N/A	PARAGRAPH #:	N//		
78 79 79 79 79 79 79 79 79 79 79 79 79 79	TYPE: SINGLE	FREQUENCY: 10.0 MHz	SIZE:	ANGLE: STAIGHT	MODIFICATION		ACCEPTANCE CRITERIA:	N//		
ANGE: 25"-1.500" / 155", 998		V <i>BLOCK SERIA</i> 08-6886/ IT-005	L #:	COUPLA	NT: TRA GEL II	PROCEDURE: IT NOT 13 REV 0 / IT-NO		WELD DIS	H 4, PARA 344.5.2  POSITION:  ICC UT ACC	
(b) (6)					-		<b>(b)</b>			
					VISUAL INSPEC	TION TO INCLUDE 100	% OF PIPING BUTT W	$(\mathbf{O})$		
					REMARKS:	(3) (A) OD CARBON ST SEE DRAWINGS FOR M				

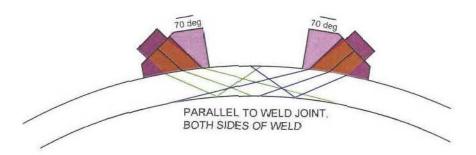


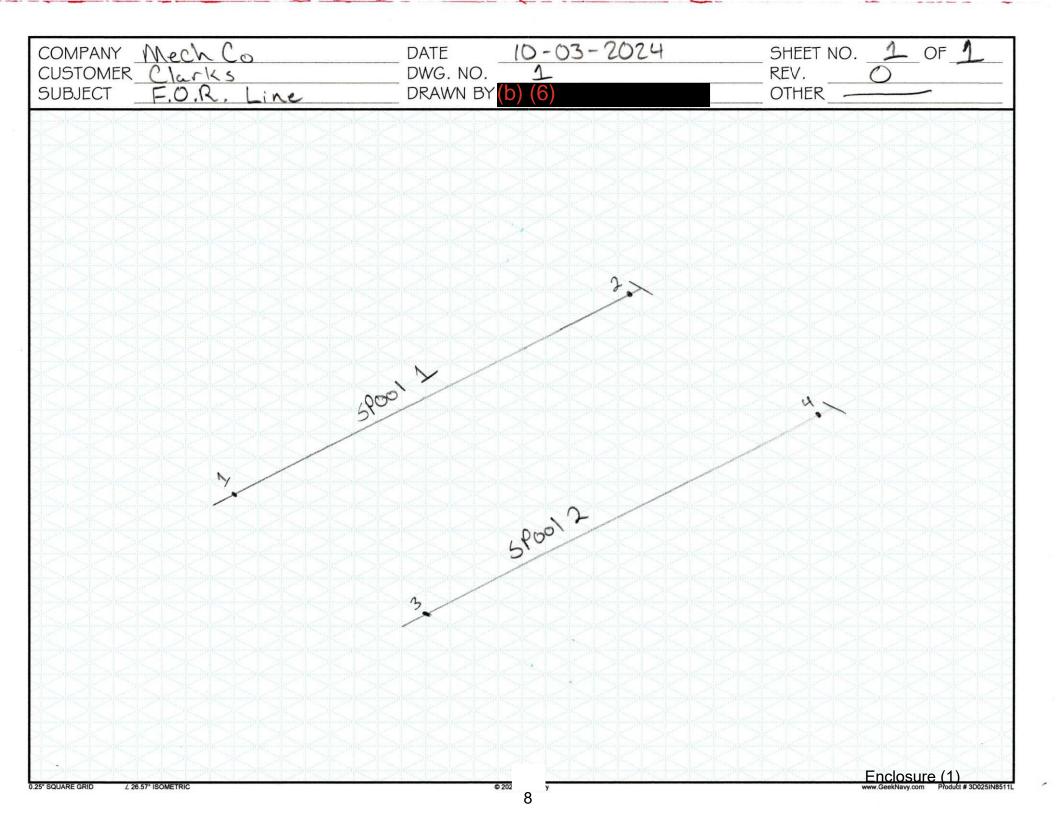
TRANSVERSE TO WELD JOINT



TRANSVERSE TO WELD JOINT









**Quality Testing Services, LLC** 2510-A Washington Street Huntsville, AL. 35811

Voice: 256/ 519-6909 Fax: 256/ 519-6908

## WELDER PERFORMANCE QUALIFICATION TEST RECORD

Customer: MechCo Group, LLC	Welder Name: (b) (6)	ID No.: <u>0039</u>				
WPS No.: <u>AFC-GTA/SMA-1</u> Rev.:	0 Date: 11/20/2009 Code/Spec	.: ASME Section IX & ASME B31.3				
VARIABLES Welding Process: Process Type:	USED IN QUALIFICATION GTAW & SMAW Manual	QUALIFICATION RANGE GTAW & SMAW Manual				
Test Position & Progression: Material Specification: Group or P No.:	6G- A-36 Carbon Steel Group 1 to Group 1 (P No. 1 to P No. 1)	Plate & Tube: ALL Positions Carbon Steel – Group 1 Group 1 (P No. 1) – Carbon Steel				
Backing:  Sheet / Plate: Groove / Thk. Penetration (Complete or Partial)	Without Backing  N/A  N/A	With or Without Backing  0.108" to 0.432"  Complete & Partial & Fillet				
Fillet / Thickness  Tube / Pipe: Size / Diameter Groove / Thk.	N/A    D (3) (A)   OD SCH 40     D (3) (A)	Unlimited  2.875" to Unlimited dia108" to 0.432"				
Penetration (Complete or Partial) Fillet / Thickness Filler Metal: Spec No.	Complete N/A  A5.18 & 5.1 (F-6 & F-1)	Complete & Partial Joint & Fillet Unlimited  A5.18 & 5.1 (F-6 & F-1)				
Class  F-No. / Size-Diameter Shielded Gas & Flow Rate / Flux Type	ER70S-2 & E7018  (b) (3) (A) Diameter  Argon 100% 20 CFH	ER70S-2 & E7018  .062"125" Diameter Argon 100% 16 thru 30 CFH				
Purge or Backing Gas & Flow Rate  Electrical Characteristics:  Current / Polarity	N/A DCEN & DCEP	N/A DCEN & DCEP				
AMPS / VOLTS  Single / Multiple Electrodes Single / Multiple Pass-Weld	Amps: 105 & 95 Volts:  Single Multiple	Amps: 95 – 115 & 86 - 104  Single Single or Multiple				
VISUAL INSPECTION - Appearance:_	<b>1</b>	ndercut: None Porosity: None				
	] Fail [ ] Film ID: 2466-058 BEN PHIC - N/A [ X ] Pass [ ] Fail [ ]					
	ing Services, LLC DATE: 03/11/2021					
Test Witnessed By:	Test Interpreted By	(6)				
The above named individual is qualified IAW ASME Section IX & ASME B31.1 Specifications within the limits for the welding process used for this test. The under signed, certify that the statements in this record are correct and that the weldments were prepared, welded and tested IAW the above welding procedure (WPS).						
Authorized By:	Date:	FORM QTS-WQ-101 02/05/07 Rev Basic Enclosure (1)				

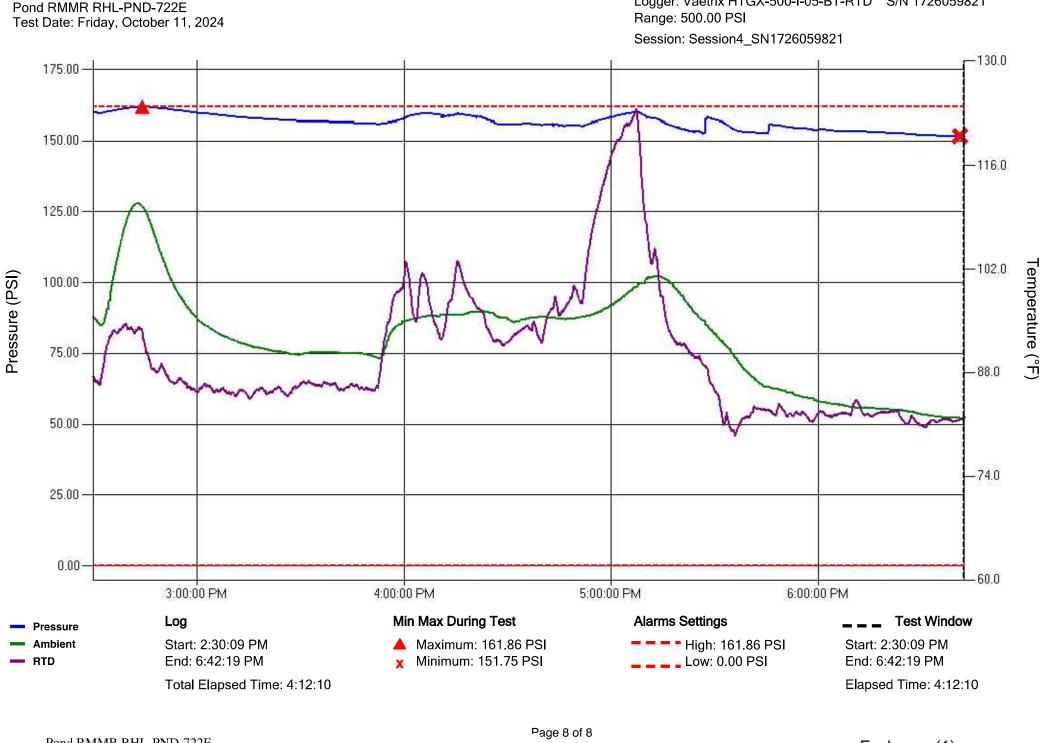
9





	PC	OH Hydrostatic /	Pneumatic Pressure	Test Log				
Pipeline Operator			Testing Company					
Navy Closure Task For	·ce		Clarks Petroleum					
Red Hill Tank Site			852 Mapunapuna St					
Aiea, HI 96701			Honolulu, HI 96819					
·			(808)833-7876					
Pipeline Operator Re	presentative (FMSR)		Pond Site Manager					
(b) (6)			(b) (6)					
Test Eq	uipment	Make	Model Number	Serial Number	Date Last Cal.			
High Pressure Pump S	ystem / Regulator	Vaetrix	VX-VRTD-025FT	232965-4-4	9/16/2024			
Test Pressure Gauge		Fluke	5616	3428	New			
Infrared Thermomete	r	GT Industries	IRT205	60825-1	New			
Ambient Thermomete	er	Fluke	1524	3429	New			
I dan Milian Mina	Location	/ Facility	Look Took Date	Manufashunan	Dina Matarial			
Identification	Location ,		Last Test Date	Manufacturer	Pipe Material			
	Red Hil	Adit 3	5/28/2019		Carbon Steel			
Test Medium	Test Time	Test Pressure	Design Pressure	MAWP	Test Connection Location			
Water	4 Hours	150	Designification	100	Clarks Petroleum			
	Annual	New	Replacement	Repair	5-Year			
Reason for Test:	7			X	5 7 5 6 6			
Type of Test:	Hydrostatic (150%)	Pneumatic (125%)	Isolation Valve:	N/A				
Time 12-hr format	Elapsed Time	Pressure	Temperature Ambient	Temperature	Bleed (gal)			
	(Minutes)			IRT@MLA	(+) Add / (-) Drained			
2:30:00 PM	0	150	73	N/A	0			
2:45:00 PM	15	161.83	110	N/A	0			
3:00:00 PM	30	159.75	95.3	N/A	0			
3:15:00 PM	45	158	91.7	N/A	0			
3:30:00 PM	60	157.02	90.5 N/A		0			
3:45:00 PM	75	156.39	90.6 N/A		0			
4:00:00 PM	90	157.92	95 05.8	N/A	0			
4:15:00 PM	105 120	159.31	95.8 05.1	N/A	0			
4:30:00 PM 4:45:00 PM	135	155.79 155.41	95.1 95.3	N/A N/A	0			
5:00:00 PM	145	158.32	97.1	N/A	0			
5:15:00 PM	150	156.65	100.8	N/A N/A	0			
5:30:00 PM	165	157.4	93.2	N/A	0			
5:45:00 PM	180	152.78	86.1	N/A	0			
6:00:00 PM	195	153.99	84.1	N/A	0			
6:15:00 PM	210	153.21	83.3	N/A	0			
6:30:00 PM	225	152.1	82.4	N/A	0			
			Test Result:					
	Pass							
Газэ								

Testing Witness		Company Representative
Name:	Name:	(b) (6)
Title:	Title:	Pond Project Manager
Date:	Date:	10/11/2024
Signature:	Signature:	
	(b) (6)	
		Pond Constructors Form 217 (6/2020)
	Notes:	
Weather started at 84 degrees and ended at 80 degrees during t sunlight before being moved inside within the first thirty (30) min water to 150 psi and recorded the readings every 15 minutes for During the test clouds formed over the testing location and record	utes. After attaching the h 4 hours.	
		Pond Constructors Form 217 (6/2020)



Print Date: Sunday, October 13, 2024 3:58:53 PM

Logger: Vaetrix HTGX-500-I-05-BT-RTD S/N 1726059821