



ULTRASONIC REPORT

CLIENT INFO

CUSTOMER / CLIENT:	RARE OILFIELD SERVICES	CLIENT JOB NO.:		REPORT NO. :	231214-UDT-1
CONTRACTOR:		CLIENT CODING:		PAGE:	1 OF 3
PROJECT:	UT ON SEPERATOR A0438682			DATE:	14-Dec-23
LOCATION / LSD:	TWIST OILFIELD MANUFACTURING, STETTLER, AB			TECHNICIAN:	DUSTIN TUCKER
CODE / CLIENT SPEC:	ASME VIII Div. 1 / ASME V Art. 5 (2021)	APPROVER:	TYLER HEBBLETHWAITE	ASSISTANT:	

METHOD

ECHO PROCEDURE: RCSS-NDT-UT-006 Rev 01 - Ultrasonic Thickness Measurement Technique - ASME V and ASME SE-797 *Daily Performance Calibration Completed as per T-462.1

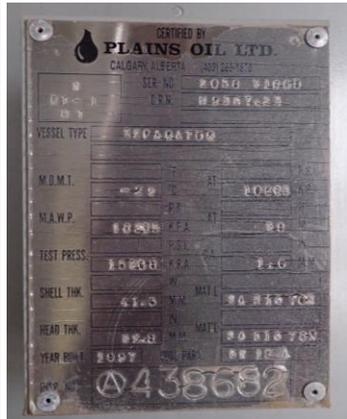
ECHO PROCEDURE/ADDENDUM:				SERIAL NO:	14080021	LAST CALIBRATION DATE:	17-Feb-23
MANUFACTURER / MODEL:	GE DMS/USM Go			SURF. CONDITION:	Painted	MATERIAL THICKNESS RANGE:	Various
MATERIAL TYPE:	Carbon Steel			CABLE LENGTH:	36"	COUPLANT TYPE:	Echogel20
SURFACE(S) INSPECTED FROM:	Outside Surface			CAL. BLOCK SN:	13-3270	CAL. BLOCK TYPE:	
CALIBRATION BLOCK TYPE:	1.000" STEP			CAL. BLOCK SN:		CAL. BLOCK TYPE:	

Transducer MFG	Angle (°)	Mode	Freq (MHz)	Dia (")	SN	Range	Ref Reflector	Ref FSH (%)	Ref dB	Transfer Value	Scan Level
Sonatest	0	Dual Comp.	5.00MHz	0.25"	1818/82	1.000"	Backwall	80	56	N/A	+6

EXAMINATION & TEST RESULTS

SCOPE: A ZERO DEGREE ULTRASONIC INSPECTION WAS PERFORMED ON SEPERATOR A0438682 AS REQUESTED BY THE CLIENT.
A LOW AND AVERAGE READING WAS RECORDED AT EACH CML.

RESULTS:



TML #	Dia.	Nom.	UT Low	UT Avg	% Wall Loss	Comments
00	36"	1.567	1.582	1.602	0.0%	Top Head
05	36"	1.626	1.615	1.624	0.7%	Shell
10	36"	1.626	1.622	1.629	0.2%	Shell
15	36"	1.626	1.623	1.631	0.2%	Shell
20	36"	1.567	1.579	1.588	0.0%	Bottom Head / 50%~ scanned
25	2.375"	0.343	0.316	0.329	7.9%	90° Drain Nozzle
30	2.375"	0.218	0.190	0.203	12.8%	45° Drain Elbow
35	8.625"	0.500	0.478	0.503	4.4%	90° Outlet Elbow
40	8.625"	0.500	0.470	0.484	6.0%	90° Outlet Elbow
45	8.625"	0.500	0.463	0.487	7.4%	90° Outlet Elbow
50	3.5"	0.300	0.276	0.287	8.0%	90° Outlet Elbow
55	8.625"	0.500	0.504	0.523	0.0%	90° Inlet Elbow
60	8.625"	0.500	0.480	0.499	4.0%	90° Inlet Elbow
65	2.375"	0.218	0.182	0.198	16.5%	90° Drain Elbow
70	2.375"	0.218	0.195	0.207	10.6%	90° Drain Elbow
75	2.375"	0.154	0.143	0.151	7.1%	90° PSV Outlet Elbow
80	3.5"	0.216	0.211	0.220	2.3%	90° PSV Outlet Elbow

QUANTITIES

REGULAR TIME:	FILM:	
OVERTIME:	CONSUMABLES:	
SHIFT PREMIUM:	EQUIPMENT:	
KILOMETERS:	EXPENSES:	
SUBSISTENCE:	MISCELLANEOUS:	SEE 231214-FDT-1

DUSTIN TUCKER
SNT-TC-1A / CGSB #17016 UTI / MTII
API 510 #102375 / ISI-PVPP #001460

CLIENT APPROVAL:

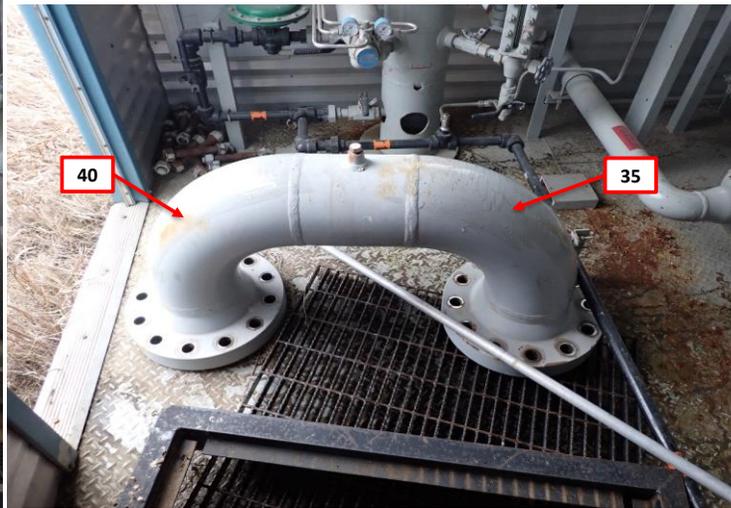
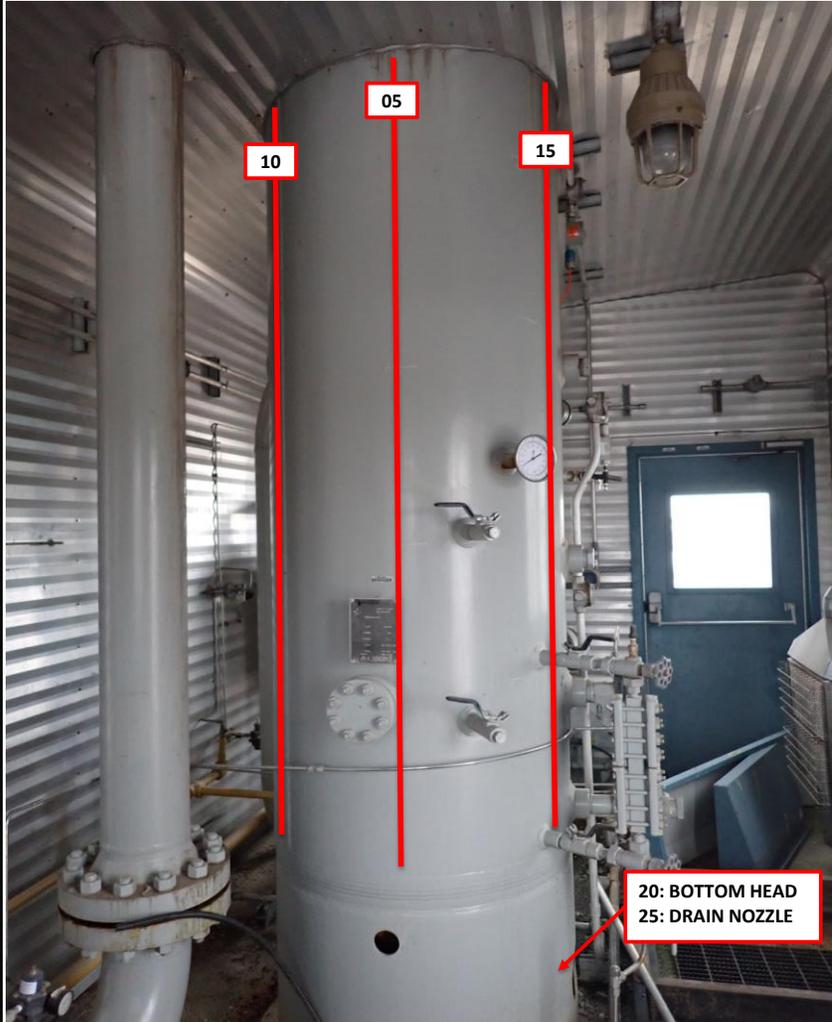


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EXAMINATION & TEST RESULTS



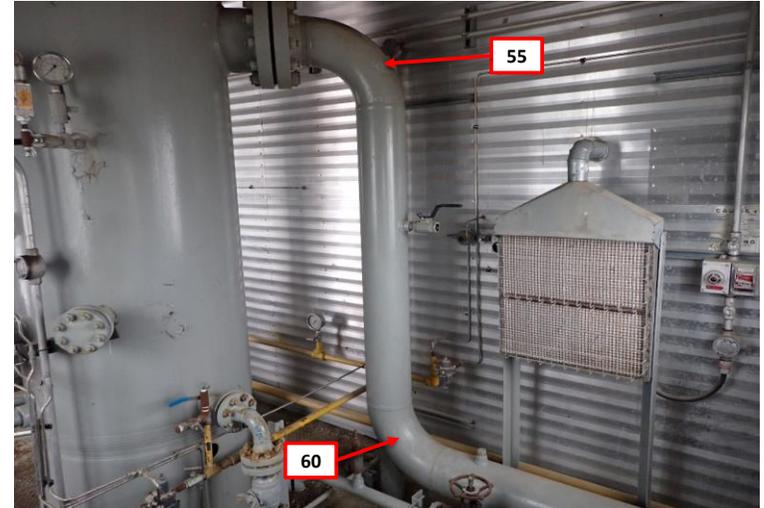
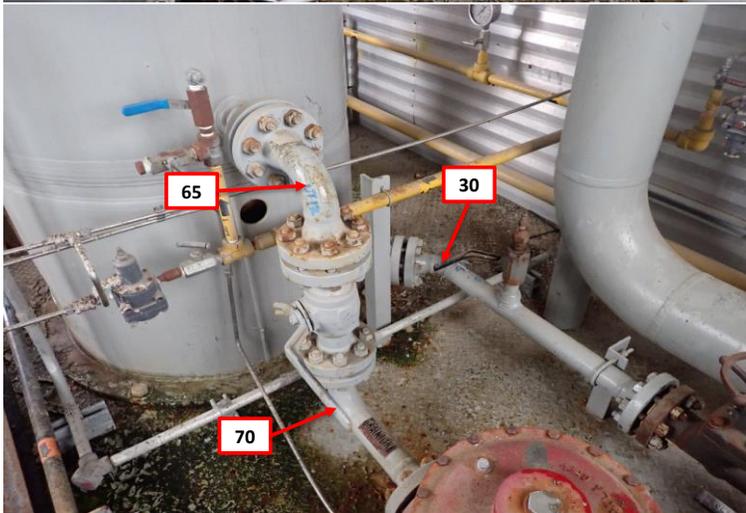


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EXAMINATION & TEST RESULTS





Vessel External Inspection Report

Client:	Rare Oilfield Services	District:	N/A	Date:	14-Dec-2023	
Surface LSD:	N/A	Downhole LSD:	N/A	Skid #:	N/A	
Description:	Seperator		RT:	1	HT:	Yes
Jur #:	A0438682	Equipment #:	N/A		CRN:	P4598.2
MFR:	Plains Oil Ltd	MFR S/N:	2058 V100B			
NB #:	N/A	Year Built:	1997		O.D.:	36 in
Shell MAWP:	1480 psi	Shell MAWT:	100 °F		Shell MDMT:	-20 °F
Tube MAWP:	N/A	Tube MAWT:	N/A		Tube MDMT:	N/A
Shell OP Pressure:	N/A	Shell OP Temp:	N/A		Manway (size):	N/A
Tube OP Pressure:	N/A	Tube OP Temp:	N/A		Cor. Allowance:	0.0630 in
Head Type:	Ellipsoidal	Head Material:	SA-516-70N		Head Nominal:	1.567 in
Shell type:	Plate	Shell Material:	SA-516-70N		Shell Nominal:	1.626 in
Status:	Disconnected	External Insulation:	No		Orientation:	Vertical
External Inspection					SERVICE:	Sour
ITEM:	CONDITION:		ITEM:		CONDITION:	
Vessel Nameplate:	Good		Ladders / Platforms:		N/A	
Vessel Head:	Good		Gauges:		Good	
Vessel Shell:	Good		Valves:		Good	
Vessel Paint / Coating:	Good		Piping:		Good	
Nozzles:	Good		Piping Coating:		Good	
Vessel Saddle / Skirt / Supports / Bolts:	Good		Flanges / Bolting per Code:		Good	
Insulation / Cladding:	N/A		Piping Supports:		Good	
Skid foundation / Supports:	N/A		Piping Insulation:		N/A	
Anodes:	N/A		Grounding:		N/A	
Instrumentation:	Good		Regulators Vented:		N/A	
<i>* Fair and Poor conditions require comment. Additional comments on page 2 as required.</i>						
External Inspection Comments:	Limited VE performed. Vessel is currently disconnected, not in service. Vessel and piping in acceptable external condition, level, well supported and secure. Vessel skirt is bolted to skid. Piping supports are in place. No signs of previous leakage. No damage or deformation noted.					
Fit for Service:						
YES						
PSV Details						
PSV#:		Make/Model:	26FA13-120	CRN:	0G2369.2	
MFR:	Farris	MFR S/N:	CE-44084-2-A10	MFR Date:	N/A	
Service Co.:	Southern Valve	Service Tag #:	16-628-8	Last Service:	26-Oct-16	
Set:	600 psi	Cap:	3936 scfm	PSV Side:	Shell	
Code:	NB / UV	Location:	Outlet piping	Vented to:	N/A	
Cap Seal:	Intact	Nameplate:	Secure, Legible	Drainage:	Good, no concerns	
Properly Supported:	Yes	External Body Condition:	Good, no concerns			
	Size:	Type:	Block Valve:	Locked / Carsealed:		
Inlet:	1.50 in	Flanged	No	N/A		
Outlet:	2.00 in	Flanged	No	N/A		
PSV Comments:	PSV set at / below MAWP, cap seal wire intact, properly installed in the vertical position. PSV is overdue for service. Service required before vessel is put back into service.					
Inspector:	Name: Dustin Tucker		Signature:			
	SNT-TC-1A / CGSB #17016 UTI / MTII API 510 #102375 / ISI-PVPP #001460					



Vessel Inspection Report

Jur #:	A0438682	MFR S/N:	2058 V100B	Equipment #:	N/A
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Nameplate



Vessel



Vessel



Vessel Skirt



PSV Nameplate



PSV Service Tag



Vessel Inspection Report

Jur #:	A0438682	MFR S/N:	2058 V100B	Equipment #:	N/A
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PSV Overview



Skid