



ULTRASONIC INSPECTION REPORT

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Procedure: <u>UT-0001</u>	Job/PO# _____	Date <u>12/07/2011</u>
Code: <u>ASME Sec V</u>	Client <u>CNRL</u>	
<u>ASME Sec VIII</u>	Location <u>Taber battery LSD:06-24-010-17W4M</u>	
Item Inspected: <u>Test Separator A2864631</u>		

SURFACE CONDITION: <u>Good</u>	MATERIAL: <u>Carbon Steel</u>
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EQUIPMENT: <u>Krautkramer DMS2</u>	MFG S/N: <u>020XP6</u>	CALIBRATION DATE: <u>10-Jan-11</u>
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SCAN METHOD: <u>CONTACT</u>	TRANSDUCER: <u>S/N FH2E 0200LL</u>		
CABLE: <u>Coaxial</u> TYPE: <u>LENGTH: 36"</u>	ANGLE: <u>0</u>		
TEST PIECE:	FREQ: <u>7.5 MHZ</u>		
DIS. AMP. CALIB:	CRYSTAL SZ: <u>1/4"</u>		

TRANSFER LOSS CALIBRATION: <input type="checkbox"/> Direct Comparison <input type="checkbox"/> Other	TL: <u>db</u>
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REFERENCE FLAW SIZE: <u>BackWall</u>	PRIMARY REFERENCE LEVEL: <u>55DB</u>	REFERENCE GAIN: <u>6</u>	<u>db</u>
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<input checked="" type="checkbox"/> Lamination <input type="checkbox"/> Shear <input checked="" type="checkbox"/> Thickness <input type="checkbox"/> Volumetric	SCAN METHOD: <input checked="" type="checkbox"/> Contact <input type="checkbox"/> Immersion
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RESULTS

Scope: Carry out UT examination of Test Separator A2864631.

Check for corrosion of the heads, shell, boot and outlet piping to verify integrity for service and identify any areas of concern.

Examination revealed the following:

Results: UT examination was carried out; all readings taken were 10" band scans with three readings per location/band.

Minimum, Maximum and Average readings were taken in each location and recorded.

All readings were found to be at or above nominal on the heads, shell, boot and outlet piping. Severe Pitting was found at base of level gauge.

No other areas of concern were found at the time of inspection.

Recommendations:

Continue to carry out UT corrosion survey's and visual external inspections at the required inspection frequencies.

See the attached drawing, pictures and UTM readings for locations and thicknesses recorded.

Final Comment:

Test Separator A2864631 was found fit for continued service.

X

Blair Verge
Verge's Inspection Services Ltd.

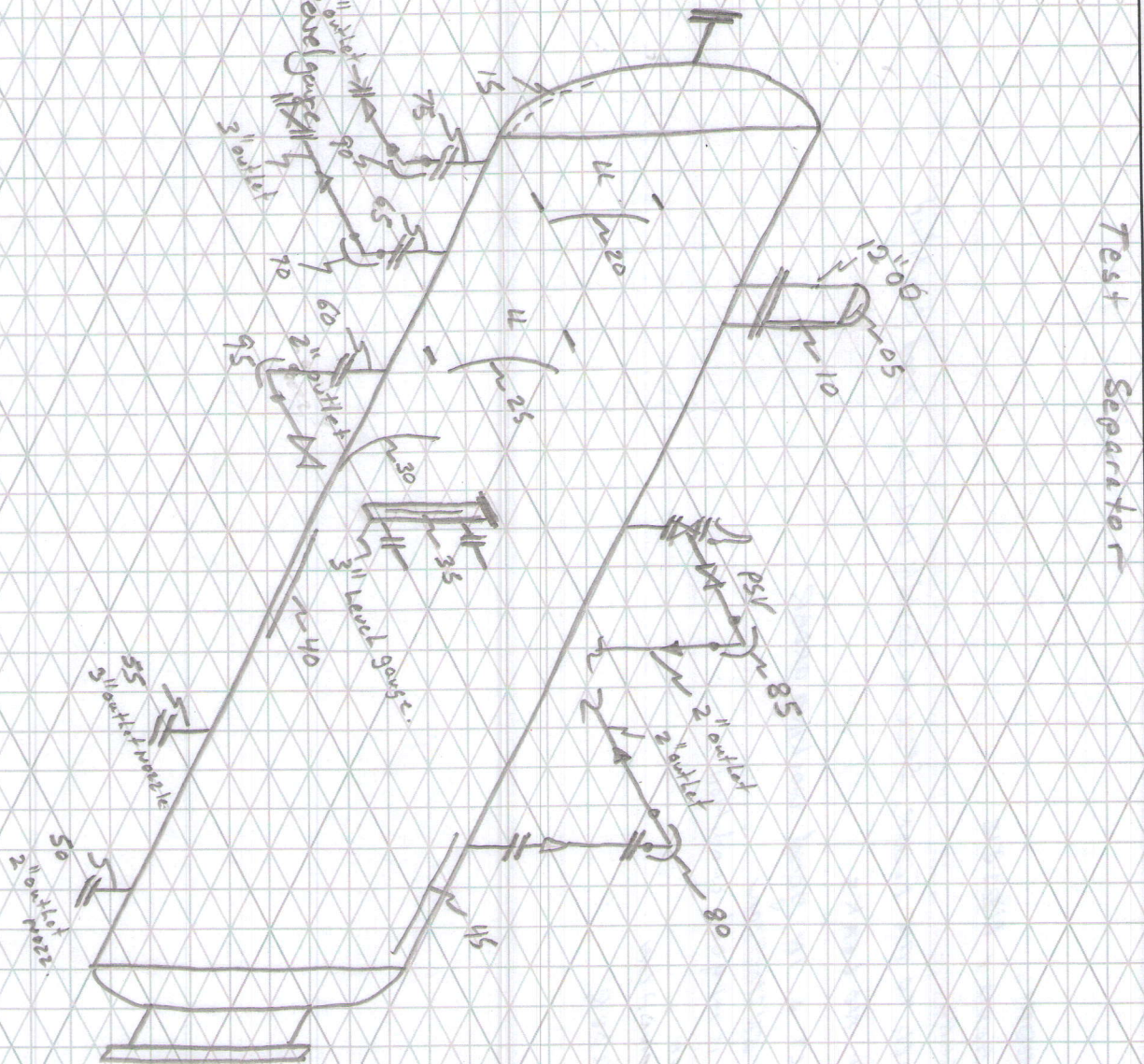
Unit # <u>1</u>	Kms:	Consumables:	Technician: <u>Blair Verge</u>
In:	Out:		CGSB Level: <u>1</u> CGSB#: <u>5586</u>
Personnel: <u>Blair Verge</u>			I am in full agreement with report contents:
<u>Gail Whitten</u>			Client Representative:



CORROSION INSPECTION SERVICES

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05 VIBNH T85B
 10 VIBNS T86"
 15 VSBH T8EB
 20 VULLS T8EB
 25 VLLS T8SB
 30 VMB S T8EB
 35 VMNS T8EB
 40 HMBS N5EB
 45 HNUS N5EB
 50 H020N WN 3"
 55 H030N WN 3"
 60 H020N WN 3"
 65 H030N WN 6"
 70 N030E TB 3"
 75 H030N WN 6"
 80 V020E RT 2"
 85 V020E TB 3"
 90 V030E TB 5"
 95 V020E TB 2"



CUSTOMER: CNRL FACILITY: TABER BATTERY LSD: 6-24-010-17W4
 P & ID: _____ DRAWN BY: B.VERGE DATE: July 12/11 DRAWING NO. _____

VESSEL INFORMATION:
 Equip. No. V 110 Pro. Reg. No. (A) 2864631 C.R.N. MO 788.2 Serial No. WE 93 246 Yr. Inst. _____
 Code/Div. _____ Size: 48" ID / OD X: _____ Manufacturer: WESTPAB Industries Ltd Yr. Bld. 1993
 C. Stamp: NO Service: SOUT PWHT: _____ J.E.: _____ Radiography: RT-3 Insulated: _____

HEAD:
 Top Mat'l. SA 516-70 Top Nom: 0.490" Top C.A. _____ Material: SA 516-70 Nominal: 0.500" C.A. _____
 Btm Mat'l. _____ Btm Norm: _____ Btm C.A. _____

BOOT:
 Head Mat'l.: _____ Head Nom. _____ Head C.A. _____ Top Mat'l. _____ Top Nom. _____ Top C.A. _____
 Shell Mat'l.: _____ Shell Nom. _____ Shell C.A. _____ Btm Mat'l. _____ Btm Norm. _____ Btm C.A. _____

MAWP Shell Side: 285 PSIG @ Temp. 100°F MAWP Tube Side: _____ @ Temp. _____

PIPING INFORMATION: MDMT 200°F @ 285 PSIG
 Circuit No. _____ Line No. (s) **(PLEASE PUT LINE NUMBERS ON APPLICABLE LINES ON THE DRAWING)**

Piping Class: _____ Service: _____ Yr. Bld. _____
 MAWP: _____ @ Temp. _____ Size & Schedule of Piping **(PLEASE PUT APPROPRIATE SIZES AND SCHEDULES OF PIPING ON DRAWING)**

UT Readings for Test Separator A2864631

	<u>Minimum</u>	<u>Maximum</u>	<u>Average</u>
LOC 5	0.345"	0.409"	0.348"
LOC 10	0.378"	0.402"	0.382"
LOC 15	0.489"	0.504"	0.501"
LOC 20	0.522"	0.526"	0.522"
LOC 25	0.524"	0.528"	0.526"
LOC 30	0.521"	0.524"	0.522"
LOC 35	0.159"	0.343"	0.320"
LOC 40	0.531"	0.533"	0.532"
LOC 45	0.524"	0.528"	0.527"
LOC 50	0.422"	0.445"	0.444"
LOC 55	0.616"	0.642"	0.633"
LOC 60	0.439"	0.446"	0.440"
LOC 65	0.579"	0.606"	0.598"
LOC 70	0.215"	0.220"	0.216"
LOC 75	0.580"	0.602"	0.596"
LOC 80	0.164"	0.167"	0.166"
LOC 85	0.158"	0.165"	0.164"
LOC 90	0.205"	0.229"	0.213"
LOC 95	0.162"	0.177"	0.164"

*** SEVERE PITTING @ END OF BAND SCAN ON TML 35 ***