



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 A2864617</u>		

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

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

**Scope:** Carry out UT examination of Test Separator A2864617.

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 A2864617 was found fit for continued service.

X

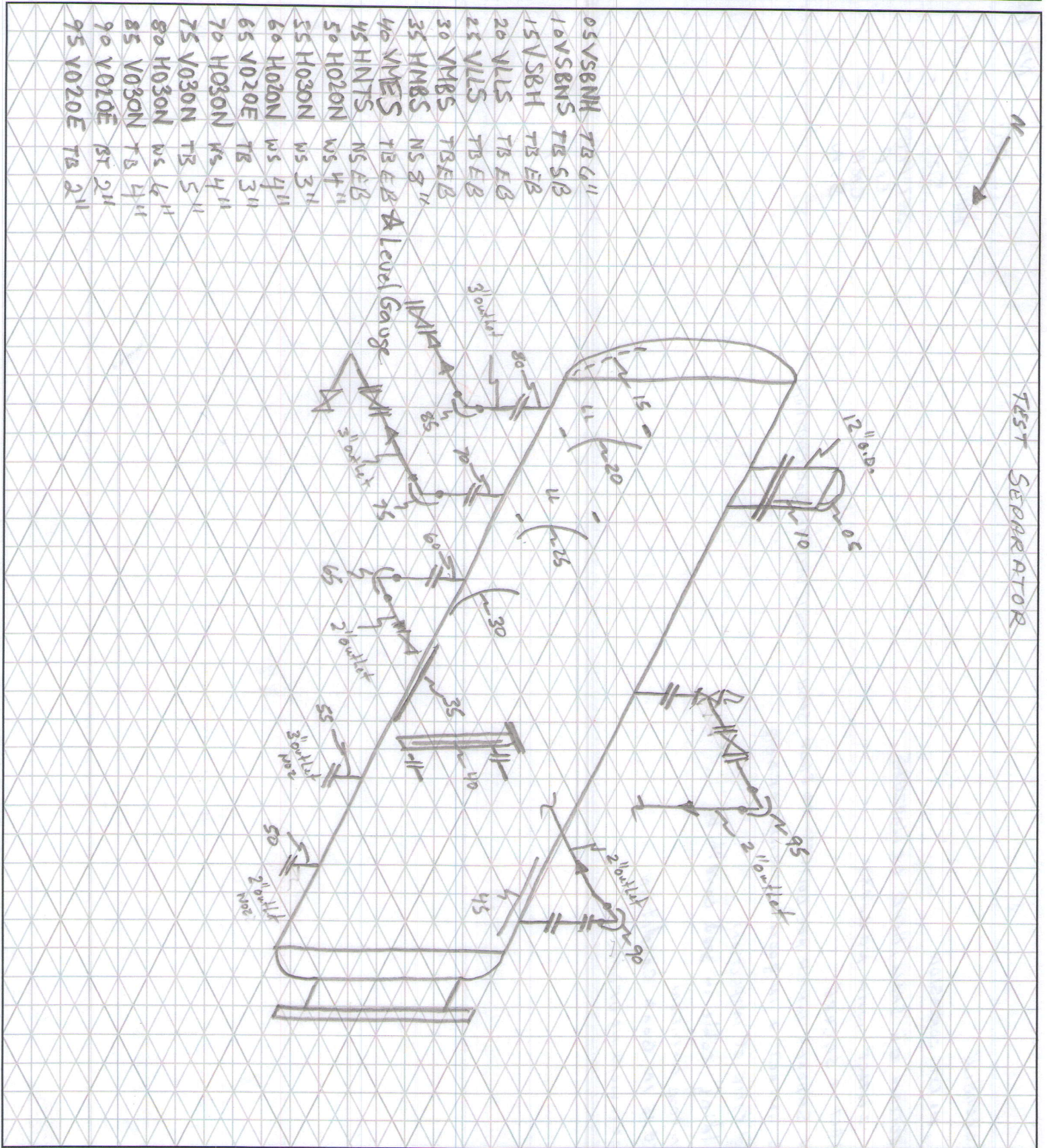
Blair Verge  
Verge's Inspection Services Ltd.

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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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 100 Pro. Reg. No. (A) 2864617 C.R.N. M0788.2 Serial No. WF93245 Yr. Inst. \_\_\_\_\_  
 Code/Div. \_\_\_\_\_ Size: 48" ID / OD X: \_\_\_\_\_ Manufacturer: WEST FAB Industries Ltd. Yr. Blt. 1993  
 C. Stamp: NO Service: Sour PWHT: \_\_\_\_\_ J.E.: \_\_\_\_\_ Radiography: RT-3 Insulated: \_\_\_\_\_

**HEAD:** Top Mat'l. SA 516-70 Top Nom: 0.500" 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 -20°F @ 285 PSIG  
 Circuit. No. \_\_\_\_\_ Line No. (s) **(PLEASE PUT LINE NUMBERS ON APPLICABLE LINES ON THE DRAWING)**  
 Piping Class: \_\_\_\_\_ Service: \_\_\_\_\_ Yr. Blt. \_\_\_\_\_  
 MAWP: \_\_\_\_\_ @ Temp. \_\_\_\_\_ Size & Schedule of Piping **(PLEASE PUT APPROPRIATE SIZES AND SCHEDULES OF PIPING ON DRAWING)**

## UT Readings for Test Separator A2864617

	<u>Minimum</u>	<u>Maximum</u>	<u>Average</u>
LOC 5	0.365"	0.413"	0.381"
LOC 10	0.415"	0.425"	0.425"
LOC 15	0.479"	0.511"	0.505"
LOC 20	0.518"	0.528"	0.521"
LOC 25	0.523"	0.533"	0.533"
LOC 30	0.521"	0.524"	0.523"
LOC 35	0.522"	0.526"	0.524"
LOC 40	0.162"	0.352"	0.350"
LOC 45	0.524"	0.528"	0.526"
LOC 50	0.428"	0.456"	0.448"
LOC 55	0.626"	0.660"	0.657"
LOC 60	0.439"	0.451"	0.449"
LOC 65	0.153"	0.165"	0.160"
LOC 70	0.596"	0.612"	0.602"
LOC 75	0.220"	0.228"	0.226"
LOC 80	0.586"	0.604"	0.598"
LOC 85	0.211"	0.238"	0.229"
LOC 90	0.159"	0.166"	0.161"
LOC 95	0.162"	0.178"	0.170"

\*\*\* SEVERE PITTING @ END OF BAND SCAN ON TML 40 \*\*\*