



# Diversified Technology Services

2045 Preisker Ln. Suite A, - Santa Maria, CA 93454 - (805) 928-6392

## Ultrasonic Inspection Data Report (Summary Report)

<b>Client:</b> DTS Client	<b>Location:</b> Somewhere USA	<b>Design Temp.:</b> 200 / N/A ° F	<b>Year Built:</b> 1984
<b>Date of Inspection:</b> March 8, 2004		<b>Design Press.:</b> 260 / N/A PSI	<b>Year of Inspection:</b> 2004
<b>Desc.:</b> Production Separator		<b>Corr. Allow.:</b> 0.1875 / N/A In.	<b>Max Interval in Years:</b> 5.0
<b>Equip:</b> V-1		<b>Service:</b> Production-Gas/Liquid	

TML Corrosion Rates are each a maximum of the following:

- (A) -- Calculated Corrosion Rates: Varies
- (B) -- Default Corrosion Rates: **0.002** In. / Year

TML life calculations are based on individual corrosion rates of each TML or the specified Default corrosion rate whichever is greater.

Nominal Thickness is used for TML corrosion rate calculations with less than three surveys.

The highest Calculated TML corrosion rate found in this circuit was: **0.0418** In. / Year

TML Inspection intervals are calculated as follows:

-- TML Remaining Life / 2 or **5.0** Years whichever is less.

This Vessel Estimated Life = **8.3** years from the most recent survey date.

The predicted Retirement Date of this vessel is: **June 7, 2012**

The recommended next UT inspection date is : **April 22, 2008**

Corrosion Allowances Used for Calculations:

ShellSide: **0.1875** In.  
Channel Side: **N/A** In.



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## Calculation Variable Summary Report

<u>Shell Side Materials</u>	<u>Eff.</u>	<u>Stress Value</u>
Shell A-516-70	1.00	17,500
Shell 2 N/A	N/A	N/A
Shell 3 N/A	N/A	N/A
Shell 4 N/A	N/A	N/A

Formula =  $t = Pr / SE - 0.6P$

<u>Shell Side Materials</u>	<u>Eff.</u>	<u>Stress Value</u>
E Head A-516-70	1.00	17,500
E Head 2 N/A	N/A	N/A
E Head 3 N/A	N/A	N/A

Formula =  $t = PD / 2SE - 0.2P$

<u>Shell Side Materials</u>	<u>Eff.</u>	<u>Stress Value</u>
H Head N/A	N/A	N/A
H Head 2 N/A	N/A	N/A
H Head 3 N/A	N/A	N/A

Formula =  $t = Pr / 2SE - 0.2P$

<u>Shell Side Materials</u>	<u>Eff.</u>	<u>Stress Value</u>
Nozzle A A-105	1.00	17,500
Nozzle B A-106-B	1.00	15,000
Nozzle C N/A	N/A	N/A
Nozzle D N/A	N/A	N/A
Nozzle E N/A	N/A	N/A
Nozzle F N/A	N/A	N/A

Formula =  $t = Pr / SE - 0.6P$

<u>Channel Side Materials</u>	<u>Eff.</u>	<u>Stress Value</u>
Channel N/A	N/A	N/A
Channel 2 N/A	N/A	N/A

Formula =  $t = Pr / SE - 0.6P$

<u>Channel Side Materials</u>	<u>Eff.</u>	<u>Stress Value</u>
Chan E HD N/A	N/A	N/A

Formula =  $t = PD / 2SE - 0.2P$

<u>Channel Side Materials</u>	<u>Eff.</u>	<u>Stress Value</u>
Chan H HD N/A	N/A	N/A

Formula =  $t = Pr / 2SE - 0.2P$

<u>Channel Side Materials</u>	<u>Eff.</u>	<u>Stress Value</u>
Nozzle CA N/A	N/A	N/A
Nozzle CB N/A	N/A	N/A
Nozzle CC N/A	N/A	N/A
Nozzle CD N/A	N/A	N/A

Formula =  $t = Pr / SE - 0.6P$

I the undersigned have reviewed and accept the values used in this report to determine the minimum thicknesses calculated in the attached report. These values are to be used as the minimum standards to evaluate the corrosion rates on this vessel. These values are being used due the unavailability of the original manufacturers data.

Not Applicable \_\_\_\_\_ Not Applicable \_\_\_\_\_  
 Printed Name Signature  
 \_\_\_\_\_  
 Date

\*\* Manufacturer U-1A Forms were available for this piece of equipment. \*\*