



Metallurgical Chemistry and Testing Laboratory

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Pipeline Equities
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P.O. No. Verbal/DH
Report No. 07-3237-2

IDENTIFICATION: 8" Pipe .310 Wall Thickness

WELD TRANSVERSE TENSILE TEST

(0.2% Offset)

<u>Dimensions</u>	<u>Area</u>	<u>Y. S. psi</u>	<u>Ult. Ld. Lbs.</u>	<u>T.S. psi</u>	<u>%El in 2"</u>	<u>Fracture</u>
1.516 x .230	.3487	34,400	17,800	51,000	48.0	Base

TRANSVERSE BASE METAL TENSILE TEST

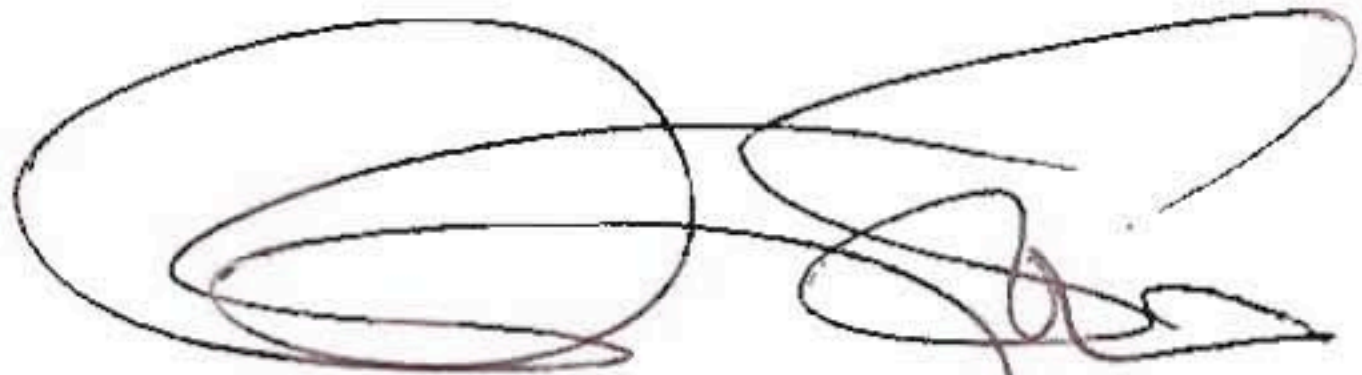
(0.2% Offset)


<u>Dimensions</u>	<u>Area</u>	<u>Y. S. psi</u>	<u>Ult. Ld. Lbs.</u>	<u>T.S. psi</u>	<u>%El in 2"</u>	<u>Fracture</u>
1.512 x .310	.4687	28,800	23,900	51,000	47.0	----

CHEMICAL ANALYSIS

Pipe

<u>Carbon</u> .072	<u>Sulfur</u> .045	<u>Manganese</u> .40	<u>Phosphorus</u> .016	<u>Silicon</u> .004	<u>Chromium</u> .02	<u>Molybdenum</u> .002
<u>Nickel</u> .01	<u>Copper</u> .034	<u>Vanadium</u> .001	<u>Columbium</u> .000	<u>Titanium</u> .001	<u>Aluminum</u> .029	<u>Tin</u> .012
			<u>Calcium</u> .0000	<u>Iron</u> Balance		<u>Boron</u> .0000


Ray Smoko
Chemist
Sc


Donald Derrick
Mechanical Testing Supervisor

Our letters and reports are for the exclusive use of the client to whom they are addressed. Our reports apply only to the actual sample tested and are not necessarily indicative of the properties of other identical or similar materials.