Alpha Resources, Inc. Certificate Of Analysis

AR 956 CARBON STEEL CHIP STANDARD LOT # 0190980

% CARBON MEAN = 0.492 ONE SIGMA = 0.005 TWO SIGMA = 0.010 RANGE = 0.482 - 0.502 % SULFUR MEAN = 0.300 ONE SIGMA = 0.005 TWO SIGMA = 0.010 RANGE = 0.290 - .310

PPM NITROGEN MEAN= 88 PPM ONE SIGMA= 5 PPM TWO SIGMA= 10 PPM RANGE= 78 - 98 PPM

Method of Analysis is ASTM E 1019 (Latest Revision)

Primary Standards Employed:

NIST BCS SRM 14e, 50c, 129, 133b, 163, 346a, 368

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Notes:

The mean analytical values were derived by a number of data sets utilizing various ASTM approved instruments.

The precision values represent the standard deviation, two times the standard deviation, and complete range of analysis.

The statistical analysis and the overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer at Alpha Resources.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Alpha Resources be liable for incidental or consequential damages.

This is a Certified Reference Material (CRM), and is traceable to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified prior to use.

Certified October, 2002

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