Feb 11, 2004 MF MXVC 13:51:45 Page 1 of 1 MATERIAL CERTIFICATE No. 200339186 Sandvik Materials Technology P.O. Box 1220, Scranton, PA 18501 PH. (570) 585-7500 Plant Location: 982 Griffin Pond Road, Clarks Summit, PA 18411 Sold To: 632580 Ship To: SANDVIK DE MEXICO GAISA FORWARDING INC TLALNEPANTLA, EDO MEXICO LAREDO TX Customer Order No: 450502 Certification Date: 20031104 Sandvik Order No: 14341/1 Work Order/Lot: 512470 \_\_\_\_\_\_

ASTM A312-01a, ASME SA-312, ASME Section II 2001 Edition; 2003 Addenda

Hot Finished PROCESS ANNEALED AND PICKLED Seamless Pipe Type TP316/TP316L (UNS S31600/S31603) Size: 2" SCH 40 Heat: 459887

Si P С Mn Heat .014 .034 .010 16.87 11.23 .48 1.64

Fe Mo Al Pb

2.01 Heat .003

Mechanical Tests:

ANALYSIS %

Yield Strength Tensile Elongation Reduct:
0.2% 1.0% Strength in % Of Are
psi MPa psi MPa psi MPa E2" E10" E4d E5d %
43200 297.9 N/A 89600 617.9 49 N/A N/A N/A N/A Hydrostatic Test (psi): 2070

Flattening Test per ASTM A530: Acceptable Tensile Test sample width (1=Full-Size 2=1/2" Strip): 2 Country Of Origin: United States All material subjected to a final solution annealing heat

treatment with material at a temperature of 1900 deg.F. minimum followed by rapid quenching. The material has not come in contact with Mercury or Mercury

containing compounds. No welding has been performed on this material.

Material has been manufactured/supplied in accordance with Sandvik Materials Technology Quality Manual-Standard Products Revision 6 dated October 9, 2003. Quality system has been approved to ISO 9001:2000.

Certificate produced in accordance with EN 10204 (DIN 50049) 3.1.B.

Melt Source: AB Sandvik Materials Technology, Swe This is to certify that the contents of this certificate are correct and accurate as contained in Sandvik's records, and that all above test results and operations performed are in compliance with the requirements of the purchase order and the specification(s) listed above.

Kurt Revak, Quality Specialist 10 (A/SA312 R13) (10) (RWB)

Authorized Representative

Cr

Elongation Reduction

Ni

Of Area