

MATERIAL TEST CERTIFICATE

QUALITY CERTIFICATE

DATE: September 28, 1998

AMERICAN ENERGY SERVICES
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CUSTOMER
 FERRETERA ANAHUAC S.A. DE C.V.
 AV. VALLE DE LAS ALAMEDAS NO. 66-B
 COL. SAN FRANCISCO CHILPAN
 TULITLAN, EMEX, C.P. 54940

AES CONTROL NO.: 3352
CUSTOMER P.O.: 98/005
ITEM NO.: 27
QUANTITY: 2
SIZE & DESCRIPTION
 10" 600# GATE VALVE
AES FIG. NO.: 10GA06RHA11

IDENTIFICATION NOS.
 39485-38939
COMPLIES WITH NACE MR-0175

HEAT NO.	MATERIAL: ASTM A216 GR WCB												
	CHEMICALS												
	C.	Mn.	P.	S.	Si.	Cu.	Ni.	Cr.	Mo.	V.			
A726	0.24	0.78	0.030	0.018	0.50	0.032	0.032	0.042	0.013	0.001			
S207	0.21	0.86	0.031	0.031	0.31	0.026	0.033	0.036	0.016	0.007			
A720	0.22	0.93	0.019	0.015	0.48	0.029	0.020	0.027	0.018	0.011			
S208	0.24	0.80	0.025	0.024	0.48	0.042	0.019	0.041	0.015	0.001			
S0211	0.23	0.90	0.024	0.022	0.54	0.030	0.028	0.033	0.024	0.001			

PHYSICALS				
TENSILE	YIELD	%EL	%RA	BHN
512	307	24.0	50.0	142
485	323	28.6	47.0	151
508	310	23.0	47.0	139
503	276	28.0	49.0	148
540	325	28.0	47.0	152

HEAT TREATMENT
 1650°F NORMALIZE

PRESSURE TEST
 API 598 1990

psl	SEAT	A	SEAT	B	BACK SEAT
HYDRO	HYDRO	AIR	HYDRO	AIR	AIR
2225		80		80	80

SECONDS	120	120	120	120

DIMENSIONS CONFORM TO ASME/ANSI B16.34

Our letters are for the exclusive use of the client to whom they are addressed. The use of our name must receive our written approval. Our letters and reports apply only to the sample tested and/or inspected, and are not necessarily indicative of the qualities of apparently identical or similar products. We certify the materials meet the referenced specifications as reported on the material manufacturer's test certificates which are maintained in our files. The information contained in this report is true and correct to the best of my knowledge. This report is issued by the Quality Assurance Department which is independent of the Manufacturing or Processing Department. It conforms to Din Standard 50049-3.1B and to ISO standard 10474-3.1B.

[Signature]
 QUALITY ASSURANCE