FLM-005-7

FRICARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE: PLESA ANAHUAC Y CIAS. S.A. DE C.V.

LOS ANDES

PEDIDO CLIENTE P.O.

REMISION (NUMERO) 2669

PARTIDA (S)

ITEMS: 5/16 (8) / 5/16 (9)

NUMERO: PEM-73719-I-2009

NUMBER:

FECHA:

DATE: ENERO 05, 2009

PLANTIO:

DIAMETRO: 16"

ESPESOR DE PARED

WALL THICKNESS: 0.312"

GRADO:

GRADE: ASTM A53-B

PRUEBA HIDROSTATICA:

HYDROSTATIC TEST: 50 Kg/cm² 500 PSI

PRUEBAS DE TENSION

TENSILE TEST

ANALISIS QUIMICO % EN PESO

CHEMICAL ANALYSIS PERCENT BY WEIGHT

ITEM DESCRIPTION	COLADA HEAT	LIMITE FLUENCIA YIELD STRENGTH (PSI)	ULTIMA RESISTENCIA TENSILE STRENGTH (PSI)	ELONG. %	TIPO DE VARILLA	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
3-5	Tc	175232	63 834	64 301	35	0.64	0.140	0.79	0.012	0.007	0.004	0.004	0.004	0.284	0.020	0.040	0.0027	0.020	0.020	0.008	0.0058	
	Ts			69 287																		
9-7	Tc	175293	58 146	64 092	34	0.63	0.110	0.76	0.015	0.004	0.001	0.004	0.005	0.271	0.020	0.040	0.0016	0.020	0.020	0.003	0.0040	
	Ts			69 554																		
10-7	Tc	175236	54 247	62 927	35	0.66	0.132	0.79	0.009	0.005	0.004	0.004	0.005	0.300	0.030	0.049	0.0020	0.020	0.030	0.008	0.0071	
	Ts			69 366																		
5-5	Tc	275194	55 696	65 527	34	0.65	0.145	0.79	0.014	0.003	0.003	0.004	0.005	0.303	0.010	0.033	0.0029	0.020	0.020	0.007	0.0081	
	Ts			68 711																		
4-1	Tc	284173	62 736	70 578	36	0.66	0.083	1.15	0.013	0.003	0.020	0.005	0.012	0.343	0.010	0.036	0.0016	0.020	0.020	0.006	0.0068	
	Ts			75 213																		
2-9	Tc	284174	60 804	71 471	36	0.65	0.090	1.17	0.012	0.004	0.019	0.004	0.009	0.300	0.030	0.029	0.0016	0.020	0.020	0.007	0.0084	
	Ts			75 748																		

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

ASTM A53-B -06

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ING. FERNANDO OSORIO PEREZ

GERENTE DE ASEGURAMIENTO DE CALIDAD

QUALITY ASSURANCE MANAGER