

ANEXOS

ANEXO 1a. Análisis petrográfico secciones 1 y de reconocimiento.

Relación del estudio petrográfico de las láminas delgadas de la Primera Sección estratigráfica realizada a detalle, y de la Sección de reconocimiento de la Formación Morelos.

MUES- TRAS	TEXTURAS					CLASIFICACIÓN SEGÚN DUNHAM	ESPESOR (cm)	FACIES
	Mst	Wst	Pst	Gst	Bst			
A-1						PACKSTONE DE BIOCLASTOS Y PELOIDES	110	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-1a						PACKSTONE DE BIOCLASTOS Y PELOIDES	100	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-2						WACKESTONE DE PELOIDES	150	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-3						WACKESTONE DE PELOIDES	180	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-4						WACKESTONE DE PELOIDES	120	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-5						WACKESTONE A PACKSTONE DE BIOCLASTOS	160	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-6						PACKSTONE DE BIOCLASTOS	200	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-7						PACKSTONE DE BIOCLASTOS	340, 90, 90,20	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-8						PACKSTONE DE PELOIDES Y BIOCLASTOS	300	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-9						WACKESTONE DE PELOIDES	40	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-10						MUDSTONE	100	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-11						GRAINSTONE DE BIOCLASTOS Y PELOIDES	40	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-11a						PACKSTONE DE PELOIDES Y BIOCLASTOS	50	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-12						PACKSTONE DE PELOIDES Y BIOCLASTOS	250	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-13						PACKSTONE DE PELOIDES Y BIOCLASTOS	210	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS

A-13a		PACKSTONE A GRAINSTONE DE PELOIDES Y BIOCLASTOS	50,50	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-14		PACKSTONE DE PELOIDES	20	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS			
A-14a		PACKSTONE A GRAINSTONE DE PELLETS	40	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-14b		PACKSTONE DE PELOIDES Y BIOCLASTOS	165	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS			
A-14c		PACKSTONE DE PELOIDES Y BIOCLASTOS	80	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS			
A-14d		GRAINSTONE DE PELOIDES Y BIOCLASTOS	20,125, 90	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-14e		GRAINSTONE DE PELLETS	140, 400	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-14f		GRAINSTONE DE PELLETS	25	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-15		GRAINSTONE DE BIOCLASTOS Y PELOIDES	40, 45	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-16		GRAINSTONE DE PELOIDES Y BIOCLASTOS	320, 100,	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-17		GRAINSTONE DE PELOIDES	160, 550	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-18		PACKSTONE DE PELOIDES	80,40	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS			
A-19		PACKSTONE DE PELOIDES	50, 20	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS			
A-19b		PACKSTONE DE PELOIDES	75	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS			
A-20		PACKSTONE DE BIOCLASTOS E INTRACLASTOS	55	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES			
A-21		GRAINSTONE DE PELOIDES	30	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-21a		WACKESTONE A PACKSTONE DE PELOIDES Y BIOCLASTOS	30	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS			
A-21b		PACKSTONE A GRAINSTONE DE PELOIDES	40	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
MUES- TRAS	TEXTURAS					CLASIFICACIÓN SEGÚN DUNHAM	FACIES
	Mst	Wst	Pst	Gst	Bst		
A-22		PACKSTONE A GRAINSTONE DE PELOIDES Y BIOCLASTOS		F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			
A-23		PACKSTONE A GRAINSTONE DE PELOIDES		F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS			

A-24		GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-25		GRAINSTONE DE PELOIDES	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-26		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-27		WACKESTONE A PACKSTONE DE PELOIDES	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-28		WACKESTONE A PACKSTONE DE PELOIDES	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-29		WACKESTONE A PACKSTONE DE PELOIDES	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-30		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-31		GRAINSTONE DE INTRACLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-32		GRAINSTONE DE INTRACLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-33		GRAINSTONE DE INTRACLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-34		GRAINSTONE DE INTRACLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-35		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-36		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-37		WACKESTONE-PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-38		GRAINSTONE DE INTRACLASTOS Y BIOCLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-39		GRAINSTONE DE INTRACLASTOS Y BIOCLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-40		GRAINSTONE DE BIOCLASTOS E INTRACLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-41		GRAINSTONE DE INTRACLASTOS Y BIOCLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-42		MUDSTONE-WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-43		GRAINSTONE DE BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-44		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-45		PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-46		PACKSTONE-GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-47		GRAINSTONE DE BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE

			BIOCLASTOS Y PELOIDES/PELLETS
A-48		GRAINSTONE DE BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-49		WACKESTONE DE ONCOIDES	F2: WACKESTONE DE ONCOIDES
A-50		BOUNDSTONE (MATRIZ: PACKSTONE-GRAINSTONE DE PELOIDES)	F1: BOUNDSTONE DE ESTROMATOLITOS
A-51		BOUNDSTONE (MATRIZ: PACKSTONE-GRAINSTONE DE PELOIDES)	F1: BOUNDSTONE DE ESTROMATOLITOS
A-52		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-53A		WACKESTONE A PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-53b		BOUNDSTONE (MATRIZ: PACKSTONE-GRAINSTONE DE PELOIDES)	F1: BOUNDSTONE DE ESTROMATOLITOS
A-54		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-55		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-56		PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-57		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-58		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-59		PACKSTONE A GRAINSTONE DE BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-60 INF		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-60		WACKESTONE-PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-60 SUP		PACKSTONE-GRAINSTONE DE BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-61		PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-62		PACKSTONE-GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-63		WACKESTONE-PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-64		WACKESTONE-PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-65		PACKSTONE A GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-66		GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS

A-67		MUDSTONE-WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-68		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-69		PACKSTONE DE PELOIDES Y BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-70		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-71		PACKSTONE DE PELOIDES Y BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-72		PACKSTONE A GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-73		PACKSTONE-GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-74		GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-75		WACKESTONE A PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-76		PACKSTONE DE INTRACLASTOS, PELOIDES Y BIOCLASTOS	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-77		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-78		PACKSTONE A GRAINSTONE DE PELOIDES	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-79		PACKSTONE DE BIOCLASTOS E INTRACLASTOS	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-80		GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-81		GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-82		PACKSTONE DE INTRACLASTOS Y BIOCLASTOS	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-83		MUDSTONE A WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-84		GRAINSTONE DE PELOIDES E INTRACLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-85		PACKSTONE DE PELOIDES Y BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-86		PACKSTONE-GRAINSTONE DE PELLETS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-87		PACKSTONE-GRAINSTONE DE PELLETS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-88		WACKESTONE-PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS

A-89		GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-90		PACKSTONE-GRAINSTONE DE PELOIDES	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-91		GRAINSTONE DE INTRACLASTOS Y PELOIDES E	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-92		GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-93		PACKSTONE DE PELOIDES	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-94		WACKESTONE A PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-95		WACKESTONE A PACKSTONE DE BIOCLASTOS Y PELOIDES	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-96		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-97		PACKSTONE-GRAINSTONE DE PELOIDES	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-98		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-99		PACKSTONE-GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-100		PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-101		GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-102		MUDSTONE A WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-103		WACKESTONE-PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-104		WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-104B		GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-105		PACKSTONE DE PELOIDES	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-106		PACKSTONE DE BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-107		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-108		PACKSTONE-GRAINSTONE DE PELOIDES, INTRACLASTOS Y BIOCLASTOS	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-109		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-110		PACKSTONE DE PELOIDES Y BIOCLASTOS	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-111		PACKSTONE DE PELOIDES Y	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS

		BIOCLASTOS	
A-112		PACKSTONE A GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-113		WACKESTONE DE BIOCLASTOS	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
A-114		GRAINSTONE DE BIOCLASTOS Y PELOIDES	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-115		PACKSTONE A GRAINSTONE DE PELOIDES	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-116		PACKSTONE - GRAINSTONE DE PELOIDES	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-117		PACKSTONE-GRAINSTONE DE PELOIDES Y BIOCLASTOS	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
A-118		PACKSTONE DE PELOIDES	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-119		PACKSTONE DE PELOIDES	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
A-120		BOUNDSTONE (MATRIZ: PACKSTONE-GRAINSTONE DE PELOIDES)	F1: BOUNDSTONE DE ESTROMATOLITOS
A-121		WACKESTONE DE BIOCLASTOS E INTRACLASTOS	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
A-122		WACKESTONE DE BIOCLASTOS E INTRACLASTOS	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES

ANEXO 1b. Análisis petrográfico de la sección 2.

Relación del estudio petrográfico de las láminas delgadas de la Segunda Sección estratigráfica de la Formación Morelos, realizada a detalle.

MUES-TRAS	TEXTURAS					CLASIFICACIÓN SEGÚN DUNHAM	ESPESOR (cm)	FACIES
	Mst	Wst	Pst	Gst	Bst			
C-1						BOUNDSTONE DE TOUCASIAS (MATRIZ: PACKSTONE A GRAINSTONE DE PELOIDES)	-	F3: BOUNDSTONE DE TOUCASIAS
C-2						BOUNDSTONE DE TOUCASIAS (MATRIZ: PACKSTONE A GRAINSTONE DE PELOIDES)	80	F3: BOUNDSTONE DE TOUCASIAS
C-3						BOUNDSTONE DE ESTROMATOLITOS	70	F1: BOUNDSTONE DE ESTROMATOLITOS

C-4		GRAINSTONE DE PELOIDES	50	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-5		PACKSTONE A GRAINSTONE DE INTRACLASTOS Y PELOIDES	20	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-6		BOUNDSTONE DE ESTROMATOLITOS (MATRIZ: PACKSTONE - GRAINSTONE DE PELOIDES)	100, 200, 103, 163	F1: BOUNDSTONE DE ESTROMATOLITOS
C-7		PACKSTONE A GRAINSTONES DE PELOIDES E INTRACLASTOS	128	F1: BOUNDSTONE DE ESTROMATOLITOS
C-8		GRAINSTONE DE PELOIDES, INTRACLASTOS Y BIOCLASTOS	80, 15	F1: BOUNDSTONE DE ESTROMATOLITOS
C-8'		PACKSTONE DE PELOIDES - BIOCLASTOS - INTRACLASTOS		F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-9		BOUNDSTONE DE ESTROMATOLITOS (MATRIZ: PACKSTONE DE PELOIDES)	80	F1: BOUNDSTONE DE ESTROMATOLITOS
C-10		PACKSTONE DE PELOIDES Y BIOCLASTOS	104	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-10'		PACKSTONE DE PELOIDES, BIOCLASTOS E INTRACLASTOS		F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-11		MUDSTONE	31	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
C-12		WACKESTONE DE BIOCLASTOS	71	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
C-13		WACKESTONE DE INTRACLASTOS Y BIOCLASTOS	52	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-14		PACKSTONE DE INTRACLASTOS Y PELOIDES	80	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-15		WACKESTONE DE INTRACLASTOS Y BIOCLASTOS	44	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-16		PACKSTONE DE INTRACLASTOS	83	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-17b		BOUNDSTONE DE CHONDRODONTA Y OTROS RUDISTAS (MATRIZ: PACKSTONE DE PELOIDES Y BIOCLASTOS)	30	F4: BOUNDSTONE DE CHONDRODONTA Y RUDISTAS
C-17		PACKSTONE DE PELOIDES Y BIOCLASTOS	81	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-17'		PACKSTONE DE PELOIDES Y BIOCLASTOS		
C-18		PACKSTONE DE BIOCLASTOS Y PELOIDES	36	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-19		GRAINSTONE DE BIOCLASTOS, PELOIDES E INTRACLASTOS	52	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES

C-20		GRAINSTONE DE BIOCLASTOS, PELOIDES E INTRACLASTOS	25, 21	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-21		GRAINSTONE DE INTRACLASTOS	49	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-21`		GRAINSTONE DE INTRACLASTOS		
C-22b		PACKSTONE-GRAINSTONE DE INTRACLASTOS Y PELOIDES	40	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-22		PACKSTONE-GRAINSTONE DE BIOCLASTOS	50	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-22c		GRAINSTONE DE INTRACLASTOS Y PELOIDES	54	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-23		WACKESTONE A PACKSTONE DE BIOCLASTOS E INTRACLASTOS	117	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-23`		PACKSTONE A GRAINSTONE DE INTRACLASTOS Y PELOIDES		F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-24		BOUNDSTONE DE ESTROMATOLITOS (MATRIZ: PACKSTONE- GRAINSTONE DE PELOIDES)	26	F1: BOUNDSTONE DE ESTROMATOLITOS
C-25		PACKSTONE DE PELOIDES	12	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-26		PACKSTONE A GRAINSTONE DE PELOIDES	49	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-27		WACKESTONE-PACKSTONE DE BIOCLASTOS Y PELOIDES	35	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-28		WACKESTONE - PACKSTONE DE PELOIDES	17.5	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-29		BOUNDSTONE DE ESTROMATOLITOS (MATRIZ: WACKESTONE -PACKSTONE DE PELOIDES)	100	F1: BOUNDSTONE DE ESTROMATOLITOS
C-30b		BOUNDSTONE DE ESTROMATOLITOS (MATRIZ: WACKESTONE -PACKSTONE DE PELOIDES)	14	F1: BOUNDSTONE DE ESTROMATOLITOS
C-30c		BOUNDSTONE DE ESTROMATOLITOS (MATRIZ: WACKESTONE -PACKSTONE DE PELOIDES)	14	F1: BOUNDSTONE DE ESTROMATOLITOS
C-31		GRAINSTONE DE BIOCLASTOS	57	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-32		PACKSTONE DE INTRACLASTOS	170	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-33c		WACKESTONE - PACKSTONE DE BIOCLASTOS Y PELOIDES	69	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS

C-33b		PACKSTONE-GRAINSTONE DE PELOIDES Y BIOCLASTOS	70	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-34		PACKSTONE DE PELOIDES Y BIOCLASTOS	45	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-35		WACKESTONE DE BIOCLASTOS	116	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
C-36		WACKESTONE DE BIOCLASTOS	80	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
C-37b		PACKSTONE-GRAINSTONE DE INTRACLASTOS, PELOIDES Y BIOCLASTOS	60	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-37		BOUNDSTONE DE CHONDRODONTA RUDISTAS (MATRIZ: PACKSTONE A GRAINSTONE DE PELOIDES Y BIOCLASTOS)	12	F4: BOUNDSTONE DE CHONDRODONTA Y RUDISTAS
C-37c		WACKESTONE DE BIOCLASTOS	112	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
C-38		PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES	132 + 95	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-39		GRAINSTONE DE PELOIDES Y BIOCLASTOS	22	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-40		WACKESTONE-PACKSTONE DE INTRACLASTOS Y BIOCLASTOS	45	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-41b		WACKESTONE-PACKSTONE DE BIOCLASTOS	127+70	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-41		BOUNDSTONE DE ESTROMATOLITOS	20	F1: BOUNDSTONE DE ESTROMATOLITOS
C-41c		WACKESTONE-PACKSTONE DE BIOCLASTOS	130	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-42		GRAINSTONE DE PELLETS	78	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-43		MUDSTONE-WACKESTONE DE BIOCLASTOS	50	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
C-44		WACKESTONE DE BIOCLASTOS	100	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-45b		GRAINSTONE DE PELLETS E INTRACLASTOS	30	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-45		GRAINSTONE DE BIOCLASTOS	10	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-45c		GRAINSTONE DE PELLETS E INTRACLASTOS	35	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-46		PACKSTONE-GRAINSTONE DE PELOIDES Y BIOCLASTOS	60	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS

C-47		WACKESTONE-PACKSTONE DE PELLETS Y BIOCLASTOS	100	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-48		WACKESTONE DE BIOCLASTOS E INTRACLASTOS	400	F7: WACKESTONE-PACKSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-49		PACKSTONE-GRAINSTONE DE PELOIDES	85	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
C-49'		BOUNDSTONE DE ESTROMATOLITOS	25	F1: BOUNDSTONE DE ESTROMATOLITOS
C-50		MUDSTONE-WACKESTONE DE BIOCLASTOS	78	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS
C-51		WACKESTONE DE PELOIDES	123	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-52		WACKESTONE-PACKSTONE DE BIOCLASTOS	60	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
C-53		GRAINSTONE DE PELLETS, INTRACLASTOS Y BIOCLASTOS	120	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
C-54		GRAINSTONE DE PELLETS, INTRACLASTOS Y BIOCLASTOS	80	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES

ANEXO 1c. Análisis petrográfico de la sección 3.

Relación del estudio petrográfico de las láminas delgadas de la Tercer sección estratigráfica de la Formación Morelos realizada a detalle.

MUES -TRAS	TEXTURAS					CLASIFICACIÓN SEGÚN DUNHAM	ESPESOR (cm)	FACIES
	Mst	Wst	Pst	Gst	Bst			
D - 1						PACKSTONE-GRAINSTONE DE PELOIDES E INTRACLASTOS	35	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
D - 2						PACKSTONE-GRAINSTONE DE PELOIDES E INTRACLASTOS	35+21+15+ 34+53	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
D - 3						PACKSTONE DE PELOIDES	40+13+27+ 28	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
D - 4						PACKSTONE DE BIOCLASTOS	27+28+60	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
D - 5						WACKESTONE DE BIOCLASTOS	30	F8: MUDSTONE-WACKESTONE DE BIOCLASTOS

D - 6		GRAINSTONE DE BIOCLASTOS	60	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
D - 7		GRAINSTONE DE PELOIDES	70	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
D - 8		GRAINSTONE DE BIOCLASTOS	110	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
D - 9		WACKESTONE DE BIOCLASTOS - PACKSTONE DE PELOIDES	100+87	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
D - 10		PACKSTONE DE BIOCLASTOS	240+30	F9: WACKESTONE-PACKSTONE DE PELOIDES Y BIOCLASTOS
D - 11b		PACKSTONE DE PELOIDES A GRAINSTONE DE PELOIDES Y BIOCLASTOS	20+40+34+ 27+20+80+ 63	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
D - 11		BOUNDSTONE DE ESTROMATOLITOS	20+20+10	F1: BOUNDSTONE DE ESTROMATOLITOS
D - 11c		PACKSTONE DE PELOIDES A GRAINSTONE DE PELOIDES Y BIOCLASTOS	80+63	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
D - 12		GRAINSTONE DE INTRACLASTOS Y BIOCLASTOS	50+20+66+ 38	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
D - 12a		PACKSTONE A GRAINSTONE DE NERINEAS Y PELOIDES	50+20+66+ 38	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
D - 13		PACKSTONE A GRAINSTONE DE NERINEAS Y PELOIDES	250	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
D - 14		PACKSTONE A GRAINSTONE DE NERINEAS Y PELOIDES	180	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
D - 15		PACKSTONE A GRAINSTONE DE PELOIDES Y BIOCLASTOS	110	F10: PACKSTONE-GRAINSTONE DE BIOCLASTOS Y PELOIDES/PELLETS
D - 16		GRAINSTONE DE PELOIDES E INTRACLASTOS	35	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES
D - 17		GRAINSTONE DE INTRACLASTOS Y PELOIDES	35+25	F6: GRAINSTONE DE INTRACLASTOS, BIOCLASTOS Y PELOIDES

Anexo 2a. Mediciones de Scan Lines

SCAN LINE 1

MUESTRA C-2

ORIENTACIÓN SCAN LINE

273°, 61°

AZIMUT	ECHADO	APERTURA (mm)	SISTEMA	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
002°	83°	0.075	S1	12	12.0375
		0.175	S1	2	14.1625
146°	72°	0.62	S7	1	15.56
		0.075	S7	3	18.9075
54°	77°	0.075	S2	8	26.9825
		0.33	S1	14	41.185
		0.115	S7	15	56.4075
		0.33	S7	31	87.63
		1.75	S1	4	92.67
		0.062	S1	60	153.576
9°	78°	0.4	S1	11	164.807
		0.95	S1	3	168.482
		0.265	S2	1	170.0895
		0.14	S2	26	196.292
		0.175	S1	10	206.4495
		0.14	S7	21	227.607
		0.175	S7	13	240.7645
		0.33	S7	16	257.017
		0.095	S2	18	275.2295
		0.4	S7	10	285.477
		0.062	S1	20	305.708
		0.075	S7	15	320.7765
		0.062	S7	7	327.845
		0.62	S1	4	332.186
		0.75	S1	57	389.871
		0.5	S1	9	399.496
		0.062	S7	22	421.777
		0.05	S7	7	428.833
		0.062	S2	5	433.889
		0.33	S7	22	456.085
		0.095	S7	33	489.2975

		0.5	S2	10	499.595
		0.095	S7	4	503.8925
		0.095	S7	26	529.9875
		0.075	S7	10	540.0725
345°	80°	0.75	S4	6	546.485
		0.95	S7	9	556.335
		0.4	S7	25	582.01
		0.4	S2	11	593.41
		0.075	S7	28	621.6475
		0.265	S7	58	679.8175
		0.75	S7	19	699.325
		0.62	S7	11	711.01
		0.4	S4	25	736.52
		0.215	S4	62	798.8275
		0.095	S4	6	804.9825
		1.75	S4	12	817.905
		0.215	S4	7	825.8875
		0.14	S4	22	848.065
		0.4	S4	12	860.335
					860.535

SCAN LINE 2

MUESTRA CUA-4

ORIENTACIÓN SCAN LINE 73°, 32°

AZIMU T	ECHAD O	APERTURA (mm)	SISTEM A	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
190°	86°	0.33	S1	2	2.165
		0.4	S1	31	33.53
103°	63°	0.5	S6	23	56.98
		0.75	S1	34	91.605
		0.4	S6	11	103.18
		0.4	S1	13	116.58
		0.265	S1	8	124.9125
		0.4	S1	7	132.245
		0.33	S1	2	134.61
		0.095	S1	3	137.8225

		0.4	S1	31	169.07
		0.14	S1	35	204.34
15°	41°	0.115	S5	2	206.4675
		0.4	S1	4	210.725
		0.4	S1	8	219.125
		0.33	S5	1	220.49
		0.215	S1	20	240.7625
		0.4	S6	10	251.07
		0.215	S5	1	252.3775
		0.33	S1	17	269.65
		0.4	S1	10	280.015
		0.265	S1	12	292.3475
		0.33	S1	4	296.645
		0.4	S1	13	310.01
		0.175	S1	2	312.2975
		0.4	S1	27	339.585
		0.33	S1	7	346.95
		0.62	S1	26	373.425
					373.735

SCAN LINE 3

MUESTRA CUA-5

ORIENTACIÓN SCAN LINE 130°, 36°

AZIMU T	ECHAD O	APERTURA (mm)	SISTEM A	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
76°	71°	1.15	S8	61	61.575
220°	88°	0.75	S2	25	87.525
292°	58°	0.5	S7	73	161.15
		0.5	S8	6	167.65
		0.75	S7	10	178.275
		1.15	S7	26	205.225
335°	62°	0.62	S4	85	291.11
		0.4	S4	9	300.62
		1.75	S8	46	347.695
		0.1265	S8	12	360.6325
		1.4	S7	73	434.3965

		0.75	S2	18	453.4715
		0.62	S2	12	466.1565
		0.175	S8	19	485.554
		0.33	S8	7	492.8065
		0.75	S8	52	545.3465
		0.95	S2	58	604.1965
		0.95	S8	47	652.1465
		2.15	S8	88	741.6965
		1.75	S8	27	770.6465
9°	50°	0.215	S5	335	1106.629
		0.215	S5	13	1119.844
		0.33	S5	5	1125.1165
		0.5	S2	57	1182.5315
				8	1190.7815

SCAN LINE 4

MUESTRA CUA-7

ORIENTACIÓN SCAN LINE 70°, 52°

AZIMU T	ECHAD O	APERTURA (mm)	SISTEM A	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
162°	83°	0.75	S4	14	14.375
		0.215	S4	80	94.8575
306°	70°	0.5	S7	40	135.215
		1.15	S4	28	164.04
		1.15	S7	30	195.19
		1.75	S4	77	273.64
		0.95	S7	37	311.99
		1.5	S7	55	368.215
		1.4	S7	75	444.665
		0.75	S7	12	457.74
200°	74°	0.115	S1	15	473.1725
		0.4	S4	30	503.43
		0.75	S7	33	537.005
		0.14	S1	70	607.45
		0.95	S4	15	622.995
		1.15	S7	32	656.045
293°	78°	0.75	S7	5	661.995

		0.95	S7	14	676.845
279°	59°	2.15	S6	92	770.395
		1.15	S6	56	828.045
		2.65	S4	52	881.945
		0.5	S6	10	893.52
		0.14	S6	7	900.84
		0.62	S6	49	950.22
		1.15	S6	38	989.105
		1.15	S4	6	996.255
		0.75	S6	47	1044.205
		1.15	S4	41	1086.155
				12	1098.73

SCAN LINE 5

MUESTRA CUA-8

ORIENTACIÓN SCAN LINE 44°, 58°

AZIMUT	ECHADO	APERTURA (mm)	SISTEMA	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
302°	68°	0.75	S7	0	0.375
		0.14	S7	14	14.82
		0.4	S7	10	25.09
		0.5	S7	10	35.54
		0.5	S7	12	48.04
		0.62	S7	7	55.6
		0.5	S7	62	118.16
		0.33	S7	12	130.575
		0.33	S7	4	134.905
		0.75	S7	33	168.445
		0.62	S7	20	189.13
		0.215	S7	18	207.5475
		0.14	S7	6	213.725
		0.265	S7	19	232.9275
		0.115	S7	5	238.1175
		0.75	S7	32	270.55
		0.215	S7	11	282.0325
		0.175	S7	22	304.2275
		0.5	S7	10	314.565

		0.175	S7	18	332.9025
		0.265	S7	22	355.1225
		0.215	S7	22	377.3625
		0.4	S7	8	385.67
				13	398.87

SCAN LINE 6

MUESTRA CUA-27

ORIENTACIÓN SCAN LINE 160°, 52°

AZIMUT	ECHADO	APERTURA (mm)	SISTEMA	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
204°	55°	0.265	S5	28	28.1325
		0.215	S5	6	34.3725
345°	70°	0.075	S4	3	37.5175
		0.265	S4	3	40.6875
		0.4	S4	11	52.02
		0.175	S5	19	71.3075
		0.62	S5	76	147.705
		0.4	S4	1	149.215
		0.14	S4	118	267.485
		6	S5	14	284.555
		0.4	S5	1	288.755
		0.33	S5	2	291.12
		0.4	S5	23	314.485
		2.15	S5	6	321.76
		1.15	S5	7	330.41
		0.95	S5	23	354.46
		0.4	S5	1	356.135
		0.4	S5	2	358.535
		0.14	S5	4	362.805
		0.175	S5	2	364.9625
		0.175	S4	6	371.1375
		0.62	S4	9	380.535
		0.215	S5	34	414.9525
		0.14	S5	1	416.13
		0.265	S5	6	422.3325
		0.062	S5	4	426.496

		0.4	S5	28	454.727
		0.95	S5	4	459.402
		0.75	S5	11	471.252
		0.5	S5	13	484.877
		0.33	S5	28	513.292
		0.5	S5	3	516.707
		0.215	S5	5	522.0645
		0.14	S5	3	525.242
		0.5	S5	4	529.562
		0.75	S5	17	547.187
		0.5	S4	2	549.812
		0.14	S5	21	571.132
		0.175	S5	1	572.2895
		0.33	S5	4	576.542
		0.115	S5	2	578.7645
		0.075	S5	4	582.8595
		0.62	S5	10	593.207
		0.5	S4	33	626.767
		0.115	S5	21	648.0745
		0.095	S5	1	649.1795
		1.15	S5	8	657.802
		0.062	S5	14	672.408
		0.175	S5	2	674.5265
		0.075	S5	3	677.6515
		0.175	S5	2	679.7765
		0.5	S5	2	682.114
		0.4	S4	3	685.564
		0.175	S5	9	694.8515
		0.62	S4	7	702.249
		0.175	S5	9	711.6465
		0.175	S5	2	713.8215
		4	S5	8	723.909
		0.33	S5	9	735.074
		0.14	S5	8	743.309
		0.115	S5	12	755.4365
		0.175	S5	64	819.5815
		0.05	S5	11	830.694
		0.05	S5	2	832.744

		0.14	S4	25	857.839
				6	863.909

SCAN LINE 7

MUESTRA CUA-43

ORIENTACIÓN SCAN LINE 90°, 65°

AZIMU T	ECHAD O	APERTURA (mm)	SISTEM A	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
342°	68°	0.14	S4	25	25.07
		0.062	S4	4	29.171
		0.095	S4	6	35.2495
		0.115	S4	9	44.3545
274°	71°	0.175	S6	16	60.4995
		0.75	S4	15	75.962
		0.095	S4	8	84.3845
		0.215	S4	8	92.5395
24°	55°	0.215	S5	83	175.7545
		0.265	S5	4	179.9945
		0.14	S5	46	226.197
247°	74°	0.095	S8	2	228.3145
		0.75	S4	11	239.737
		0.14	S8	25	265.182
		0.095	S8	5	270.2995
		0.075	S4	8	278.3845
		0.062	S4	20	298.453
		0.05	S8	49	347.509
		0.075	S8	13	360.5715
		0.14	S4	38	398.679
		0.115	S8	9	407.8065
		0.4	S8	7	415.064
		0.265	S4	35	450.3965
		0.095	S4	10	460.5765
		0.14	S8	1	461.694
		0.062	S8	16	477.795
		0.14	S4	4	481.896
		0.175	S8	11	493.0535
		0.5	S8	55	548.391

		0.05	S5	29	577.666
		0.115	S8	12	589.7485
		0.14	S8	8	597.876
		0.075	S8	3	600.9835
		0.115	S5	27	628.0785
		0.4	S4	21	649.336
				17	666.536

SCAN LINE 8

MUESTRA CUA-45

ORIENTACIÓN SCAN LINE 120°, 57°

AZIMU T	ECHAD O	APERTURA (mm)	SISTEM A	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
20°	62°	0.33	S5	23	23.165
339°	58°	0.4	S4	39	62.53
		0.33	S4	38	100.895
255°	81°	0.265	S8	1	102.1925
		0.62	S4	36	138.635
		0.215	S4	47	186.0525
233°	74°	0.062	S2	30	216.191
		0.4	S4	25	241.422
		0.33	S4	8	249.787
		0.33	S2	29	279.117
		0.5	S4	8	287.532
		0.265	S4	7	294.9145
		0.14	S4	30	325.117
		0.215	S2	10	335.2945
		0.4	S4	4	339.602
		0.33	S2	7	346.967
132°	62°	0.115	S7	3	350.1895
		0.175	S8	4	354.3345
		0.5	S4	84	438.672
		0.4	S4	35	474.122
		0.14	S7	6	480.392
		0.75	S4	33	513.837
		0.33	S7	22	536.377
		0.33	S4	3	539.707

		0.4	S4	3	543.072
		0.62	S4	18	561.582
		0.4	S4	35	597.092
		0.062	S4	19	616.323
		0.33	S4	14	630.519
				6	636.684

SCAN LINE 9

MUESTRA CUA-46

ORIENTACIÓN SCAN LINE 90°, 65°

AZIMU T	ECHAD O	APERTURA (mm)	SISTEM A	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
357°	66°	0.4	S4	40	40.2
		0.075	S4	93	133.4375
		0.175	S4	8	141.5625
		0.4	S4	90	231.85
		0.215	S4	11	243.1575
		0.5	S4	17	260.515
		0.4	S4	22	282.965
265°	71°	0.265	S6	10	293.2975
		0.4	S4	30	323.63
		0.62	S4	9	333.14
		0.4	S6	1	334.65
		0.175	S4	5	339.9375
		0.062	S4	14	354.056
		0.62	S4	12	366.397
		0.4	S4	6	372.907
		0.75	S4	8	381.482
		0.075	S4	100	481.8945
		0.5	S4	19	501.182
		0.175	S6	67	568.5195
		0.14	S4	1	569.677
		0.05	S6	20	589.772
		0.062	S4	17	606.828
		0.075	S4	6	612.8965
		1.4	S4	3	616.634
		0.095	S4	4	621.3815

		0.33	S4	21	642.594
		0.095	S4	3	645.8065
		0.265	S4	39	684.9865
		0.33	S4	9	694.284
		0.075	S4	71	765.4865
		0.095	S4	12	777.5715
		0.215	S4	11	788.7265
				5	793.834

SCAN LINE 10

MUESTRA D-3

ORIENTACIÓN SCAN LINE 90°, 65°

AZIMU T	ECHAD O	APERTURA (mm)	SISTEM A	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
226°	87°	0.4	S2	5	5.2
341°	47°	0.62	S4	2	7.71
		0.62	S4	25	33.33
		0.5	S2	83	116.89
		0.62	S4	12	129.45
		0.4	S2	83	212.96
		0.5	S4	57	270.41
		0.33	S2	42	312.825
		0.265	S4	37	350.1225
		0.33	S4	51	401.42
		0.33	S2	2	403.75
		0.265	S2	33	437.0475
		0.5	S4	7	444.43
		0.33	S2	28	472.845
		0.4	S4	14	487.21
		0.33	S2	23	510.575
		0.4	S4	24	534.94
		0.33	S2	2	537.305
		0.5	S4	18	555.72
		0.62	S4	13	569.28
		0.62	S2	2	571.9
		0.33	S2	16	588.375
				7	595.54

SCAN LINE 11

MUESTRA D-10

ORIENTACIÓN SCAN LINE 90°, 65°

AZIMU T	ECHAD O	APERTURA (mm)	SISTEM A	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
170°	70°	0.4	S4	26	26.2
292°	23°	0.05	S3	15	41.425
227°	65°	0.14	S2	31	72.52
		0.4	S4	69	141.79
		0.075	S3	19	161.0275
		0.075	S3	20	181.1025
		0.062	S3	60	241.171
		0.62	S4	31	272.512
		0.095	S4	21	293.8695
		0.4	S2	33	327.117
		0.33	S2	53	380.482
		0.5	S4	24	404.897
		0.062	S4	1	406.178
		0.14	S2	14	420.279
		0.62	S4	3	423.659
		0.33	S2	13	437.134
		0.33	S4	36	473.464
		0.062	S3	5	478.66
		0.33	S4	30	508.856
		0.075	S4	19	528.0585
		0.4	S4	1	529.296
		0.095	S2	45	574.5435
		0.115	S4	35	609.6485
		0.115	S4	19	628.7635
				18	646.821

SCAN LINE 12

MUESTRA A-14a

ORIENTACIÓN SCAN LINE 90°, 65°

AZIMU T	ECHAD O	APERTURA (mm)	SISTEM A	DISTANCIA (mm)	DISTANCIA ACUMULATIVA (mm)
					0
272°	46°	0.5	S6	5	5.25
		0.75	S6	7	12.875

332°	70°	0.33	S4	45	58.415
		0.215	S4	18	76.6875
281°	26°	0.14	S3	56	132.865
		0.4	S4	26	159.135
		0.33	S4	13	172.5
		0.5	S3	25	197.915
		0.4	S3	36	234.365
		0.215	S3	28	262.6725
		0.33	S3	9	271.945
		0.33	S3	18	290.275
		0.33	S3	6	296.605
		0.4	S3	2	298.97
297°	74°	0.4	S7	38	337.37
		0.5	S4	15	352.82
		1.15	S4	4	357.645
		1.4	S4	12	370.92
		0.95	S7	29	401.095
		0.62	S6	49	450.88
		0.4	S3	15	466.39
		0.33	S4	15	481.755
		0.4	S6	10	492.12
		0.265	S4	45	537.4525
		0.5	S4	50	587.835
		0.75	S4	24	612.46
		0.14	S4	14	626.905
		0.33	S4	93	720.14
		0.265	S4	23	743.4375
				4	747.57

Anexo 2b. Correcciones de los datos de Scan Lines.

SCAN LINE 1

MUESTRA CUA-2

ORIENTACIÓN SCAN LINE 273°, 61°

FAMILIA 1		$\beta = 85.33^\circ$				
AZIMUT	ECHAD O	APERTURA (mm)	DISTANCI A A. (mm)	DIST. REAL (mm)	APERTURA R. (mm)	
002°	83°	0.075	12.0375	11.9975379	0.07475101	
		0.175	14.1625	14.1154833	0.17441903	
		0.33	41.185	41.0482739	0.32890447	
		1.75	92.67	92.3623539	1.74419035	
		0.062	153.576	153.066158	0.06179417	
9°	78°	0.4	164.807	164.259873	0.39867208	
		0.95	168.482	167.922673	0.94684619	
		0.175	206.4495	205.764129	0.17441903	
		0.062	305.708	304.69311	0.06179417	
		0.62	332.186	331.083208	0.61794172	
		0.75	389.871	388.576705	0.74751015	
		0.5	399.496	398.169752	0.4983401	
FAMILIA 2		$\alpha =$ $\beta = 56.41^\circ$				
AZIMUT	ECHAD O	APERTURA (mm)	DISTANCI A A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
54°	77°	0.075	26.9825	20.0517601	16.7034708	0.06247633
		0.265	170.0895	126.400217	105.293616	0.22074969
		0.14	196.292	145.872328	121.514229	0.11662248
		0.095	275.2295	204.533898	170.380354	0.07913668
		0.062	433.889	322.440031	268.598248	0.0516471
		0.5	499.595	371.268751	309.273436	0.41650884
		0.4	593.41	440.986378	367.349452	0.33320707
FAMILIA 7C		$\alpha = 61^\circ$ $\beta = 55.91^\circ$				
AZIMUT	ECHAD O	APERTURA (mm)	DISTANCI A A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)

146°	72°	0.62	15.56	13.6090826	11.2704457	0.51345682
		0.075	18.9075	16.5368721	13.6951126	0.06211171
		0.115	56.4075	45.0490325	37.3076339	0.09523796
		0.33	87.63	69.9844297	57.9580368	0.27329153
		0.14	227.607	181.775033	150.538113	0.11594186
		0.175	240.7645	192.283079	159.240417	0.14492733
		0.33	257.017	205.262903	169.989738	0.27329153
		0.4	285.477	227.99207	188.813037	0.33126247
		0.075	320.7765	256.183504	212.159947	0.06211171
		0.062	327.845	261.828659	216.835017	0.05134568
		0.062	421.777	336.84609	278.961165	0.05134568
		0.05	428.833	342.481262	283.627967	0.04140781
		0.33	456.085	364.245677	301.652302	0.27329153
		0.095	489.2975	390.770358	323.618881	0.07867484
		0.095	503.8925	402.426444	333.271939	0.07867484
		0.095	529.9875	423.266837	350.53104	0.07867484
		0.075	540.0725	431.321077	357.201208	0.06211171
		0.95	556.335	444.308886	367.957142	0.78674835
		0.4	582.01	464.813853	384.938457	0.33126247
		0.075	621.6475	496.469768	411.154498	0.06211171
		0.265	679.8175	542.926396	449.627841	0.21946138
		0.75	699.325	558.505778	462.530002	0.62111712
		0.62	711.01	567.837834	470.258402	0.51345682
FAMILIA 4				$\alpha = 72^\circ$	$\beta = 88^\circ$	
AZIMUT	ECHAD O	APERTURA (mm)	DISTANCI A A. (mm)	DIST.1	DIST. REAL	APERTURA R.
345°	80°	0.75	546.485	519.738617	519.422011	0.74954313
		0.4	736.52	700.472814	700.046111	0.39975633
		0.215	798.8275	759.730825	759.268024	0.21486903
		0.095	804.9825	765.584583	765.118217	0.09494213
		1.75	817.905	777.874623	777.400769	1.74893396
		0.215	825.8875	785.466439	784.987961	0.21486903
		0.14	848.065	806.558515	806.067188	0.13991472
		0.4	860.335	818.227989	817.729554	0.39975633

SCAN LINE 2

MUESTRA CUA-4

ORIENTACIÓN SCAN LINE 73°, 32°

FAMILIA 1C			$\alpha = 90^\circ$ $\beta = 65.1^\circ$			
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
190°	86°	0.33	2.165	2.165	1.96375089	0.29932462
		0.4	33.53	33.53	30.4131951	0.36281772
		0.75	91.605	91.605	83.0897923	0.68028322
		0.4	116.58	116.58	105.743223	0.36281772
		0.265	124.9125	124.9125	113.30117	0.24036674
		0.4	132.245	132.245	119.952072	0.36281772
		0.33	134.61	134.61	122.097232	0.29932462
		0.095	137.8225	137.8225	125.011112	0.08616921
		0.4	169.07	169.07	153.353978	0.36281772
		0.14	204.34	204.34	185.34543	0.1269862
		0.4	210.725	210.725	191.136908	0.36281772
		0.4	219.125	219.125	198.75608	0.36281772
		0.215	240.7625	240.7625	218.382251	0.19501452
		0.33	269.65	269.65	244.584493	0.29932462
		0.4	280.015	280.015	253.986007	0.36281772
		0.265	292.3475	292.3475	265.172131	0.24036674
		0.33	296.645	296.645	269.070154	0.29932462
		0.4	310.01	310.01	281.192801	0.36281772
		0.175	312.2975	312.2975	283.267664	0.15873275
		0.4	339.585	339.585	308.018636	0.36281772
		0.33	346.95	346.95	314.699017	0.29932462
		0.62	373.425	373.425	338.713014	0.56236746
FAMILIA 6			$\alpha = 44^\circ$ $\beta = 65.56^\circ$			
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
103°	63°	0.5	56.98	39.5816339	36.0349231	0.45519752
		0.4	103.18	51.59	46.96728	0.36415802
		0.4	251.07	125.535	114.286441	0.36415802
FAMILIA 5			$\alpha = 36^\circ$ $\beta = 83.97^\circ$			
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)

15°	41°	0.115	206.4675	121.358552	120.687078	0.11436371
		0.33	220.49	129.60077	128.883693	0.32817412
		0.215	252.3775	148.343773	147.522991	0.21381041

SCAN LINE 3

MUESTRA CUA-5 ORIENTACIÓN SCAN LINE 130°, 36°

FAMILIA 8				$\alpha = 54^\circ$	$\beta = 75.3^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
76°	71°	1.15	61.575	49.8152214	48.1846573	1.11235792
		0.5	167.65	135.631699	131.192169	0.48363388
		1.75	347.695	281.291164	272.083872	1.69271857
		0.1265	360.63325	291.758428	282.208519	0.12235937
		0.175	485.554	392.821438	379.963509	0.16927186
		0.33	492.8065	398.688833	385.638852	0.31919836
		0.75	545.3465	441.194586	426.753296	0.72545081
		0.95	652.1465	527.597601	510.328146	0.91890437
		2.15	741.6965	600.045073	580.404249	2.07962567
		1.75	770.6465	623.466115	603.058668	1.69271857
FAMILIA 2C				$\alpha = 90^\circ$	$\beta = 88.82^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
220°	88°	0.75	87.525	87.525	87.5064388	0.74984095
		0.75	453.4715	453.4715	453.375334	0.74984095
		0.62	466.1565	466.1565	466.057644	0.61986852
		0.95	604.1965	604.1965	604.06837	0.94979854
		0.5	1182.5315	1182.5315	1182.28072	0.49989397
			1190.7815	1190.7815	1094.77429	
FAMILIA 7				$\alpha = 18^\circ$	$\beta = 15.42^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
292°	58°	0.5	161.15	49.7980886	13.240945	0.13294632
		0.75	178.275	55.0900047	14.6480265	0.19941948

		1.15	205.225	63.4180127	16.8623824	0.30577653
		1.4	434.3965	134.235901	35.6923373	0.37224969
FAMILIA 4				$\alpha = 65^\circ$	$\beta = 22.58^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
335°	62°	0.62	291.11	263.83526	101.305626	0.23806328
		0.4	300.62	272.454247	104.615085	0.15358922
FAMILIA 5				$\alpha = 59^\circ$	$\beta = 45.81^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
9°	50°	0.215	1106.29	948.275613	679.94422	0.15416194
		0.215	1119.844	959.893659	688.274734	0.15416194
		0.33	1125.1165	964.413073	691.5153	0.23662065

SCAN LINE 4

MUESTRA CUA-7

ORIENTACIÓN SCAN LINE 70°, 52°

FAMILIA 4C				$\alpha = 92^\circ$	$\beta = 82.03^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
162°	83°	0.75	14.375	14.3662431	14.2274768	0.7427556
		0.215	94.8575	94.7997154	93.8840263	0.21292327
		1.15	164.04	163.940071	162.356542	1.13889192
		1.75	273.64	273.473306	270.831774	1.73309641
		0.4	503.43	503.123324	498.263557	0.39613632
		0.95	622.995	622.615488	616.601523	0.94082376
		2.65	881.945	881.407743	872.894053	2.62440313
		1.15	996.255	995.648108	986.030948	1.13889192
		1.15	1086.155	1085.49334	1075.00835	1.13889192
FAMILIA 1C				$\alpha = 65^\circ$	$\beta = 52.18^\circ$	
AZIMUT	ECHADO	APERTURA	DISTANCIA	DIST.1	DIST. REAL	APERTURA R.

		(mm)	A. (mm)	(mm)	(mm)	(mm)
200°	74°	0.115	473.1725	428.839921	338.758245	0.09084322
		0.14	607.45	550.536665	434.891495	0.11059174
FAMILIA 6C				$\alpha = 45^\circ$	$\beta = 38.88^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
279°	59°	2.15	770.395	544.751529	341.935829	1.34953643
		1.15	828.045	585.516235	367.523482	0.72184507
		0.5	893.52	631.814051	396.584222	0.31384568
		0.14	900.84	636.990073	399.833166	0.08787679
		0.62	950.22	671.907006	421.750223	0.38916864
		1.15	989.105	699.402853	439.009129	0.72184507
		0.75	1044.205	738.364436	463.464978	0.47076852
FAMILIA 7				$\alpha = 56^\circ$	$\beta = 54.03^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
306°	70°	0.5	135.215	112.098315	90.7239295	0.40466232
		1.15	195.19	161.819844	130.964788	0.93072334
		0.95	311.99	258.651432	209.332979	0.76885841
		1.5	368.215	305.26407	247.057736	1.21398697
		1.4	444.665	368.643992	298.352669	1.13305451
		0.75	457.74	379.483658	307.125478	0.60699349
		0.75	537.005	445.197322	360.309165	0.60699349
		1.15	656.045	543.885954	440.180308	0.93072334
293°	78°	0.75	661.995	548.818728	444.172523	0.60699349
		0.95	676.845	561.129936	454.136287	0.76885841

SCAN LINE 5

MUESTRA CUA-8

ORIENTACIÓN SCAN LINE $44^\circ, 58^\circ$

FAMILIA 7				$\alpha = 90^\circ$	$\beta = 65.18^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A.	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)

			(mm)			
302°	68°	0.75	0.375	0.375	0.34036163	0.68072326
		0.14	14.82	14.82	13.4510915	0.12706834
		0.4	25.09	25.09	22.772462	0.3630524
		0.5	35.54	35.54	32.257206	0.4538155
		0.5	48.04	48.04	43.6025936	0.4538155
		0.62	55.6	55.6	50.464284	0.56273122
		0.5	118.16	118.16	107.24568	0.4538155
		0.33	130.575	130.575	118.513919	0.29951823
		0.33	134.905	134.905	122.443961	0.29951823
		0.75	168.445	168.445	152.885905	0.68072326
		0.62	189.13	189.13	171.660252	0.56273122
		0.215	207.5475	207.5475	188.376546	0.19514067
		0.14	213.725	213.725	193.983437	0.12706834
		0.265	232.9275	232.9275	211.412221	0.24052222
		0.115	238.1175	238.1175	216.122826	0.10437757
		0.75	270.55	270.55	245.559569	0.68072326
		0.215	282.0325	282.0325	255.981442	0.19514067
		0.175	304.2275	304.2275	276.126312	0.15883543
		0.5	314.565	314.565	285.508948	0.4538155
		0.175	332.9025	332.9025	302.152631	0.15883543
		0.265	355.1225	355.1225	322.320192	0.24052222
		0.215	377.3625	377.3625	342.505906	0.19514067
		0.4	385.67	385.67	350.04605	0.3630524
			398.87	398.87	362.02678	

SCAN LINE 6

MUESTRA CUA-27

ORIENTACIÓN SCAN LINE 160°, 52°

FAMILIA 4				$\alpha = 50^\circ$	$\beta = 34.21^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
345°	70°	0.075	37.5175	28.74007239	16.1584654	0.04216708
		0.265	40.6875	31.16843328	17.5237572	0.14899035
		0.4	52.02	39.84963193	22.4045678	0.22489109
		0.4	149.215	114.3053216	64.2656206	0.22489109

		0.14	267.485	204.9053979	115.203495	0.07871188
		0.175	371.1375	284.3078195	159.845738	0.09838985
		0.62	380.535	291.5067222	163.89316	0.34858119
		0.5	549.812	421.1804274	236.799312	0.28111386
		0.5	626.767	480.1313775	269.943171	0.28111386
		0.4	685.564	525.1724926	295.266534	0.22489109
		0.62	702.249	537.9539441	302.452621	0.34858119
		0.14	857.839	657.142799	369.463899	0.07871188
FAMILIA 5C				$\alpha = 90^\circ$	$\beta = 83.24^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
204°	55°	0.265	28.1325	28.1325	27.9369208	0.2631577
		0.215	34.3725	34.3725	34.1335399	0.2135053
		0.175	71.3075	71.3075	70.8117651	0.17378339
		0.62	147.705	147.705	146.678144	0.61568972
		6	284.555	284.555	282.576753	5.95828757
		0.4	288.755	288.755	286.747554	0.39721917
		0.33	291.12	291.12	289.096113	0.32770582
		0.4	314.485	314.485	312.298678	0.39721917
		2.15	321.76	321.76	319.523101	2.13505304
		1.15	330.41	330.41	328.112966	1.14200512
		0.95	354.46	354.46	351.995768	0.94339553
		0.4	356.135	356.135	353.659124	0.39721917
		0.4	358.535	358.535	356.042439	0.39721917
		0.14	362.805	362.805	360.282753	0.13902671
		0.175	364.9625	364.9625	362.425254	0.17378339
		0.215	414.9525	414.9525	412.06772	0.2135053
		0.14	416.13	416.13	413.237034	0.13902671
		0.265	422.3325	422.3325	419.396414	0.2631577
		0.062	426.496	426.496	423.530969	0.06156897
		0.4	454.727	454.727	451.565705	0.39721917
		0.95	459.402	459.402	456.208204	0.94339553
		0.75	471.252	471.252	467.975822	0.74478595
		0.5	484.877	484.877	481.5061	0.49652396
		0.33	513.292	513.292	509.723557	0.32770582

		0.5	516.707	516.707	513.114816	0.49652396
		0.215	522.0645	522.0645	518.43507	0.2135053
		0.14	525.242	525.242	521.59048	0.13902671
		0.5	529.562	529.562	525.880447	0.49652396
		0.75	547.187	547.187	543.382916	0.74478595
		0.14	571.132	571.132	567.161449	0.13902671
		0.175	572.2895	572.2895	568.310902	0.17378339
		0.33	576.542	576.542	572.533838	0.32770582
		0.115	578.7645	578.7645	574.740887	0.11420051
		0.075	582.8595	582.8595	578.807419	0.07447859
		0.62	593.207	593.207	589.082982	0.61568972
		0.115	648.0745	648.0745	643.569039	0.11420051
		0.095	649.1795	649.1795	644.666357	0.09433955
		1.15	657.802	657.802	653.228913	1.14200512
		0.062	672.408	672.408	667.733371	0.06156897
		0.175	674.5265	674.5265	669.837143	0.17378339
		0.075	677.6515	677.6515	672.940418	0.07447859
		0.175	679.7765	679.7765	675.050645	0.17378339
		0.5	682.114	682.114	677.371894	0.49652396
		0.175	694.8515	694.8515	690.020842	0.17378339
		0.175	711.6465	711.6465	706.699082	0.17378339
		0.175	713.8215	713.8215	708.858961	0.17378339
		4	723.909	723.909	718.876332	3.97219171
		0.33	735.074	735.074	729.963712	0.32770582
		0.14	743.309	743.309	738.141462	0.13902671
		0.115	755.4365	755.4365	750.184651	0.11420051
		0.175	819.5815	819.5815	813.88371	0.17378339
		0.05	830.694	830.694	824.918955	0.0496524
		0.05	832.744	832.744	826.954703	0.0496524

SCAN LINE 7

MUESTRA CUA-43

ORIENTACIÓN SCAN LINE 90°, 65°

FAMILIA 4				$\alpha = 90^\circ$	$\beta = 62.57^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A.	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)

			(mm)			
342°	68°	0.14	25.07	25.07	22.2514878	0.1242604
		0.062	29.171	29.171	25.89143	0.05502961
		0.095	35.2495	35.2495	31.2865504	0.08431956
		0.115	44.3545	44.3545	39.3679144	0.10207104
		0.75	75.962	75.962	67.4219192	0.66568073
		0.095	84.3845	84.3845	74.8975138	0.08431956
		0.215	92.5395	92.5395	82.1356822	0.19082848
		0.75	239.737	239.737	212.784401	0.66568073
		0.075	278.3845	278.3845	247.086929	0.06656807
		0.062	298.453	298.453	264.899214	0.05502961
		0.14	398.679	398.679	353.857236	0.1242604
		0.265	450.3965	450.3965	399.76036	0.23520719
		0.095	460.5765	460.5765	408.795866	0.08431956
		0.14	481.896	481.896	427.718507	0.1242604
		0.4	649.336	649.336	576.333948	0.35502972
FAMILIA 5				$\alpha = 71^\circ$	$\beta = 67.73^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
24°	55°	0.215	175.7545	166.179144	153.783555	0.19896278
		0.265	179.9945	170.188143	157.493516	0.24523319
		0.14	226.197	213.873465	197.920274	0.12955716
		0.05	577.666	546.193933	505.452385	0.04627041
		0.115	628.0785	593.859889	549.562855	0.10642195
FAMILIA 6C				$\alpha = 4^\circ$	$\beta = 46.08^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
274°	71°	0.175	60.4995	4.22023178	2.3727313	0.09838985
FAMILIA 8C				$\alpha = 68^\circ$	$\beta = 51.41^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
247°	74°	0.095	228.3145	211.689518	165.46274	0.07425479

		0.14	265.182	245.872469	192.181138	0.10942811
		0.095	270.2995	250.617332	195.889862	0.07425479
		0.05	347.509	322.204734	251.844676	0.03908147
		0.075	360.5715	334.316073	261.311254	0.0586222
		0.115	407.8065	378.111603	295.543125	0.08988738
		0.4	415.064	384.840639	300.802738	0.31265174
		0.14	461.694	428.075223	334.596157	0.10942811
		0.062	477.795	443.00381	346.264779	0.04846102
		0.175	493.0535	457.151245	357.322829	0.13678514
		0.5	548.391	508.459281	397.426696	0.39081467
		0.115	589.7485	546.805287	427.39906	0.08988738
		0.14	597.876	554.340974	433.289174	0.10942811
		0.075	600.9835	557.222198	435.541223	0.0586222

SCAN LINE 8

MUESTRA CUA-45

ORIENTACIÓN SCAN LINE 120°, 57°

FAMILIA 4				$\alpha = 90^\circ$	$\beta = 36.55^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
339°	58°	0.4	62.53	62.53	37.2381193	0.23820962
		0.33	100.895	100.895	60.0853998	0.19652294
		0.62	138.635	138.635	82.5604777	0.36922492
		0.215	186.0525	186.0525	110.79874	0.12803767
		0.4	241.422	241.422	143.772609	0.23820962
		0.33	249.787	249.787	148.754168	0.19652294
		0.5	287.532	287.532	171.232223	0.29776203
		0.265	294.9145	294.9145	175.62868	0.15781388
		0.14	325.117	325.117	193.614995	0.08337337
		0.4	339.602	339.602	202.241161	0.23820962
		0.5	438.672	438.672	261.239729	0.29776203
		0.4	474.122	474.122	282.351057	0.23820962
		0.75	513.837	513.837	306.002295	0.44664304
		0.33	539.707	539.707	321.408503	0.19652294
		0.4	543.072	543.072	323.412441	0.23820962
		0.62	561.582	561.582	334.435591	0.36922492

		0.4	597.092	597.092	355.582651	0.23820962
		0.062	616.323	616.323	367.035174	0.03692249
		0.33	630.519	630.519	375.489233	0.19652294
			636.684	636.684	379.160639	
FAMILIA 8C				$\alpha = 65^\circ$	$\beta = 59.23^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
255°	81°	0.265	102.1925	92.6178585	79.5798466	0.22769539
		0.175	354.3345	321.136117	275.929106	0.15036488
FAMILIA 7C				$\alpha = 12^\circ$	$\beta = 30.22^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
132°	62°	0.115	350.1895	286.858445	144.382053	0.05788198
		0.14	480.392	393.514089	198.064143	0.07046502
		0.33	536.377	439.374316	221.146586	0.16609613
FAMILIA 2C				$\alpha = 67^\circ$	$\beta = 64.17^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
233°	74°	0.062	216.191	199.004865	179.12244	0.05580563
		0.33	279.117	256.928553	231.259017	0.29702995
		0.215	335.2945	308.640215	277.804206	0.19351951
		0.33	346.967	319.384807	287.475315	0.29702995
FAMILIA 5				$\alpha = 80^\circ$	$\beta = 61.49^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
20°	62°	0.33	23	22.8130716	20.0466175	0.28998216

SCAN LINE 9

MUESTRA CUA-46

ORIENTACIÓN SCAN LINE 90°, 65°

FAMILIA 4				$\alpha = 90^\circ$	$\beta = 56.42^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
357°	66°	0.4	40.2	40.2	33.4911973	0.33324574
		0.075	133.4375	133.4375	111.168697	0.06248358
		0.175	141.5625	141.5625	117.937752	0.14579501
		0.4	231.85	231.85	193.157564	0.33324574
		0.215	243.1575	243.1575	202.578005	0.17911959
		0.5	260.515	260.515	217.038788	0.41655718
		0.4	282.965	282.965	235.742205	0.33324574
		0.4	323.63	323.63	269.6208	0.33324574
		0.62	333.14	333.14	277.543718	0.5165309
		0.175	339.9375	339.9375	283.206813	0.14579501
		0.062	354.056	354.056	294.969138	0.05165309
		0.62	366.397	366.397	305.250602	0.5165309
		0.4	372.907	372.907	310.674177	0.33324574
		0.75	381.482	381.482	317.818132	0.62483577
		0.075	481.8945	481.8945	401.473228	0.06248358
		0.5	501.182	501.182	417.541921	0.41655718
		0.14	569.677	569.677	474.606089	0.11663601
		0.062	606.828	606.828	505.557121	0.05165309
		0.075	612.8965	612.8965	510.612875	0.06248358
		1.4	616.634	616.634	513.72664	1.1663601
		0.095	621.3815	621.3815	517.681851	0.07914586
		0.33	642.594	642.594	535.354289	0.27492774
		0.095	645.8065	645.8065	538.030669	0.07914586
		0.265	684.9865	684.9865	570.67209	0.22077531
		0.33	694.284	694.284	578.41797	0.27492774
		0.075	765.4865	765.4865	637.737796	0.06248358
		0.095	777.5715	777.5715	647.805983	0.07914586
		0.215	788.7265	788.7265	657.099373	0.17911959
			793.834	793.834	661.354505	

FAMILIA 6C				$\alpha = 55^\circ$	$\beta = 42.18^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
265°	71°	0.265	293.2975	240.255247	161.322259	0.17793742
		0.4	334.65	274.129232	184.067351	0.26858478
		0.175	568.5195	465.703911	312.70246	0.11750584
		0.05	589.772	483.112939	324.391961	0.0335731

SCAN LINE 10

MUESTRA D-3

ORIENTACIÓN SCAN LINE 90°, 65°

FAMILIA 2C				$\alpha = 62^\circ$	$\beta = 75.78^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
226°	87°	0.4	5.2	4.59132748	4.45064766	0.38774386
		0.5	116.89	103.207744	100.045424	0.48467983
		0.4	212.96	188.032519	182.27114	0.38774386
		0.33	312.825	276.208081	267.744972	0.31988869
		0.33	403.75	356.490091	345.567114	0.31988869
		0.265	437.0475	385.890038	374.066237	0.25688031
		0.33	472.845	417.497355	404.705095	0.31988869
		0.33	510.575	450.810967	436.997967	0.31988869
		0.33	537.305	474.412156	459.876008	0.31988869
		0.62	571.9	504.957728	489.485653	0.60100299
		0.33	588.375	519.50429	503.586503	0.31988869
			595.54	525.830609	509.718982	
FAMILIA 4				$\alpha = 53^\circ$	$\beta = 36.48^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
341°	47°	0.62	7.71	6.15747978	3.66088128	0.36861613
		0.62	33.33	26.6185215	15.8258331	0.36861613
		0.62	129.45	103.383367	61.4657693	0.36861613

		0.5	270.41	215.959028	128.396745	0.29727108
		0.265	350.1225	279.620261	166.246032	0.15755367
		0.33	401.42	320.588266	190.603238	0.19619891
		0.5	444.43	354.93758	211.025352	0.29727108
		0.4	487.21	389.103207	231.338258	0.23781686
		0.4	534.94	427.22208	254.001534	0.23781686
		0.5	555.72	443.817726	263.868345	0.29727108
		0.62	569.28	454.647223	270.306938	0.36861613

SCAN LINE 11

MUESTRA D-10

ORIENTACIÓN SCAN LINE 90°, 65°

FAMILIA 2C				$\alpha = 60^\circ$	$\beta = 87.82^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
227°	65°	0.14	72.52	62.8041623	62.7587081	0.13989868
		0.4	327.117	283.291632	283.086601	0.3997105
		0.33	380.482	329.507078	329.268599	0.32976116
		0.14	420.279	363.972291	363.708868	0.13989868
		0.33	437.134	378.569149	378.295161	0.32976116
		0.095	574.5435	497.569267	497.209154	0.09493124
FAMILIA 3				$\alpha = 40^\circ$	$\beta = 50.8^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
292°	23°	0.05	41.425	26.6274767	20.6348163	0.03874722
		0.075	161.0275	103.506482	80.2117776	0.05812084
		0.075	181.1025	116.410443	90.2116313	0.05812084
		0.062	241.171	155.021731	120.133236	0.04804656
		0.062	478.66	307.676717	238.432376	0.04804656
FAMILIA 4C				$\alpha = 98^\circ$	$\beta = 68.74^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A.	DIST.1	DIST. REAL	APERTURA R.

			(mm)	(mm)	(mm)	(mm)
170°	70°	0.4	26.2	25.9450234	24.1793244	0.37277784
		0.4	141.79	140.410109	130.854443	0.37277784
		0.62	272.512	269.859932	251.494506	0.57780565
		0.095	293.8695	291.009582	271.204808	0.08853474
		0.5	404.897	400.95657	373.66931	0.4659723
		0.062	406.178	402.225104	374.851512	0.05778057
		0.62	423.659	419.53598	390.98429	0.57780565
		0.33	473.464	468.856281	436.948078	0.30754172
		0.33	508.856	503.903848	469.610469	0.30754172
		0.075	528.0585	522.919471	487.331976	0.06989584
		0.4	529.296	524.144928	488.474034	0.37277784
		0.115	609.6485	603.715443	562.629345	0.10717363
		0.115	628.7635	622.644417	580.270101	0.10717363
			646.821	640.526182	596.934915	

SCAN LINE 12

MUESTRA A-14a

ORIENTACIÓN SCAN LINE

90°, 65°

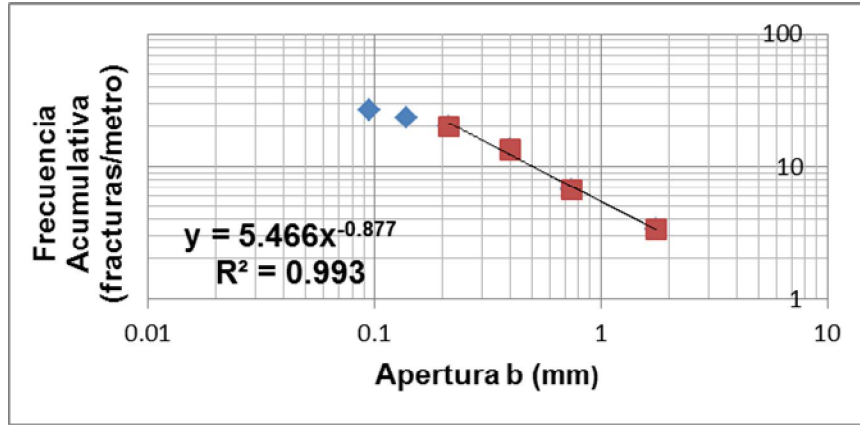
FAMILIA 3				$\alpha = 54^\circ$	$\beta = 44.47^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
281°	26°	0.14	132.865	107.490043	75.3006137	0.098075
		0.5	197.915	160.116598	112.167395	0.35026786
		0.4	234.365	189.605268	132.825261	0.28021428
		0.215	262.6725	212.506516	148.868404	0.15061518
		0.33	271.945	220.008127	154.123549	0.23117678
		0.33	290.275	234.837408	164.511991	0.23117678
		0.33	296.605	239.958486	168.099488	0.23117678
		0.4	298.97	241.871811	169.439841	0.28021428
		0.4	466.39	377.317436	264.324338	0.28021428
FAMILIA 4				$\alpha = 90^\circ$	$\beta = 81.84^\circ$	
AZIMUT	ECHADO	APERTURA	DISTANCIA	DIST.1	DIST. REAL	APERTURA R.

		(mm)	A. (mm)	(mm)	(mm)	(mm)
332°	70°	0.33	58.415	58.415	57.823581	0.32665894
		0.215	76.6875	76.6875	75.9110823	0.21282325
		0.4	159.135	159.135	157.523848	0.39595023
		0.33	172.5	172.5	170.753535	0.32665894
		0.5	352.82	352.82	349.247896	0.49493778
		1.15	357.645	357.645	354.024046	1.1383569
		1.4	370.92	370.92	367.164644	1.38582579
		0.33	481.755	481.755	476.877502	0.32665894
		0.265	537.4525	537.4525	532.011096	0.26231702
		0.5	587.835	587.835	581.883502	0.49493778
		0.75	612.46	612.46	606.259188	0.74240667
		0.14	626.905	626.905	620.55794	0.13858258
		0.33	720.14	720.14	712.848988	0.32665894
		0.265	743.4375	743.4375	735.910614	0.26231702
			747.57	747.57	740.001275	
FAMILIA 6C				$\alpha = 62^\circ$	$\beta = 44.29^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
272°	46°	0.5	5.25	4.63547486	3.23690742	0.34914518
		0.75	12.875	11.3679503	7.93813011	0.52371777
		0.62	450.88	398.103411	277.991775	0.43294002
		0.4	492.12	434.516169	303.418454	0.27931615
FAMILIA 7				$\alpha = 93^\circ$	$\beta = 77.18^\circ$	
AZIMUT	ECHADO	APERTURA (mm)	DISTANCIA A. (mm)	DIST.1 (mm)	DIST. REAL (mm)	APERTURA R. (mm)
297°	74°	0.4	337.37	336.907646	328.509199	0.39002878
		0.95	401.095	400.545313	390.560504	0.92631836

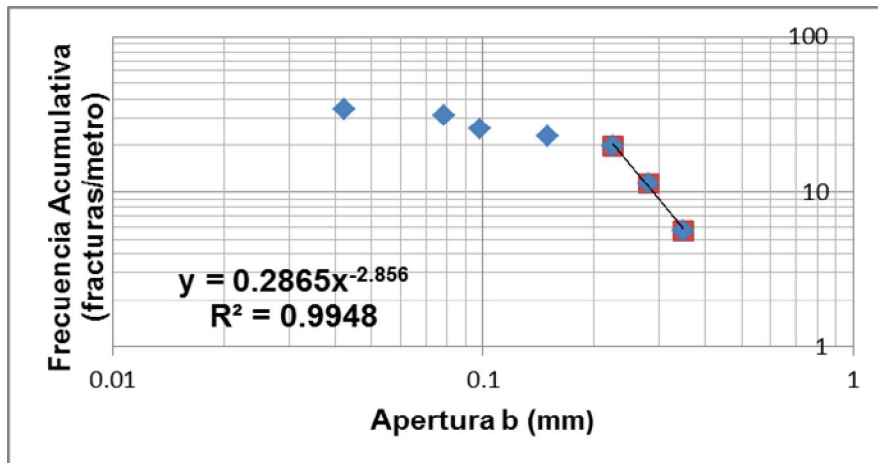
Anexo 2c. Gráficas de frecuencia acumulativa vs apertura.

Sistema 4

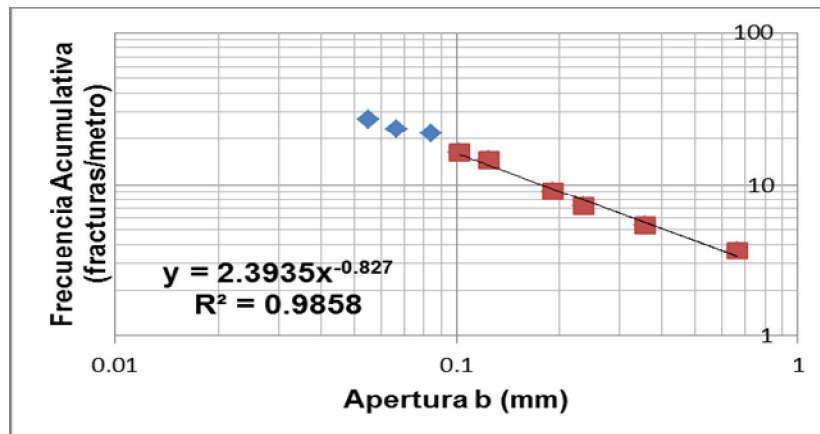
Scan line 1



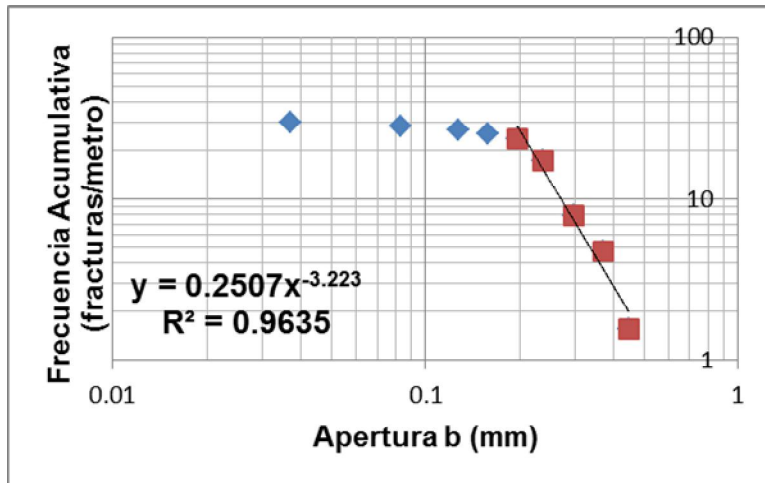
Scan line 6



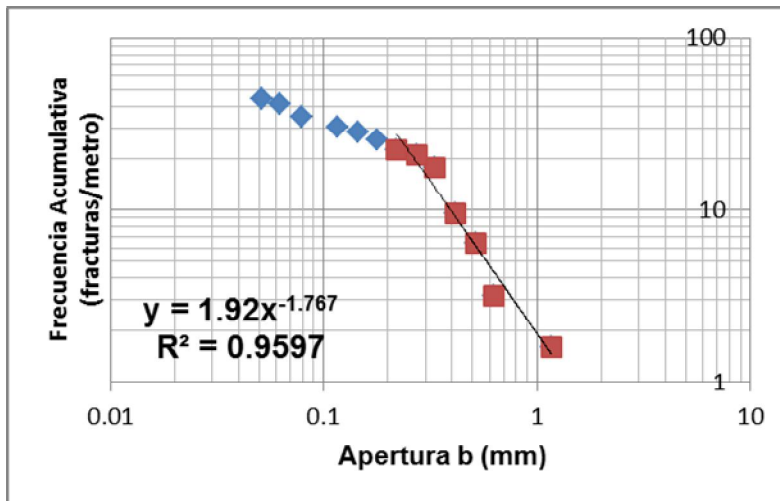
Scan line 7



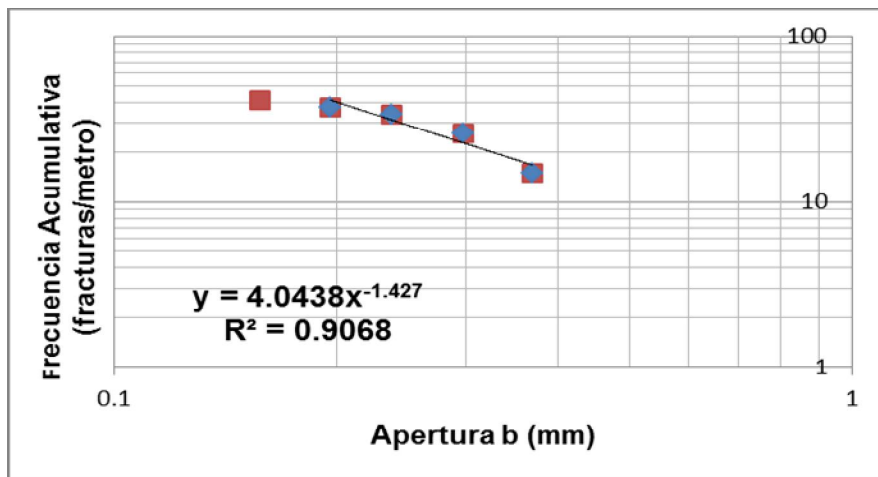
Scan line 8



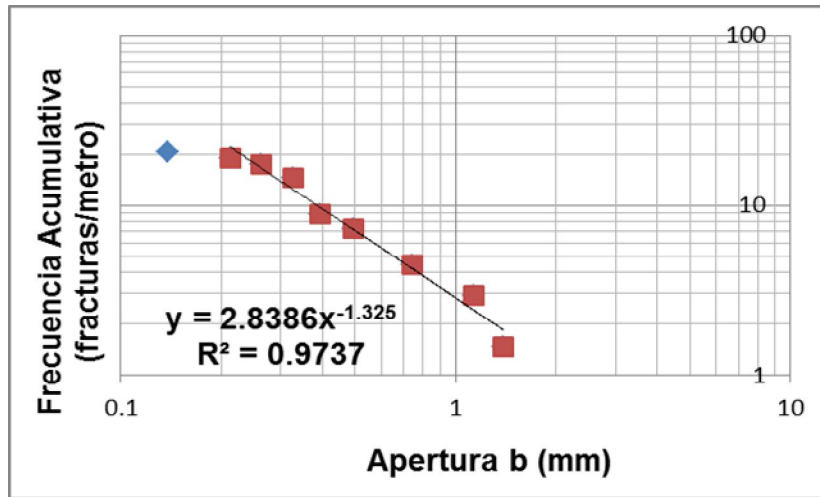
Scan line 9



Scan line 10

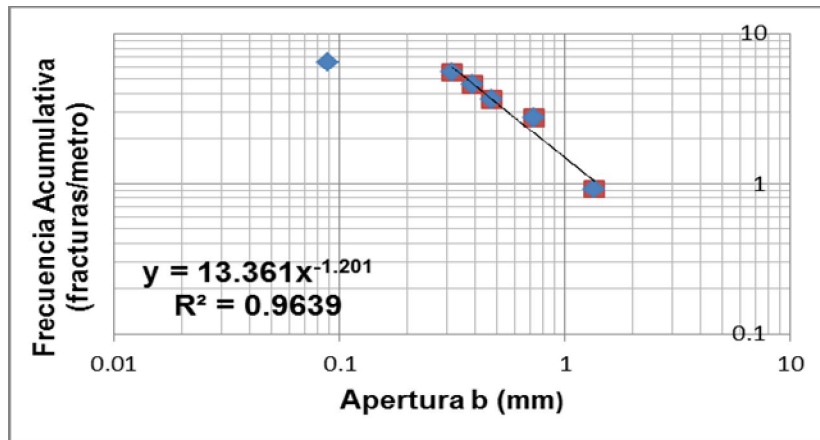


Scan line 12

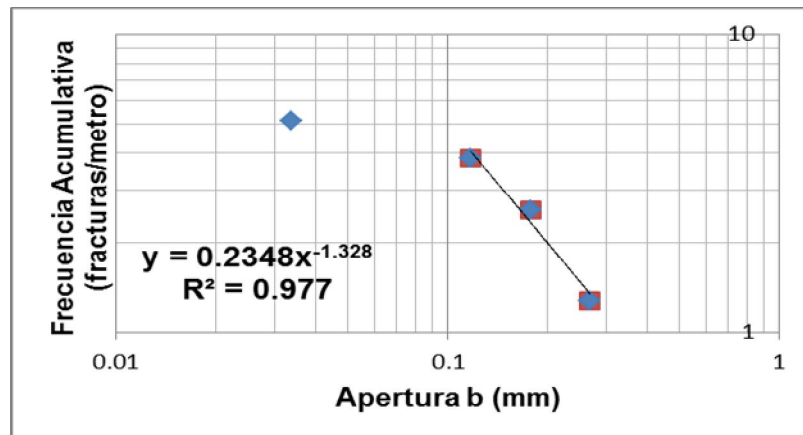


Sistema 6C

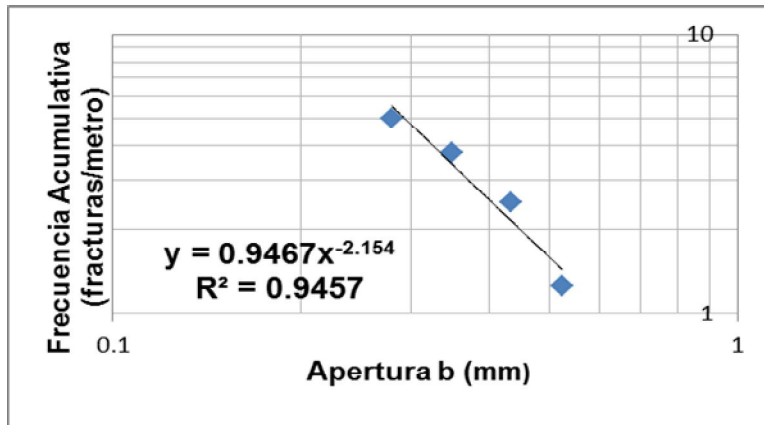
Scan line 4



Scan line 9

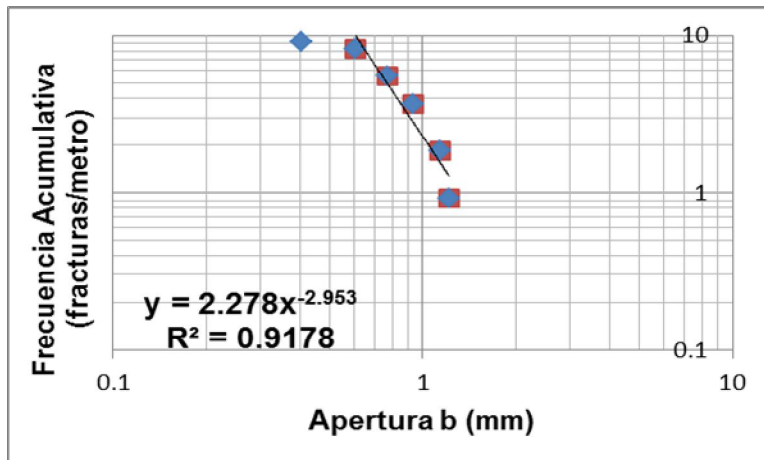


Scan line 12

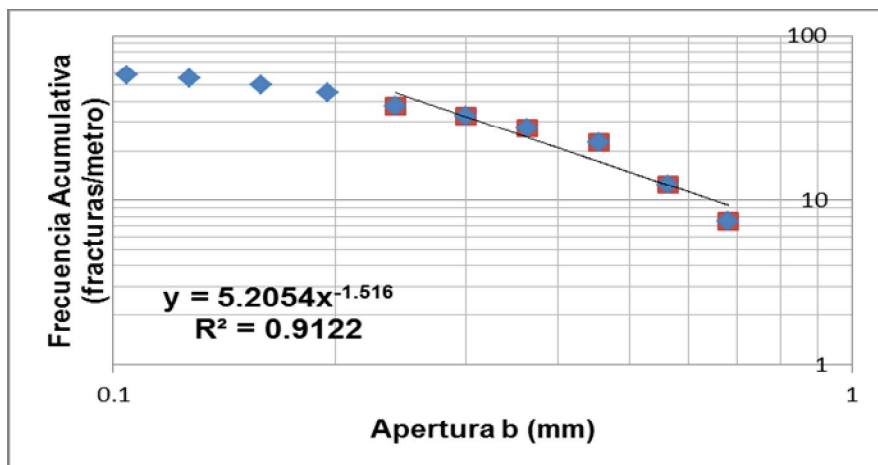


Sistema 7

Scan line 4



Scan line 5



Anexo 3. Mediciones del espectrómetro de rayos gamma en el Anticlinal Cuachi.

Medición	Pto. de muestra	Exposición (s)	K %	U ppm	Th ppm	K*10.64	U*6.69	Th*2.54	API TOTAL
1	Evaluación	58.596	0.27389	0	1.32846	2.9141896	0	3.3742884	6.288478
2	Evaluación	58.608	0.17966	0	0.68406	1.9115824	0	1.7375124	3.6490948
3	Evaluación	58.628	0.25935	0	1.09896	2.759484	0	2.7913584	5.5508424
4	Evaluación	58.64	0.20778	0	0.92914	2.2107792	0	2.3600156	4.5707948
5	Evaluación	58.6	0.12854	0.26487	0.50468	1.3676656	1.7719803	1.2818872	4.4215331
6	CUA-2	58.516	0.14998	0.1777	0.02703	1.5957872	1.188813	0.0686562	2.8532564
7	CUA-2	58.492	0.05613	0.13927	0.38364	0.5972232	0.9317163	0.9744456	2.5033851
8	CUA-2	58.556	0.15058	0	0.79586	1.6021712	0	2.0214844	3.6236556
9	CUA-2	58.508	0.11858	0	1.31481	1.2616912	0	3.3396174	4.6013086
10	CUA-2	58.516	0.1442	0	1.06237	1.534288	0	2.6984198	4.2327078
11	CUA-2	58.528	0.0279	0	0	0.296856	0	0	0.296856
12	CUA-2	58.544	0.02527	0	0.63892	0.2688728	0	1.6228568	1.8917296
13	CUA-2	58.5	0	0	0.41184	0	0	1.0460736	1.0460736
14	CUA-2	58.516	0.03101	0	0.39904	0.3299464	0	1.0135616	1.343508
15	CUA-2	58.564	0.04744	0	0	0.5047616	0	0	0.5047616
16	CUA-3Y4	58.52	0.24028	0	0.0978	2.5565792	0	0.248412	2.8049912
17	CUA-3Y4	58.516	0.33362	0	0.98918	3.5497168	0	2.5125172	6.062234
18	CUA-3Y4	58.48	0.24802	0	0.93018	2.6389328	0	2.3626572	5.00159
19	CUA-3Y4	58.484	0.27548	0	1.09082	2.9311072	0	2.7706828	5.70179
20	CUA-3Y4	58.512	0.26608	0.15408	0.17275	2.8310912	1.0307952	0.438785	4.3006714
21	CUA-4	58.524	0.24194	0	0	2.5742416	0	0	2.5742416
22	CUA-4	58.48	0.2019	0.09462	0.41387	2.148216	0.6330078	1.0512298	3.8324536
23	CUA-4	58.572	0.27983	0	1.30514	2.9773912	0	3.3150556	6.2924468
24	CUA-4	58.468	0.29213	0	1.72349	3.1082632	0	4.3776646	7.4859278
25	CUA-4	58.532	0.25641	0	1.17669	2.7282024	0	2.9887926	5.716995
26	CUA-4	58.508	1.08572	0	1.81765	11.552061	0	4.616831	16.168892
27	CUA-4	58.476	1.12736	0.33537	1.65991	11.99511	2.2436253	4.2161714	18.454907
28	CUA-4	58.468	1.15005	0	0.59167	12.236532	0	1.5028418	13.739374
29	CUA-4	58.488	0.90263	0.52589	0.74017	9.6039832	3.5182041	1.8800318	15.002219
30	CUA-4	58.484	1.15473	0.83018	1.24653	12.286327	5.5539042	3.1661862	21.006418
31	CUA-5	58.416	1.31454	1.12884	0.87779	13.986706	7.5519396	2.2295866	23.768232
32	CUA-5	58.412	1.37068	0.46759	0.95302	14.584035	3.1281771	2.4206708	20.132883
33	CUA-5	58.48	1.61581	0.41943	1.24513	17.192218	2.8059867	3.1626302	23.160835
34	CUA-5	58.472	1.60789	0.45408	0.87144	17.10795	3.0377952	2.2134576	22.359202
35	CUA-5	58.46	1.46179	0.8438	1.29985	15.553446	5.645022	3.301619	24.500087
36	CUA-5	58.508	0.60203	0.2902	1.44797	6.4055992	1.941438	3.6778438	12.024881
37	CUA-5	58.484	0.60478	0.03202	0.61371	6.4348592	0.2142138	1.5588234	8.2078964
38	CUA-5	58.488	0.59558	0.06019	0.48623	6.3369712	0.4026711	1.2350242	7.9746665

39	CUA-5	58.504	0.72351	0.27553	0.24119	7.6981464	1.8432957	0.6126226	10.154065
40	CUA-5	58.508	0.56244	0.24004	0.33931	5.9843616	1.6058676	0.8618474	8.4520766
41	CUA-6	58.504	0.21616	0.04391	0.42092	2.2999424	0.2937579	1.0691368	3.6628371
42	CUA-6	58.556	0.20705	0.018	1.40378	2.203012	0.12042	3.5656012	5.8890332
43	CUA-6	58.56	0.22452	0.16154	0.77828	2.3888928	1.0807026	1.9768312	5.4464266
44	CUA-6	58.472	0.16578	0	0.79547	1.7638992	0	2.0204938	3.784393
45	CUA-6	58.516	0.24935	0	1.56836	2.653084	0	3.9836344	6.6367184
46	CUA-6	58.512	0.19159	0.11612	0.53228	2.0385176	0.7768428	1.3519912	4.1673516
47	CUA-6	58.488	0.13974	0.39782	0.37287	1.4868336	2.6614158	0.9470898	5.0953392
48	CUA-6	58.576	0.15013	0.42265	1.35314	1.5973832	2.8275285	3.4369756	7.8618873
49	CUA-6	58.5	0.16505	0	0.92047	1.756132	0	2.3379938	4.0941258
50	CUA-6	58.548	0.19591	0	1.44237	2.0844824	0	3.6636198	5.7481022
51	CUA-6	58.512	0.40154	0.37986	0.54311	4.2723856	2.5412634	1.3794994	8.1931484
52	CUA-6	58.504	0.51861	0	1.12688	5.5180104	0	2.8622752	8.3802856
53	CUA-6	58.484	0.46559	0	0.89186	4.9538776	0	2.2653244	7.219202
54	CUA-6	58.508	0.49675	0	0.72554	5.28542	0	1.8428716	7.1282916
55	CUA-6	58.54	0.33456	0	0.84789	3.5597184	0	2.1536406	5.713359
56	CUA-6	58.524	0.40183	0.07761	1.43324	4.2754712	0.5192109	3.6404296	8.4351117
57	CUA-6	58.52	0.44857	0.09829	0.70192	4.7727848	0.6575601	1.7828768	7.2132217
58	CUA-6	58.492	0.46504	0.00984	0.22221	4.9480256	0.0658296	0.5644134	5.5782686
59	CUA-6	58.476	0.44375	0.12108	0.82287	4.7215	0.8100252	2.0900898	7.621615
60	CUA-6	58.528	0.48842	0	1.25178	5.1967888	0	3.1795212	8.37631
61	CUA-6	58.532	0.21028	0	0.22328	2.2373792	0	0.5671312	2.8045104
62	CUA-6	58.52	0.04493	0.15454	0.74845	0.4780552	1.0338726	1.901063	3.4129908
63	CUA-6	58.56	0.18948	0	0.58125	2.0160672	0	1.476375	3.4924422
64	CUA-6	58.516	0.12198	0.2337	0	1.2978672	1.563453	0	2.8613202
65	CUA-6	58.52	0.10446	0.08994	0.39647	1.1114544	0.6016986	1.0070338	2.7201868
66	CUA-6	58.528	0.14636	0	0.34315	1.5572704	0	0.871601	2.4288714
67	CUA-6	58.52	0.11341	0.01076	0.52879	1.2066824	0.0719844	1.3431266	2.6217934
68	CUA-6	58.512	0.21099	0	0.09791	2.2449336	0	0.2486914	2.493625
69	CUA-6	58.504	0.22383	0	0.58828	2.3815512	0	1.4942312	3.8757824
70	CUA-6	58.516	0.12318	0	0.41987	1.3106352	0	1.0664698	2.377105
71	CUA-6	58.524	0.0512	0.0143	0.27158	0.544768	0.095667	0.6898132	1.3302482
72	CUA-6	58.572	0.06371	0	0.54437	0.6778744	0	1.3826998	2.0605742
73	CUA-6	58.584	0.06637	0	1.04205	0.7061768	0	2.646807	3.3529838
74	CUA-6	58.564	0.10745	0	0.55203	1.143268	0	1.4021562	2.5454242
75	CUA-6	58.488	0.09786	0	0.55695	1.0412304	0	1.414653	2.4558834
76	CUA-6	58.544	0.07567	0	0.04919	0.8051288	0	0.1249426	0.9300714
77	CUA-6	58.54	0.08534	0.06649	0.27215	0.9080176	0.4448181	0.691261	2.0440967
78	CUA-6	58.54	0.05988	0.00825	0.51922	0.6371232	0.0551925	1.3188188	2.0111345
79	CUA-6	58.572	0.08061	0	0.04468	0.8576904	0	0.1134872	0.9711776
80	CUA-6	58.536	0.12233	0	0.55012	1.3015912	0	1.3973048	2.698896

81	CUA-6	58.588	0.34476	0.31521	0	3.6682464	2.1087549	0	5.7770013
82	CUA-6	58.536	0.24078	0.32165	0.52013	2.5618992	2.1518385	1.3211302	6.0348679
83	CUA-6	58.508	0.35174	0	0.34849	3.7425136	0	0.8851646	4.6276782
84	CUA-6	58.504	0.15776	0.29011	0.63231	1.6785664	1.9408359	1.6060674	5.2254697
85	CUA-6	58.496	0.2641	0	0.44941	2.810024	0	1.1415014	3.9515254
86	CUA-6	58.496	0.20532	0	0.67082	2.1846048	0	1.7038828	3.8884876
87	CUA-6	58.512	0.24393	0	0.68212	2.5954152	0	1.7325848	4.328
88	CUA-6	58.528	0.17969	0	0.80656	1.9119016	0	2.0486624	3.960564
89	CUA-6	58.5	0.30396	0	1.22104	3.2341344	0	3.1014416	6.335576
90	CUA-6	58.472	0.3809	0	1.2653	4.052776	0	3.213862	7.266638
91	CUA-7	58.504	0.16853	0.04812	0.1662	1.7931592	0.3219228	0.422148	2.53723
92	CUA-7	58.508	0.06799	0	0.7879	0.7234136	0	2.001266	2.7246796
93	CUA-7	58.504	0.06252	0.17418	0.01218	0.6652128	1.1652642	0.0309372	1.8614142
94	CUA-7	58.492	0.06454	0	1.54261	0.6867056	0	3.9182294	4.604935
95	CUA-7	58.484	0.15254	0	0.31474	1.6230256	0	0.7994396	2.4224652
96	CUA-7	58.492	0.00871	0.07011	0.01316	0.0926744	0.4690359	0.0334264	0.5951367
97	CUA-7	58.524	0	0.12945	0.61687	0	0.8660205	1.5668498	2.4328703
98	CUA-7	58.496	0.07936	0	0.30703	0.8443904	0	0.7798562	1.6242466
99	CUA-7	58.496	0.03572	0.28758	0	0.3800608	1.9239102	0	2.303971
100	CUA-7	58.496	0.07084	0	0.95475	0.7537376	0	2.425065	3.1788026
101	CUA-7	58.524	0.09913	0	0.07859	1.0547432	0	0.1996186	1.2543618
102	CUA-7	58.492	0	0.22482	0.85068	0	1.5040458	2.1607272	3.664773
103	CUA-7	58.544	0.0512	0	0.05002	0.544768	0	0.1270508	0.6718188
104	CUA-7	58.512	0.08891	0	0.09208	0.9460024	0	0.2338832	1.1798856
105	CUA-7	58.484	0.11619	0	0.70111	1.2362616	0	1.7808194	3.017081
106	CUA-8	116.92	0.1067	0	0.3551	1.135288	0	0.901954	2.037242
107	CUA-8	117.044	0.05324	0	0.56874	0.5664736	0	1.4445996	2.0110732
108	CUA-8	117.012	0.01738	0	0.04216	0.1849232	0	0.1070864	0.2920096
109	CUA-8	116.968	0.00705	0	0.94918	0.075012	0	2.4109172	2.4859292
110	CUA-8	117.104	0.09392	0	0.2483	0.9993088	0	0.630682	1.6299908
111	CUA-8	29.268	0.10621	0	0.80886	1.1300744	0	2.0545044	3.1845788
112	CUA-8	29.268	0.04052	0	0.29471	0.4311328	0	0.7485634	1.1796962
113	CUA-8	29.268	0.0121	0	0.26972	0.128744	0	0.6850888	0.8138328
114	CUA-8	29.224	0.02755	0	1.04937	0.293132	0	2.6653998	2.9585318
115	CUA-8	29.212	0	0.00477	0.50156	0	0.0319113	1.2739624	1.3058737
116	CUA-9	29.256	0	0	0.51646	0	0	1.3118084	1.3118084
117	CUA-9	29.264	0.13621	0	0.57277	1.4492744	0	1.4548358	2.9041102
118	CUA-9	29.292	0.10214	0	0	1.0867696	0	0	1.0867696
119	CUA-9	29.272	0.14775	0	0.3029	1.57206	0	0.769366	2.341426
120	CUA-9	29.256	0.14674	0	0.55478	1.5613136	0	1.4091412	2.9704548
121	CUA-9	29.228	0.17885	0.27566	0.26933	1.902964	1.8441654	0.6840982	4.4312276
122	CUA-9	29.232	0.33382	0	0.09436	3.5518448	0	0.2396744	3.7915192

123	CUA-9	29.268	0.19645	0	0.09009	2.090228	0	0.2288286	2.3190566
124	CUA-9	29.212	0.12727	0	0.78499	1.3541528	0	1.9938746	3.3480274
125	CUA-9	29.236	0.19969	0.68431	0.23239	2.1247016	4.5780339	0.5902706	7.2930061
126	CUA-10	29.252	0.19767	0.17368	0.28189	2.1032088	1.1619192	0.7160006	3.9811286
127	CUA-10	29.232	0.36251	0.22606	0.55245	3.8571064	1.5123414	1.403223	6.7726708
128	CUA-10	29.268	0.25579	0.17566	0.29137	2.7216056	1.1751654	0.7400798	4.6368508
129	CUA-10	29.252	0.26808	0	1.81354	2.8523712	0	4.6063916	7.4587628
130	CUA-10	29.24	0.27767	0	0	2.9544088	0	0	2.9544088
131	CUA-10	29.268	0.67368	0.19335	0.36298	7.1679552	1.2935115	0.9219692	9.3834359
132	CUA-10	29.216	0.62909	0.65864	0.06473	6.6935176	4.4063016	0.1644142	11.264233
133	CUA-10	29.248	0.7372	0.11457	1.61245	7.843808	0.7664733	4.095623	12.705904
134	CUA-10	29.236	0.79248	0.25659	0.1326	8.4319872	1.7165871	0.336804	10.485378
135	CUA-10	29.24	0.915	0	0.69715	9.7356	0	1.770761	11.506361
136	CUA-11	29.272	0.53943	0.44847	0.06832	5.7395352	3.0002643	0.1735328	8.9133323
137	CUA-11	29.228	0.48916	0	0.35273	5.2046624	0	0.8959342	6.1005966
138	CUA-11	29.276	0.48542	0	0.8634	5.1648688	0	2.193036	7.3579048
139	CUA-11	29.268	0.3323	0.37026	0.7772	3.535672	2.4770394	1.974088	7.9867994
140	CUA-11	29.22	0.62678	0.04596	0.1247	6.6689392	0.3074724	0.316738	7.2931496
141	CUA-12	29.248	0.43973	0	0.3537	4.6787272	0	0.898398	5.5771252
142	CUA-12	29.256	0.4493	0	0.35508	4.780552	0	0.9019032	5.6824552
143	CUA-12	29.28	0.37227	0	0.08978	3.9609528	0	0.2280412	4.188994
144	CUA-12	29.248	0.29804	0.4964	0	3.1711456	3.320916	0	6.4920616
145	CUA-12	29.228	0.31202	0	0.81588	3.3198928	0	2.0723352	5.392228
146	CUA-13	29.248	0.65178	0	0.66178	6.9349392	0	1.6809212	8.6158604
147	CUA-13	29.268	0.7235	0.0041	0	7.69804	0.027429	0	7.725469
148	CUA-13	29.248	0.65325	0.03392	0.62178	6.95058	0.2269248	1.5793212	8.756826
149	CUA-13	29.244	0.5599	0.55243	0.06236	5.957336	3.6957567	0.1583944	9.8114871
150	CUA-13	29.252	0.61308	0	0.86632	6.5231712	0	2.2004528	8.723624
151	CUA-14	29.244	0.62491	0.23679	0.59695	6.6490424	1.5841251	1.516253	9.7494205
152	CUA-14	29.236	0.63652	0	0	6.7725728	0	0	6.7725728
153	CUA-14	29.252	0.69517	0.10523	0	7.3966088	0.7039887	0	8.1005975
154	CUA-14	29.256	0.64588	0.747	0.54976	6.8721632	4.99743	1.3963904	13.265984
155	CUA-14	29.236	0.77266	0.15374	0.13927	8.2211024	1.0285206	0.3537458	9.6033688
156	CUA-15BASE	29.276	0.42633	0	1.0946	4.5361512	0	2.780284	7.3164352
157	CUA-15BASE	29.272	0.32449	0.38221	0.2829	3.4525736	2.5569849	0.718566	6.7281245
158	CUA-15BASE	29.252	0.37109	0.27054	0.79466	3.9483976	1.8099126	2.0184364	7.7767466
159	CUA-15BASE	29.276	0.35211	0	2.34883	3.7464504	0	5.9660282	9.7124786
160	CUA-15BASE	29.272	0.32149	0	0.58409	3.4206536	0	1.4835886	4.9042422
161	CUA-15CIMA	29.252	0.16479	0.7467	1.6952	1.7533656	4.995423	4.305808	11.054597
162	CUA-15CIMA	29.26	0.11827	0.01097	0.52962	1.2583928	0.0733893	1.3452348	2.6770169
163	CUA-15CIMA	29.256	0.29331	0.01848	0.55978	3.1208184	0.1236312	1.4218412	4.6662908
164	CUA-15CIMA	29.276	0.11843	0.36091	0.74018	1.2600952	2.4144879	1.8800572	5.5546403

165	CUA-15CIMA	29.26	0.21622	0.21897	0.52628	2.3005808	1.4649093	1.3367512	5.1022413
166	CUA-16BASE	29.264	0.20331	0.14869	1.26831	2.1632184	0.9947361	3.2215074	6.3794619
167	CUA-16BASE	29.276	0.27505	0.42469	0.51564	2.926532	2.8411761	1.3097256	7.0774337
168	CUA-16BASE	29.232	0.12344	0.84053	0	1.3134016	5.6231457	0	6.9365473
169	CUA-16BASE	29.264	0.17452	0.24938	1.25331	1.8568928	1.6683522	3.1834074	6.7086524
170	CUA-16BASE	29.252	0.19336	0.04667	1.27744	2.0573504	0.3122223	3.2446976	5.6142703
171	CUA-16CIMA	29.256	0.23558	0.71719	0.97249	2.5065712	4.7980011	2.4701246	9.7746969
172	CUA-16CIMA	29.264	0.13915	0.4194	0.4928	1.480556	2.805786	1.251712	5.538054
173	CUA-16CIMA	29.268	0.21649	0.32062	0.51596	2.3034536	2.1449478	1.3105384	5.7589398
174	CUA-16CIMA	29.248	0.20005	0.28832	0	2.128532	1.9288608	0	4.0573928
175	CUA-16CIMA	29.288	0.261	0	1.06558	2.77704	0	2.7065732	5.4836132
176	CUA-17BASE	29.28	0.2346	0.26382	0.76995	2.496144	1.7649558	1.955673	6.2167728
177	CUA-17BASE	29.28	0.12357	0	1.30388	1.3147848	0	3.3118552	4.62664
178	CUA-17BASE	29.252	0.17792	0	0.06718	1.8930688	0	0.1706372	2.063706
179	CUA-17BASE	29.264	0.17348	0	1.06201	1.8458272	0	2.6975054	4.5433326
180	CUA-17BASE	29.292	0.21896	0.2876	0	2.3297344	1.924044	0	4.2537784
181	CUA-17CIMA	29.28	0.24641	0	0	2.6218024	0	0	2.6218024
182	CUA-17CIMA	29.268	0.21181	0.09177	1.52095	2.2536584	0.6139413	3.863213	6.7308127
183	CUA-17CIMA	29.276	0.17949	0.3312	0.01661	1.9097736	2.215728	0.0421894	4.167691
184	CUA-17CIMA	29.276	0.09667	0.24569	1.2392	1.0285688	1.6436661	3.147568	5.8198029
185	CUA-17CIMA	29.296	0.13971	0.1252	0.02946	1.4865144	0.837588	0.0748284	2.3989308
186	CUA-18	29.268	0.04193	0.41513	0.47599	0.4461352	2.7772197	1.2090146	4.4323695
187	CUA-18	29.228	0.19825	0.52535	0.49424	2.10938	3.5145915	1.2553696	6.8793411
188	CUA-18	29.256	0.1303	0.37459	0.2501	1.386392	2.5060071	0.635254	4.5276531
189	CUA-18	29.256	0.11627	0.24718	1.24384	1.2371128	1.6536342	3.1593536	6.0501006
190	CUA-18	29.276	0.16751	0	0.2961	1.7823064	0	0.752094	2.5344004
191	CUA-19	29.216	0.11053	0	0.0464	1.1760392	0	0.117856	1.2938952
192	CUA-19	29.256	0.23424	0	0.56978	2.4923136	0	1.4472412	3.9395548
193	CUA-19	29.308	0.05458	0.23542	0	0.5807312	1.5749598	0	2.155691
194	CUA-19	29.284	0.07373	0.38357	0	0.7844872	2.5660833	0	3.3505705
195	CUA-19	29.276	0.16634	0	0.54728	1.7698576	0	1.3900912	3.1599488
196	CUA-20	29.24	0.12788	0	0.32064	1.3606432	0	0.8144256	2.1750688
197	CUA-20	29.244	0.10401	0.3416	0	1.1066664	2.285304	0	3.3919704
198	CUA-20	29.252	0.16469	0	0.81967	1.7523016	0	2.0819618	3.8342634
199	CUA-20	29.212	0.32244	0	0.58667	3.4307616	0	1.4901418	4.9209034
200	CUA-20	29.26	0.12849	0	0.07864	1.3671336	0	0.1997456	1.5668792
201	CUA-21	29.28	0.72001	0	0.64201	7.6609064	0	1.6307054	9.2916118
202	CUA-21	29.236	0.4933	0	1.38022	5.248712	0	3.5057588	8.7544708
203	CUA-21	29.276	0.40436	0.99667	0.23614	4.3023904	6.6677223	0.5997956	11.569908
204	CUA-21	29.268	0.53872	0.49333	0.30968	5.7319808	3.3003777	0.7865872	9.8189457
205	CUA-21	29.248	0.52325	0.66511	0	5.56738	4.4495859	0	10.016966
206	EVALUACIÓN	29.296	0.279	0.24033	1.76154	2.96856	1.6078077	4.4743116	9.0506793

207	EVALUACIÓN	29.312	0.36974	0	0.58071	3.9340336	0	1.4750034	5.409037
208	EVALUACIÓN	29.292	0.35067	0	0.57823	3.7311288	0	1.4687042	5.199833
209	EVALUACIÓN	29.276	0.46863	0.22915	0.56892	4.9862232	1.5330135	1.4450568	7.9642935
210	EVALUACIÓN	29.272	0.29227	0.06276	0.80032	3.1097528	0.4198644	2.0328128	5.56243
211	CUA-22 BASE	29.244	0.52992	0.59593	0.29881	5.6383488	3.9867717	0.7589774	10.384098
212	CUA-22 BASE	29.268	0.45858	0.62414	1.02012	4.8792912	4.1754966	2.5911048	11.645893
213	CUA-22 BASE	29.224	0.58798	0.08401	2.57579	6.2561072	0.5620269	6.5425066	13.360641
214	CUA-22 BASE	29.22	0.5653	0	0.63804	6.014792	0	1.6206216	7.6354136
215	CUA-22 BASE	29.244	0.5841	0	0.86174	6.214824	0	2.1888196	8.4036436
216	CUA-22 CIMA	29.244	0.05932	0	0.54028	0.6311648	0	1.3723112	2.003476
217	CUA-22 CIMA	29.236	0	0	1.27351	0	0	3.2347154	3.2347154
218	CUA-22 CIMA	29.292	0.01578	0.48263	0	0.1678992	3.2287947	0	3.3966939
219	CUA-22 CIMA	29.232	0.05084	0	0.28756	0.5409376	0	0.7304024	1.27134
220	CUA-22 CIMA	29.272	0.03532	0.48428	0	0.3758048	3.2398332	0	3.615638
221	CUA-23 BASE	29.252	0.20689	0.56945	0.73633	2.2013096	3.8096205	1.8702782	7.8812083
222	CUA-23 BASE	29.248	0.25687	0.13155	0.05061	2.7330968	0.8800695	0.1285494	3.7417157
223	CUA-23 BASE	29.24	0.08064	0.31587	0.49376	0.8580096	2.1131703	1.2541504	4.2253303
224	CUA-23 BASE	29.224	0.1996	0.08502	0	2.123744	0.5687838	0	2.6925278
225	CUA-23 BASE	29.256	0.09375	0.48742	0	0.9975	3.2608398	0	4.2583398
226	CUA-23 CIMA	29.252	0.42021	0	0.35022	4.4710344	0	0.8895588	5.3605932
227	CUA-23 CIMA	29.256	0.37914	0.36025	1.27883	4.0340496	2.4100725	3.2482282	9.6923503
228	CUA-23 CIMA	29.244	0.38988	0.31638	1.03985	4.1483232	2.1165822	2.641219	8.9061244
229	CUA-23 CIMA	29.244	0.33349	0.32643	0.53694	3.5483336	2.1838167	1.3638276	7.0959779
230	CUA-23 CIMA	29.22	0.26809	0	2.0479	2.8524776	0	5.201666	8.0541436
231	CUA-24 Y 25	29.228	0.96443	1.99878	0	10.261535	13.371838	0	23.633373
232	CUA-24 Y 25	29.272	0.86129	1.86363	0.96823	9.1641256	12.467685	2.4593042	24.091115
233	CUA-24 Y 25	29.248	0.91619	0.14703	0.65677	9.7482616	0.9836307	1.6681958	12.400088
234	CUA-24 Y 25	29.248	0.87752	0.74476	1.08293	9.3368128	4.9824444	2.7506422	17.069899
235	CUA-24 Y 25	29.232	0.87039	0.50885	0.36758	9.2609496	3.4042065	0.9336532	13.598809
236	CUA-24 Y 25	116.928	0.9621	0.64524	0.67786	10.236744	4.3166556	1.7217644	16.275164
237	CUA-26	29.252	0.44814	0.0699	0.82799	4.7682096	0.467631	2.1030946	7.3389352
238	CUA-26	29.212	0.29815	0.64481	0.0081	3.172316	4.3137789	0.020574	7.5066689
239	CUA-26	29.252	0.35588	0.6454	0.01717	3.7865632	4.317726	0.0436118	8.147901
240	CUA-26	29.26	0.28149	0.25405	1.2719	2.9950536	1.6995945	3.230626	7.9252741
241	CUA-26	29.256	0.43132	0.2854	0.31175	4.5892448	1.909326	0.791845	7.2904158
242	CUA-26	29.26	0.52925	0.24466	0.08696	5.63122	1.6367754	0.2208784	7.4888738
243	CUA-26	29.256	0.21256	1.35273	0	2.2616384	9.0497637	0	11.311402
244	CUA-26	29.256	0.33791	0.80358	0	3.5953624	5.3759502	0	8.9713126
245	CUA-26	29.244	0.43858	0.0697	0.82673	4.6664912	0.466293	2.0998942	7.2326784
246	CUA-26	29.232	0.37328	0.78143	0.74563	3.9716992	5.2277667	1.8939002	11.093366
247	CUA-26	29.236	0.37839	0.05492	1.31018	4.0260696	0.3674148	3.3278572	7.7213416
248	CUA-27 CENTRO	29.24	0.61339	0	0.86695	6.5264696	0	2.202053	8.7285226

249	CUA-27 CENTRO	29.22	0.65401	0.03466	0.62302	6.9586664	0.2318754	1.5824708	8.7730126
250	CUA-27 CENTRO	29.26	0.67236	0.03443	0.62458	7.1539104	0.2303367	1.5864332	8.9706803
251	CUA-27 CENTRO	29.248	0.64382	0.38419	0.83152	6.8502448	2.5702311	2.1120608	11.532537
252	CUA-27 CENTRO	29.236	0.82284	0.3151	0	8.7550176	2.108019	0	10.863037
253	CUA-28 CENTRO	29.188	0.95604	0.59154	1.36186	10.172266	3.9574026	3.4591244	17.588793
254	CUA-28 CENTRO	29.228	1.13619	0	1.25928	12.089062	0	3.1985712	15.287633
255	CUA-28 CENTRO	29.224	1.04285	0	0.69957	11.095924	0	1.7769078	12.872832
256	CUA-28 CENTRO	29.216	0.97951	0.36224	2.3717	10.421986	2.4233856	6.024118	18.86949
257	CUA-28 CENTRO	29.248	1.07991	0.24349	1.16794	11.490242	1.6289481	2.9665676	16.085758
258	CUA-29 BASE	29.224	1.24761	0	2.74927	13.27457	0	6.9831458	20.257716
259	CUA-29 BASE	29.22	1.39418	0.16807	0.73979	14.834075	1.1243883	1.8790666	17.83753
260	CUA-29 BASE	29.224	1.07499	0.76675	0.62449	11.437894	5.1295575	1.5862046	18.153656
261	CUA-29 BASE	29.156	1.55203	0.2664	1.254	16.513599	1.782216	3.18516	21.480975
262	CUA-29 BASE	29.236	1.32794	0.38127	0.21429	14.129282	2.5506963	0.5442966	17.224275
263	CUA-29 CIMA	29.228	0.42405	0.54736	0.03942	4.511892	3.6618384	0.1001268	8.2738572
264	CUA-29 CIMA	29.272	0.39104	0	0.33453	4.1606656	0	0.8497062	5.0103718
265	CUA-29 CIMA	29.24	0.49518	0	0.88696	5.2687152	0	2.2528784	7.5215936
266	CUA-29 CIMA	29.288	0.54233	0	0.90272	5.7703912	0	2.2929088	8.0633
267	CUA-29 CIMA	29.296	0.532	0	1.13166	5.66048	0	2.8744164	8.5348964
268	CUA-30	29.208	1.4096	0	1.75076	14.998144	0	4.4469304	19.445074
269	CUA-30	29.224	1.20196	0.06521	2.43926	12.788854	0.4362549	6.1957204	19.42083
270	CUA-30	29.22	1.39872	0.89518	0.1764	14.882381	5.9887542	0.448056	21.319191
271	CUA-30	29.224	1.20576	1.14815	0	12.829286	7.6811235	0	20.51041
272	CUA-30	29.24	1.3148	0.55968	1.17844	13.989472	3.7442592	2.9932376	20.726969
273	CUA-31 CENTRO	29.276	0.33738	1.54791	0.41571	3.5897232	10.355518	1.0559034	15.001145
274	CUA-31 CENTRO	29.236	0.41416	0.5466	0.03756	4.4066624	3.656754	0.0954024	8.1588188
275	CUA-31 CENTRO	29.236	0.57962	0.3048	0	6.1671568	2.039112	0	8.2062688
276	CUA-31 CENTRO	29.236	0.64495	0.33991	0.59062	6.862268	2.2739979	1.5001748	10.636441
277	CUA-31 CENTRO	29.268	0.52169	0.35841	0	5.5507816	2.3977629	0	7.9485445
278	CUA-32 BASE	29.272	0.12715	0	0.55078	1.352876	0	1.3989812	2.7518572
279	CUA-32 BASE	29.256	0.11437	0	1.51519	1.2168968	0	3.8485826	5.0654794
280	CUA-32 BASE	29.252	0.15804	0	0.29523	1.6815456	0	0.7498842	2.4314298
281	CUA-32 BASE	29.24	0.0426	0.02071	0.02413	0.453264	0.1385499	0.0612902	0.6531041
282	CUA-32 BASE	29.252	0.17792	0	0.06718	1.8930688	0	0.1706372	2.063706
283	CUA-32 CIMA	29.284	0.11769	0	0.53863	1.2522216	0	1.3681202	2.6203418

284	CUA-32 CIMA	29.288	0.13284	0	1.315	1.4134176	0	3.3401	4.7535176
285	CUA-32 CIMA	29.268	0.10381	0.34072	0	1.1045384	2.2794168	0	3.3839552
286	CUA-32 CIMA	29.304	0.11892	0.56344	0.71886	1.2653088	3.7694136	1.8259044	6.8606268
287	CUA-32 CIMA	29.312	0.15663	0.01129	0.53414	1.6665432	0.0755301	1.3567156	3.0987889
288	CUA-33 BASE	29.264	0.03771	0.03976	1.24999	0.4012344	0.2659944	3.1749746	3.8422034
289	CUA-33 BASE	29.248	0.0732	0.42968	0	0.778848	2.8745592	0	3.6534072
290	CUA-33 BASE	29.26	0.11864	0.11291	0.51962	1.2623296	0.7553679	1.3198348	3.3375323
291	CUA-33 BASE	29.236	0.02668	0	1.29018	0.2838752	0	3.2770572	3.5609324
292	CUA-33 BASE	29.28	0.10751	0.30316	0.98946	1.1439064	2.0281404	2.5132284	5.6852752
293	CUA-33 CIMA	29.268	0.10571	0.04254	1.26138	1.1247544	0.2845926	3.2039052	4.6132522
294	CUA-33 CIMA	29.232	0.13989	0.27387	0.26254	1.4884296	1.8321903	0.6668516	3.9874715
295	CUA-33 CIMA	29.276	0.30469	0.03089	0.06823	3.2419016	0.2066541	0.1733042	3.6218599
296	CUA-33 CIMA	29.24	0.1932	0	1.06677	2.055648	0	2.7095958	4.7652438
297	CUA-33 CIMA	29.24	0.14222	0	1.56141	1.5132208	0	3.9659814	5.4792022
298	CUA-34 CENTRO	29.26	0.31563	0.83474	0.48296	3.3583032	5.5844106	1.2267184	10.169432
299	CUA-34 CENTRO	29.244	0.43112	0.43255	0.5436	4.5871168	2.8937595	1.380744	8.8616203
300	CUA-34 CENTRO	29.24	0.33349	0.57534	0.75858	3.5483336	3.8490246	1.9267932	9.3241514
301	CUA-34 CENTRO	29.244	0.26535	0.57228	0.74672	2.823324	3.8285532	1.8966688	8.548546
302	CUA-34 CENTRO	29.26	0.34406	0.63209	0.50795	3.6607984	4.2286821	1.290193	9.1796735
303	CUA-35 CENTRO	29.24	0.52841	0.68559	0.78192	5.6222824	4.5865971	1.9860768	12.194956
304	CUA-35 CENTRO	29.252	0.49706	0.42259	1.04771	5.2887184	2.8271271	2.6611834	10.777029
305	CUA-35 CENTRO	29.228	0.48281	0.0919	2.06383	5.1370984	0.614811	5.2421282	10.994038
306	CUA-35 CENTRO	29.268	0.31243	0.51605	1.00513	3.3242552	3.4523745	2.5530302	9.3296599
307	CUA-35 CENTRO	29.24	0.45256	0.69483	0.27561	4.8152384	4.6484127	0.7000494	10.163701
308	CUA-36 CENTRO	29.264	0.46851	0.12761	0.57943	4.9849464	0.8537109	1.4717522	7.3104095
309	CUA-36 CENTRO	29.272	0.44884	0.37505	0.79699	4.7756576	2.5090845	2.0243546	9.3090967
310	CUA-36 CENTRO	29.224	0.43496	0.85415	0.01115	4.6279744	5.7142635	0.028321	10.370559
311	CUA-36 CENTRO	29.252	0.50094	0.6963	0.28355	5.3300016	4.658247	0.720217	10.708466
312	CUA-36 CENTRO	29.276	0.49537	0.36444	1.29748	5.2707368	2.4381036	3.2955992	11.00444
313	CUA-37 BASE	29.236	0.26171	0	1.06867	2.7845944	0	2.7144218	5.4990162
314	CUA-37 BASE	29.248	0.3847	0.23393	2.27671	4.093208	1.5649917	5.7828434	11.441043
315	CUA-37 BASE	29.256	0.18009	0	2.02956	1.9161576	0	5.1550824	7.07124
316	CUA-37 BASE	29.264	0.22816	0.58226	0.24652	2.4276224	3.8953194	0.6261608	6.9491026
317	CUA-37 BASE	29.248	0.284	0.36896	0.76986	3.02176	2.4683424	1.9554444	7.4455468

318	CUA-37 CENTRO	29.232	0.73347	1.64522	1.46192	7.8041208	11.006522	3.7132768	22.523919
319	CUA-37 CENTRO	29.216	0.70735	0.76403	0.06807	7.526204	5.1113607	0.1728978	12.810463
320	CUA-37 CENTRO	29.248	0.66541	1.24562	0.99626	7.0799624	8.3331978	2.5305004	17.943661
321	CUA-37 CENTRO	29.268	0.74057	1.48358	1.72221	7.8796648	9.9251502	4.3744134	22.179228
322	CUA-37 CENTRO	29.24	0.6151	0.42305	3.28346	6.544664	2.8302045	8.3399884	17.714857
323	CUA-37 CIMA	29.252	0.44032	0.33067	0.55494	4.6850048	2.2121823	1.4095476	8.3067347
324	CUA-37 CIMA	29.264	0.48154	1.04538	0.49112	5.1235856	6.9935922	1.2474448	13.364623
325	CUA-37 CIMA	29.232	0.44454	0.29422	2.03677	4.7299056	1.9683318	5.1733958	11.871633
326	CUA-37 CIMA	29.26	0.39353	0.34084	0.05364	4.1871592	2.2802196	0.1362456	6.6036244
327	CUA-37 CIMA	29.264	0.30615	1.18461	0.69243	3.257436	7.9250409	1.7587722	12.941249
328	CUA-38 BASE	29.232	0.14019	0.62475	0.47406	1.4916216	4.1795775	1.2041124	6.8753115
329	CUA-38 BASE	29.244	0.1506	0.57986	0.23381	1.602384	3.8792634	0.5938774	6.0755248
330	CUA-38 BASE	29.276	0.33187	0.01961	0.56559	3.5310968	0.1311909	1.4365986	5.0988863
331	CUA-38 BASE	29.252	0.04283	0.37104	0.23523	0.4557112	2.4822576	0.5974842	3.535453
332	CUA-38 BASE	29.26	0.09656	0	0.8076	1.0273984	0	2.051304	3.0787024
333	CUA-38 CIMA	29.232	0.27267	0	2.84315	2.9012088	0	7.221601	10.12281
334	CUA-38 CIMA	29.264	0.31183	0.06381	0.80406	3.3178712	0.4268889	2.0423124	5.7870725
335	CUA-38 CIMA	29.26	0.19591	0.51146	0.9856	2.0844824	3.4216674	2.503424	8.0095738
336	CUA-38 CIMA	29.264	0.2182	0	0	2.321648	0	0	2.321648
337	CUA-38 CIMA	29.228	0.17417	0.04649	1.2757	1.8531688	0.3110181	3.240278	5.4044649
338	CUA-39	29.224	0.44249	0.24216	0.07288	4.7080936	1.6200504	0.1851152	6.5132592
339	CUA-39	29.252	0.23964	0.49376	0	2.5497696	3.3032544	0	5.853024
340	CUA-39	29.252	0.41269	0.48865	0.28855	4.3910216	3.2690685	0.732917	8.3930071
341	CUA-39	29.244	0.34513	0.5881	0.26715	3.6721832	3.934389	0.678561	8.2851332
342	CUA-39	29.24	0.42258	0.73833	0.51209	4.4962512	4.9394277	1.3007086	10.736388
343	CUA-40	29.276	0.21165	0.89907	0	2.251956	6.0147783	0	8.2667343
344	CUA-40	29.228	0.49421	0	1.36076	5.2583944	0	3.4563304	8.7147248
345	CUA-40	29.244	0.32604	0.68928	0.25381	3.4690656	4.6112832	0.6446774	8.7250262
346	CUA-40	29.248	0.3874	1.01003	0	4.121936	6.7571007	0	10.879037
347	CUA-40	29.26	0.29576	0.98057	0.71095	3.1468864	6.5600133	1.805813	11.512713
348	CUA-41 BASE	29.26	0.17332	1.00026	0	1.8441248	6.6917394	0	8.5358642
349	CUA-41 BASE	29.288	0.25385	0.51273	0.994	2.700964	3.4301637	2.52476	8.6558877
350	CUA-41 BASE	29.276	0.35781	0.75867	0	3.8070984	5.0755023	0	8.8826007
351	CUA-41 BASE	29.252	0.23496	0.26478	0.77133	2.4999744	1.7713782	1.9591782	6.2305308
352	CUA-41 BASE	29.292	0.2221	0	1.05868	2.363144	0	2.6890472	5.0521912
353	CUA-41	29.236	0.29668	0.3376	0.03756	3.1566752	2.258544	0.0954024	5.5106216
354	CUA-41	29.272	0.27554	0.27826	0.28457	2.9317456	1.8615594	0.7228078	5.5161128
355	CUA-41	29.248	0.29971	0	1.09462	3.1889144	0	2.7803348	5.9692492
356	CUA-41	29.248	0.36384	0.13608	0.06894	3.8712576	0.9103752	0.1751076	4.9567404
357	CUA-41	29.26	0.3298	0	1.0689	3.509072	0	2.715006	6.224078

358	CUA-41	29.224	0.4255	0	1.14779	4.52732	0	2.9153866	7.4427066
359	CUA-41	29.252	0.45837	0	0.37689	4.8770568	0	0.9573006	5.8343574
360	CUA-41	29.256	0.20501	0.05949	0.78613	2.1813064	0.3979881	1.9967702	4.5760647
361	CUA-41	29.244	0.39125	0	0.12406	4.1629	0	0.3151124	4.4780124
362	CUA-41	29.272	0.24031	0	1.10317	2.5568984	0	2.8020518	5.3589502
363	CUA-41	29.228	0.34325	0	0.10615	3.65218	0	0.269621	3.921801
364	CUA-41	29.208	0.24988	0.74506	0	2.6587232	4.9844514	0	7.6431746
365	CUA-41	29.264	0.43086	0	0.10019	4.5843504	0	0.2544826	4.838833
366	CUA-41	29.236	0.16757	0	2.33129	1.7829448	0	5.9214766	7.7044214
367	CUA-41	29.256	0.35706	0	1.56684	3.7991184	0	3.9797736	7.778892
368	CUA-41 CIMA	29.268	0.44148	0.73775	0.51429	4.6973472	4.9355475	1.3062966	10.939191
369	CUA-41 CIMA	29.256	0.59279	0	0.88278	6.3072856	0	2.2422612	8.5495468
370	CUA-41 CIMA	29.244	0.45693	0	0.86008	4.8617352	0	2.1846032	7.0463384
371	CUA-41 CIMA	29.248	0.52646	0	0.61011	5.6015344	0	1.5496794	7.1512138
372	CUA-41 CIMA	29.224	0.62704	0.14792	0.11458	6.6717056	0.9895848	0.2910332	7.9523236
373	CUA-42 CENTRO	29.236	0.33239	0.51825	1.0103	3.5366296	3.4670925	2.566162	9.5698841
374	CUA-42 CENTRO	29.276	0.25679	0.48107	0.26113	2.7322456	3.2183583	0.6632702	6.6138741
375	CUA-42 CENTRO	29.24	0.36699	0.70365	0	3.9047736	4.7074185	0	8.6121921
376	CUA-42 CENTRO	29.284	0.35147	0.37048	0.77974	3.7396408	2.4785112	1.9805396	8.1986916
377	CUA-42 CENTRO	29.228	0.3767	0	1.36077	4.008088	0	3.4563558	7.4644438
378	CUA-43 CENTRO	29.2	0.49556	0	1.34268	5.2727584	0	3.4104072	8.6831656
379	CUA-43 CENTRO	29.236	0.48898	0	0.35245	5.2027472	0	0.895223	6.0979702
380	CUA-43 CENTRO	29.22	0.36302	0.57748	0.76456	3.8625328	3.8633412	1.9419824	9.6678564
381	CUA-43 CENTRO	29.22	0.48853	0.02765	0.59466	5.1979592	0.1849785	1.5104364	6.8933741
382	CUA-43 CENTRO	29.24	0.49	0.28843	0.32229	5.2136	1.9295967	0.8186166	7.9618133
383	CUA-44 CENTRO	29.256	0.59179	1.12015	0	6.2966456	7.4938035	0	13.790449
384	CUA-44 CENTRO	29.212	0.42985	0.17228	0.81669	4.573604	1.1525532	2.0743926	7.8005498
385	CUA-44 CENTRO	29.204	0.6923	0	0.66045	7.366072	0	1.677543	9.043615
386	CUA-44 CENTRO	29.256	0.51137	0.6518	0.04373	5.4409768	4.360542	0.1110742	9.912593
387	CUA-44 CENTRO	29.204	0.62128	0.5692	0	6.6104192	3.807948	0	10.418367
388	CUA-45 CENTRO	29.256	0.49039	0.49178	0.30175	5.2177496	3.2900082	0.766445	9.2742028
389	CUA-45 CENTRO	29.244	0.39991	0.66752	1.25295	4.2550424	4.4657088	3.182493	11.903244
390	CUA-45 CENTRO	29.212	0.53966	0.39358	0.32158	5.7419824	2.6330502	0.8168132	9.1918458

391	CUA-45 CENTRO	29.236	0.54809	0.18901	0.34244	5.8316776	1.2644769	0.8697976	7.9659521
392	CUA-45 CENTRO	29.236	0.65247	0	0.65233	6.9422808	0	1.6569182	8.599199
393	CUA-46 CENTRO	29.236	0.32426	0.42834	0.5256	3.4501264	2.8655946	1.335024	7.650745
394	CUA-46 CENTRO	29.252	0.41423	0.64787	0.02717	4.4074072	4.3342503	0.0690118	8.8106693
395	CUA-46 CENTRO	29.252	0.40413	0.54549	0.0355	4.2999432	3.6493281	0.09017	8.0394413
396	CUA-46 CENTRO	29.28	0.34423	0.23618	0.05481	3.6626072	1.5800442	0.1392174	5.3818688
397	CUA-46 CENTRO	29.264	0.55395	0.36736	1.30828	5.894028	2.4576384	3.3230312	11.674698
398	CUA-47 BASE	29.248	0.30542	0.38231	0.28035	3.2496688	2.5576539	0.712089	6.5194117
399	CUA-47 BASE	29.236	0.33078	1.16758	0	3.5194992	7.8111102	0	11.330609
400	CUA-47 BASE	29.26	0.41501	0	1.36521	4.4157064	0	3.4676334	7.8833398
401	CUA-47 BASE	29.268	0.14388	1.74413	0.36271	1.5308832	11.66823	0.9212834	14.120396
402	CUA-47 BASE	29.244	0.34272	0.72231	0.9915	3.6465408	4.8322539	2.51841	10.997205
403	CUA-47 CIMA	29.256	0.28703	0.43842	0.02541	3.0539992	2.9330298	0.0645414	6.0515704
404	CUA-47 CIMA	29.212	0.14945	0.17286	0.27486	1.590148	1.1564334	0.6981444	3.4447258
405	CUA-47 CIMA	29.204	0.33501	0.03401	0.07506	3.5645064	0.2275269	0.1906524	3.9826857
406	CUA-47 CIMA	29.248	0.2707	1.00509	0	2.880248	6.7240521	0	9.6043001
407	CUA-47 CIMA	29.236	0.33991	0	1.072	3.6166424	0	2.72288	6.3395224
408	CUA-48 BASE	29.28	0.27426	0.22079	0.53545	2.9181264	1.4770851	1.360043	5.7552545
409	CUA-48 BASE	29.292	0.48881	0.53494	0.54161	5.2009384	3.5787486	1.3756894	10.155376
410	CUA-48 BASE	29.272	0.28723	0	1.81517	3.0561272	0	4.6105318	7.666659
411	CUA-48 BASE	29.248	0.23298	0.50109	1.48578	2.4789072	3.3522921	3.7738812	9.6050805
412	CUA-48 BASE	29.276	0.37885	0.11105	1.05629	4.030964	0.7429245	2.6829766	7.4568651
413	CUA-48	29.264	0.30906	0.09599	1.53791	3.2883984	0.6421731	3.9062914	7.8368629
414	CUA-48	29.244	0.27895	0.84648	0	2.968028	5.6629512	0	8.6309792
415	CUA-48	29.24	0.23154	0.9019	0	2.4635856	6.033711	0	8.4972966
416	CUA-48	29.232	0.26692	1.22981	0.92881	2.8400288	8.2274289	2.3591774	13.426635
417	CUA-48	29.256	0.36056	0.06608	0.81279	3.8363584	0.4420752	2.0644866	6.3429202
418	CUA-48	29.292	0.21853	0.4341	0.0129	2.3251592	2.904129	0.032766	5.2620542
419	CUA-48	29.236	0.18639	0.76087	1.20679	1.9831896	5.0902203	3.0652466	10.138657
420	CUA-48	29.284	0.14012	0.4758	0.2409	1.4908768	3.183102	0.611886	5.2858648
421	CUA-48	29.268	0.27313	0.66102	1.22972	2.9061032	4.4222238	3.1234888	10.451816
422	CUA-48	29.232	0.28708	0	1.83859	3.0545312	0	4.6700186	7.7245498
423	CUA-48 CIMA	29.268	0.11476	0	1.06177	1.2210464	0	2.6968958	3.9179422
424	CUA-48 CIMA	29.268	0.13801	0.1135	0.52263	1.4684264	0.759315	1.3274802	3.5552216
425	CUA-48 CIMA	29.248	0.22068	0	1.55413	2.3480352	0	3.9474902	6.2955254
426	CUA-48 CIMA	29.248	0.21753	0.27662	0.27536	2.3145192	1.8505878	0.6994144	4.8645214
427	CUA-48 CIMA	29.256	0.18126	0	1.77821	1.9286064	0	4.5166534	6.4452598
428	CUA-49 BASE	29.228	0.13979	0.77175	0.70579	1.4873656	5.1630075	1.7927066	8.4430797
429	CUA-49 BASE	29.264	0.13256	0.48873	0	1.4104384	3.2696037	0	4.6800421

430	CUA-49 BASE	29.236	0.04805	0	1.02198	0.511252	0	2.5958292	3.1070812
431	CUA-49 BASE	29.26	0.0397	0.05239	0.75761	0.422408	0.3504891	1.9243294	2.6972265
432	CUA-49 BASE	29.268	0.15534	0.59887	1.46099	1.6528176	4.0064403	3.7109146	9.3701725
433	CUA-49 CIMA	29.256	0.2735	0	0.56644	2.91004	0	1.4387576	4.3487976
434	CUA-49 CIMA	29.252	0.28905	0.4511	0	3.075492	3.017859	0	6.093351
435	CUA-49 CIMA	29.24	0.12965	0.41994	0.49209	1.379476	2.8093986	1.2499086	5.4387832
436	CUA-49 CIMA	29.28	0.32209	0.0191	0.56376	3.4270376	0.127779	1.4319504	4.986767
437	CUA-49 CIMA	29.232	0.27267	0	0.81902	2.9012088	0	2.0803108	4.9815196
438	CUA-50 CENTRO	29.256	0.22378	0	0.58811	2.3810192	0	1.4937994	3.8748186
439	CUA-50 CENTRO	29.232	0.14728	0.15971	0.76732	1.5670592	1.0684599	1.9489928	4.5845119
440	CUA-50 CENTRO	29.236	0.18468	0	0.81381	1.9649952	0	2.0670774	4.0320726
441	CUA-50 CENTRO	29.252	0.15607	0	0.788	1.6605848	0	2.00152	3.6621048
442	CUA-50 CENTRO	29.268	0.21114	0.19863	0	2.2465296	1.3288347	0	3.5753643
443	CUA-51 BASE	29.24	0.27841	0	1.58475	2.9622824	0	4.025265	6.9875474
444	CUA-51 BASE	29.288	0.23383	0	0.56842	2.4879512	0	1.4437868	3.931738
445	CUA-51 BASE	29.26	0.25677	0	0	2.7320328	0	0	2.7320328
446	CUA-51 BASE	29.252	0.30624	0	1.84021	3.2583936	0	4.6741334	7.932527
447	CUA-51 BASE	29.22	0.14506	0.04546	1.27123	1.5434384	0.3041274	3.2289242	5.07649
448	CUA-51 CIMA	29.236	0.40136	0.22758	0.55895	4.2704704	1.5225102	1.419733	7.2127136
449	CUA-51 CIMA	29.188	0.2169	0.96895	1.19485	2.307816	6.4822755	3.034919	11.825011
450	CUA-51 CIMA	29.212	0.31799	0.18745	2.02695	3.3834136	1.2540405	5.148453	9.7859071
451	CUA-51 CIMA	29.3	0.24602	0	2.2981	2.6176528	0	5.837174	8.4548268
452	CUA-51 CIMA	29.24	0.43866	0.06981	0.82694	4.6673424	0.4670289	2.1004276	7.2347989
453	CUA-52 BASE	29.24	0.54178	0	1.60975	5.7645392	0	4.088765	9.8533042
454	CUA-52 BASE	29.276	0.43788	0.31729	1.0463	4.6590432	2.1226701	2.657602	9.4393153
455	CUA-52 BASE	29.244	0.27872	0	1.57443	2.9655808	0	3.9990522	6.964633
456	CUA-52 BASE	29.24	0.4048	0	1.82789	4.307072	0	4.6428406	8.9499126
457	CUA-52 BASE	29.24	0.33701	0.1874	2.02769	3.5857864	1.253706	5.1503326	9.989825
458	CUA-52 CIMA	29.248	0.6474	0	1.87888	6.888336	0	4.7723552	11.660691
459	CUA-52 CIMA	29.252	0.60065	0	1.37742	6.390916	0	3.4986468	9.8895628
460	CUA-52 CIMA	29.224	0.47199	0.59436	0.28947	5.0219736	3.9762684	0.7352538	9.7334958
461	CUA-52 CIMA	29.252	0.49646	0	0.62494	5.2823344	0	1.5873476	6.869682
462	CUA-52 CIMA	29.248	0.53304	0	1.35604	5.6715456	0	3.4443416	9.1158872
463	CUA-53 BASE	29.248	0.21168	0.54995	0	2.2522752	3.6791655	0	5.9314407
464	CUA-53 BASE	29.252	0.28364	0.01817	0.55828	3.0179296	0.1215573	1.4180312	4.5575181
465	CUA-53 BASE	29.264	0.18541	0.30702	1.0037	1.9727624	2.0539638	2.549398	6.5761242
466	CUA-53 BASE	29.224	0.23225	0	1.29599	2.47114	0	3.2918146	5.7629546
467	CUA-53 BASE	29.232	0.30149	0	0.83403	3.2078536	0	2.1184362	5.3262898
468	CUA-53 CIMA	29.252	0.2917	0.3567	1.2641	3.103688	2.386323	3.210814	8.700825
469	CUA-53 CIMA	29.276	0.37681	0.90606	0	4.0092584	6.0615414	0	10.0708

470	CUA-53 CIMA	29.26	0.39654	0.34841	1.77453	4.2191856	2.3308629	4.5073062	11.057355
471	CUA-53 CIMA	29.256	0.43213	0	2.09287	4.5978632	0	5.3158898	9.913753
472	CUA-53 CIMA	29.272	0.25524	0.57062	0.74369	2.7157536	3.8174478	1.8889726	8.422174
473	CUA-54	29.252	0.18738	0.81729	0.95438	1.9937232	5.4676701	2.4241252	9.8855185
474	CUA-54	29.272	0.20936	0.78488	0.22295	2.2275904	5.2508472	0.566293	8.0447306
475	CUA-54	29.264	0.22245	0	1.06034	2.366868	0	2.6932636	5.0601316
476	CUA-54	29.228	0.36419	0.13667	0.06945	3.8749816	0.9143223	0.176403	4.9657069
477	CUA-54	29.224	0.24763	0.98062	0.70431	2.6347832	6.5603478	1.7889474	10.984078

MEDICIÓN DE RAYOS GAMMA EN AFLORAMIENTOS DE LA FM. MEXCALA Y FM. MORELOS

Medición	Pto. de muestra	Exposición (s)	K %	U ppm	Th ppm	K*10.64	U*6.69	Th*2.54	API TOTAL
1	caliza	58.512	0.1	0.18513	0.63046	0.950046	1.23852	1.601368	3.789934
2	caliza	58.512	0.1	0.39757	0.37328	1.537267	2.659743	0.948131	5.145142
3	caliza	58.504	0.1	0.01875	1.13425	0.664894	0.125438	2.880995	3.671326
4	caliza	58.508	0.1	0.14364	1.24731	0.819599	0.960952	3.168167	4.948718
5	caliza	58.56	0.1	0	1.01527	0.873863	0	2.578786	3.429301
6	lodolita	58.348	1.9	2.02995	3.73061	20.29995	13.58037	9.475749	43.35606
7	lodolita	58.328	2.1	0.9727	7.56526	22.03225	6.507363	19.21576	47.75537
8	lodolita	58.332	2.1	0.7768	7.34767	22.65586	5.196792	18.66308	46.51573
9	lodolita	58.368	2	1.21575	5.79415	21.0605	8.133368	14.71714	43.91101
10	lodolita	58.32	2.1	1.59235	7.25653	21.91382	10.65282	18.43159	50.99823
11	lodolita	58.356	2	1.58444	6.37791	21.20914	10.5999	16.19989	48.00893
12	lodolita	58.34	1.8	0.8043	8.63949	18.96644	5.380767	21.9443	46.29151
13	lodolita	58.28	2.1	0.56693	7.6214	22.60713	3.792762	19.35836	45.75824
14	lodolita	58.396	2.1	1.28574	6.16882	21.96968	8.601601	15.6688	46.24009
15	lodolita	58.396	1.7	0.85226	8.61888	18.53414	5.701619	21.89196	46.12771
16	lodolita	58.276	2.1	1.2211	6.93499	22.29612	8.169159	17.61487	48.08015
17	lodolita	58.344	2.1	1.86371	5.63066	22.34443	12.46822	14.30188	49.11452
18	lodolita	58.304	2	2.07926	7.07572	21.21744	13.91025	17.97233	53.10002
19	limolita	58.42	1.4	1.25638	4.0853	15.10039	8.405182	10.37666	33.88224
20	limolita	58.432	1.3	1.19557	4.3235	14.30761	7.998363	10.98169	33.28766
21	limolita	58.456	1.7	0.32232	5.20215	17.70507	2.156321	13.21346	33.07485
22	limolita	58.46	1.4	0.56039	5.37995	15.01112	3.749009	13.66507	32.42521
23	limolita	58.384	1.5	0.51573	5.41204	16.22291	3.450234	13.74658	33.41973
24	marga	58.436	0.4	1.23804	2.9238	4.365592	8.282488	7.426452	20.07453
25	marga	58.436	0.5	1.52308	1.93127	5.60845	10.18941	4.905426	20.70328
26	marga	58.464	0.6	1.35929	2.44981	6.302923	9.09365	6.222517	21.61909
27	marga	58.428	0.6	2.38223	1.23559	5.875195	15.93712	3.138399	24.95071
28	marga	58.432	0.6	1.02467	2.60407	6.082037	6.855042	6.614338	19.55142