

TABLE 1.— Recalculated point-count data for the Piedra Clavada, Mata Amarilla and La Anita sandstones .

Fm.	Loc.	Env.	Sample	Detrital components %												Cements %			% P	Qm	F	Lt	Qp	LV	LS	
				Qm	QP	Plg	Fk	Lvf	Lvp	Lvt	Ls	Li	Lp	Lg	PMz	Op	Ca	Fe-ox								Cc
La Anita	1	SM	CW 154	10.1	6	2.5	38.6	23.3	4.1	0.0	2.5	11.5	1.4	0.0	0.0	0.0	6.3	2.5	N.I.	10.1	41.1	48.8	12.4	82.6	5.1	
	7	SM	PAR 18	22.3	5.6	1.6	23.9	18.5	3.8	0.3	4.0	19.6	0.0	0.0	0.5	0.0	0.0	6.8	8.0	22.2	25.5	52.3	10.9	81.3	7.8	
	13	SM	CH 16	28.9	16.3	1.4	20.8	14.3	3.7	0.0	7.9	4.5	0.0	2.2	0.0	0.0	11.0	0.0	0.0	N.I.	28.6	22.2	49.3	33.8	45.6	20.5
MATA AMARILLA	1	F (cc)	CW 65	9.8	4.7	1.5	32.9	25.2	3.6	0.3	7.7	13.4	0.0	0.0	0.9	0.0	0.0	14.3	1.5	N.I.	9.7	34.4	55.8	8.6	76.0	15.4
	1	F (cs)	CW 91	12.4	5.9	2.5	30.9	22.5	4.2	0.3	9.8	11.5	0.0	0.0	0.0	0.0	0.0	5.8	5.3	N.I.	12.4	33.4	54.2	10.9	71.0	18.1
	1	F (cc)	CW 106	17.8	6.1	2.6	36.7	18.4	4.7	0.3	3.5	9.9	0.0	0.0	0.0	0.0	6.0	8.3	0.0	N.I.	17.8	39.4	42.9	14.3	77.6	8.2
	1	F (pc)	CW 117	13.2	7.3	2.3	30.1	19.7	3.9	0.0	7.3	10.6	0.0	0.0	5.7	0.0	0.0	0.0	3.5	N.I.	12.8	32.4	54.8	14.0	62.4	23.6
	3	F (cs)	MAT 14	15.4	7.0	1.8	25.6	38.9	2.1	0.3	2.6	6.0	0.0	0.0	0.0	0.3	4.3	0.0	0.0	5.0	15.4	27.4	57.2	12.4	83.0	4.6
	3	F (pc)	MAT 65	10.5	3.8	3.3	29.6	30.4	4.8	0.3	4.3	12.2	0.0	0.0	0.8	0.0	0.3	0.0	1.8	22.0	10.4	32.9	56.7	6.8	84.2	9.0
	4	LM (bb)	MAF 1	19.9	7.1	5.9	22.0	26.1	2.7	0.6	4.7	10.1	0.0	0.9	0.0	0.0	0.0	0.0	15.8	N.I.	19.8	27.9	52.3	13.7	75.5	10.8
	4	LM (bb)	MAF 2	12.0	7.1	2.8	28.1	38.3	2.5	0.6	2.2	6.2	0.0	0.0	0.0	0.3	3.8	0.0	15.3	N.I.	12.0	30.9	57.1	12.5	83.7	3.8
	4	LM (sb)	MAF 28	18.9	4.1	3.5	23.0	28.1	1.9	0.3	3.8	8.9	0.0	6.5	0.0	1.1	6.3	0.0	1.3	N.I.	18.6	26.5	54.9	8.1	72.8	19.1
	4	F (pc)	MAF 33	17.2	7.6	3.0	33.4	23.8	3.3	1.0	3.8	5.6	0.0	0.0	0.0	1.3	0.0	0.0	1.3	N.I.	17.1	36.5	46.4	17.0	74.6	8.4
	4	F (pc)	MAF 63	21.1	10.1	4.0	32.4	19.1	5.3	1.0	1.5	4.8	0.0	0.3	0.0	0.5	0.0	0.0	0.5	N.I.	21.0	36.4	42.6	24.1	71.7	4.2
	5	LM (bb)	ME 1	14.4	4.4	2.8	22.8	19.2	5.6	0.8	1.5	11.5	0.0	0.0	16.9	0.0	0.0	2.5	0.0	10.0	13.4	25.6	60.9	8.6	61.1	30.3
	5	LM (sb)	ME 15	15.6	7.8	2.8	33.7	28.9	6.3	1.0	1.0	2.8	0.0	0.0	0.3	0.0	0.0	0.0	0.5	N.I.	15.6	36.4	48.0	16.3	81.1	2.6
	5	F (cs)	ME 20	18.0	6.6	5.3	33.7	20.2	5.3	0.8	0.8	9.3	0.0	0.0	0.0	0.0	0.0	5.8	0.0	10.0	18.0	39.0	43.0	15.4	82.7	1.9
	5	F (pc)	ME 21	13.2	5.4	1.8	30.5	32.8	7.2	0.5	1.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	3.3	30.0	13.2	32.3	54.5	10.0	88.2	1.8
	7	F (pc)	PAR 9	12.6	4.3	1.1	22.8	36.8	2.4	0.0	1.3	17.2	0.0	0.0	1.3	0.0	7.0	0.0	0.0	N.I.	12.6	23.9	63.5	6.9	88.9	4.2
	8	F (cs)	BO 28	5.6	8.3	2.5	37.6	24.2	5.6	0.0	3.5	10.4	0.0	0.0	1.5	0.8	0.0	0.0	1.0	N.I.	5.4	40.1	54.5	15.9	74.7	9.4
	8	F (pc)	BO 55	8.9	3.5	1.5	28.1	27.6	3.3	0.5	4.6	17.5	0.0	0.0	4.6	0.0	0.0	0.0	1.3	25.0	8.7	29.6	61.7	6.0	79.2	14.8
	9	F (pc)	CI 8	40.1	18.8	0.5	14.1	18.3	2.9	0.0	0.5	2.4	0.5	0.0	1.9	0.0	0.0	0.0	5.8	8.0	39.7	14.6	45.7	42.0	52.8	5.2
	11	F (cs)	LVS 3	8.7	8.7	2.6	36.1	15.0	4.0	1.3	7.7	6.3	1.1	0.0	8.4	0.0	0.0	0.0	5.3	N.I.	7.9	38.8	53.3	17.8	52.0	30.2
11	F (pc)	LVS 17	6.7	14.6	2.4	38.5	12.1	5.9	0.8	6.7	8.1	0.5	0.0	3.5	0.0	0.0	0.0	7.3	N.I.	6.2	41.0	52.8	28.6	52.1	19.4	
11	F (pc)	LVS 18	9.3	7.8	2.3	38.1	21.2	4.7	0.3	5.2	6.2	0.0	0.0	3.6	1.3	0.0	0.0	3.5	N.I.	8.9	40.4	50.7	16.6	65.6	17.8	
11	F (pc)	LVS 30	8.8	16.8	3.3	30.9	16.3	6.0	0.3	7.0	9.5	0.3	0.0	0.8	0.0	0.0	0.0	0.5	N.I.	8.7	34.2	57.1	29.7	56.7	13.6	
11	F (cc)	LVS 35	17.0	15.2	0.8	38.2	10.7	3.4	1.3	5.0	8.4	0.0	0.0	0.0	0.0	0.3	0.0	4.3	N.I.	17.0	39.0	44.0	34.5	54.2	11.3	
11	F (cs)	LVS 46	11.5	9.7	1.8	31.6	24.7	4.1	0.0	3.3	12.0	0.0	1.0	0.3	0.0	0.0	0.0	2.0	N.I.	11.4	33.4	55.2	17.8	73.9	8.3	
11	F (pc)	LVS 50	10.6	16.1	2.8	35.9	18.3	4.3	0.0	5.0	6.5	0.0	0.0	0.0	0.5	0.0	0.0	0.5	N.I.	10.5	38.7	50.8	32.1	57.9	10.0	
12	F (pc)	DRG 7	3.5	18.3	1.8	36.6	26.8	6.3	0.3	4.0	1.5	0.0	0.0	0.8	0.3	0.0	0.0	0.3	N.I.	3.3	38.3	58.4	31.8	60.0	8.2	
12	F (cs)	DRG 9	5.3	7.8	1.8	23.8	24.5	3.0	0.0	16.5	10.8	0.0	0.0	6.3	0.5	0.0	0.0	0.0	20.0	4.7	25.5	69.8	12.0	55.2	32.8	
12	F (pc)	DRG 15	10.8	14.3	2.0	43.6	19.5	1.8	0.0	2.5	3.8	1.3	0.0	0.5	0.0	0.0	0.0	0.3	N.I.	10.7	45.6	43.7	32.9	60.2	6.8	
12	F (cc)	DRG 22	4.5	9.0	0.8	35.3	27.8	4.0	0.5	3.3	6.5	3.0	0.0	5.5	0.0	0.0	0.0	0.0	N.I.	4.0	36.0	60.0	15.9	69.6	14.6	

	12	F (pc)	DRG 33	9.0	9.3	1.8	39.3	22.8	3.5	0.3	5.3	7.8	1.0	0.0	0.3	0.0	0.0	0.0	25.0	9.0	41.0	50.0	18.5	70.5	11.0	
	12	F (pc)	DRG 44	8.6	16.9	2.0	40.9	17.2	3.8	0.5	5.8	4.0	0.3	0.0	0.0	0.0	0.0	0.5	0.5	N.I.	8.6	42.9	48.5	34.9	53.1	12.0
	12	F (cs)	DRG 46	9.3	7.8	1.0	24.6	33.4	2.3	0.3	6.8	4.0	0.8	0.0	9.8	0.0	0.0	0.0	0.5	N.I.	8.5	25.6	65.9	13.1	61.7	25.2
	12	F (cc)	DRG 47	9.8	13.5	2.0	32.6	24.6	3.0	0.5	6.8	4.5	1.0	0.0	1.8	0.0	0.0	0.0	0.3	22.0	9.5	34.6	55.9	24.7	60.1	15.2
	12	F (cc)	DRG 56	7.8	14.4	3.0	31.9	30.1	4.1	0.8	4.8	2.5	0.5	0.0	0.0	0.0	0.0	0.0	1.3	N.I.	7.8	34.9	57.2	25.2	66.4	8.4
	12	F (pc)	DRG 64	5.8	21.5	2.1	21.5	23.9	4.2	0.5	13.6	3.1	3.7	0.0	0.0	0.0	2.3	0.0	2.5	N.I.	5.8	23.6	70.6	30.5	50.2	19.3
	12	F (cc)	DRG 81	7.5	9.0	3.0	25.3	25.1	2.5	0.5	13.8	8.0	2.8	0.0	2.5	0.0	0.0	0.0	0.3	N.I.	7.3	28.3	64.4	14.4	60.3	25.3
	13	F (pc)	CH 1	12.2	8.1	0.8	30.5	28.0	4.3	0.0	7.1	4.1	0.0	0.8	1.5	1.5	0.0	0.0	1.8	N.I.	11.9	31.3	56.8	15.3	67.7	17.0
	13	F (cs)	CH 6	12.3	6.9	1.8	25.7	36.8	2.8	0.3	1.5	1.5	0.0	0.3	10.0	0.0	0.0	0.0	2.8	N.I.	11.5	27.5	60.9	12.7	67.9	19.4
	13	F (pc)	CH 7	8.5	6.2	2.1	27.7	39.7	4.4	0.8	4.1	2.1	0.0	0.0	4.6	0.0	0.0	0.0	2.5	N.I.	8.2	29.7	62.1	10.4	75.6	14.0
	13	F (pc)	CH 8	10.6	2.8	2.5	33.5	25.7	3.5	0.5	4.0	1.3	8.1	0.0	7.6	0.0	0.0	0.0	0.8	N.I.	10.4	36.0	53.6	5.6	72.8	21.6
	13	F (cc)	CH 9	10.6	5.8	1.3	39.4	25.3	4.0	0.5	4.0	1.8	3.8	0.0	3.5	0.0	0.0	0.0	1.0	N.I.	10.4	40.7	49.0	12.3	72.2	15.5
	13	F (pc)	CH 10	6.4	9.2	2.0	26.9	32.5	5.6	0.8	7.2	2.0	1.3	0.0	6.1	0.0	0.0	0.0	2.3	8.0	5.8	28.9	65.3	15.0	64.6	20.4
	13	F (pc)	CH 11	17.5	12.4	1.6	25.4	13.2	3.2	0.3	11.6	14.0	0.0	0.0	0.0	0.8	0.0	0.0	5.5	N.I.	17.4	27.0	55.7	22.8	55.9	21.2
	15	E (eb)	LB 7	20.4	2.5	3.5	41.4	18.5	1.9	0.0	2.5	9.3	0.0	0.0	0.0	0.0	8.3	0.0	0.0	N.I.	20.4	45.0	34.6	7.1	85.8	7.1
	15	F (pc)	LB 11	42.0	15.7	0.6	21.0	6.7	4.2	1.1	0.6	6.7	1.4	0.0	0.0	0.0	10.8	0.0	0.0	15.0	42.0	21.6	36.4	43.1	55.4	1.5
	15	F (pc)	LB 16	38.0	14.8	0.5	15.8	11.1	5.3	0.0	1.6	8.4	0.0	0.0	4.0	0.5	0.0	0.0	5.3	N.I.	37.3	16.4	46.3	33.8	54.1	12.1
	15	F (pc)	LB 18	22.3	5.6	1.6	23.9	18.5	3.8	0.3	4.0	19.6	0.0	0.0	0.0	0.5	0.0	0.0	6.8	15.0	22.2	25.5	52.3	10.9	81.3	7.8
Piedra clavada	1	D	CW 1	15.1	2.2	1.1	19.1	31.5	14.3	0.3	1.6	10.0	0.0	0.0	1.1	3.8	7.3	0.0	0.0	N.I.	15.0	20.2	64.8	3.7	91.9	4.4
	1	D	CW 2	8.8	9.3	0.8	19.0	23.6	6.3	0.3	3.3	20.1	0.0	0.0	0.5	8.3	0.3	0.0	0.0	N.I.	7.9	19.8	72.3	15.9	78.3	5.9
	1	D	CW 3	13.3	3.2	1.3	22.7	31.2	7.7	0.0	0.3	16.0	0.0	0.0	0.3	4.0	6.3	0.0	0.0	N.I.	13.2	24.0	62.8	5.7	93.4	0.9
	11	D	LVS 1	21.1	9.0	3.0	31.4	25.9	4.0	0.5	1.8	3.0	0.0	0.0	0.0	0.3	0.3	0.0	0.3	N.I.	21.1	34.4	44.5	20.5	75.5	4.0
	11	D	LVS 2	11.1	11.3	4.5	32.2	17.6	4.3	0.5	7.5	8.5	1.0	0.0	1.5	0.0	0.0	0.0	0.5	N.I.	10.9	36.7	52.4	21.9	60.9	17.3

Abbreviations: Loc.= Locality; Env.= environment; Qm = monocrytalline quartz, Qp = polycrytalline quartz, Plg = plagioclase, Fk = potassium feldspar, Lvf = volcanic lithic with felsitic texture, Lvp = volcanic lithic with pilotaxitic texture, Lvt = volcanic lithic with trachytic texture; Ls = sedimentary lithic, Li = indeterminate lithic, Lp = pyroclastic lithic, Lg = glauconite lithic, PMz = pseudomatrix, Op = opaque, Ca = carbonate cement, Fe-ox = iron oxide cement, Cc = clay cement; % P = porosity; SM = shallow marine, F = fluvial, LM = littoral marine, E = estuarine, D = deltaic, cc = crevasse channel, cs = crevasse splay, pc = paleochannel, bb = bioclastic bar, sb = sand bar, eb = estuarine bar.