

TABLE 3.— *X-ray diffraction data of the Mata Amarilla Formation at locality 4.*

FM	Sample	Whole Rock											Clay fraction						Clay ass.	
		Q	FK	Pl	Ca	D	S	Cli	A	Ht	Mg	Clays	I	Cl	K	I/S	C/S	Sm		Pg
	Mafer 62	vA	2vS	S	vS	tr.	-	-	-	-	vS	M.	0	0	1	0	0	99	0	S
	Mafer 61	vA	vS	S	tr.	tr.	-	-	-	-	-	S	0	0	1	0	0	99	0	S
	Mafer 60	vA	tr.	A.	tr.	tr.	-	-	-	-	-	M.	0	0	0	0	0	100	0	S
	Mafer 59	vA	-	S	-	-	-	-	-	-	-	M.	0	0	0	0	0	100	0	S
	Mafer 57	vA	tr.	S	tr.	tr.	-	-	-	-	-	M.	0	0	0	0	0	100	0	S
	Mafer 56	vA	tr.	vS	-	tr.	-	-	-	-	-	S	0	0	1	0	0	99	0	S
	Mafer 55	M.	vS	S	S	-	-	-	-	-	-	vA	0	0	0	0	0	100	0	S
	Mafer 54	vA	tr.	vS	tr.	tr.	-	-	-	-	-	S	0	0	1	0	0	99	0	S
	Mafer 53	vA	vS	vS	tr.	tr.	tr.	-	-	-	-	S	0	0	2	0	0	98	0	S
	Mafer 52	vA	tr.	tr.	M.	tr.	tr.	-	-	-	-	S	1	0	4	5	0	90	0	S
	Mafer 48	vA	tr.	tr.	M.	tr.	tr.	-	-	-	-	S	5	0	3	10	0	83	0	S
	Mafer 47	vA	tr.	S	M.	tr.	vS	-	-	-	-	S	1	0	2	9	0	88	0	S
	Mafer 45	-	tr.	-	vA	-	-	-	-	-	-	vS	0	0	0	0	0	0	0	-
	Mafer 44	S	tr.	vS	-	vA	vS	-	-	-	-	M.	5	0	6	11	0	77	0	S
	Mafer 43	vA	tr.	vS	S	-	tr.	-	-	-	-	A.	0	0	0	0	0	100	0	S
	Mafer 42	vA	S	S	vS	-	-	-	-	-	-	S	1	0	0	0	0	99	0	S
	Mafer 41	vA	tr.	tr.	tr.	-	tr.	-	-	-	-	M.	1	0	0	0	0	99	0	S
	Mafer 40	vA	-	S	-	-	-	-	-	-	-	M.	0	0	0	0	0	100	0	S
	Mafer 39	vA	-	vS	S	-	-	-	-	-	-	S	3	0	1	3	0	93	0	S
	Mafer 38	vA	vS	vS	S	-	vS	-	-	-	-	M.	2	0	1	3	0	94	0	S
	Mafer 37	vA	vS	vS	vS	vS	-	-	-	-	-	A.	1	0	0	1	0	98	0	S
	Mafer 36	vA	vS	S	S	S	-	-	-	-	-	A.	0	0	2	0	0	98	0	S
	Mafer 35	vA	-	S	-	-	vS	-	-	-	-	S	0	0	0	0	0	100	0	S
	Mafer 34	vA	-	S	-	-	tr.	-	-	-	-	S	0	0	0	0	0	100	0	S
	Mafer 30	vA	S	A.	vS	vS	vS	-	-	-	-	A.	0	0	0	0	0	100	0	S
	Mafer 29	A.	S	A.	vA	-	-	-	-	-	-	S	0	0	1	0	0	99	0	S
	Mafer 28	vA	vS	M.	vS	-	vS	-	-	-	-	A.	0	0	0	0	0	100	0	S
	Mafer 27	A.	vS	A.	S	-	-	-	-	-	-	A.	0	0	0	0	0	100	0	S
	Mafer 26	M.	vS	M.	A.	-	vS	-	-	-	-	M.	0	0	0	0	0	100	0	S
	Mafer 25	vA	-	S	tr.	tr.	-	-	-	-	-	M.	0	0	0	0	0	100	0	S
	Mafer 24	vA	-	S	vS	vS	vS	-	-	-	-	S	0	0	0	0	0	100	0	S
	Mafer 23	vA	vS	S	vS	tr.	-	-	-	-	-	M.	0	0	0	0	0	100	0	S
	Mafer 22	vA	S	S	vS	-	-	-	-	-	-	M.	0	0	0	0	0	100	0	S
	Mafer 21	vA	-	S	vS	tr.	-	-	-	-	-	S	0	0	0	0	0	100	0	S
	Mafer 20	vA	tr.	S	-	tr.	-	-	-	-	-	S	0	0	0	0	0	100	0	S
	Mafer 19	A.	vS	S	S	vS	S	-	-	-	-	A.	0	0	0	0	0	100	0	S

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Mafer 18	vA	vS	S	vS	vS	-	-	-	-	-	M.	3	0	0	2	0	95	0	<b>S</b>
Mafer 16	vA	tr.	vS	-	-	-	-	-	-	-	S	3	0	0	0	0	97	0	<b>S</b>
Mafer 14	vA	tr.	vS	tr.	tr.	vS	-	-	-	-	S	21	0	0	4	0	75	0	<b>S</b>
Mafer 13	vA	tr.	tr.	tr.	tr.	-	-	-	-	-	S	10	0	0	0	0	90	0	<b>S</b>
Mafer 12	vA	vS	vS	-	vS	vS	-	-	-	-	S	3	0	0	0	0	97	0	<b>S</b>
Mafer 11	vA	vS	S	-	vS	-	-	-	-	vS	S	5	0	0	0	0	70	25	<b>Pg</b>
Mafer 10	vA	vS	S	-	vS	-	-	-	-	-	M.	0	0	0	0	0	100	0	<b>S</b>
Mafer 9	vA	tr.	S	tr.	-	-	-	-	-	-	M.	0	0	1	0	0	99	0	<b>S</b>
Mafer 8	vA	tr.	S	tr.	-	tr.	-	-	-	-	S	0	0	0	0	0	100	0	<b>S</b>
Mafer 7	vA	vS	M.	vS	vS	-	-	-	-	-	S	0	0	0	0	0	100	0	<b>S</b>
Mafer 5	vA	vS	vS	vS	-	-	-	-	-	-	M.	0	0	0	0	0	100	0	<b>S</b>
Mafer 4	vA	vS	M.	vS	vS	-	-	-	-	-	M.	0	0	0	0	0	100	0	<b>S</b>
Mafer 3	vA	vS	A.	S	vS	-	-	-	-	-	S	2	0	10	0	0	88	0	<b>S</b>
Mafer 1	vA	S	S	vS	vS	-	-	-	-	-	A	0	0	3	0	0	97	0	<b>S</b>

Abbreviations: Q = quartz, FK = potassium feldspar, Pl = plagioclase, Ca = calcite, D = dolomite, S = siderite, A = analcime, Ht = hematite, Mg = magnetite, Cla. = clays, I = illite, Cl = chlorite, K = kaolinite, I/S = illite/smectite, C/S = Chlorite/smectite, Sm = smectite, Pg = palygorskite.