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Supplement of

The Piuquencillo fault system: a long-lived, Andean-transverse fault system and its relationship with magmatic and hydrothermal activity

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Table S1: structural database

Abbreviations used in the table: SS = structural station; GC = geochronology; No = fault plane number; NoK: fault plane with kinematic indicator; RD = reference direction; SM = sense of movement
 For the "sense of movement" column, D = dextral, S = sinistral, N = normal, R = reverse

SS	Sector	East	North	Lithology	Unit	No	NoK	Strike	Dip	Rake	RD	SM	Criteria
1	Clarillo-La Obra	363520	6281026	fine-grained andesite lavas	Abanico Fm.	1		90	52	60	W		
1	Clarillo-La Obra	363520	6281026	fine-grained andesite lavas	Abanico Fm.	2		100	37				
1	Clarillo-La Obra	363520	6281026	fine-grained andesite lavas	Abanico Fm.	3		270	85	75	W		
2	Clarillo-La Obra	358835	6279214	hornblende-rich quartz-monzonite	La Obra batholith	4		32	50	10	S		
2	Clarillo-La Obra	358835	6279214	hornblende-rich quartz-monzonite	La Obra batholith	5		32	50	70	N		
2	Clarillo-La Obra	358835	6279214	hornblende-rich quartz-monzonite	La Obra batholith	6		38	50				
3	Clarillo-La Obra	348109	6275807	fine-grained andesite lavas	Abanico Fm.	7		120	76				
3	Clarillo-La Obra	348109	6275807	fine-grained andesite lavas	Abanico Fm.	8		134	90				
3	Clarillo-La Obra	348109	6275807	fine-grained andesite lavas	Abanico Fm.	9		134	90				
3	Clarillo-La Obra	348109	6275807	fine-grained andesite lavas	Abanico Fm.	10		280	80				
4	Clarillo-La Obra	363250	6267281	hornblende- and biotite-rich granodiorite	La Obra batholith	11		210	46				
4	Clarillo-La Obra	363250	6267281	hornblende- and biotite-rich granodiorite	La Obra batholith	12		245	52				
5	Clarillo-La Obra	363719	6266857	hornblende- and biotite-rich granodiorite	La Obra batholith	13		304	80				
5	Clarillo-La Obra	363719	6266857	hornblende- and biotite-rich granodiorite	La Obra batholith	14		308	76				
6	Clarillo-La Obra	362803	6267062	hornblende- and biotite-rich granodiorite	La Obra batholith	15		105	62				
6	Clarillo-La Obra	362803	6267062	hornblende- and biotite-rich granodiorite	La Obra batholith	16		112	55				
6	Clarillo-La Obra	362803	6267062	hornblende- and biotite-rich granodiorite	La Obra batholith	17		112	52				
6	Clarillo-La Obra	362803	6267062	hornblende- and biotite-rich granodiorite	La Obra batholith	18		196	37				
7	Clarillo-La Obra	363676	6266925	hornblende- and biotite-rich granodiorite	La Obra batholith	19		218	56				
8	Clarillo-La Obra	363689	6266852	hornblende- and biotite-rich granodiorite	La Obra batholith	20		118	36				
8	Clarillo-La Obra	363689	6266852	hornblende- and biotite-rich granodiorite	La Obra batholith	21		125	40				
9	Maipo	388773	6249949	Epiclastic sediments, cut by coarse-grained andesite dike	Abanico Fm.	22		45	80	10	E		
9	Maipo	388773	6249949	Epiclastic sediments, cut by coarse-grained andesite dike	Abanico Fm.	23	1	270	68	35	E	S	goethite in strain fringes
9	Maipo	388773	6249949	Epiclastic sediments, cut by coarse-grained andesite dike	Abanico Fm.	24	2	286	68	20	W	S	P only
9	Maipo	388773	6249949	Epiclastic sediments, cut by coarse-grained andesite dike	Abanico Fm.	25	3	288	73	0		S	P only
9	Maipo	388773	6249949	Epiclastic sediments, cut by coarse-grained andesite dike	Abanico Fm.	26		290	48	60	E		
9	Maipo	388773	6249949	Epiclastic sediments, cut by coarse-grained andesite dike	Abanico Fm.	27		310	46	50	E		
10	Maipo	389405	6251445	Volcanic autobreccias cut by microdiorite dikes	Abanico Fm.	28	4	8	57	90		R	steps in epidote
10	Maipo	389405	6251445	Volcanic autobreccias cut by microdiorite dikes	Abanico Fm.	29		67	90	10	E		
10	Maipo	389405	6251445	Volcanic autobreccias cut by microdiorite dikes	Abanico Fm.	30		84	90	20	E		
10	Maipo	389405	6251445	Volcanic autobreccias cut by microdiorite dikes	Abanico Fm.	31		112	82	10	E		
10	Maipo	389405	6251445	Volcanic autobreccias cut by microdiorite dikes	Abanico Fm.	32		138	67	10	S		
10	Maipo	389405	6251445	Volcanic autobreccias cut by microdiorite dikes	Abanico Fm.	33	5	247	82	20	E	S	steps in epidote
10	Maipo	389405	6251445	Volcanic autobreccias cut by microdiorite dikes	Abanico Fm.	34		282	74	30	E		
10	Maipo	389405	6251445	Volcanic autobreccias cut by microdiorite dikes	Abanico Fm.	35		330	85	20	S		
11	Maipo	389577	6251835	Epiclastic sediments cut by andesite dikes	Abanico Fm.	36		75	90	50	W		
11	Maipo	389577	6251835	Epiclastic sediments cut by andesite dikes	Abanico Fm.	37		78	90	0			
11	Maipo	389577	6251835	Epiclastic sediments cut by andesite dikes	Abanico Fm.	38		270	80	25	E		
11	Maipo	389577	6251835	Epiclastic sediments cut by andesite dikes	Abanico Fm.	39		276	80				
11	Maipo	389577	6251835	Epiclastic sediments cut by andesite dikes	Abanico Fm.	40		278	75	10	E		
11	Maipo	389577	6251835	Epiclastic sediments cut by andesite dikes	Abanico Fm.	41		286	64	0			
11	Maipo	389577	6251835	Epiclastic sediments cut by andesite dikes	Abanico Fm.	42		292	85	0			
11	Maipo	389577	6251835	Epiclastic sediments cut by andesite dikes	Abanico Fm.	43		298	85	10	E		
12	Maipo	388987	6250517	Monomictic, andesite volcanic breccia	Abanico Fm.	44		300	90	30	W		
12	Maipo	388987	6250517	Monomictic, andesite volcanic breccia	Abanico Fm.	45	6	335	85	40	N	S	hematite in strain fringes
13	Maipo	389272	6252680	Irregular contact zone between coarse-grained andesite porphyry and granodiorite porphyry	Subvolcanic intrusions	46		42	90	30	S		
13	Maipo	389272	6252680	Irregular contact zone between coarse-grained andesite porphyry and granodiorite porphyry	Subvolcanic intrusions	47		46	85	35	W		
13	Maipo	389272	6252680	Irregular contact zone between coarse-grained andesite porphyry and granodiorite porphyry	Subvolcanic intrusions	48	7	48	80	20	W	D	steps in chlorite, specular hematite and chlorite in strain fringes
13	Maipo	389272	6252680	Irregular contact zone between coarse-grained andesite porphyry and granodiorite porphyry	Subvolcanic intrusions	49		60	90	30	W		
13	Maipo	389272	6252680	Irregular contact zone between coarse-grained andesite porphyry and granodiorite porphyry	Subvolcanic intrusions	50		60	85	20	W		
13	Maipo	389272	6252680	Irregular contact zone between coarse-grained andesite porphyry and granodiorite porphyry	Subvolcanic intrusions	51		132	85	35	W		
13	Maipo	389272	6252680	Irregular contact zone between coarse-grained andesite porphyry and granodiorite porphyry	Subvolcanic intrusions	52		205	85	50	N		
13	Maipo	389272	6252680	Irregular contact zone between coarse-grained andesite porphyry and granodiorite porphyry	Subvolcanic intrusions	53		304	85	40	W		
13	Maipo	389272	6252680	Irregular contact zone between coarse-grained andesite porphyry and granodiorite porphyry	Subvolcanic intrusions	54		345	80	0			
14	Piquencillo alto	378886	6251538	Porphyritic andesite with strong contact metamorphism	TVC	55		252	80	5	E		
14	Piquencillo alto	378886	6251538	Porphyritic andesite with strong contact metamorphism	TVC	56		270	62	15	E		
15	Piquencillo alto	379272	6251855	Brecciated contact between porphyritic andesite and hornblende-rich diorite	CIC	57	8	47	67	45	E	D-R	R-M
15	Piquencillo alto	379272	6251855	Brecciated contact between porphyritic andesite and hornblende-rich diorite	CIC	58	9	72	85	90	N		steps in tourmaline and hematite
16	Piquencillo alto	377580	6251330	Hornblende- and biotite-rich diorite, medium grained	CIC	59	10	105	70	15	W	S	actinolite forming steps and in strain fringes
17	Piquencillo alto	376995	6251298	Hornblende- and biotite-rich quartz diorite	CIC	60		270	85	5	W		
17	Piquencillo alto	376995	6251298	Hornblende- and biotite-rich quartz diorite	CIC	61	11	275	90	0		S	en-echelon extensional veins
18	Piquencillo alto	376378	6250852	Hornblende- and biotite-rich granodiorite, medium grained	CIC	62	12	280	90	5	W	S	epidote and actinolite in strain fringes
19	Piquencillo alto	376360	6250516	Hornblende-rich diorite porphyry cutting fine grained andesite	CIC-TVC	63		90	80	10	E		
20	Piquencillo alto	376213	6250615	Hornblende-rich diorite porphyry	CIC	64		260	78	45	W		
20	Piquencillo alto	376213	6250615	Hornblende-rich diorite porphyry	CIC	65		298	58	0			
21	Piquencillo alto	376668	6251243	Granodiorite with microdiorite enclaves	CIC	66	13	50	90	0		D	offset of early veins
22	Piquencillo alto	377524	6251814	Hornblende-rich monzodiorite	CIC	67	14	65	83	15	W	D	R-M and actinolite in strain fringes
22	Piquencillo alto	377524	6251814	Hornblende-rich monzodiorite	CIC	68		260	85	45	E		
22	Piquencillo alto	377524	6251814	Hornblende-rich monzodiorite	CIC	69	15	288	80	35	E	S	actinolite forming steps and in strain fringes
22	Piquencillo alto	377524	6251814	Hornblende-rich monzodiorite	CIC	70		290	65	10	E		
22	Piquencillo alto	377524	6251814	Hornblende-rich monzodiorite	CIC	71		295	75	35	E		
23	Piquencillo alto	377468	6251930	Hornblende-rich monzodiorite	CIC	72	16	75	90	0		D	dilatational jog with tourmaline infill
24	Piquencillo alto	378031	6251417	Hornblende-rich monzonite	CIC	73		275	80	30	W		

25	Piquencillo alto	377836	6251763	Fine-grained quartz-monzonite	CIC	74	330	67	25	S			
25	Piquencillo alto	377836	6251763	Fine-grained quartz-monzonite	CIC	75	330	67	25	S			
26	Piquencillo alto	377654	6251974	Hornblende- and biotite-rich, coarse-grained monzodiorite, cut by aplite dikes	CIC	76	17	63	90	0	D	tourmaline, actinolite and epidote in strain fringes	
26	Piquencillo alto	377654	6251974	Hornblende- and biotite-rich, coarse-grained monzodiorite, cut by aplite dikes	CIC	77	18	280	90	0	S	tourmaline and actinolite forming steps and in strain fringes	
27	Piquencillo alto	380171	6251339	Original lithology obliterated by intense quartz-clays alteration	TVC	78		80	90	45	W		
28	Piquencillo alto	378216	6251205	Fine-grained quartz-monzonite	CIC	79		255	85	30	E		
28	Piquencillo alto	378216	6251205	Fine-grained quartz-monzonite	CIC	80		255	85	75	E		
29	Piquencillo alto	378429	6250958	Coarse-grained, hornblende-rich andesite porphyry cut by fine-grained quartz-monzonite	CIC	81	19	100	78	35	E	S	steps in actinolite and tourmaline
30	Piquencillo alto	378245	6250411	Coarse-grained andesite porphyry, close to contact with equigranular, medium-grained, hornblende- and biotite-rich granodiorite	CIC	82		280	80	65	E		
30	Piquencillo alto	378245	6250411	Coarse-grained andesite porphyry, close to contact with equigranular, medium-grained, hornblende- and biotite-rich granodiorite	CIC	83		285	67	70	E		
30	Piquencillo alto	378245	6250411	Coarse-grained andesite porphyry, close to contact with equigranular, medium-grained, hornblende- and biotite-rich granodiorite	CIC	84		285	67	15	W		
31	Piquencillo alto	379392	6249803	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	85		100	73	45	W		
31	Piquencillo alto	379392	6249803	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	86		117	82	10	E		
31	Piquencillo alto	379392	6249803	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	87	20	120	82	20	W	S	R-M
31	Piquencillo alto	379392	6249803	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	88		130	55	5	E		
32	Piquencillo alto	379268	6249865	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	89		308	70	35	E		
32	Piquencillo alto	379268	6249865	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	90		308	70	50	W		
32	Piquencillo alto	379268	6249865	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	91		318	80	30	N		
32	Piquencillo alto	379268	6249865	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	92	21	318	80	20	S	S	R-M
33	Piquencillo alto	379814	6249231	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	93		73	85	5	E		
33	Piquencillo alto	379814	6249231	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	94	22	95	85	30	E	S	R-M
33	Piquencillo alto	379814	6249231	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	95	23	100	80	30	E	S	R-M
33	Piquencillo alto	379814	6249231	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	96	24	105	85	60	E	N	chlorite in strain fringes
33	Piquencillo alto	379814	6249231	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	97		115	75	90			
33	Piquencillo alto	379814	6249231	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	98	25	133	85	90		N	R-M
33	Piquencillo alto	379814	6249231	Medium-grained porphyritic andesite, aphanitic groundmass	TVC	99	26	345	70	90		N	R-M
34	Piquencillo alto	380583	6248383	Fine-grained porphyritic andesite	TVC	100		5	90	30	S		
34	Piquencillo alto	380583	6248383	Fine-grained porphyritic andesite	TVC	101		67	90	0			
34	Piquencillo alto	380583	6248383	Fine-grained porphyritic andesite	TVC	102		120	73	5	E		
34	Piquencillo alto	380583	6248383	Fine-grained porphyritic andesite	TVC	103		253	52	20	E		
34	Piquencillo alto	380583	6248383	Fine-grained porphyritic andesite	TVC	104		302	70	15	E		
34	Piquencillo alto	380583	6248383	Fine-grained porphyritic andesite	TVC	105		350	90	20	S		
35	Piquencillo alto	379657	6250861	Contact between porphyritic andesite and medium-grained diorite	CIC-TVC	106		78	45	75	W		
36	Piquencillo alto	379730	6250668	Contact between porphyritic andesite and medium-grained diorite	CIC-TVC	107		210	45	90			
36	Piquencillo alto	379730	6250668	Contact between porphyritic andesite and medium-grained diorite	CIC-TVC	108		255	65	0			
36	Piquencillo alto	379730	6250668	Contact between porphyritic andesite and medium-grained diorite	CIC-TVC	109		255	65	50	E		
37	Piquencillo alto	379953	6250565	Medium-grained porphyritic andesite	TVC	110		112	70	60	E		
37	Piquencillo alto	379953	6250565	Medium-grained porphyritic andesite	TVC	111		122	65	70	E		
37	Piquencillo alto	379953	6250565	Medium-grained porphyritic andesite	TVC	112		125	62	45	E		
37	Piquencillo alto	379953	6250565	Medium-grained porphyritic andesite	TVC	113		125	63	60	E		
38	Piquencillo alto	380564	6250592	Medium-grained porphyritic andesite	TVC	114		15	85	25	S		
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	115	27	10	40	45	S	D-N	steps in calcite and hematite
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	116		50	20	55	E		
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	117		77	42	40	E		
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	118	28	120	73	15	E	S	steps in calcite and hematite
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	119		130	67	25	E		
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	120	29	130	62	20	E	S	steps in calcite and quartz
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	121	30	145	77	30	S	S	steps in epidote, tourmaline, calcite and hematite
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	122	31	155	15	40	N	S	steps in calcite-hematite
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	123	32	158	80	70	S	N	steps in epidote, tourmaline, calcite and hematite
39	Piquencillo alto	380077	6249972	Medium-grained diorite, close to contact with porphyritic andesiteDior de grano medio, cerca de cto S con and porf	CIC	124		245	57	65	E		
40	Piquencillo alto	379641	6250012	Medium-grained porphyritic andesite	TVC	125		115	83	25	E		
40	Piquencillo alto	379641	6250012	Medium-grained porphyritic andesite	TVC	126		260	63	0			
40	Piquencillo alto	379641	6250012	Medium-grained porphyritic andesite	TVC	127	33	285	75	75	W	N	steps in calcite
40	Piquencillo alto	379641	6250012	Medium-grained porphyritic andesite	TVC	128		320	78	0			
40	Piquencillo alto	379641	6250012	Medium-grained porphyritic andesite	TVC	129		335	85	0			
41	Piquencillo-Claro	391547	6242511	Daci-andesite porphyry dike, intruding andesite lavas	Subvolcanic intrusions	130		83	90	45	W		
41	Piquencillo-Claro	391547	6242511	Daci-andesite porphyry dike, intruding andesite lavas	Subvolcanic intrusions	131	34	108	90	45	W	S	steps in hematite
41	Piquencillo-Claro	391547	6242511	Daci-andesite porphyry dike, intruding andesite lavas	Subvolcanic intrusions	132		180	80				
41	Piquencillo-Claro	391547	6242511	Daci-andesite porphyry dike, intruding andesite lavas	Subvolcanic intrusions	133	35	260	84	40	W	S	steps in quartz
41	Piquencillo-Claro	391547	6242511	Daci-andesite porphyry dike, intruding andesite lavas	Subvolcanic intrusions	134	36	280	72	50	W	N	goethite in strain fringes
41	Piquencillo-Claro	391547	6242511	Daci-andesite porphyry dike, intruding andesite lavas	Subvolcanic intrusions	135	37	280	66	50	W	N	steps in quartz
41	Piquencillo-Claro	391547	6242511	Daci-andesite porphyry dike, intruding andesite lavas	Subvolcanic intrusions	136	38	285	76	35	W	S	steps in quartz
42	Piquencillo-Claro	390970	6242719	Epiclastic conglomerate	Abanico Fm.	137	39	304	66	10	E	S	P only
43	Piquencillo-Claro	390887	6242743	Epiclastic sandstones	Abanico Fm.	138		310	80	0			
44	Piquencillo-Claro	390798	6242752	Daci-andesite porphyry dike, intruding epiclastic sequence	Subvolcanic intrusions	139		22	90				
44	Piquencillo-Claro	390798	6242752	Daci-andesite porphyry dike, intruding epiclastic sequence	Subvolcanic intrusions	140		286	85	30	W		
44	Piquencillo-Claro	390798	6242752	Daci-andesite porphyry dike, intruding epiclastic sequence	Subvolcanic intrusions	141		330	38				
45	Piquencillo-Claro	388987	6245827	Hornblende-rich daci-andesite porphyry, intruding andesite lavas	Subvolcanic intrusions	142	40	142	90	40	N	S	epidote and goethite in strain fringes
46	Piquencillo-Claro	388934	6245892	Andesite volcanic breccia	Abanico Fm.	143		100	85				
47	Piquencillo-Claro	388886	6245939	Vesicular, daci-andesite porphyry, intruding andesite volcanic breccias	Subvolcanic intrusions	144		48	36	80	E		
47	Piquencillo-Claro	388886	6245939	Vesicular, daci-andesite porphyry, intruding andesite volcanic breccias	Subvolcanic intrusions	145		66	44	80	E		
48	Piquencillo-Claro	388103	6245384	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias and epiclastic sediments	Subvolcanic intrusions	146	41	90	90	30	W	S	steps in hematite
48	Piquencillo-Claro	388103	6245384	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias and epiclastic sediments	Subvolcanic intrusions	147		90	85	0			
48	Piquencillo-Claro	388103	6245384	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias and epiclastic sediments	Subvolcanic intrusions	148		100	80				
48	Piquencillo-Claro	388103	6245384	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias and epiclastic sediments	Subvolcanic intrusions	149		115	72	20	W		
48	Piquencillo-Claro	388103	6245384	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias and epiclastic sediments	Subvolcanic intrusions	150		116	85	10	W		
48	Piquencillo-Claro	388103	6245384	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias and epiclastic sediments	Subvolcanic intrusions	151		158	74	30	S		

48	Piquencillo-Claro	388103	6245384	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias and epiclastic sediments	Subvolcanic intrusions	152	42	245	70	15	W	D	steps in hematite
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	153	43	50	82	20	W	S	offset of intrusive contact
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	154		66	54	75	E		
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	155		90	70	40	E		
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	156		180	38	50	S		
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	157		280	85	20	E		
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	158		285	85	35	E		
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	159		285	78	20	E		
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	160	44	335	75	90		R	hematite in strain fringes
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	161		335	78	45	S		
49	Piquencillo-Claro	388079	6245288	Daci-andesite porphyry dike	Subvolcanic intrusions	162		350	66	80	N		
49	Piquencillo-Claro	389070	6246361	Andesite lavas, cut by daci-andesite porphyry dike	Abanico Fm.	163		225	32	80	S		
51	Piquencillo-Claro	388841	6246359	Andesite porphyry dike, cuts sedimentary epiclastic sequence	Subvolcanic intrusions	164		47	84	35	E		
51	Piquencillo-Claro	388841	6246359	Andesite porphyry dike, cuts sedimentary epiclastic sequence	Subvolcanic intrusions	165	45	55	90	30	E	D	steps in goethite and clays
51	Piquencillo-Claro	388841	6246359	Andesite porphyry dike, cuts sedimentary epiclastic sequence	Subvolcanic intrusions	166		112	75	40	E		
51	Piquencillo-Claro	388841	6246359	Andesite porphyry dike, cuts sedimentary epiclastic sequence	Subvolcanic intrusions	167		115	85	30	E		
51	Piquencillo-Claro	388841	6246359	Andesite porphyry dike, cuts sedimentary epiclastic sequence	Subvolcanic intrusions	168		318	54	55	S		
52	Piquencillo-Claro	388711	6246340	Andesite volcanic breccia	Abanico Fm.	169		70	55	10	W		
52	Piquencillo-Claro	388711	6246340	Andesite volcanic breccia	Abanico Fm.	170		90	70	80	E		
52	Piquencillo-Claro	388711	6246340	Andesite volcanic breccia	Abanico Fm.	171		90	85	75	E		
52	Piquencillo-Claro	388711	6246340	Andesite volcanic breccia	Abanico Fm.	172		95	74	65	E		
52	Piquencillo-Claro	388711	6246340	Andesite volcanic breccia	Abanico Fm.	173		100	60	50	E		
52	Piquencillo-Claro	388711	6246340	Andesite volcanic breccia	Abanico Fm.	174		102	75				
52	Piquencillo-Claro	388711	6246340	Andesite volcanic breccia	Abanico Fm.	175		115	90	65	E		
53	Piquencillo-Claro	388128	6246280	Hornblende-rich, daci-andesite stock, intrudes epiclastic sequence	Subvolcanic intrusions	176		137	80	0			
53	Piquencillo-Claro	388128	6246280	Hornblende-rich, daci-andesite stock, intrudes epiclastic sequence	Subvolcanic intrusions	177		140	70	0			
53	Piquencillo-Claro	388128	6246280	Hornblende-rich, daci-andesite stock, intrudes epiclastic sequence	Subvolcanic intrusions	178		142	90	20	N		
53	Piquencillo-Claro	388128	6246280	Hornblende-rich, daci-andesite stock, intrudes epiclastic sequence	Subvolcanic intrusions	179		150	82	40	S		
53	Piquencillo-Claro	388128	6246280	Hornblende-rich, daci-andesite stock, intrudes epiclastic sequence	Subvolcanic intrusions	180		160	80	10	S		
53	Piquencillo-Claro	388128	6246280	Hornblende-rich, daci-andesite stock, intrudes epiclastic sequence	Subvolcanic intrusions	181		162	90	10	S		
53	Piquencillo-Claro	388128	6246280	Hornblende-rich, daci-andesite stock, intrudes epiclastic sequence	Subvolcanic intrusions	182		348	80	20	S		
54	Piquencillo-Claro	388237	6246309	Epiclastic conglomerate	Abanico Fm.	183		90	85	70	E		
55	Piquencillo-Claro	389697	6243635	Porphyritic andesite lavas, auto-brecciated	Abanico Fm.	184		68	90	30	W		
55	Piquencillo-Claro	389697	6243635	Porphyritic andesite lavas, auto-brecciated	Abanico Fm.	185		90	90	30	W		
55	Piquencillo-Claro	389697	6243635	Porphyritic andesite lavas, auto-brecciated	Abanico Fm.	186		255	74	30	W		
55	Piquencillo-Claro	389697	6243635	Porphyritic andesite lavas, auto-brecciated	Abanico Fm.	187	46	302	66	60	W	N	P only
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	188		50	48	10	W		
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	189		57	90				
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	190		60	30	10	W		
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	191		60	75	40	W		
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	192		60	90	25	W		
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	193	47	74	90	30	W	S	steps in epidote
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	194	48	80	80	30	W	D	steps in hematite
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	195	49	90	65	30	W	D	steps in hematite
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	196	50	90	50	50	W	N	steps in hematite
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	197		90	78	30	W		
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	198		90	90	10	E		
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	199		90	90	30	E		
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	200		100	58	30	W		
56	Piquencillo-Claro	389478	6243942	Hornblende-rich, daci-andesite porphyry, intruding volcanic breccias	Subvolcanic intrusions	201	51	116	50	50	W	N	steps in hematite
57	San Pedro de Nolasco	384058	6253524	Fine-grained, porphyritic andesite	TVC	202		72	90				
57	San Pedro de Nolasco	384058	6253524	Fine-grained, porphyritic andesite	TVC	203	52	95	70	25	E	S	steps in quartz and hematite
57	San Pedro de Nolasco	384058	6253524	Fine-grained, porphyritic andesite	TVC	204		106	85	0			
57	San Pedro de Nolasco	384058	6253524	Fine-grained, porphyritic andesite	TVC	205		106	85	35	E		
57	San Pedro de Nolasco	384058	6253524	Fine-grained, porphyritic andesite	TVC	206		116	85	20	E		
57	San Pedro de Nolasco	384058	6253524	Fine-grained, porphyritic andesite	TVC	207		280	85	15	E		
57	San Pedro de Nolasco	384058	6253524	Fine-grained, porphyritic andesite	TVC	208		293	74	20	E		
58	San Pedro de Nolasco	384002	6253514	Fine-grained, porphyritic andesite	TVC	209		76	78	0			
58	San Pedro de Nolasco	384002	6253514	Fine-grained, porphyritic andesite	TVC	210		80	90	5	E		
58	San Pedro de Nolasco	384002	6253514	Fine-grained, porphyritic andesite	TVC	211		82	80	15	W		
58	San Pedro de Nolasco	384002	6253514	Fine-grained, porphyritic andesite	TVC	212		270	48	40	E		
59	San Pedro de Nolasco	383970	6253508	Fine-grained, porphyritic andesite	TVC	213		107	72	15	E		
59	San Pedro de Nolasco	383970	6253508	Fine-grained, porphyritic andesite	TVC	214		107	72	0			
59	San Pedro de Nolasco	383970	6253508	Fine-grained, porphyritic andesite	TVC	215		283	82	15	E		
60	San Pedro de Nolasco	381806	6252014	Epiclastic breccia	TVC	216	53	62	85	30	E	D	steps in quartz and hematite
60	San Pedro de Nolasco	381806	6252014	Epiclastic breccia	TVC	217		108	78	55	E		
61	San Pedro de Nolasco	383731	6253476	Fine-grained, porphyritic andesite	TVC	218		252	77	40	E		
62	San Pedro de Nolasco	383788	6253510	Fine-grained, porphyritic andesite	TVC	219		245	70				
63	San Pedro de Nolasco	383822	6253514	Fine-grained, porphyritic andesite	TVC	220		265	80	0			
64	San Pedro de Nolasco	383859	6253093	Coarse-grained, porphyritic andesite	Subvolcanic intrusions	221	54	238	75	20	W	D	R-M
65	San Pedro de Nolasco	383829	6253063	Coarse-grained, porphyritic andesite	Subvolcanic intrusions	222		250	75	25	W		
65	San Pedro de Nolasco	383829	6253063	Coarse-grained, porphyritic andesite	Subvolcanic intrusions	223		260	68				
66	San Pedro de Nolasco	382001	6252329	Andesite volcanic breccia	TVC	224		76	78				
67	San Pedro de Nolasco	383691	6253726	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	225		260	78				
68	San Pedro de Nolasco	385288	6253517	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	226		236	60				
69	San Pedro de Nolasco	384694	6253550	Quartz-cemented hydrothermal breccia	Subvolcanic intrusions	227		278	82				
70	San Pedro de Nolasco	384617	6253522	Quartz-hematite cemented hydrothermal breccia	Subvolcanic intrusions	228		252	85				
71	San Pedro de Nolasco	384390	6253462	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	229		240	74				

72	San Pedro de Nolasco	384062	6253408	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	230	230	80			
73	San Pedro de Nolasco	384040	6253383	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	231	234	52			
74	San Pedro de Nolasco	382008	6252329	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	232	108	78			
75	San Pedro de Nolasco	384107	6253838	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	233	100	88			
76	San Pedro de Nolasco	384080	6253830	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	234	280	65			
77	San Pedro de Nolasco	381917	6253794	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	235	100	40			
78	San Pedro de Nolasco	383953	6253812	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	236	252	70			
79	San Pedro de Nolasco	383855	6253793	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	237	45	90			
80	San Pedro de Nolasco	384600	6253525	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	238	254	80			
81	San Pedro de Nolasco	384195	6253822	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	239	260	88			
82	San Pedro de Nolasco	384170	6253833	Fine-grained, porphyritic andesites with volcanic breccia intercalations	TVC	240	107	72			