SUPPLEMENTAL FILE 2. INDUCTION-COUPLED-PLASMA MASS-SPECTROMETRY (ICP-MS) ANALYSES: PLATORO-DULCE DIKES, LAVAS, AND ASSOCIATED ROCKS

Sample ID	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm	Ba ppm	Th ppm	Nb ppm	Y ppm	Hf ppm	Ta ppm	U ppm	Pb ppm	Rb ppm	Cs ppm	Sr ppm	Sc ppm	Zr ppm
Platoro proximal granitoid intrusions																											
SRM-23	36.3	68.9	8.0	29.9	5.6	1.4	4.4	0.7	3.8	0.7	2.1	0.3	2.0	0.3	993	8.9	11.8	20.2	5.4	0.9	2.5	13.9	82.3	1.1	575	6.7	211
SRM-22	32.6	66.3	8.1	31.1	6.2	1.5	5.1	0.8	4.5	0.9	2.5	0.4	2.4	0.4	769	8.4	10.1	23.9	4.9	0.7	2.4	17.0	104.6	1.4	567	14.7	189
SRM-24	39.4	79.8	9.7	37.0	7.1	1.7	5.9	0.9	5.0	1.0	2.6	0.4	2.4	0.4	771	12.1	12.8	25.2	6.3	0.9	3.5	13.5	96.7	0.8	603	15.3	238
SRM-25	44.6	90.4	10.8	40.0	7.5	1.6	6.0	0.9	5.1	1.0	2.7	0.4	2.6	0.4	752	17.1	15.5	26.8	7.7	1.1	3.9	17.4	126.5	1.6	572	13.9	291
SRM-26	34.9	70.4	8.6	33.8	6.6	1.8	5.4	0.8	4.3	0.8	2.1	0.3	1.9	0.3	949	6.6	9.4	21.4	4.9	0.6	1.2	13.1	77.0	1.3	756	13.1	183
SRM-33	42.3	79.4	9.2	34.4	6.4	1.7	5.1	0.7	4.1	0.8	2.1	0.3	1.9	0.3	1074	12.3	12.2	20.8	4.5	0.8	3.5	18.7	76.1	1.2	677	10.1	172
AVG:	***38.4***	***75.8***	***9.1***	***34.4***	***6.6***	***1.6***	***5.3***	***0.8***	***4.4***	***0.9***	***2.3***	***0.3***	***2.2***	***0.3***	***885***	***10.9***	***12.0***	***23.1***	***5.6***	***0.8***	***2.8***	***15.6***	***93.9***	***1.2***	***625***	***12.3***	***214***
Platoro proximal dikes and lavas																											
16L-36	34.4	70.6	8.7	34.4	7.0	1.7	5.9	0.9	5.1	1.0	2.6	0.4	2.4	0.4	739	7.0	10.3	25.7	5.1	0.6	1.9	13.0	74.5	3.9	1079	16.8	195
16L-38	30.9	63.8	8.2	33.4	7.0	2.0	6.1	0.9	5.2	1.0	2.7	0.4	2.3	0.4	612	3.9	8.3	26.5	3.9	0.5	1.1	10.6	32.0	2.8	817	19.6	156
16L-42	33.4	66.5	8.2	32.2	6.5	1.7	5.4	0.8	4.6	0.9	2.4	0.3	2.1	0.3	793	6.5	9.4	23.2	4.3	0.6	1.9	11.0	68.7	5.1	999	17.6	164
16L-28	33.9	69.8	8.6	33.4	6.9	1.6	5.7	0.9	5.2	1.0	2.8	0.4	2.6	0.4	645	9.1	10.5	26.7	5.4	0.7	2.7	11.5	65.0	0.7	434	18.3	204
16L-30	27.8	56.2	7.1	28.0	6.0	1.7	5.5	0.9	5.5	1.1	3.2	0.5	3.0	0.5	902	3.2	7.6	28.7	4.1	0.4	0.9	8.6	28.8	0.6	464	16.8	155
16L-31	25.8	54.8	7.1	29.5	6.6	1.8	6.3	1.0	6.1	1.3	3.4	0.5	3.2	0.5	651	3.2	7.5	33.1	4.1	0.4	0.9	8.1	32.7	0.2	603	17.2	152
16L-33	24.6	50.3	6.6	28.2	6.4	1.8	6.1	0.9	5.7	1.2	3.0	0.4	2.7	0.4	611	2.4	5.8	31.0	3.3	0.3	0.6	6.0	20.3	0.4	671	26.0	122
16L-34	26.7	56.6	7.2	29.7	6.6	1.7	6.0	1.0	5.9	1.2	3.4	0.5	3.2	0.5	689	3.5	7.6	31.7	4.2	0.4	1.0	8.6	46.2	0.3	591	15.3	156
16L-32	29.3	59.4	7.2	28.2	5.7	1.5	5.0	0.8	4.7	1.0	2.7	0.4	2.5	0.4	854	4.2	8.4	25.4	4.2	0.5	1.1	10.7	63.7	0.4	465	11.2	160
16L-35	27.8	56.8	7.3	29.5	6.3	1.7	5.6	0.9	5.3	1.1	3.0	0.4	2.7	0.5	762	3.9	7.2	28.4	3.9	0.4	0.9	9.7	53.0	0.3	569	12.3	152
Lavas																											
16L-40	38.3	78.6	9.7	37.3	7.4	1.8	6.1	0.9	5.1	1.0	2.7	0.4	2.4	0.4	763	9.5	13.1	25.9	5.8	0.9	2.8	14.4	86.8	1.4	722	16.5	226
16L-41	33.4	68.6	8.6	33.9	7.0	1.8	5.8	0.9	4.8	0.9	2.5	0.4	2.3	0.4	723	7.1	10.1	24.9	4.8	0.7	2.1	10.7	65.3	1.1	793	18.9	177
AVG:	***30.5***	***62.7***	***7.9***	***31.5***	***6.6***	***1.7***	***5.8***	***0.9***	***5.3***	***1.1***	***2.9***	***0.4***	***2.6***	***0.4***	***729***	***5.3***	***8.8***	***27.6***	***4.4***	***0.5***	***1.5***	***10.2***	***53.1***	***1.4***	***684***	***17.2***	***168***
Platoro: distal dikes																											
Dacite																											
15L-61	41.6	74.6	8.3	29.5	5.2	1.3	3.8	0.5	2.8	0.5	1.3	0.2	1.2	0.2	1025	13.6	10.7	13.6	4.8	0.8	3.9	16.3	98.0	1.3	500	7.0	180
17L-13	40.9	72.8	8.1	29.1	5.1	1.3	3.8	0.5	2.8	0.5	1.4	0.2	1.3	0.2	900	14.8	10.9	13.7	4.6	0.8	3.9	16.9	96.0	2.4	526	6.5	166
AVG:	***41.2***	***73.7***	***8.2***	***29.3***	***5.2***	***1.3***	***3.8***	***0.5***	***2.8***	***0.5***	***1.4***	***0.2***	***1.2***	***0.2***	***962***	***14.2***	***10.8***	***14***	***4.7***	***0.8***	***3.9***	***16.6***	***97.0***	***1.9***	***512.8***	***6.8***	***173***
Andesite																											
16L-1	35.7	74.0	9.3	36.8	7.6	1.9	6.5	1.0	5.6	1.1	2.9	0.4	2.7	0.4	723	8.6	11.3	28.4	5.8	0.7	2.5	12.2	45.8	0.3	573	17.4	222
16L-22	34.2	71.2	8.9	35.3	7.2	1.8	6.2	0.9	5.3	1.0	2.6	0.4	2.3	0.4	666	9.0	11.8	26.7	5.8	0.7	2.7	12.4	71.2	1.0	692	17.7	222
17L-6	32.5	67.1	8.5	33.4	7.0	1.7	5.8	0.9	4.9	0.9	2.4	0.3	2.2	0.3	864	8.4	11.1	23.8	5.4	0.7	2.6	10.4	71.0	1.1	695	16.7	210
2016KA-1	37.2	76.5	9.4	36.2	7.4	1.7	6.2	0.9	5.5	1.1	3.0	0.4	2.7	0.4	749	10.5	12.0	28.6	6.0	0.7	3.1	13.4	88.4	1.0	605	17.9	229
2016KA-2	32.0	64.3	8.0	32.1	6.4	1.8	5.3	0.8	4.8	1.0	2.6	0.4	2.4	0.4	846	4.9	9.2	24.7	4.7	0.5	1.4	11.4	56.4	0.5	705	12.2	180
AVG:	***34.3***	***70.6***	***8.8***	***34.8***	***7.1***	***1.8***	***6.0***	***0.9***	***5.2***	***1.0***	***2.7***	***0.4***	***2.5***	***0.4***	***770***	***8.3***	***11.1***	***26***	***5.6***	***0.7***	***2.4***	***11.9***	***66.5***	***0.8***	***653.9***	***16.4***	***213***
Segment D1:Dulce NE-trending (E of Pagosa Springs, CO): NW to SE																											
15L-36	27.6	57.2	7.5	31.1	6.9	2.1	6.1	0.9	5.0	1.0	2.5	0.3	2.1	0.3	539	3.7	7.4	23.7	3.1	0.4	1.0	4.9	3.3	0.4	479	30.6	117
16L-21	25.3	52.9	7.0	29.1	6.4	1.8	5.5	0.8	4.7	0.9	2.3	0.3	2.0	0.3	698	3.5	6.9	21.8	2.9	0.4	1.0	7.5	16.2	0.2	833	30.2	110
16L-70	29.5	60.7	7.9	33.2	7.1	2.1	6.3	0.9	5.1	1.0	2.5	0.4	2.2	0.3	806	4.3	8.0	24.9	3.3	0.4	1.2	8.3	16.6	0.2	854	28.3	128
15L-37	35.1	68.4	8.4	34.2	7.3	2.1	6.4	0.9	5.2	1.0	2.5	0.3	2.1	0.3	1059	4.1	8.1	24.9	3.2	0.4	1.2	7.7	21.3	0.8	880	28.9	124
16L-24	27.2	56.2	7.4	30.5	6.8	1.9	5.9	0.9	4.8	0.9	2.4	0.3	2.0	0.3	352	3.7	7.2	23.7	3.0	0.4	1.0	6.2	2.0	0.2	756	28.9	113
16L-23	28.2	58.1	7.7	32.0	7.1	1.9	6.2	0.9	5.2	1.0	2.6	0.4	2.2	0.3	546	3.9	7.4	24.2	3.1	0.4	1.1	9.0	7.9	0.2	832	30.2	117
17L-1	27.6	57.3	7.6	31.8	7.0	2.0	6.1	0.9	5.0	1.0	2.5	0.3	2.1	0.3	775	3.8	7.2	24.1	3.0	0.4	1.0	7.1	18.2	0.2	805	27.9	113
16L-52	*64.7*	*140.7*	*18.5*	*76.0*	*13.2*	*3.8*	*8.6*	*1.0*	*4.6*	*0.7*	*1.6*	*0.2*	*1.1*	*0.2*	*11215*	*2.9*	*15.2*	*18.6*	*4.1*	*0.8*	*0.8*	*8.6*	*6.5*	*0.1*	*1018*	*13.3*	*159*
15L-38	42.8	91.1	11.6	46.2	8.9	2.7	7.0	1.0	5.2	0.9	2.3	0.3	1.8	0.3	1583	3.8	19.6	23.7	4.4	1.3	0.9	6.6	40.6	0.5	618	21.3	174
15L-60	31.5	65.1	8.2	32.7	6.6	2.1	5.5	0.8	4.4	0.8	2.0	0.3	1.6	0.2	914	3.6	20.7	20.0	4.5	1.4	0.9	5.5	33.4	0.3	1013	22.9	173
AVG:	***30.5***	***63.0***	***8.1***	***33.4***	***7.1***	***2.1***	***6.1***	***0.9***	***5.0***	***0.9***	***2.4***	***0.3***	***2.0***	***0.3***	***808***	***3.8***	***10.3***	***23.4***	***3.4***	***0.6***	***1.0***	***7.0***	***17.7***	***0.3***	***786***	***27.7***	***130***
Segment D2A: Dulce N-trending (WSW of Pagosa Springs, CO): W to E																											
16L-60	38.9	83.9	10.8	43.9	8.6	2.4	6.7	0.9	4.5	0.8	1.8	0.2	1.3	0.2	820	1.8	15.4	19.6	4.0	0.8	0.5	7.0	14.4	0.6	822	16.8	163
16L-61	40.5	86.6	10.9	43.3	8.3	2.3	6.3	0.8	4.5	0.8	1.9	0.2	1.4	0.2	893	1.9	17.6	19.6	4.3	0.9	0.5	6.4	7.2	0.5	803	15.3	181
16L-62	46.1	92.7	11.5	46.0	8.5	2.4	6.6	0.9	4.7	0.9	2.0	0.3	1.5	0.2	875	2.0	18.2	21.0	4.4	0.9	0.6	9.3	16.4	0.3	1182	15.7	186
17L-5	40.7	86.5	11.0	44.0	8.4	2.7	6.3	0.8	4.5	0.8	1.9	0.2	1.4	0.2	587	1.9	17.1	19.6	4.2	0.9	0.5	5.8	7.6	0.4	830	14.9	176
16L-64	18.8	40.2	5.3	22.7	5.3	1.7	4.9	0.7	4.1	0.7	1.8	0.2	1.4	0.2	478	2.0	7.5	18.3	2.9	0.5	0.5	4.0	8.6	0.1	766	17.9	105
16L-65	18.0	38.1	5.0	21.8	5.1	1.7	4.7	0.7	3.9	0.7	1.8	0.2	1.4	0.2	517	2.0	7.0	17.7	2.8	0.5	0.5	4.3	4.6	0.3	691	16.9	100
17L-8	18.8	40.0	5.3	22.9	5.3	1.7	4.9	0.7	4.2	0.8	1.8	0.2	1.5	0.2	358	2.1	7.4	18.7	3.0	0.5	0.5	4.1	2.6	0.6	689	17.5	106

Sample ID	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm	Ba ppm	Th ppm	Nb ppm	Y ppm	Hf ppm	Ta ppm	U ppm	Pb ppm	Rb ppm	Cs ppm	Sr ppm	Sc ppm	Zr ppm
16L-66	37.8	77.7	9.7	38.4	7.3	2.2	5.4	0.7	3.7	0.7	1.6	0.2	1.2	0.2	380	4.4	12.8	16.7	4.8	0.8	1.0	9.3	22.2	0.2	335	13.0	193
16L-67	34.6	71.6	9.1	36.9	7.4	2.2	5.9	0.8	4.4	0.8	2.0	0.3	1.5	0.2	646	2.2	17.0	19.7	3.8	0.9	0.7	7.1	13.0	2.0	1213	13.2	158
AVG:	***32.7***	***68.6***	***8.7***	***35.5***	***7.1***	***2.1***	***5.7***	***0.8***	***4.3***	***0.8***	***1.9***	***0.2***	***1.4***	***0.2***	***617***	***2.2***	***13.3***	***19.0***	***3.8***	***0.7***	***0.6***	***6.4***	***10.7***	***0.6***	***814***	***15.7***	***152***
Segment D2B: Dulce NE-trending (farther SW, CO): NW to SE																											
16L-68	67.7	145.8	19.6	79.7	16.2	3.9	12.0	1.4	6.7	1.1	2.6	0.3	2.0	0.3	1034	12.6	11.4	28.9	5.8	0.8	3.1	4.5	62.4	6.7	734	26.7	233
17L-2	66.4	144.5	18.9	77.1	13.6	3.6	8.7	1.0	4.7	0.8	1.7	0.2	1.1	0.2	5143	3.4	15.5	19.0	4.3	0.8	1.0	11.0	2.5	0.1	1571	13.1	169
15L-39	47.8	101.6	12.9	52.2	10.0	2.9	7.6	1.0	5.0	0.9	2.0	0.3	1.5	0.2	1232	3.8	31.0	21.7	5.5	1.9	1.1	6.8	43.7	0.4	1184	19.1	223
17L-7	35.7	73.6	9.2	36.4	7.2	2.0	5.3	0.7	4.1	0.7	1.8	0.2	1.4	0.2	608	4.1	13.5	17.7	4.0	0.9	1.1	5.8	5.8	0.2	749	18.7	160
17L-3A	53.9	118.6	15.8	64.5	11.9	3.4	8.4	1.0	5.0	0.8	1.9	0.2	1.4	0.2	906	3.0	17.9	20.9	5.1	1.0	0.9	8.5	9.9	0.2	438	18.1	196
17L-11	47.0	103.9	13.7	55.6	11.0	2.8	8.3	1.1	5.7	1.0	2.4	0.3	1.9	0.3	1185	3.8	14.0	25.5	4.3	0.9	1.3	7.2	35.3	0.2	907	23.0	171
16L-27	54.3	116.0	14.9	60.8	11.0	2.9	7.5	0.9	4.5	0.8	1.8	0.2	1.3	0.2	4423	2.5	17.7	19.5	5.0	0.9	0.8	8.3	25.9	0.1	1419	16.1	197
17L-9A	51.7	110.2	14.3	57.1	10.4	2.8	7.0	0.9	4.4	0.7	1.7	0.2	1.3	0.2	1338	2.4	16.6	18.8	4.7	0.9	0.7	6.2	23.7	0.1	1191	16.1	187
17L-9B	59.9	125.8	16.1	64.8	11.8	3.2	8.2	1.0	4.9	0.8	1.8	0.2	1.4	0.2	2969	2.7	19.0	20.1	5.4	1.0	0.8	6.9	13.5	0.1	1424	16.4	212
16L-26	34.7	71.3	8.9	35.6	6.9	2.0	5.5	0.7	3.8	0.7	1.7	0.2	1.3	0.2	677	4.0	13.3	16.7	3.9	0.9	1.1	5.9	17.0	0.2	793	18.9	156
17L-10	43.9	96.6	12.7	52.0	9.9	2.8	7.5	1.0	5.0	0.9	2.1	0.3	1.6	0.2	1890	3.2	28.1	22.6	5.4	1.8	1.0	5.8	52.0	0.5	1350	19.8	209
16L-25	49.2	107.7	14.3	58.3	11.0	3.1	7.9	1.0	5.1	0.9	2.0	0.3	1.5	0.2	1345	3.2	21.1	21.6	5.1	1.3	1.0	7.9	29.0	0.5	1331	19.9	199
16L-2	54.6	121.8	16.1	66.1	11.7	3.2	7.9	1.0	4.6	0.8	1.9	0.2	1.4	0.2	1743	2.4	14.3	19.7	4.6	0.7	0.5	7.0	23.5	0.1	1439	16.9	177
17L-4	56.5	124.9	16.5	67.1	12.0	3.2	8.0	1.0	4.8	0.8	1.8	0.2	1.3	0.2	1491	2.6	14.6	19.6	4.9	0.7	0.6	6.8	28.4	0.1	1220	16.8	187
16L-4	60.2	133.1	17.4	70.8	12.4	3.3	8.3	1.0	5.0	0.8	1.9	0.2	1.4	0.2	498	2.5	14.8	20.4	4.8	0.7	0.6	7.1	2.7	0.1	389	17.0	187
16L-3	66.5	142.3	18.1	72.2	12.6	3.4	8.2	1.0	4.8	0.8	1.8	0.2	1.3	0.2	1816	3.1	16.1	20.0	5.1	0.8	0.8	9.1	18.8	0.1	1324	13.6	207
AVG:	***53.1***	***114.9***	***15.0***	***60.6***	***11.2***	***3.0***	***7.9***	***1.0***	***4.9***	***0.8***	***1.9***	***0.3***	***1.4***	***0.2***	***1769***	***3.7***	***17.4***	***20.8***	***4.9***	***1.0***	***1.0***	***7.2***	***24.6***	***0.6***	***1091***	***18.1***	***192***
Segment D3: Dulce N-trending: S CO (W to E)																											
15L-47	44.3	92.1	11.5	45.3	8.7	2.5	6.8	0.9	4.8	0.8	2.0	0.3	1.5	0.2	1277	2.0	18.4	20.8	4.4	0.9	0.5	6.7	17.0	0.2	1727	16.0	186
15L-48	44.1	91.0	11.3	44.9	8.5	2.5	6.6	0.9	4.9	0.9	2.1	0.3	1.6	0.2	504	2.3	19.5	21.2	4.4	1.0	0.6	9.0	2.9	0.1	843	13.2	185
16L-63	54.1	116.6	15.0	60.0	10.8	2.9	7.6	1.0	4.7	0.8	1.9	0.2	1.4	0.2	4310	2.6	19.1	20.4	5.2	1.0	0.8	3.6	2.1	0.1	609	14.5	215
15L-46	62.0	138.1	18.4	76.2	13.9	3.7	9.5	1.2	5.5	0.9	2.1	0.3	1.5	0.2	181	2.0	18.1	22.6	5.5	0.9	0.6	9.3	0.4	0.0	276	16.3	215
15L-45	35.9	80.2	10.5	41.6	8.4	2.4	6.6	0.9	4.7	0.8	2.0	0.3	1.6	0.2	950	5.1	36.5	21.2	5.1	2.9	1.4	4.6	22.8	2.0	882	25.2	185
15L-44	66.2	141.4	17.9	71.5	12.8	3.4	8.8	1.1	5.1	0.9	2.0	0.3	1.5	0.2	2058	3.1	17.9	21.8	5.0	0.9	0.9	11.4	23.6	0.1	1821	17.9	204
15L-43	42.9	96.2	12.7	51.6	9.8	2.8	7.3	1.0	5.1	0.9	2.2	0.3	1.6	0.2	1179	3.4	30.7	23.2	6.0	2.0	1.0	6.6	38.8	0.7	892	19.2	232
15L-42	58.4	126.0	16.5	67.0	12.4	3.4	8.6	1.0	5.0	0.8	1.9	0.2	1.3	0.2	2073	2.8	20.1	20.9	5.0	1.0	0.8	8.7	28.9	0.3	1486	17.0	197
15L-41	41.9	96.6	13.5	58.1	11.3	3.1	8.0	1.0	4.8	0.8	1.8	0.2	1.3	0.2	2047	2.8	17.4	19.5	4.8	1.1	0.8	5.8	41.7	0.6	1386	22.5	166
17L-12	44.1	100.2	13.7	57.6	11.1	3.1	7.9	1.0	4.8	0.8	1.9	0.2	1.4	0.2	1675	3.1	18.5	19.8	4.8	1.2	0.9	6.3	38.1	0.4	1559	19.4	170
15L-40A	32.2	75.0	10.6	45.1	9.6	2.9	7.3	1.0	4.8	0.8	2.0	0.3	1.6	0.2	667	3.9	9.8	21.1	6.0	0.6	1.7	4.7	224.6	1.5	710	18.1	225
15L-40B	36.9	86.7	12.1	50.8	10.7	3.0	8.2	1.1	5.4	0.9	2.1	0.3	1.7	0.3	648	4.0	9.7	23.5	6.0	0.6	1.7	4.7	221.4	1.5	699	19.2	221
15L-39x	65.8	144.4	18.7	74.9	13.3	3.6	8.9	1.1	5.2	0.9	2.0	0.2	1.5	0.2	1566	3.4	29.4	21.3	6.4	2.0	1.0	9.8	34.5	0.1	1652	16.1	253
AVG:	***48.4***	***106.5***	***14.0***	***57.3***	***10.9***	***3.0***	***7.9***	***1.0***	***5.0***	***0.9***	***2.0***	***0.3***	***1.5***	***0.2***	***1472***	***3.1***	***20.4***	***21.3***	***5.3***	***1.3***	***1.0***	***7.0***	***53.6***	***0.6***	***1119***	***18.0***	***204***
Segment D4: Dulce N-trending: N NM (W to E)																											
15L-55	40.8	85.9	10.7	43.4	8.2	2.3	6.3	0.9	4.4	0.8	1.9	0.2	1.4	0.2	651	1.9	17.3	19.5	4.3	0.9	0.5	7.9	5.9	0.1	834	15.2	179
15L-54	35.8	77.9	10.1	41.4	8.4	2.5	6.7	1.0	5.1	0.9	2.2	0.3	1.7	0.2	252	3.5	15.0	21.8	4.4	1.0	1.1	5.8	3.4	0.1	255	18.2	169
15L-56	87.6	197.7	27.9	119.0	28.2	7.4	22.5	2.7	11.3	1.7	3.5	0.4	2.4	0.3	298	8.7	7.1	43.6	6.4	0.3	3.5	3.4	65.7	1.0	630	28.0	272
15L-53	52.6	116.7	15.6	63.9	11.8	3.3	8.5	1.1	5.3	0.9	2.1	0.3	1.5	0.2	1865	2.9	23.4	22.5	5.0	1.3	0.8	9.1	24.5	0.1	1348	18.8	192
16L-19	50.4	111.5	15.1	63.3	12.1	3.4	8.6	1.1	5.1	0.9	2.0	0.3	1.5	0.2	1222	2.7	17.1	21.3	4.8	0.9	0.9	9.2	28.0	0.4	1486	22.4	183
16L-20	48.6	100.7	12.6	49.9	9.4	2.6	6.9	0.9	4.6	0.8	2.0	0.3	1.6	0.2	1301	5.0	13.1	20.5	4.7	0.9	1.4	7.1	58.8	0.4	992	19.8	183
16L-18	56.1	122.5	16.1	66.6	12.2	3.4	8.6	1.1	5.1	0.8	1.9	0.2	1.4	0.2	1710	3.0	28.2	20.8	5.7	1.8	0.9	11.6	42.5	0.5	1271	16.8	220
16L-8	39.8	88.7	11.8	48.5	9.5	2.7	7.3	1.0	5.0	0.9	2.2	0.3	1.7	0.3	1095	3.1	12.1	22.4	5.4	0.7	1.3	5.2	97.6	0.4	1000	20.4	203
15L-52	40.3	89.4	11.9	49.0	9.4	2.6	7.1	1.0	4.9	0.9	2.2	0.3	1.7	0.3	1084	3.1	12.7	21.9	5.5	0.7	1.3	5.4	109.4	0.3	963	20.0	208
16L-7	45.8	97.2	12.5	50.7	9.5	2.7	7.0	0.9	4.6	0.8	1.9	0.3	1.4	0.2	950	2.8	19.2	20.3	4.6	1.1	0.9	6.7	25.4	0.2	1136	18.7	188
16L-12	34.8	78.2	10.8	44.7	9.1	2.6	7.2	0.9	4.7	0.8	1.9	0.3	1.5	0.2	498	4.1	10.4	20.3	5.9	0.7	1.8	3.9	70.5	0.3	781	15.8	220
15L-50	48.4	105.0	13.6	54.7	10.6	3.0	8.0	1.0	5.2	0.9	2.1	0.3	1.6	0.2	4858	3.6	28.5	22.7	5.6	1.7	1.1	6.2	38.0	0.7	1319	20.6	224
15L-49	50.4	106.4	13.7	55.5	10.8	3.0	8.0	1.0	5.2	0.9	2.1	0.3	1.6	0.2	6434	3.8	28.8	22.5	5.7	1.8	1.1	7.4	40.9	0.5	1376	19.0	229
AVG:	***48.6***	***106.0***	***14.0***	***57.7***	***11.5***	***3.2***	***8.7***	***1.1***	***5.4***	***0.9***	***2.1***	***0.3***	***1.6***	***0.2***	***1709***	***3.7***	***17.9***	***23.1***	***5.3***	***1.1***	***1.3***	***6.9***	***47.0***	***0.4***	***1030***	***19.5***	***205***
Segment D5: Dulce N-trending: farther S in NM (W to E):																											
16L-13	55.6	115.7	14.6	58.1	10.6	3.0	7.6	1.0	5.1	0.9	2.2	0.3	1.6	0.3	931	3.3	26.0	22.6	6.5	1.6	1.0	8.1	8.5	0.1	827	19.5	258
15L-58	45.6	105.9	14.6	61.5	11.6	3.3	8.6	1.1	5.3	0.9	2.2	0.3	1.6	0.2	1386	2.1	16.5	23.1	5.1	0.9	0.6	7.4	17.0	0.1	1339	17.7	197
16L-14	44.3	102.5	13.9	57.6	11.0	2.9	7.9	1.0	5.0	0.8	1.9	0.3	1.5	0.2	240	2.0	16.0	21.0	4.9	0.9	0.8	7.2	1.6	0.0	315	16.8	194
16L-15	32.2	68.8	8.8	36.0	7.5	2.2	6.7	1.0	5.7	1.1	2.7	0.4	2.2	0.3	464	3.8	16.5	28.2	4.4	1.1	1.3	4.9	4.0	0.0	469	20.3	164
16L-16	50.7	120.5	16.5	69.2	13.1	3.4	9.2	1.2	5.7	1.0	2.2	0.3	1.6	0.2	839	2.7	25.8	23.7	6.1	1.9	1.1	6.5	7.0	0.1	564	20.5	221
16L-17	32.6	73.6	10.0	42.0	8.7	2.3	7.0	0.9	4.8	0.9	2.2	0.3	1.8	0.3	570	2.5	12.5	22.3	8.0	0.8	1.3	4.9	181.8	0.8	732	21.8	278
16L-9A	45.4	95.5	12.9	53.7	11.7	3.3	9.7	1.3	6.4	1.1	2.7	0.4	2.1	0.3	1021	5.3	14.1	27.6	5.6	1.1	1.8	9.5	101.2	0.7	793	26.0	219

Sample ID	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm	Ba ppm	Th ppm	Nb ppm	Y ppm	Hf ppm	Ta ppm	U ppm	Pb ppm	Rb ppm	Cs ppm	Sr ppm	Sc ppm	Zr ppm
16L-9B	41.3	91.4	12.8	54.1	12.2	3.4	10.5	1.4	7.0	1.2	2.8	0.4	2.1	0.3	829	4.6	11.1	30.4	5.6	0.8	1.7	5.5	69.5	0.5	914	27.9	221
AVG:	***43.5***	***96.7***	***13.0***	***54.0***	***10.8***	***3.0***	***8.4***	***1.1***	***5.6***	***1.0***	***2.4***	***0.3***	***1.8***	***0.3***	***785***	***3.3***	***17.3***	***24.9***	***5.8***	***1.1***	***1.2***	***6.7***	***48.8***	***0.3***	***744***	***21.3***	***219***
Segment D6: Dulce N-trending: southernmost in NM:																											
15L-57	63.4	139.8	18.2	73.3	13.2	3.6	8.8	1.1	5.2	0.9	2.0	0.3	1.5	0.2	1575	3.4	29.8	21.7	6.7	2.0	1.0	10.3	38.5	0.1	1648	15.9	254
16L-10	64.0	140.8	18.7	75.8	13.5	3.7	9.1	1.1	5.4	0.9	2.1	0.3	1.5	0.2	1494	3.0	26.8	22.0	6.1	1.7	1.1	7.6	29.2	0.1	1740	17.4	238
16L-11	66.3	144.9	18.9	76.9	13.5	3.7	9.1	1.1	5.4	0.9	2.0	0.3	1.5	0.2	1770	3.2	26.5	22.4	6.1	1.7	1.0	8.7	37.9	0.1	1804	15.8	245
AVG:	**64.6**	**141.9**	**18.6**	**75.3**	**13.4**	**3.6**	**9.0**	**1.1**	**5.3**	**0.9**	**2.0**	**0.3**	**1.5**	**0.2**	**1613**	**3.2**	**27.7**	**22.0**	**6.3**	**1.8**	**1.1**	**8.9**	**35.2**	**0.1**	**1730**	**16.4**	**246**
Distal granitoid intrusions																											
15L-62	31.0	63.7	7.6	29.9	6.0	1.6	5.2	0.8	4.8	1.0	2.7	0.4	2.5	0.4	804	4.3	8.8	25.3	4.6	0.5	1.2	10.5	50.9	0.8	654	11.9	181
15L-35	54.5	111.8	14.1	55.6	9.7	2.7	6.6	0.8	3.9	0.6	1.5	0.2	1.1	0.2	1549	7.3	15.6	16.8	4.9	0.9	2.9	11.4	68.9	0.9	1127	10.8	194
15L-59	53.5	109.3	13.7	54.0	9.7	2.7	6.6	0.8	3.9	0.7	1.6	0.2	1.2	0.2	1529	7.5	14.9	17.0	5.0	0.8	3.1	10.9	62.9	0.7	1182	11.6	192
16L-5	37.7	77.8	9.5	36.6	7.4	1.7	6.1	0.9	5.3	1.0	2.8	0.4	2.6	0.4	714	8.6	10.3	27.4	5.8	0.7	2.4	10.7	70.2	1.0	583	21.1	225
16L-6	34.9	73.0	9.1	35.3	7.2	1.8	6.1	0.9	5.3	1.0	2.8	0.4	2.5	0.4	722	9.1	11.1	27.0	5.9	0.7	2.7	12.0	80.2	1.0	746	16.6	225
AVG:	***42.3***	***87.1***	***10.8***	***42.3***	***8.0***	***2.1***	***6.1***	***0.8***	***4.7***	***0.9***	***2.3***	***0.3***	***2.0***	***0.3***	***1064***	***7.4***	***12.1***	***22.7***	***5.2***	***0.7***	***2.4***	***11.1***	***66.6***	***0.9***	***858***	***14.4***	***203***
Conejos Formation-Wolf Cr Pass																											
15L-32	38.4	73.2	8.7	33.1	6.0	1.6	4.5	0.6	3.6	0.7	1.9	0.3	1.7	0.3	1083	5.9	8.8	18.7	4.3	0.5	1.7	22.6	65.8	1.3	989	10.7	161
15L-34	43.5	81.2	8.8	30.6	5.4	1.2	4.0	0.6	3.2	0.6	1.8	0.3	1.8	0.3	862	14.0	15.3	16.8	5.0	1.1	3.7	17.1	119.3	2.1	421	5.6	179

Analyses made at Washington State Geoanalytical Lab, 2015-2017, by Charles Knaack. For methods and precision see: https://environment.wsu.edu/facilities/geoanalytical-lab/technical-notes/icp-ms-method

In blue, values deemed atypical for subgroup