

## ESPIRITU SANTO PROJECT, JALISCO, MEXICO

6 January 2014. Santana Minerals Limited (“Santana”) has completed the first phase of drill testing of the Espiritu Santo Project (ES) in Jalisco, Mexico.

ES is located 130 km west of Guadalajara and 50 km east of Puerto Vallarta in Jalisco State, Mexico. The ES concessions cover a total area of approximately 5,800 hectares within the Mascota-Navidad Mining District (Figure 1).

### Summary:

A 24 drill hole (2,881 metre) first phase program has now been completed over a drilled area covering approximately 2km x 2km within the mining concessions. The first phase program evidences some near surface supergene gold enrichment but the assays indicate the likelihood of a deeply eroded quartz-sulphide epithermal system with overall modest gold grades. The near surface enrichment will not likely form a basis for shallow drilling to identify any bulk tonnage potential.

Whilst further assessment and interpretation will be undertaken in relation to the broader mining concessions the program has not established a case for continuing to a second phase of the drill program in the targeted area.

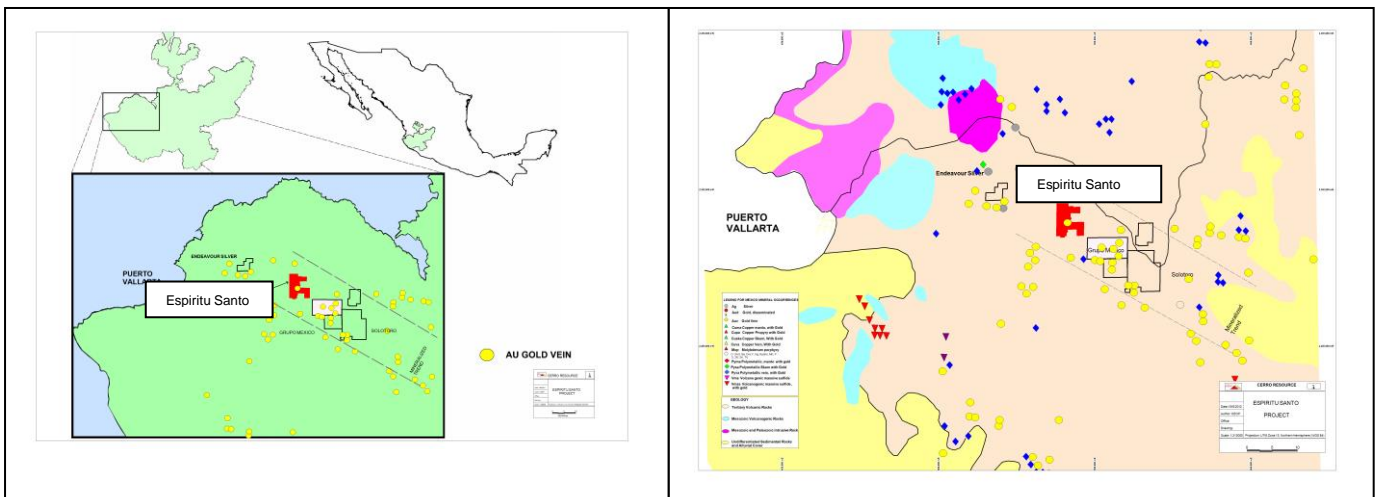
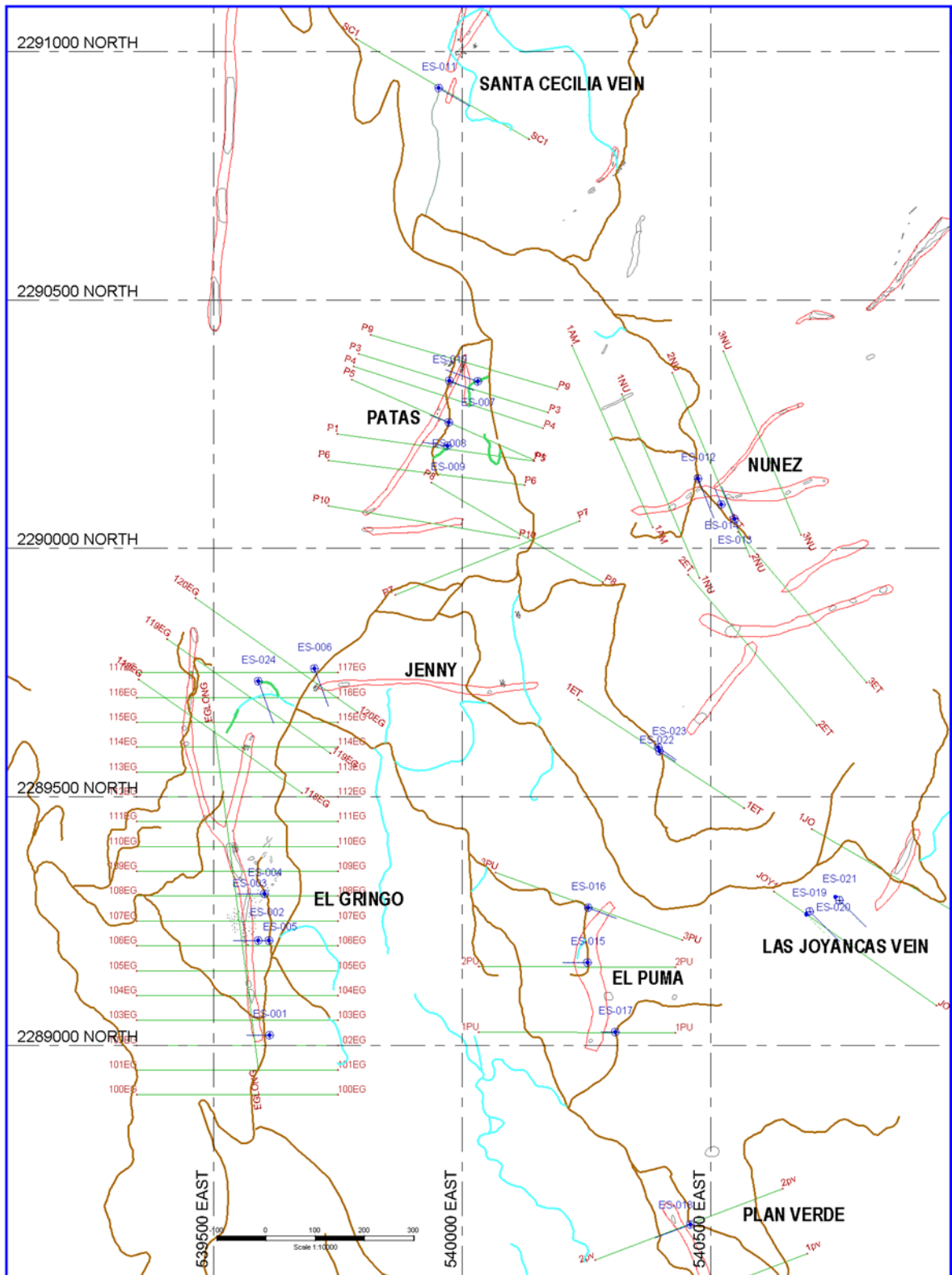


Figure 1: Espiritu Santo Project Location



**Figure 2: Drill Hole and Cross Section Locations at Espiritu Santo**

**Detail:**

24 Reverse Circulation (RC) drill holes for a total of 2,881 metres (Figure 2) were completed during this phase of the evaluation using a track mounted RC rig. The program was designed to be in two phases, with a break to allow for an evaluation of the first phase drill assays.

Drill holes were planned to intersect the strike of the veins as close to perpendicular as possible. Previously reported rock chip results, soil geochemistry and geologic observations guided the selection and the priority of drill holes. Drill hole information is set out in Table 6.

Assays submitted to ALS in Guadalajara have been received for all of the 24 drill holes. A summary of the drilling and results follows.

**El Gringo:** Five RC holes were drilled to test El Gringo; ES-001 through ES-005 (Figure 2 and Table 1). All drill holes intersected strongly oxidized rhyolitic tuff overlying more competent porphyritic andesite units.

Only ES-002 drilled below the projection of the historic workings contained anomalous gold at drilled depths of 39 to 42m, averaging 0.87 g/t Au over 3m. Anomalous silver, copper, lead and zinc were intersected in 4 of the 5 holes. Holes ES-004 and ES-005 were stopped short of the planned depths after encountering large volumes of water believed to be associated with prominent structural zones.

**Table 1: Significant RC Drill Results for El Gringo**

HOLE ID	FROM	TO	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
ES-001	0	1	<0.01	1.3	341	3370	120
ES-001	1	2	0.01	1.8	392	2990	104
ES-001	4	5	<0.01	6.1	395	1800	78
ES-001	24	25	0.09	36.2	3910	672	1970
ES-001	25	26	<0.01	23.9	430	1850	181
ES-001	26	27	<0.01	18.5	523	2900	447
ES-001	27	28	<0.01	8.9	46	>10000	560
ES-001	28	29	<0.01	4.1	36	3690	558
ES-001	29	30	<0.01	3.3	25	8590	685
ES-001	30	31	<0.01	4.6	50	6480	732
ES-001	31	32	<0.01	3.6	21	3320	955
ES-001	33	34	<0.01	2.8	15	182	7040
ES-001	34	35	<0.01	0.6	27	185	1100
ES-001	35	36	<0.01	<0.5	16	55	2900
ES-001	36	37	<0.01	<0.5	18	85	1625
ES-002	37	38	0.02	5	165	902	60
ES-002	38	39	0.04	5.8	337	4090	171
ES-002	39	40	1.17	26.5	272	5500	184
ES-002	40	41	0.8	77.3	380	7200	172
ES-002	41	42	0.63	51.3	450	5100	264
ES-002	42	43	0.08	13.8	1950	2160	349
ES-002	43	44	0.02	2.3	245	5150	535
ES-002	44	45	0.01	1.5	73	548	1895
ES-002	45	46	0.02	1.6	221	143	1010
ES-003	41	42	<0.01	8.3	238	29	96
ES-003	44	45	<0.01	9	452	19	115
ES-003	45	46	<0.01	5.6	255	16	107
ES-003	48	49	<0.01	6.2	651	124	173

HOLE ID	FROM	TO	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
ES-003	49	50	0.01	8.6	879	193	233
ES-003	53	54	0.01	10.3	341	329	241
ES-003	74	75	0.01	5.2	231	597	99
ES-003	77	78	0.14	14.1	1340	2200	839
ES-003	78	79	0.04	10.7	376	1635	346
ES-003	79	80	0.37	43.2	2190	2090	1295
ES-003	80	81	0.15	18.3	845	2120	612
ES-003	81	82	<0.01	1.3	17	232	2210
ES-003	82	83	<0.01	1.2	15	71	1960
ES-003	83	84	<0.01	1	15	48	762
ES-003	84	85	<0.01	1.1	8	25	1345
ES-005	66	67	<0.01	6.8	270	291	67
ES-005	67	68	<0.01	4.9	240	252	79
ES-005	68	69	0.06	5	175	297	62
ES-005	69	70	0.08	7.2	116	901	61
ES-005	70	71	0.03	16.2	1400	1725	438
ES-005	71	72	<0.01	2.8	57	2180	446
ES-005	72	73	<0.01	5.1	44	2300	3090
ES-005	73	74	<0.01	3.9	53	800	6840
ES-005	74	75	<0.01	0.7	18	188	4840

**Patas Area:** Four angle RC drill holes were drilled into the Patas target; ES-007, 008, 009 and 010 (Figure 2 and Table 2). ES-007 intersected the target vein at a down-hole distance of 42m to 49m. This 7m interval averaged 1.6g/t Au with a high of 6.47g/t Au and 21.8 g/t Ag and occurs within a broad zone of copper mineralization (Figure 3). Quartz veining at this level is strongly oxidized. The higher gold values associated with iron oxides indicates that there is probable supergene enrichment. ES-010 drilled to the east along the same section line as ES-007 intersected the hanging wall vein. Although high grade, the zone is only 2m in width with a high value of 14g/t Au and 11.3g/t Ag. ES-010 however did not intersect anomalous values corresponding to those intersected ES-007 in the lower zone and suggests a nugget effect causing the sporadic results.

ES-008 intersected a narrow mineralized zone at approximately the same down-hole distance as ES-007 and is interpreted to be within the hanging wall of the Patas structure. ES-009 was stopped above the projected target interval because water levels prevented dry sampling.

**Table 2: Significant RC Drill Results for Patas**

HOLE ID	FROM	TO	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
ES-007	42	43	6.47	21.8	1680	47	35
ES-007	43	44	0.32	4.5	660	34	32
ES-007	44	45	0.69	2.7	980	66	38
ES-007	45	46	0.73	5.3	1255	101	48
ES-007	46	47	1.29	7.2	2180	160	85
ES-007	47	48	1.37	18.6	3010	85	72
ES-007	48	49	0.62	4.7	1550	85	91
ES-007	98	99	0.07	6.4	3340	28	43
ES-007	99	100	1.37	11	7740	15	41
ES-008	43	44	1.46	3	577	20	15
ES-008	44	45	0.65	2.2	514	18	22
ES-010	4	5	14.25	11.3	838	182	245
ES-010	5	6	4.21	11.5	988	179	135

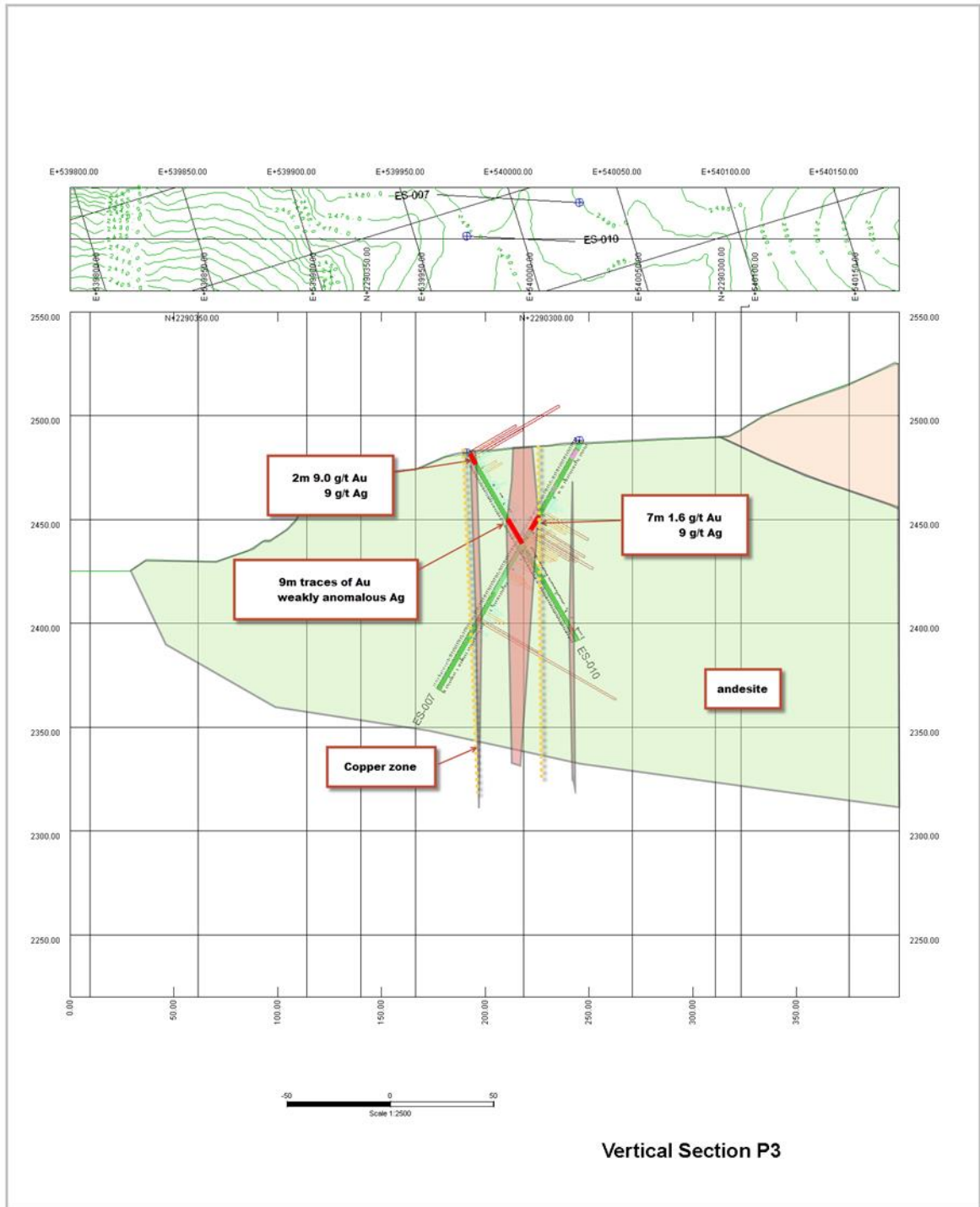


Figure 3: Drill Hole Cross Section P3 at Patas

**Nuñez:** Drill holes ES-012, ES-013 and ES-014 targeted the Nuñez vein (Figure 2 and Table 3). ES-014 intersected a drilled intercept length of 8m in the vein which averaged 1.39g/t Au (Figure 4). This gold mineralization occurs within a larger copper zone with visible secondary and primary copper minerals. The intercept in ES-014 was also cut in ES-012 at a down-hole distance of approximately 75m but only contained weakly anomalous grades and appears to be below the zone of supergene enrichment.

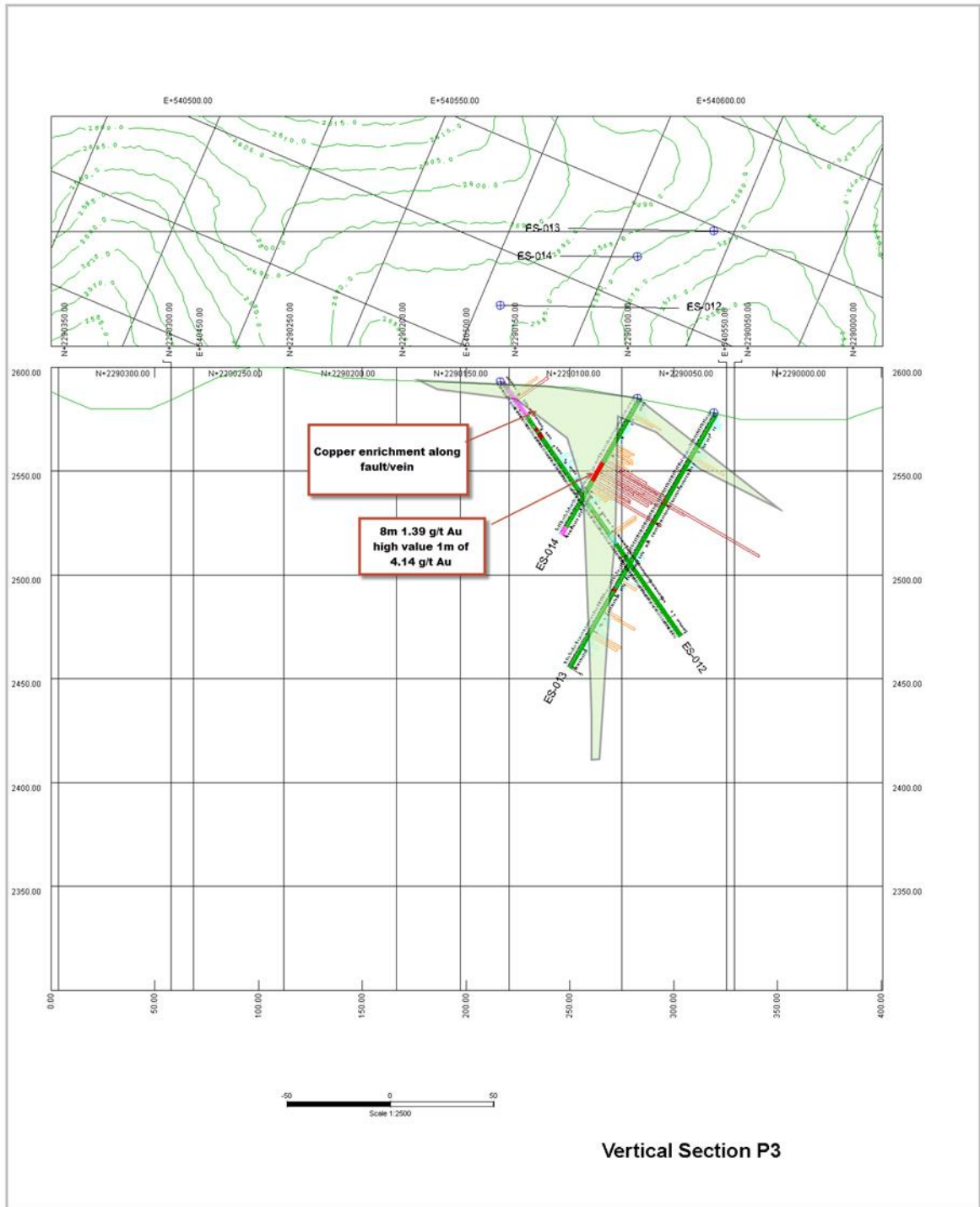
**Table 3: Significant RC Drill Results for Nuñez**

HOLE ID	FROM	TO	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
ES-012	10	11	1.93	16.7	1140	117	139
ES-012	11	12	0.29	12.3	2000	50	179
ES-013	NO SIGNIFICANT ASSAYS						
ES-014	7	8	1.21	8.5	1740	55	112
ES-014	37	38	4.13	10.5	4800	30	279
ES-014	38	39	1.54	10.1	2550	38	152
ES-014	39	40	0.12	3.3	3530	8	161
ES-014	40	41	0.04	2.5	3120	5	120
ES-014	41	42	2.51	10.6	2130	10	98
ES-014	42	43	2.08	7.3	3040	3	84
ES-014	43	44	0.05	3.4	1000	2	36
ES-014	44	45	0.65	8	2150	6	63
ES-014	45	46	0.12	7.3	2210	6	67
ES-014	46	47	0.09	4	1935	4	79
ES-014	47	48	0.15	6	4040	3	100

**EL Puma:** ES-015, ES-016 and ES-017 were drilled into the El Puma target (Figure 2 and Table 4). ES-015 intersected a weak gold and silver zone between 24 to 43m with strongly anomalous copper. ES-016 intersected a wider zone of 7m vein averaging 0.78g/t Au from 74 to 83m.

**Table 4: Significant RC Drill Results for El Puma**

HOLE ID	FROM	TO	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
ES-015	24	25	1.22	3.1	207	21	27
ES-015	28	29	0.14	6	2300	67	126
ES-015	33	34	0.11	12.8	1110	227	56
ES-015	34	35	0.07	7.3	611	119	35
ES-015	35	36	0.09	5.1	632	99	40
ES-015	36	37	0.12	3.5	782	71	50
ES-015	37	38	0.16	6.3	1560	162	73
ES-015	38	39	0.04	3.6	3110	63	215
ES-015	39	40	0.21	21	>10000	126	22
ES-015	40	41	0.17	8.6	2850	75	43
ES-015	41	42	0.03	3.2	1040	20	56
ES-015	42	43	0.05	6.3	2510	20	121
ES-016	73	74	0.88	4	744	55	151
ES-016	77	78	0.92	10.4	1530	163	365
ES-016	78	79	0.78	8	1600	85	389
ES-016	79	80	0.61	5.8	2950	34	522
ES-016	80	81	0.78	6.7	2480	50	490
ES-016	81	82	0.84	7	1730	44	159
ES-016	82	83	0.67	3.6	2190	56	221
ES-017	NO SIGNIFICANT ASSAYS						



**Figure 4: Drill Hole Cross Section P3 at Nuñez**

**Joyancas:** ES-019, ES-020 and ES-021 were drilled into the Joyancas target (Figure 2 and Table 5). ES-019 did not intersect anomalous gold, silver or copper mineralization. ES-020 drilled on the same pad but at a steeper angle intersected a 4m interval from 41 to 45m that averaged 2.8 g/t Au also with anomalous silver grades to 17g/t Ag. ES-021 drilled 60m to the NE of ES-019 and ES-020 intersected a 3m drill intercept averaging 7.7g/t Au and 33g/t Ag, with a high value of 13g/t Au over 1m (Table 5). Joyancas does not contain elevated copper values and is hosted in an altered, possibly upper level rhyolitic unit.

**Table 5: Significant RC Drill Results for Joyancas**

HOLE ID	FROM	TO	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
ES-019	NO SIGNIFICANT ASSAYS						
ES-020	40	41	0.33	4.5	38	158	63
ES-020	41	42	7.05	30.9	29	215	64
ES-020	42	43	2.44	19.2	42	399	64
ES-020	43	44	1.01	10.3	20	203	93
ES-020	44	45	0.7	9.1	13	89	89
ES-020	112	113	1.06	0.5	2	13	75
ES-021	66	67	0.98	15.4	57	840	89
ES-021	67	68	13	70.9	74	1125	108
ES-021	68	69	8.89	15.4	91	1515	246
ES-021	69	70	0.09	6.7	41	384	200

Also tested during this program were the Jenny vein (ES-006 and ES-024), the Santa Cecilia vein (ES-011), the Plan Verde target (ES-018) and the El Tigre vein (ES-022 and ES-023) (Figure 2). None of these drill holes intersected significant mineralization.

Drilling was completed using a 5 inch centre return hammer which minimizes potential contamination during drilling. Samples were collected at 1m intervals and split on site. A duplicate sample retained on site as backup. All samples were collected under the supervision of a qualified geologist. A strict QAQC program of duplicate samples and submission of blanks and standards was implemented. Down the hole surveys were conducted at the completion of each drill hole using a single shot survey system operated by BDW.

**Table 6: Espiritu Santo RC Drill hole information**

HOLE ID	EAST	NORTH	RL	DIP	AZIMUTH	TOTAL DEPTH
ES-001	539612	2289020	2471	-55	270	81
ES-002	539589	2289210	2485	-60	270	100
ES-003	539602	2289304	2492	-55	270	99
ES-004	539602	2289304	2492	-70	270	141
ES-005	539611	2289210	2480	-65	270	114
ES-006	539703	2289758	2441	-60	160	162
ES-007	540031	2290336	2488	-60	290	138
ES-008	539973	2290253	2482	-60	293	81
ES-009	539971	2290206	2480	-60	278	105
ES-010	539974	2290336	2482	-60	110	105
ES-011	539953	2290926	2569	-60	120	147
ES-012	540475	2290140	2586	-55	158	150
ES-013	540548	2290059	2588	-60	338	141
ES-014	540522	2290088	2591	-60	338	75
ES-015	540253	2289166	2434	-60	270	102



ES-016	540254	2289276	2435	-60	110	120
ES-017	540309	2289026	2370	-60	270	60
ES-018	540460	2288639	2309	-60	250	156
ES-019	540699	2289269	2430	-50	135	135
ES-020	540699	2289269	2430	-70	135	159
ES-021	540759	2289292	2430	-60	135	156
ES-022	540395	2289599	2532	-55	124	78
ES-023	540397	2289592	2521	-70	124	117
ES-024	539589	2289733	2425	-55	160	159
TOTAL						2,881

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### **Competent Person's Statement**

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves (as applicable) is based on information compiled by Mr Bill Fleshman, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Fleshman is a full time consultant to the Company. Mr Fleshman has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Fleshman consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

### **About Santana**

Santana is a precious metals explorer focused on Mexico where it holds interests in the Espiritu Santo gold/silver project in Jalisco and the Namiquipa silver project in Chihuahua.

Additional information about Santana and its projects is available on the website: [www.santanaminerals.com](http://www.santanaminerals.com)