

**QUARTERLY REPORT  
PERIOD ENDED 31 DECEMBER 2013**

**1. QUARTERLY HIGHLIGHTS**

**Espiritu Santo, Jalisco Gold/Silver exploration project**

- Drill program completes circa 3,000m
- Initial results and interpretation do not warrant further exploration

**Namiquipa, Chihuahua Silver/Lead/Zinc exploration project**

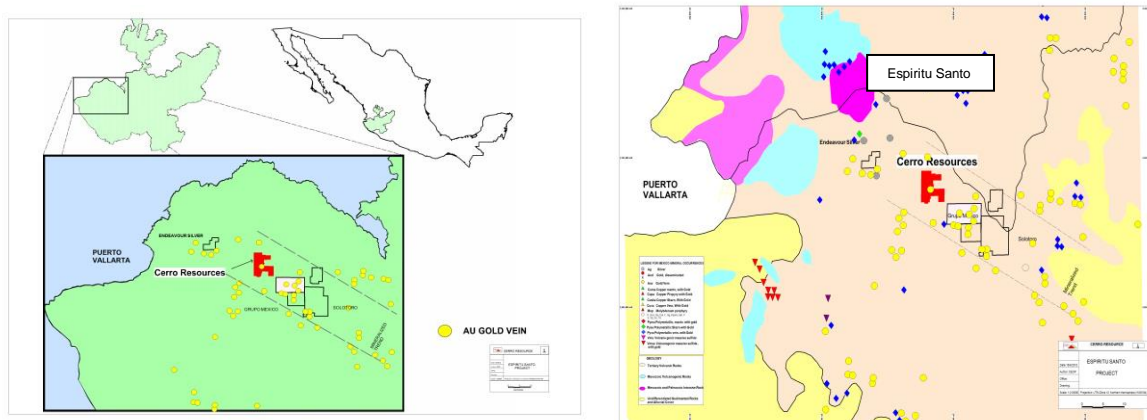
- Interpretation of Complex Resistivity Induced Polarization (CRIP) survey

**2. MEXICO**

**Espiritu Santo, Jalisco**

Espiritu Santo (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).

Exploration activities initiated at ES have included the generation of detailed Lidar topographical maps, geologic mapping, rock chip geochemistry and a soil grid covering almost 6 square kilometers. Exploration efforts resulted in the definition of several targets and during the quarter a 24 (2,881m) Reverse Circulation (RC) drill-hole program tested mineralization in eight target areas over an area of 2km x 2km within the tenement including: El Gringo, Jenny, Patas, Santa Cecilia, Nunez, El Tigre, Plan Verde and Joyancas veins (Figure 2).



**Figure 1: Espiritu Santo Project Location**

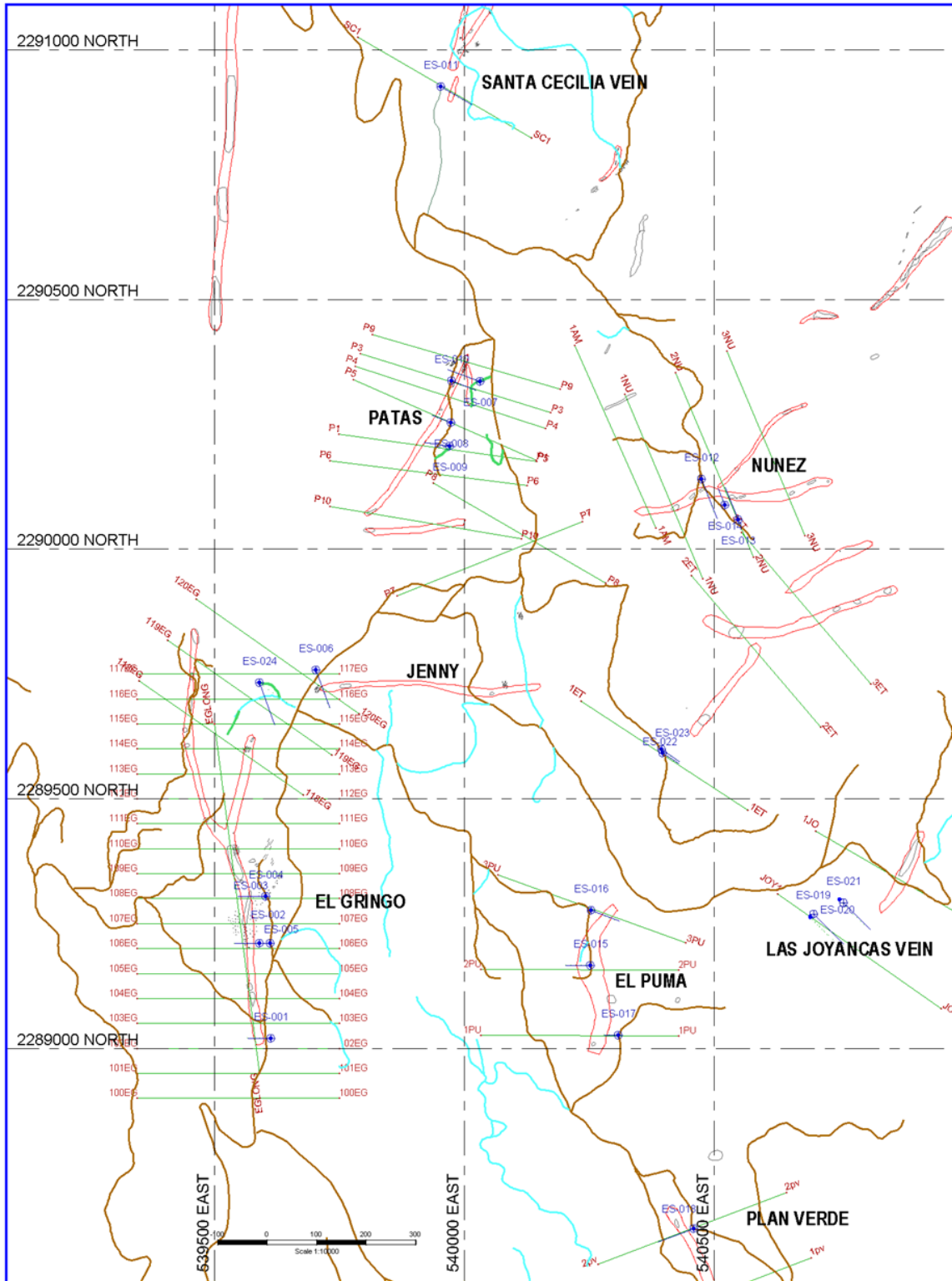


Figure 2: Drill Location Plan

Drill-hole information is set out in Table 1.

**Table 1: 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

**A summary of the drilling and results:**

**El Gringo:** Five RC holes were drilled to test El Gringo; ES-001 through ES-005 (Figure 2 and Table 2). 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 2: 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
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 3). 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. 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 3: 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

**Nuñez:** Drill holes ES-012, ES-013 and ES-014 targeted the Nuñez vein (Figure 2 and Table 4). ES-014 intersected a drilled intercept length of 8m in the vein which averaged 1.39g/t Au. 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 4: 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 5). 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 5: 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						

**Joyancas:** ES-019, ES-020 and ES-021 were drilled into the Joyancas target (Figure 2 and Table 6). 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 6). Joyancas does not contain elevated copper values and is hosted in an altered, possibly upper level rhyolitic unit.

**Table 6: Significant RC Drill Results for Joyancas**

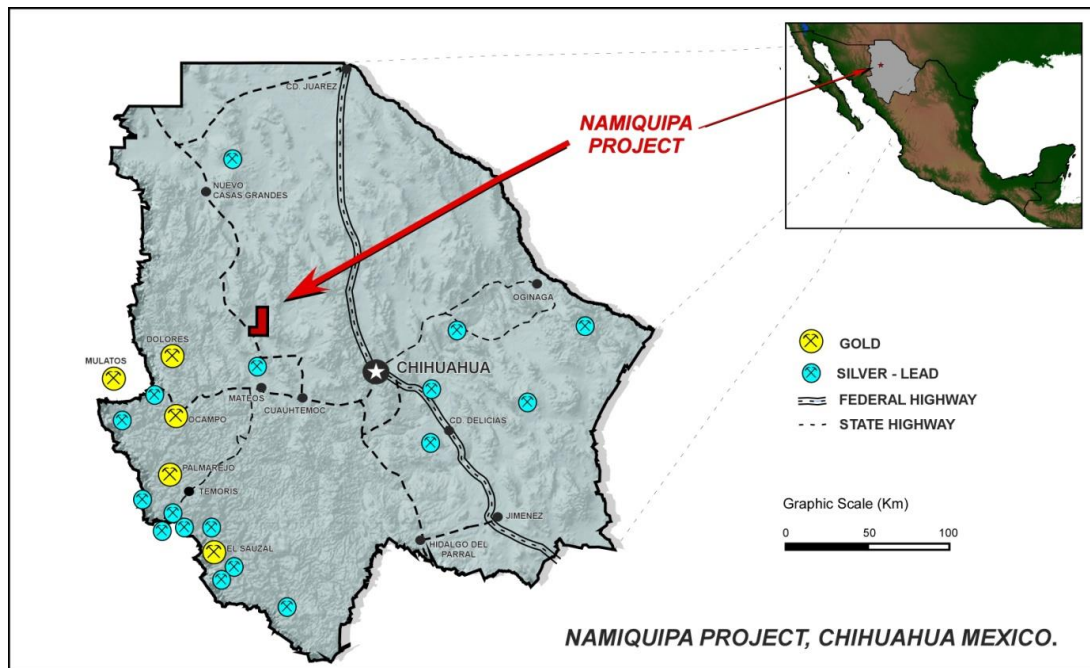
HOLE ID	FROM	TO	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm
ES-019	NO SIGNIFICANT ASSAYS						
ES-020	40	41	0.33	4.5	38	158	63
ES-020	41	42	7.05	30.9	29	215	64
ES-020	42	43	2.44	19.2	42	399	64
ES-020	43	44	1.01	10.3	20	203	93
ES-020	44	45	0.7	9.1	13	89	89
ES-020	112	113	1.06	0.5	2	13	75
ES-021	66	67	0.98	15.4	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.

The drill program and assays have led to a conclusion that further drilling and exploration is not justified. The interpretation is that the project area is a deeply eroded quartz-sulphide gold +/- copper low sulphidation epithermal system with overall modest gold grades. The near surface supergene gold enrichment is consistent with such interpretation.

Since quarter end the Company has given notice withdrawing from the project.

**Namiquipa, Chihuahua** (Santana 100%)



**Figure 3: Namiquipa Location Map**

The Namiquipa Silver Deposit is located within a 4,400 ha concession 145 km west-northwest of Chihuahua City in Chihuahua. The deposit is a low-sulphidation epithermal system transecting a suite of shallow dipping breccias and ignimbrites of andesitic and rhyolitic composition. Extensive silicification has occurred around a major north trending shear zone that is host to the epithermal veins.

Zonge International Inc has undertaken Complex Resistivity Induced Polarization (CRIP) survey surveys in 2010, 2012 and second half 2013 over the known mineralization and strike extents. The 2013 survey infilled a gap in the earlier surveys and extended the program for the known strike length of the wrench fault system.

Interpretation of the data over the 5 km of strike tested by the survey suggests there is potential for additional discovery of mineralized zones to the north and south which are covered by a thin veneer of surficial gravels. Post processing of the resistivity data has identified characteristic geophysical signatures that are correlated with mineralized zones in the existing drill pattern. These signatures extend outside the drilled area to the north and south and extend to significant depth.

Work during the current quarter will involve verification of that potential through overlay of geological mapping and logging data, geochemistry and 3 dimensional modelling.



### 3. AUSTRALIA

Completion of the transactions between Hammer Metals Limited and Midas Resources Limited occurred during the quarter and Santana retains an approx. 28% shareholding in Midas.

For further information, please contact:

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#### **About Santana**

Santana is a precious metals explorer focused on Mexico where it holds 100% of 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)

#### **Previous Disclosure - 2012 JORC Code**

Information relating to Mineral Resources, Exploration Targets and Exploration Data associated with the Company's projects in this December 2013 Quarterly Report is extracted from the following ASX Announcement:

- ASX announcement titled "Espiritu Santo Project Update" dated 6 January 2014.

A copy of the report is available to view on the Santana Minerals Limited website [www.santanaminerals.com](http://www.santanaminerals.com). The report was issued in accordance with the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

### Additional ASX Listing Rule Information

Santana Minerals Limited ('Santana') provides the following additional information in accordance with ASX Listing Rule 5.3.3.

#### Mining tenements held at the end of the quarter and their location

Name	Number	Status	Interest Held
<b>Namiquipa, Mexico</b>			
Tasmania	227076	Granted	100%
America	219975	Granted	100%*
Rolys	236046	Granted	100%
<b>Parker Range, Western Australia</b>			
	M 77/52	Granted	30%^
	M 77/893	Granted	30%^

\* The America concession was acquired under an option agreement dated 22 July 2008 (and subsequently varied). All payments provided for under the agreement have been made and the formal transfer of the concession is pending.

^ Free carried to production.

#### Mining tenements acquired during the quarter and their location

Not applicable.

#### Mining tenements disposed of during the quarter and their location

Throughout the quarter Santana announced completion of transactions for the sale of its Mt Isa tenements listed below.

Name	Number	Status	Interest Disposed	Interest Held
<b>Mount Isa, Queensland</b>				
Mt Philp	MDL 471	Application	100%	Nil
Trafalgar	EPM 14232	Granted	100%	Nil
Pelican	EPM 13870	Granted	100%	Nil
Pilgrim South	EPM 15972	Granted	100%	Nil
Malbon	EPMA 16726	Application	100%	Nil
Devencourt	EPM 16987	Granted	100%	Nil
Andrews	EPM 17453	Granted	100%	Nil
Trekelano	EPM 17762	Granted	100%	Nil
Malbon 2	EPM 18116	Granted	100%	Nil
Duchess	EPM 18320	Granted	100%	Nil

#### Beneficial percentage interests held in farm-in or farm-out agreements at the end of the quarter

Santana has the right to acquire 100% of the Espiritu Santo Project, Mexico by making option payments over 4 years and a final payment in September 2015. The relevant interest in the below concessions can be earned if, at its discretion, Santana completes all payments under the option agreement.

Name	Number	Status	Interest Held
<b>Espiritu Santo, Mexico</b>			
Tao	238201	Granted	Nil
Sao	238202	Granted	Nil
Vale	238203	Granted	Nil

#### Beneficial percentage interests in farm-in or farm-out agreements acquired or disposed of during the quarter

Not applicable.