

004021

**REPORT ON  
THE SECTIONAL HAND CALCULATED  
ORE RESERVES OF THE  
VANGORDA DEPOSIT**

**FOR: CURRAGH RESOURCES INC.**  
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## **SUMMARY**

Sectional hand calculation of the Vangorda Deposit estimates a total of 5.125 mt of 11.11% Pb+Zn are contained within the VIV 1989 pit limits. Both noncarbonaceous and carbonaceous at a 6% cut off have been used to determine this value. Reserves both within and beyond pit limits total 6.169 mt of 10.83% Pb+Zn at the same cut off grade. Reserves beyond the pit limits generally consists of thin discontinuous lenses and portions of polygons marginal to the pit limits. The hand calculation utilized cross sections 2+00 W to 30+00 E and longitudinal sections 9880 N to 10105 N.

Also contained within the pit limits are an indicated 346,222 kg of Ag and 3,867 kg of Au.

Polygon dimensions have been determined by grade interpretation with little consideration given to previous geological interpretations.

## INTRODUCTION

This report has been prepared at the request of Mr. Gregg Jilson, Vice President of Exploration for Curragh Resources Inc. It consists of methods and results for an elementary hand calculation of ore reserves for the Vangorda lead-zinc-silver Deposit. The calculation consists of grade interpretation. Little consideration given to previous geological interpretations.

The calculation utilized a cut off grade of 6% combined lead zinc. Silver and Gold values were also carried through the calculation. The parameters considered during polygon selection are grade from drill core analysis and volume determined from drill hole spacings. A 2.0 meter minimum thickness has been enforced for polygon dimension determination. Lead, zinc, silver, gold and specific gravity of pulp (SG) have been used in the calculation. Values are uncut, except for SG which has been reduced by 2% after compositing. The 2% reductions is to allow for porosity.

## METHOD

The sectional hand calculation for the Vangorda Deposit utilized cross sections 2+00 W to 30+00 E and longitudinal sections 9880 N to 10105 N. Cut off grade used is 6% Pb+Zn. The range of influence for each drill hole is limited to the distance mid point between adjacent drill holes. This range of influence was not to exceed 15 meters along cross section and 30 meters for longitudinal sections. Rarely were these maximum values exceeded. The exceptions occur where a high degree of confidence could be ensured (eg. cross section 3+00 E and blocks 3J, 3K, 3L and 3M). Appendix I contains sections with polygon outlines, as well as tables outlining the individual polygon data.

Uncut assays for drill core sample were extracted from the PCXPLO database and used in calculating SG-length weighted composites. A single composite has been calculated for each polygon.

Polygons have been selected first by ore type; carbonaceous or noncarbonaceous, and secondly by a 6% combined Pb+Zn cut off. The polygon thickness was kept to a 2.0 meter minimum. A simple {length x width x thickness} formula determined the volume of ore within each polygon. Specific gravity values were reduced by 2% for porosity after compositing. Reduced SG values were used to determine tonnages.

Passing consideration has been given to values slightly lower than the 6% cut off. These values occurring along the margins of the polygons underwent a quick visual inspection to determine if weighting by the composite would carry the slightly lower grade sample to the established cut off. A vigorous attempt to locate all such occurrences was not considered.

A database established using Lotus Symphony software was used to calculate the composites. Symphony files were also created to calculate the volumes, tonnage, grade and total metal content for the deposit.

## RESULTS

The Vangorda sectional hand calculation reserves estimates a total 5.125 mt of 11.11 % Pb+Zn exist within the current pit limits. This has been calculated with the 6% cut off and represents all ore types. These ore reserve estimates are listed by ore type in table 1. Detailed results of ore reserves by section within pit limits are located in tables 3, 4, and 5. Reserve totals within pit limits are categorized by section groups Appendix II.

ORE TYPE	TONNES OF ORE	AVE GRADE (Pb+Zn)	TONNES OF Pb+Zn	TONNES OF Pb	TONNES OF Zn	Kg OF Ag	Kg OF Au
NONCARBONACEOUS	4,740,463	11.27%	35,309	241,888	292,203	328,111	3,640
CARBONACEOUS	384,455	9.18%	534,086	13,952	21,359	18,111	223
TOTAL	5,124,919	11.11%	569,395	255,836	313,559	346,222	3,867

Table 1: Vangorda ore reserves within pit limits.

Note: Totals for each ore type have been calculated independantly, rounding through numerous calculations account for minor errors in addition.

Reserves within and beyond the current pit limits have also been determined by the sectional hand calculation. These estimated reserves for the Vangorda Deposit total 6.169 mt of 10.83 % Pb+ Zn. This has also been calculated at the 6% cut off and represents all ore types. Reserves beyond pit limits generally consist of thin discontinous lenses and portions of polygons marginal to pit limits. Table 2 outlines these reserves by ore type. Detailed results by section are located in Table 6, 7, and 8. Reserve totals occuring within and beyond pit limits are categorized by section groups Appendix III.

ORE TYPE	TONNES OF ORE	AVE GRADE (Pb+Zn)	TONNES OF Pb+Zn	TONNES OF Pb	TONNES OF Zn	Kg OF Ag	Kg OF Au
CARBONACEOUES	562,590	8.85%	49,791	19,601	30,190	27,129	315
NONCARBONACEOUES	5,606,148	11.03%	618,118	279,933	338,185	378,616	4,239
TOTAL RESERVES	6,168,739	10.83%	667,904	299,532	368,372	405,747	4,560

Table 2 Vangorda total reserves.

Note: Totals of ore types have been calculated independantly, rounding through numerous calculations account for minor errors in addition.

Summary ore reserve estimates within the current pit limits grouped by sections are displayed in table 5. These values represent both noncarbonaceous and carbonaceous ore types. Data in this table has been compiled from Appendix II. Reserve estimates based on noncarbonaceous and carbonaceous ore types are listed in Appendix III and Appendix IV respectively.

VANGORDA SECTIONAL RESERVE CALCULATIONS  
 NON CARBONACEOUS ORE TYPES "A" FOR CROSS-SECTIONS 2+00W TO 30+00E

Table 3

APRIL, 1990

SECTION	AVERAGE GRADE					VOLUME (m <sup>3</sup> )	TONNES	METAL CONTENT				
	Pb+Zn%	Pb%	Zn%	Ag (g/t)	Au (g/t)			Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)
02+00W	10.12	4.71	5.41	55.86	0.59	17,565	65,456	6,622	3,081	3,541	3,656	38
01+00W	0	0	0	0	0	0	0	0	0	0	0	0
00+00E	11.89	5.53	6.36	90.8	0.83	105,184	431,440	51,307	23,855	27,452	39,173	358
01+00E	10.92	4.06	6.85	69.58	0	15,935	64,450	7,037	2,619	4,418	4,484	0
02+00E	11.31	5.18	6.13	78.27	0.47	146,197	614,168	69,479	31,801	37,678	48,071	291
03+00E	10.34	4.52	5.82	60.7	0.44	92,164	376,084	38,877	16,992	21,885	22,830	166
04+00E	10.83	4.67	6.16	66.35	0.98	133,312	528,590	57,254	24,689	32,565	35,072	517
05+00E	11.6	5.19	6.42	69.71	1.08	48,805	201,192	23,347	10,437	12,910	14,026	216
06+00E	11.89	5.73	6.16	74.68	0.66	99,860	409,394	48,695	23,472	25,223	30,572	270
07+00E	9.22	4.14	5.08	60.43	0.89	51,447	218,406	20,137	9,038	11,099	13,198	195
08+00E	11.91	5.54	6.36	76.35	0.99	96,636	396,173	47,171	21,958	25,213	30,246	392
09+00E	10.87	5.08	5.8	63.38	1.22	23,338	96,185	10,457	4,882	5,575	6,097	118
10+00E	11.96	5.31	6.66	68.06	0.6	68,924	276,587	33,088	14,677	18,411	18,825	167
11+00E	11.61	5.18	6.43	66.77	0.94	37,350	158,876	18,439	8,227	10,212	10,608	149
12+00E	8.42	3.86	4.55	50.03	0.8	71,599	282,098	23,747	10,903	12,844	14,114	226
13+00E	13.57	6.73	6.84	91.46	1.32	10,404	41,813	5,673	2,815	2,858	3,824	55
14+00E	11.01	5.1	5.91	43.42	0.4	60,348	244,520	26,914	12,469	14,445	10,617	97
15+00E	10.21	4.57	5.64	60.05	0.6	16,953	64,880	6,627	2,966	3,661	3,896	39
16+00E	8.58	3.95	4.63	53.94	0.65	30,635	108,323	9,294	4,280	5,014	5,843	71
17+00E	12.88	5.99	6.89	74.41	1.01	16,110	65,743	8,465	3,935	4,530	4,892	66
18+00E	10.03	4.07	5.96	42.87	0.57	39,702	153,937	15,442	6,260	9,182	6,600	87
19+00E	11.19	4.96	6.23	65.89	0.91	15,012	57,404	6,425	2,846	3,579	3,783	52
20+00E	10.96	4.04	6.91	67.77	0.53	21,356	85,103	9,325	3,441	5,884	5,767	45
21+00E	9.57	4.35	5.23	67.85	1.08	5,508	22,257	2,130	967	1,163	1,510	24
22+00E	9.56	4.32	5.24	61.45	0.87	54,047	210,847	20,161	9,119	11,042	12,956	183
23+00E	9.82	5.06	4.76	57.52	0.69	9,318	34,709	3,407	1,757	1,650	1,996	24
24+00E	11.66	5.06	6.6	54.51	0.48	57,602	233,470	27,213	11,805	15,408	12,727	111
25+00E	16.89	10.72	6.17	108.99	1.61	4,021	17,270	2,916	1,851	1,065	1,882	28
26+00E	10.63	4.93	5.71	68.79	1.11	11,634	46,142	4,907	2,273	2,634	3,174	51
27+00E	13.84	5.43	8.41	93.7	1.31	4,950	20,471	2,834	1,112	1,722	1,918	27
28+00E	12.93	5.86	7.07	65.49	1.15	9,578	41,697	5,393	2,445	2,948	2,731	48
29+00E	17.1	6.08	11.02	80.8	1.49	2,160	10,224	1,749	622	1,127	826	15
30+00E	12.7	8.28	4.42	95.69	4.01	7,015	28,239	3,586	2,339	1,247	2,702	113
TOTALS												
VOLUME (m <sup>3</sup> )		TONNES		Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)				
1,384,669		5,606,148		618,118	279,933	338,185	378,616	4,239				
AVERAGE GRADE												
Pb+Zn%		Pb%	Zn%	Ag (g/t)	Au (g/t)							
11.03		4.99	6.03	67.54	0.76							

VANGORDA SECTIONAL RESERVE CALCULATIONS  
 CARBONACEOUS ORE TYPES FOR CROSS-SECTIONS 2+00W TO 30+00E

Table 4

APRIL, 1990

SECTION	AVERAGE GRADE					VOLUME (m <sup>3</sup> )	TONNES	METAL CONTENT						
	Pb+Zn%	Pb%	Zn%	Ag (g/t)	Au (g/t)			Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)		
02+00W	7.21	3.02	4.19	36.15	0.41									
01+00W	0	0	0	0	0	12468	34217	2469	1035	1434	1237	14		
00+00E	9.47	3.6	5.88	54.59	0.8	0	0	0	0	0	0	0	0	0
01+00E	8.11	3.75	4.36	50.9	0	50645	147836	14006	5318	8688	8070	118		
						4968	14460	1172	542	630	736	0		
02+00E	8.28	3.47	4.81	43.7	0.62									
03+00E	6.62	2.31	4.31	39.8	0.63	35763	101627	8410	3522	4888	4441	63		
04+00E	7.5	2.91	4.59	42.2	0.72	6390	17659	1169	408	761	703	11		
05+00E	7.51	2.82	4.69	36.7	0.29	3121	8686	652	253	399	367	6		
						2912	8362	628	236	392	307	2		
06+00E	9.88	4.01	5.87	63.38	0.6									
07+00E	0	0	0	0	0	10593	32607	3222	1307	1915	2067	20		
08+00E	8.93	3.07	5.86	50.4	1.14	0	0	0	0	0	0	0	0	0
09+00E	0	0	0	0	0	4050	12383	1106	380	726	624	14		
						0	0	0	0	0	0	0	0	0
10+00E	9.29	3.31	5.98	48.5	0.98									
11+00E	0	0	0	0	0	3915	11433	1062	378	684	555	11		
12+00E	9.61	4.12	5.5	58.59	0.42	0	0	0	0	0	0	0	0	0
13+00E	0	0	0	0	0	22969	72086	6930	2968	3962	4223	30		
						0	0	0	0	0	0	0	0	0
14+00E	10.81	3.45	7.37	8.49	0.13									
15+00E	7.88	4.63	3.25	60	0.51	3468	9924	1073	342	731	84	1		
16+00E	0	0	0	0	0	1980	4851	383	225	158	291	2		
17+00E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						0	0	0	0	0	0	0	0	0
18+00E	0	0	0	0	0									
19+00E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20+00E	11.12	4.23	6.89	63.39	0.65									
21+00E	9.65	3.38	6.27	47.7	0.46	8264	27529	3061	1165	1896	1745	18		
						227	711	69	24	45	34	0		
22+00E	9.37	3.16	6.2	33.99	0.31									
23+00E	0	0	0	0	0	3548	10301	965	326	639	350	3		
24+00E	7.27	2.39	4.88	16.93	0.07	0	0	0	0	0	0	0	0	0
25+00E	0	0	0	0	0	7423	21670	1575	518	1057	367	2		
						0	0	0	0	0	0	0	0	0
26+00E	7	2.49	4.51	35.35	0.01									
27+00E	0	0	0	0	0	8370	26248	1839	654	1185	928	0		
28+00E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29+00E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30+00E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						0	0	0	0	0	0	0	0	0
TOTALS														
VOLUME (m <sup>3</sup> )		TONNES		Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)						
191,074		562,590		49,791	19,601	30,190	27,129	315						
AVERAGE GRADE														
Pb+Zn%		Pb%		Zn%	Ag (g/t)	Au (g/t)								
8.85		3.48		5.37	48.22	0.56								

VANGORDA SECTIONAL RESERVE CALCULATIONS  
 CARBONACEOUS AND NONCARBONACEOUS ORE TYPES COMBINED, CROSS-SECTIONS 02+00W TO 30+00E

Table 5  
 APRIL, 1990

SECTION	AVERAGE GRADE					ORE VOLUME		METAL CONTENT				
	Pb+Zn%	Pb%	Zn%	Ag (g/t)	Au (g/t)	(m <sup>3</sup> )	TONNES	Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)
02+00W	9.12	4.13	4.99	49.09	0.53	30,033	99,673	9090	4,115	4,975	4,893	52
01+00W	0	0	0	0	0	0	0	0	0	0	0	0
00+00E	11.27	5.04	6.24	81.56	0.82	155,828	579,276	65313	29,173	36,140	47,244	477
01+00E	10.4	4.01	6.4	66.15	0	20,903	78,910	8209	3,161	5,048	5,220	0
02+00E	10.88	4.93	5.95	73.36	0.49	181,960	715,794	77889	35,323	42,566	52,512	353
03+00E	10.17	4.42	5.75	59.77	0.45	98,554	393,743	40046	17,400	22,646	23,533	177
04+00E	10.78	4.64	6.14	65.96	0.97	136,433	537,275	57905	24,941	32,964	35,438	524
05+00E	11.44	5.09	6.35	68.4	1.04	51,717	209,554	23975	10,673	13,302	14,333	219
06+00E	11.75	5.61	6.14	73.84	0.66	110,453	442,001	51917	24,779	27,138	32,639	290
07+00E	9.22	4.14	5.08	60.43	0.89	51,447	218,406	20137	9,038	11,099	13,198	195
08+00E	11.82	5.47	6.35	75.56	1	100,686	408,556	48276	22,338	25,938	30,870	407
09+00E	10.87	5.08	5.8	63.38	1.22	23,338	96,185	10457	4,882	5,575	6,097	118
10+00E	11.86	5.23	6.63	67.29	0.62	72,839	288,021	34151	15,056	19,095	19,380	178
11+00E	11.61	5.18	6.43	66.77	0.94	37,350	158,876	18439	8,227	10,212	10,608	149
12+00E	8.66	3.92	4.74	51.77	0.72	94,568	354,184	30676	13,871	16,805	18,338	256
13+00E	13.57	6.73	6.84	91.46	1.32	10,404	41,813	5673	2,815	2,858	3,824	55
14+00E	11	5.03	5.96	42.06	0.39	63,817	254,444	27987	12,811	15,176	10,701	99
15+00E	10.05	4.58	5.48	60.05	0.6	18,933	69,731	7009	3,191	3,818	4,187	42
16+00E	8.58	3.95	4.63	53.94	0.65	30,635	108,323	9294	4,280	5,014	5,843	71
17+00E	12.88	5.99	6.89	74.41	1.01	16,110	65,743	8465	3,935	4,530	4,892	66
18+00E	10.03	4.07	5.96	42.87	0.57	39,702	153,937	15442	6,260	9,182	6,600	87
19+00E	11.19	4.96	6.23	65.89	0.91	15,012	57,404	6425	2,846	3,579	3,783	52
20+00E	11	4.09	6.91	66.7	0.56	29,620	112,632	12387	4,607	7,780	7,513	63
21+00E	9.58	4.32	5.26	67.23	1.06	5,735	22,968	2199	991	1,208	1,544	24
22+00E	9.55	4.27	5.28	60.17	0.84	57,595	221,149	21126	9,445	11,681	13,306	187
23+00E	9.82	5.06	4.76	57.52	0.69	9,318	34,709	3407	1,757	1,650	1,996	24
24+00E	11.28	4.83	6.45	51.32	0.44	65,025	255,140	28787	12,322	16,465	13,094	113
25+00E	16.89	10.72	6.17	108.99	1.61	4,021	17,270	2916	1,851	1,065	1,882	28
26+00E	9.32	4.04	5.28	56.66	0.71	20,004	72,391	6745	2,926	3,819	4,102	51
27+00E	13.84	5.43	8.41	93.7	1.31	4,950	20,471	2834	1,112	1,722	1,918	27
28+00E	12.93	5.86	7.07	65.49	1.15	9,578	41,697	5393	2,445	2,948	2,731	48
29+00E	17.1	6.08	11.02	80.8	1.49	2,160	10,224	1749	622	1,127	826	15
30+00E	12.7	8.28	4.42	95.69	4.01	7,015	28,239	3586	2,339	1,247	2,702	113
TOTALS												
VOLUME (m <sup>3</sup> )		TONNES		Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)				
1,575,743		6,168,739		667,904	299,532	368,372	405,747	4,560				
AVERAGE GRADE												
Pb+Zn%		Pb%	Zn%	Ag (g/t)	Au (g/t)							
10.83		4.86	5.97	65.77	0.74							



VANGORDA SECTIONAL RESERVE CALCULATION (WITHIN PIT LIMITS)  
NONCARBONACEOUS ORE TYPES; CROSS-SECTIONS 02+00W - 30+00E

APRIL, 1990

Table 7

SECTION	Pb+Zn%	Pb%	Zn%	Ag(g/t)	Au(g/t)	VOLUME		METAL CONTENT (WITHIN PIT LIMITS)				
						(m <sup>3</sup> )	TONNES	Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)
02+00W	8.52	3.75	4.77	37.6	0.25	7,425	24,813	2,114	930	1,184	933	6
01+00W	0	0	0	0	0	0	0	0	0	0	0	0
00+00E	12.08	5.61	6.47	92.43	0.82	99,446	408,044	49,308	22,894	26,414	37,714	335
01+00E	10.88	3.87	7.01	78.83	0	6,350	24,970	2,718	967	1,751	1,968	0
02+00E	11.61	5.37	6.24	80.92	0.41	126,124	532,626	61,830	28,619	33,211	43,098	216
03+00E	10.57	4.57	6	64	0.59	65,133	267,992	28,323	12,246	16,078	17,151	159
04+00E	10.93	4.6	6.33	66.56	0.92	109,435	430,677	47,077	19,815	27,262	28,666	398
05+00E	11.6	5.19	6.42	69.71	1.08	48,805	201,192	23,347	10,437	12,910	14,026	216
06+00E	12.6	5.97	6.63	80.89	0.69	79,346	330,653	41,648	19,728	21,920	26,746	230
07+00E	9.21	4.14	5.07	60.35	0.9	50,175	213,134	19,638	8,823	10,815	12,862	191
08+00E	12.05	5.7	6.35	77	0.99	83,159	341,774	41,167	19,466	21,701	26,316	339
09+00E	11.03	5.2	5.83	60.95	1.21	11,767	48,897	5,393	2,541	2,851	2,980	59
10+00E	12.06	5.46	6.6	64.68	0.56	53,809	217,016	26,170	11,847	14,324	14,036	122
11+00E	11.61	5.18	6.43	66.77	0.94	37,350	158,876	18,440	8,227	10,212	10,608	149
12+00E	8.8	3.91	4.89	49.92	0.83	49,736	196,724	17,311	7,700	9,611	9,821	163
13+00E	13.57	6.73	6.84	91.46	1.32	10,404	41,813	5,673	2,815	2,858	3,824	55
14+00E	11.34	5.18	6.16	43.77	0.41	54,200	220,856	25,055	11,450	13,606	9,667	90
15+00E	10.21	4.57	5.64	60.05	0.6	16,953	64,880	6,627	2,966	3,661	3,896	39
16+00E	8.78	3.94	4.84	55.56	0.57	22,441	81,367	7,145	3,204	3,942	4,520	47
17+00E	12.88	5.99	6.89	74.41	1.01	16,110	65,743	8,466	3,935	4,530	4,892	66
18+00E	10.19	4.08	6.11	40.21	0.5	33,424	129,837	13,233	5,298	7,935	5,220	65
19+00E	11.19	4.96	6.23	65.89	0.91	15,012	57,404	6,424	2,846	3,579	3,783	52
20+00E	10.98	4.18	6.8	67.6	0.64	17,308	70,140	7,700	2,933	4,768	4,741	45
21+00E	10.33	4.53	5.8	69.47	1.01	4,529	18,140	1,874	822	1,052	1,260	18
22+00E	9.56	4.32	5.24	61.45	0.87	54,047	210,847	20,161	9,119	11,042	12,956	183
23+00E	9.82	5.06	4.76	57.52	0.69	9,318	34,709	3,407	1,757	1,650	1,996	24
24+00E	11.99	5.21	6.78	59.18	0.52	50,632	207,693	24,906	10,819	14,087	12,292	108
25+00E	16.89	10.72	6.17	108.99	1.61	4,021	17,270	2,916	1,851	1,065	1,882	28
26+00E	11.67	5.56	6.11	76.22	1.35	8,530	35,527	4,145	1,975	2,170	2,708	48
27+00E	13.84	5.43	8.41	93.7	1.31	4,950	20,471	2,833	1,112	1,722	1,918	27
28+00E	13.83	6.52	7.31	77.61	1.36	7,600	33,426	4,624	2,180	2,444	2,594	46
29+00E	17.1	6.08	11.02	80.8	1.49	1,188	5,623	962	342	620	454	8
30+00E	12.63	8.14	4.49	94.5	3.94	6,740	27,329	3,451	2,224	1,228	2,583	108
TOTALS												
VOLUME (m <sup>3</sup> )	TONNES		Pb+Zn (TONNES)	Pb (TONNES)	Zn (TONNES)	Ag (Kg)	Au (Kg)					
1,165,467	4,740,463		534,086	241,888	292,203	328,111	3,640					
AVERAGE GRADE FOR NONCARBONACEOUS ORE TYPES												
Pb+Zn (%)	Pb (%)	Zn (%)	Ag (g/t)	Au (g/t)								
11.27%	5.10%	6.16%	69.21	0.77								

