

VANGORDA DEPOSIT, ION VINTILA OPEN PIT, BENCH RESERVES BY ROCK TYPE

017899

BENCH	MINE MODEL ROCK CODE	ROCK TYPE	INCLUDED IN MET. COMPOSITE NUMBER	% OF BENCH	TONNES	% LEAD	% ZINC g/t	SILVER g/t	GOLD
14	1	4A	4	0%	0	0.000	0.000	0.000	0.000
14	2	4C	5	51%	16780	2.049	2.519	29.455	0.326
14	3	4EC	5	0%	0	0.000	0.000	0.000	0.000
14	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
14	5	4EG	1A,1B,2,3	49%	16290	3.474	5.566	51.661	0.468
14	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				33,070	2.751	4.020	40.393	0.396
15	1	4A	4	5%	6720	1.470	3.124	28.364	0.214
15	2	4C	5	2%	2600	1.997	2.622	28.496	0.306
15	3	4EC	5	11%	15450	2.040	2.666	29.519	0.543
15	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
15	5	4EG	1A,1B,2,3	83%	118280	3.566	4.953	48.167	0.618
15	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				143,050	3.274	4.578	44.865	0.585
16	1	4A	4	3%	8530	1.415	2.859	28.370	0.185
16	2	4C	5	0%	0	0.000	0.000	0.000	0.000
16	3	4EC	5	10%	29350	2.122	2.498	30.553	0.687
16	4	4E	NONE	4%	12020	1.810	2.702	39.345	0.000
16	5	4EG	1A,1B,2,3	83%	242250	3.827	4.991	51.160	0.600
16	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				292,150	3.502	4.584	47.938	0.572
17	1	4A	4	4%	15980	2.012	4.053	38.409	0.193
17	2	4C	5	0%	0	0.000	0.000	0.000	0.000
17	3	4EC	5	9%	36040	2.493	2.379	26.667	0.906
17	4	4E	NONE	9%	34110	1.958	3.032	43.680	0.000
17	5	4EG	1A,1B,2,3	78%	301170	3.841	4.900	51.619	0.680
17	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				387,300	3.474	4.466	48.053	0.621

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18	1	4A	4	4%	13090	1.695	3.076	32.763	0.461
18	2	4C	5	0%	0	0.000	0.000	0.000	0.000
18	3	4EC	5	9%	32300	2.478	2.170	32.452	0.767
18	4	4E	NONE	13%	46400	1.971	3.087	44.908	0.000
18	5	4EG	1A,1B,2,3	74%	263590	4.065	5.374	55.826	0.752
18	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				355,380	3.560	4.700	51.427	0.644
19	1	4A	4	13%	28450	2.255	4.259	35.661	0.646
19	2	4C	5	1%	1340	2.218	2.296	30.001	1.103
19	3	4EC	5	8%	16140	0.006	1.917	33.063	0.743
19	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
19	5	4EG	1A,1B,2,3	78%	167470	4.333	6.023	67.184	0.781
19	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				213,400	3.715	5.454	60.167	0.762
20	1	4A	4	23%	66130	2.572	4.109	32.282	0.382
20	2	4C	5	0%	0	0.000	0.000	0.000	0.000
20	3	4EC	5	1%	2970	2.001	2.067	33.998	0.814
20	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
20	5	4EG	1A,1B,2,3	76%	218400	4.712	6.484	67.517	0.680
20	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				287,500	4.192	5.892	59.066	0.613
21	1	4A	4	31%	92500	2.489	4.120	29.687	0.479
21	2	4C	5	0%	670	1.700	2.677	24.000	0.289
21	3	4EC	5	0%	0	0.000	0.000	0.000	0.000
21	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
21	5	4EG	1A,1B,2,3	61%	181150	4.409	6.385	61.208	0.634
21	6	4H	NONE	8%	24780	5.728	6.013	82.000	0.185
	ALL				299,100	3.918	5.645	53.099	0.548

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22	1	4A	4	38%	121530	2.592	3.877	34.116	0.621
22	2	4C	5	0%	660	1.581	2.503	26.000	0.342
22	3	4EC	5	5%	15840	2.083	2.647	33.854	0.780
22	4	4E	NONE	0%	740	1.934	2.096	28.000	0.422
22	5	4EG	1A,1B,2,3	57%	180280	4.784	6.580	63.556	0.537
22	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				319,050	3.802	5.336	50.707	0.580
23	1	4A	4	41%	152350	2.610	3.753	34.523	0.647
23	2	4C	5	0%	0	0.000	0.000	0.000	0.000
23	3	4EC	5	5%	18240	2.147	2.841	34.008	0.815
23	4	4E	NONE	1%	2910	1.977	2.220	27.499	0.404
23	5	4EG	1A,1B,2,3	54%	200590	4.851	6.740	65.890	0.627
23	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				374,090	3.784	5.298	51.262	0.643
24	1	4A	4	44%	145660	2.403	3.508	32.411	0.583
24	2	4C	5	0%	0	0.000	0.000	0.000	0.000
24	3	4EC	5	0%	0	0.000	0.000	0.000	0.000
24	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
24	5	4EG	1A,1B,2,3	56%	186250	4.610	6.080	66.962	0.877
24	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				331,910	3.641	4.951	51.799	0.748
25	1	4A	4	34%	105920	2.554	3.475	32.455	0.641
25	2	4C	5	0%	0	0.000	0.000	0.000	0.000
25	3	4EC	5	0%	0	0.000	0.000	0.000	0.000
25	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
25	5	4EG	1A,1B,2,3	66%	203540	4.718	5.911	67.300	0.758
25	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				309,460	3.977	5.077	55.373	0.718

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26	1	4A	4	16%	53110	2.494	3.401	32.073	0.652
26	2	4C	5	0%	0	0.000	0.000	0.000	0.000
26	3	4EC	5	0%	0	0.000	0.000	0.000	0.000
26	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
26	5	4EG	1A,1B,2,3	84%	269790	5.471	6.462	78.706	0.692
26	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				322,900	4.981	5.959	71.036	0.685
27	1	4A	4	19%	59840	2.388	3.532	33.469	0.495
27	2	4C	5	0%	0	0.000	0.000	0.000	0.000
27	3	4EC	5	0%	0	0.000	0.000	0.000	0.000
27	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
27	5	4EG	1A,1B,2,3	81%	249820	5.698	6.683	81.063	0.746
27	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				309,660	5.058	6.074	71.866	0.697
28	1	4A	4	8%	15180	2.147	3.239	31.309	0.554
28	2	4C	5	0%	0	0.000	0.000	0.000	0.000
28	3	4EC	5	2%	4220	2.463	2.057	24.000	0.758
28	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
28	5	4EG	1A,1B,2,3	90%	173720	5.592	6.754	81.226	0.666
28	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				193,120	5.253	6.375	76.052	0.659
29	1	4A	4	17%	47580	2.119	3.358	32.125	0.518
29	2	4C	5	2%	5330	2.306	1.979	25.661	0.804
29	3	4EC	5	1%	3330	2.491	1.890	25.000	0.809
29	4	4E	NONE	3%	9520	1.956	2.247	28.000	0.410
29	5	4EG	1A,1B,2,3	76%	206920	4.706	6.231	68.800	0.715
29	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				272,680	4.085	5.454	59.598	0.673

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30	1	4A	4	0%	1350	1.998	3.107	30.898	0.737
30	2	4C	5	7%	23690	2.809	1.624	29.828	1.176
30	3	4EC	5	0%	0	0.000	0.000	0.000	0.000
30	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
30	5	4EG	1A,1B,2,3	92%	298400	4.597	6.086	68.129	0.732
30	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				323,440	4.455	5.747	65.168	0.765
31	1	4A	4	2%	6990	1.874	3.371	29.482	0.637
31	2	4C	5	6%	22160	2.969	1.749	31.610	1.090
31	3	4EC	5	0%	0	0.000	0.000	0.000	0.000
31	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
31	5	4EG	1A,1B,2,3	85%	291860	4.412	5.708	64.566	0.763
31	6	4H	NONE	7%	23330	10.350	5.022	116.507	0.528
	ALL				344,340	4.670	5.359	65.252	0.766
32	1	4A	4	3%	6220	1.919	3.426	29.542	0.604
32	2	4C	5	5%	13400	2.706	1.756	29.354	1.043
32	3	4EC	5	7%	17930	2.640	2.199	37.210	1.564
32	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
32	5	4EG	1A,1B,2,3	82%	201710	4.350	5.441	64.223	0.737
32	6	4H	NONE	2%	5720	8.842	4.945	100.529	0.535
	ALL				244,980	4.178	4.939	60.306	0.806
33	1	4A	4	0%	720	1.791	3.348	27.995	0.623
33	2	4C	5	4%	5990	2.349	1.898	31.740	0.880
33	3	4EC	5	4%	6960	2.287	2.394	36.888	0.923
33	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
33	5	4EG	1A,1B,2,3	89%	148220	4.182	5.157	61.230	0.809
33	6	4H	NONE	3%	4650	9.657	5.009	109.502	0.441
	ALL				166,540	4.179	4.912	60.356	0.805

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34	1	4A	4	0%	0	0.000	0.000	0.000	0.000
34	2	4C	5	0%	240	2.436	1.696	28.000	1.025
34	3	4EC	5	13%	14230	2.211	2.791	37.279	1.278
34	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
34	5	4EG	1A,1B,2,3	87%	96620	4.092	4.975	58.558	0.847
34	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				111,090	3.847	4.688	55.766	0.903
35	1	4A	4	0%	0	0.000	0.000	0.000	0.000
35	2	4C	5	2%	90	2.333	1.738	27.834	1.017
35	3	4EC	5	7%	420	2.014	2.669	35.417	1.467
35	4	4E	NONE	0%	0	0.000	0.000	0.000	0.000
35	5	4EG	1A,1B,2,3	91%	5470	4.267	5.548	63.328	1.141
35	6	4H	NONE	0%	0	0.000	0.000	0.000	0.000
	ALL				5,980	4.080	5.288	60.834	1.162
ALL BENCHES:									
ALL	1	4A	4	17%	947,850	2.439	3.691	32.808	0.563
ALL	2	4C	5	2%	92,950	2.587	1.924	29.891	0.904
ALL	3	4EC	5	4%	213,420	2.137	2.404	31.895	0.875
ALL	4	4E	NONE	2%	105,700	1.947	2.919	41.759	0.051
ALL	5	4EG	1A,1B,2,3	75%	4,221,790	4.562	5.913	64.940	0.710
ALL	6	4H	NONE	1%	58,480	8.189	5.433	99.765	0.376
ALL	ALL				5,640,190	4.070	5.280	57.639	0.679

VANGORDA DEPOSIT, ION VINTILA PIT DESIGN
SUMMARY OF ORE TYPE BY BENCH

BENCH #	TONNES							PORTION OF ORE							PERCENT MINERALIZATION	
	ORE TYPE	4A	4C	4EC	4E	4EG	4H	BENCH TOTAL	4A	4C	4EC	4E	4EG	4H		BENCH
	COMP. #	4	5	5	NONE	1A,1B 2,3	NONE	ALL ORES	4	5	5	NONE	1A,1B 2,3	NONE		
14		16,780				16,290		33,070		51%			49%		14	
15	6,720	2,600	15,450			118,280		143,050	5%	2%	11%		83%		15	
16	8,530		29,350	12,020		242,250		292,150	3%		10%	4%	83%		16	
17	15,980		36,040	34,110		301,170		387,300	4%		9%	9%	78%		17	
18	13,090		32,300	46,400		263,590		355,380	4%		9%	13%	74%		18	
19	28,450	1,340	16,140			167,470		213,400	13%	1%	8%		78%		19	
20	66,130		2,970			218,400		287,500	23%		1%		76%		20	
21	92,500	670				181,150	24,780	299,100	31%	0%			61%	8%	21	
22	121,530	660	15,840	740		180,280		319,050	38%	0%	5%	0%	57%		22	
23	152,350		18,240	2,910		200,590		374,090	41%		5%	1%	54%		23	
24	145,660					186,250		331,910	44%				56%		24	
25	105,920					203,540		309,460	34%				66%		25	
26	53,110					269,790		322,900	16%				84%		26	
27	59,840					249,820		309,660	19%				81%		27	
28	15,180		4,220			173,720		193,120	8%		2%		90%		28	
29	47,580	5,330	3,330	9,520		206,920		272,680	17%	2%	1%	3%	76%		29	
30	1,350	23,690				298,400		323,440	0%	7%			92%		30	
31	6,990	22,160				291,860	23,330	344,340	2%	6%			85%	7%	31	
32	6,220	13,400	17,930			201,710	5,720	244,980	3%	5%	7%		82%	2%	32	
33	720	5,990	6,960			148,220	4,650	166,540	0%	4%	4%		89%	3%	33	
34		240	14,230			96,620		111,090		0%	13%		87%		34	
35		90	420			5,470		5,980		2%	7%		91%		35	
TOTAL	947,850	92,950	213,420	105,700	4,221,790	58,480	5,640,190		17%	2%	4%	2%	75%	1%	TOTAL	

NOTES:

EG ORE ON BENCHES 14 THRU 20 (FROM THE SOUTHEAST PART OF THE PIT) IS MOST LIKE COMPOSITE 2
 EG ORE ON BENCH 25 AND DEEPER (FROM THE NORTHWEST PART OF THE PIT) IS MOST LIKE COMPOSITE 3
 COMPOSITES 1A AND 1B ARE EG ORES SCATTERED AROUND THE PIT AND ARE A RELATIVELY MINOR PART OF THE ORE
 THE SHALLOWER ORES MAY BE 10 TO 20 % LIKE 1A AND 1B
 THE DEEPER ORES WOULD BE ONLY 5 % OR SO LIKE 1A AND 1B