

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Waste Tonnages 1092 to 1026 ele. I. Vintiliias Pit

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 9 Sept 1990 monthend Pit MERGED with VIV Ultimate Pit

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128
 BENCH TOTALS FOR WASTE

INCREMENTAL BENCH TOTALS

BENCH	CREST		TOE		VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [TONS x1000]	AVERAGE GRADES				ECONOMIC FACTOR [\$Cdn x1000]	
	[m	]	[m	]				[%Pb+Zn]	[%Pb	[%Zn	[Ag g/t]		[Au g/t]
46	1095.00		1092.00		77.55	3.661	283.88	7.558	3.347	4.211	4.389	.758	.00
47	1092.00		1089.00		66.80	3.666	244.91	7.395	3.293	4.101	4.223	.760	.00
48	1089.00		1086.00		67.13	3.682	247.15	7.074	3.179	3.895	3.985	.770	.00
49	1086.00		1083.00		67.17	3.779	253.81	7.137	3.214	3.923	4.014	.794	.00
50	1083.00		1080.00		69.03	3.751	258.95	7.025	3.150	3.875	3.949	.784	.00
51	1080.00		1077.00		63.77	3.806	242.70	7.249	3.250	3.999	4.040	.804	.00
52	1077.00		1074.00		66.11	3.881	256.55	7.394	3.323	4.071	4.251	.818	.00
53	1074.00		1071.00		59.63	3.904	232.79	7.746	3.460	4.286	4.436	.806	.00
54	1071.00		1068.00		57.56	3.945	227.07	7.704	3.479	4.225	4.517	.809	.00
55	1068.00		1065.00		41.57	3.975	165.23	7.847	3.591	4.256	4.625	.808	.00
56	1065.00		1062.00		41.98	3.957	166.13	7.661	3.502	4.159	4.529	.827	.00
57	1062.00		1059.00		40.45	3.962	160.25	7.447	3.396	4.051	4.468	.814	.00
58	1059.00		1056.00		40.97	3.906	160.02	6.345	2.887	3.458	3.932	.833	.00
59	1056.00		1053.00		3.01	3.708	11.16	1.920	.938	.982	1.751	.825	.00
60	1053.00		1050.00		.54	3.739	2.02	2.070	.994	1.075	1.858	.931	.00
61	1050.00		1047.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
62	1047.00		1044.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
63	1044.00		1041.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
64	1041.00		1038.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
65	1038.00		1035.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
66	1035.00		1032.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00		1029.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00		1026.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
TOTAL FOR ALL BENCHES					763.26	3.816	2912.62	7.330	3.298	4.032	4.230	.796	.00

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Waste Tonnages 1092 to 1026 ele. I. Vintillas Pit

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 9 Sept 1990 monthend Pit MERGED with VIV Ultimate Pit

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128
 BENCH TOTALS FOR ALL MATERIAL

INCREMENTAL BENCH TOTALS

BENCH	CREST [m]	TOE [m]	VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [\$Cdn x1000]
						[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
46	1095.00	1092.00	167.46	3.207	537.11	3.995	1.769	2.226	2.320	.400	.00
47	1092.00	1089.00	137.01	3.235	443.21	4.086	1.820	2.266	2.334	.420	.00
48	1089.00	1086.00	131.23	3.268	428.83	4.077	1.832	2.245	2.297	.444	.00
49	1086.00	1083.00	127.75	3.330	425.43	4.258	1.917	2.340	2.395	.474	.00
50	1083.00	1080.00	123.60	3.348	413.85	4.396	1.971	2.425	2.471	.491	.00
51	1080.00	1077.00	100.49	3.450	346.69	5.075	2.275	2.800	2.828	.563	.00
52	1077.00	1074.00	95.28	3.563	339.47	5.588	2.512	3.077	3.213	.618	.00
53	1074.00	1071.00	78.65	3.647	286.85	6.286	2.808	3.478	3.600	.654	.00
54	1071.00	1068.00	69.17	3.760	260.05	6.727	3.038	3.690	3.944	.706	.00
55	1068.00	1065.00	52.93	3.731	197.49	6.565	3.004	3.561	3.869	.676	.00
56	1065.00	1062.00	50.60	3.767	190.61	6.677	3.052	3.625	3.947	.720	.00
57	1062.00	1059.00	46.80	3.806	178.10	6.701	3.056	3.645	4.020	.732	.00
58	1059.00	1056.00	44.79	3.814	170.80	5.945	2.705	3.240	3.684	.780	.00
59	1056.00	1053.00	3.46	3.597	12.43	1.723	.842	.881	1.572	.741	.00
60	1053.00	1050.00	.67	3.563	2.39	1.743	.837	.906	1.565	.784	.00
61	1050.00	1047.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
62	1047.00	1044.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
63	1044.00	1041.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
64	1041.00	1038.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
65	1038.00	1035.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
66	1035.00	1032.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00	1029.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00	1026.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
TOTAL FOR ALL BENCHES			1229.87	3.442	4233.32	5.043	2.269	2.774	2.911	.548	.00

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Waste 1092 to 1026 Elevation J. Hendry's Pit

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 11 Vangorda Ultimate Pit JAMES HENDRY VJH MERGED with Topo.

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128
 CATEGORY : 1 : Vangorda Waste Volumes Rock type

CUT-OFF GRADES FOR THIS CATEGORY
 LABEL FROM TO
 %Pb+Zn .000 99.000

ROCK-TYPES IN THIS CATEGORY : 100 110 120 130 150 160 300 320

INCREMENTAL BENCH TOTALS

BENCH	CREST TOE		VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [#Cdn x1000]
	[m]	[m]				[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
46	1095.00	1092.00	150.00	2.829	424.35	.000	.000	.000	.000	.000	.00
47	1092.00	1089.00	151.81	2.827	429.19	.000	.000	.000	.000	.000	.00
48	1089.00	1086.00	131.07	2.832	371.15	.000	.000	.000	.000	.000	.00
49	1086.00	1083.00	128.36	2.829	363.18	.000	.000	.000	.000	.000	.00
50	1083.00	1080.00	103.61	2.838	294.04	.000	.000	.000	.000	.000	.00
51	1080.00	1077.00	100.25	2.827	283.41	.000	.000	.000	.000	.000	.00
52	1077.00	1074.00	75.91	2.841	215.68	.000	.000	.000	.000	.000	.00
53	1074.00	1071.00	70.13	2.839	199.11	.000	.000	.000	.000	.000	.00
54	1071.00	1068.00	51.21	2.840	145.42	.000	.000	.000	.000	.000	.00
55	1068.00	1065.00	51.64	2.839	146.59	.000	.000	.000	.000	.000	.00
56	1065.00	1062.00	37.86	2.840	107.52	.000	.000	.000	.000	.000	.00
57	1062.00	1059.00	36.16	2.837	102.58	.000	.000	.000	.000	.000	.00
58	1059.00	1056.00	20.31	2.849	57.87	.000	.000	.000	.000	.000	.00
59	1056.00	1053.00	19.28	2.849	54.93	.000	.000	.000	.000	.000	.00
60	1053.00	1050.00	16.81	2.849	47.90	.000	.000	.000	.000	.000	.00
61	1050.00	1047.00	15.89	2.849	45.26	.000	.000	.000	.000	.000	.00
62	1047.00	1044.00	13.30	2.849	37.90	.000	.000	.000	.000	.000	.00
63	1044.00	1041.00	12.23	2.849	34.84	.000	.000	.000	.000	.000	.00
64	1041.00	1038.00	3.84	2.849	10.94	.000	.000	.000	.000	.000	.00
65	1038.00	1035.00	3.98	2.849	11.33	.000	.000	.000	.000	.000	.00
66	1035.00	1032.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00	1029.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00	1026.00	.00	.000	.00	.000	.000	.000	.000	.000	.00

TOTAL FOR ALL BENCHES 1193.63 2.834 3383.20 .000 .000 .000 .000 .000 .000 .00

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Waste 1092 to 1026 Elevation J. Hendry's Pit

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 11 Vangorda Ultimate Pit JAMES HENDRY VJH MERGED with Topo.

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128
 BENCH TOTALS FOR WASTE

INCREMENTAL BENCH TOTALS

BENCH	CREST		TOE		VOLUME		DENSITY		TONNAGE		AVERAGE GRADES					ECONOMIC FACTOR	
	[m	]	[m	]	[bcm	x1000]	[tn/bcm]	[TONS x1000]	[%Pb+Zn]	[%Pb	]	[%Zn	]	[Ag g/t]	[Au g/t]	[#Cdn	x1000]
46	1095.00		1092.00		63.09		3.656		230.69	8.238	3.637	4.601	4.712	.760			.00
47	1092.00		1089.00		59.62		3.658		218.08	8.039	3.553	4.486	4.523	.767			.00
48	1089.00		1086.00		53.20		3.661		194.77	7.933	3.531	4.402	4.342	.732			.00
49	1086.00		1083.00		54.50		3.784		206.23	8.269	3.694	4.576	4.515	.761			.00
50	1083.00		1080.00		49.70		3.747		186.26	8.586	3.823	4.763	4.582	.714			.00
51	1080.00		1077.00		51.02		3.831		195.45	8.686	3.894	4.792	4.688	.786			.00
52	1077.00		1074.00		55.05		3.960		217.98	8.765	3.923	4.841	4.924	.810			.00
53	1074.00		1071.00		59.63		3.911		233.25	8.075	3.618	4.457	4.586	.813			.00
54	1071.00		1068.00		53.92		4.017		216.56	7.911	3.594	4.317	4.636	.841			.00
55	1068.00		1065.00		51.95		3.989		207.23	7.380	3.369	4.011	4.404	.860			.00
56	1065.00		1062.00		40.27		3.996		160.93	7.839	3.555	4.285	4.584	.851			.00
57	1062.00		1059.00		41.55		3.929		163.22	7.068	3.215	3.853	4.205	.845			.00
58	1059.00		1056.00		32.57		3.871		126.08	6.313	2.883	3.430	3.879	.872			.00
59	1056.00		1053.00		32.53		3.687		119.96	4.362	2.017	2.345	2.676	.945			.00
60	1053.00		1050.00		15.02		3.824		57.43	5.341	2.454	2.887	3.378	1.136			.00
61	1050.00		1047.00		15.35		3.880		59.55	5.323	2.405	2.918	3.387	1.122			.00
62	1047.00		1044.00		5.78		4.137		23.91	7.583	3.366	4.217	4.650	1.374			.00
63	1044.00		1041.00		6.32		4.140		26.16	7.776	3.458	4.318	4.682	1.362			.00
64	1041.00		1038.00		1.78		4.124		7.35	7.315	3.057	4.258	4.795	1.364			.00
65	1038.00		1035.00		1.65		4.154		6.84	8.140	3.498	4.642	5.121	1.450			.00
66	1035.00		1032.00		.00		.000		.00	.000	.000	.000	.000	.000			.00
67	1032.00		1029.00		.00		.000		.00	.000	.000	.000	.000	.000			.00
68	1029.00		1026.00		.00		.000		.00	.000	.000	.000	.000	.000			.00
TOTAL FOR ALL BENCHES					744.50		3.839		2857.93	7.729	3.470	4.260	4.413	.831			.00

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Waste 1092 to 1026 Elevation J. Hendry's Pit

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 11 Vangorda Ultimate Pit JAMES HENDRY VJH MERGED with Topo.

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128
 BENCH TOTALS FOR ALL MATERIAL

INCREMENTAL BENCH TOTALS

BENCH	CREST	TOE	VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [#Cdn x1000]
	[m]	[m]				[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
46	1095.00	1092.00	213.09	3.074	655.04	2.901	1.281	1.620	1.659	.268	.00
47	1092.00	1089.00	211.43	3.061	647.27	2.708	1.197	1.511	1.524	.258	.00
48	1089.00	1086.00	184.27	3.071	565.92	2.730	1.215	1.515	1.494	.252	.00
49	1086.00	1083.00	182.85	3.114	569.41	2.995	1.338	1.657	1.635	.275	.00
50	1083.00	1080.00	153.32	3.133	480.30	3.329	1.482	1.847	1.777	.277	.00
51	1080.00	1077.00	151.27	3.166	478.87	3.545	1.589	1.956	1.913	.321	.00
52	1077.00	1074.00	130.95	3.312	433.66	4.405	1.972	2.433	2.475	.407	.00
53	1074.00	1071.00	129.76	3.332	432.36	4.356	1.952	2.404	2.474	.438	.00
54	1071.00	1068.00	105.12	3.443	361.98	4.733	2.150	2.582	2.774	.503	.00
55	1068.00	1065.00	103.59	3.416	353.82	4.322	1.973	2.349	2.579	.504	.00
56	1065.00	1062.00	78.13	3.436	268.45	4.699	2.131	2.569	2.748	.510	.00
57	1062.00	1059.00	77.70	3.421	265.79	4.340	1.974	2.366	2.582	.519	.00
58	1059.00	1056.00	52.88	3.478	183.95	4.327	1.976	2.351	2.659	.597	.00
59	1056.00	1053.00	51.81	3.375	174.89	2.992	1.383	1.608	1.836	.648	.00
60	1053.00	1050.00	31.83	3.309	105.33	2.912	1.338	1.574	1.842	.620	.00
61	1050.00	1047.00	31.24	3.355	104.81	3.024	1.367	1.658	1.924	.638	.00
62	1047.00	1044.00	19.08	3.239	61.81	2.933	1.302	1.631	1.799	.531	.00
63	1044.00	1041.00	18.55	3.289	61.00	3.335	1.483	1.852	2.008	.584	.00
64	1041.00	1038.00	5.62	3.253	18.30	2.940	1.229	1.712	1.927	.548	.00
65	1038.00	1035.00	5.62	3.231	18.17	3.063	1.316	1.747	1.927	.545	.00
66	1035.00	1032.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00	1029.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00	1026.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
TOTAL FOR ALL BENCHES			1938.12	3.220	6241.14	3.539	1.589	1.951	2.021	.380	.00

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Reserves 1092 to 1026 Elevations I. Vintila's Pit

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 9 Sept 1990 monthend Pit MERGED with VIV Ultimate Pit

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128
 CATEGORY : 1 : Rock type 20 Reserves

CUT-OFF GRADES FOR THIS CATEGORY
 LABEL FROM TO
 %Pb+Zn .000 99.000

ROCK-TYPES IN THIS CATEGORY : 20 21 22 23

INCREMENTAL BENCH TOTALS

BENCH	CREST		TOE		VOLUME		DENSITY	TONNAGE		AVERAGE GRADES					ECONOMIC	
	[m	]	[m	]	[bcm	x1000]	[tn/bcm]	[TONS x1000]	[%Pb+Zn]	[%Pb	]	[%Zn	]	[Ag g/t]	[Au g/t]	[%Cdn x1000]
46	1095.00		1092.00		22.08		2.798	61.79	4.255	1.678		2.577		2.221	.489	.00
47	1092.00		1089.00		18.73		2.798	52.40	4.594	1.832		2.762		2.387	.494	.00
48	1089.00		1086.00		16.32		2.818	46.00	4.711	1.823		2.888		2.474	.488	.00
49	1086.00		1083.00		9.90		2.789	27.62	3.825	1.434		2.391		2.005	.447	.00
50	1083.00		1080.00		11.33		2.786	31.58	4.235	1.607		2.628		2.339	.459	.00
51	1080.00		1077.00		8.64		2.811	24.29	4.593	1.660		2.933		2.477	.422	.00
52	1077.00		1074.00		5.13		2.781	14.28	4.545	1.576		2.969		2.357	.398	.00
53	1074.00		1071.00		7.00		2.930	20.50	4.964	1.673		3.291		2.373	.299	.00
54	1071.00		1068.00		4.91		2.948	14.46	4.392	1.556		2.836		2.066	.290	.00
55	1068.00		1065.00		2.51		2.994	7.53	4.207	1.607		2.600		2.183	.300	.00
56	1065.00		1062.00		1.32		2.965	3.92	2.794	1.100		1.695		1.527	.196	.00
57	1062.00		1059.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
58	1059.00		1056.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
59	1056.00		1053.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
60	1053.00		1050.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
61	1050.00		1047.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
62	1047.00		1044.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
63	1044.00		1041.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
64	1041.00		1038.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
65	1038.00		1035.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
66	1035.00		1032.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
67	1032.00		1029.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
68	1029.00		1026.00		.00		.000	.00	.000	.000		.000		.000	.000	.00
TOTAL FOR ALL BENCHES					107.88		2.821	304.35	4.416	1.675		2.741		2.300	.443	.00

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Reserves 1092 to 1026 Elevations I. Vintila's Pit

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 9 Sept 1990 monthend Pit MERGED with VIV Ultimate Pit

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128
 CATEGORY : 2 : Rock Types 30, 40 Reserves

CUT-OFF GRADES FOR THIS CATEGORY
 LABEL FROM TO
 %Pb+Zn .000 99.000

ROCK-TYPES IN THIS CATEGORY : 30 31 32 33 40 41 42 43

INCREMENTAL BENCH TOTALS

BENCH	CREST		TOE	VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [TONS x1000]	AVERAGE GRADES				ECONOMIC FACTOR [\$Cdn x1000]	
	[m]	[m]					[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]		[Au g/t]
46	1095.00	1092.00		12.04	3.618	43.56	1.663	.839	.824	1.663	.777	.00
47	1092.00	1089.00		11.43	3.626	41.45	1.548	.827	.722	1.564	.803	.00
48	1089.00	1086.00		16.06	3.648	58.59	1.717	.878	.839	1.651	.859	.00
49	1086.00	1083.00		20.09	3.692	74.19	1.898	.941	.957	1.745	.879	.00
50	1083.00	1080.00		20.94	3.689	77.26	1.964	.958	1.006	1.737	.900	.00
51	1080.00	1077.00		18.15	3.642	66.11	1.880	.935	.945	1.595	.877	.00
52	1077.00	1074.00		20.86	3.630	75.73	1.891	.952	.940	1.492	.861	.00
53	1074.00	1071.00		13.33	3.693	49.21	2.114	1.057	1.057	1.526	.853	.00
54	1071.00	1068.00		12.25	3.729	45.69	2.208	1.095	1.113	1.570	.968	.00
55	1068.00	1065.00		7.23	3.701	26.77	1.880	.959	.921	1.675	1.035	.00
56	1065.00	1062.00		8.78	3.615	31.74	2.085	1.075	1.011	1.802	1.040	.00
57	1062.00	1059.00		10.73	3.602	38.65	1.906	.979	.928	1.778	.920	.00
58	1059.00	1056.00		16.42	3.610	59.27	1.968	.924	1.044	1.680	.823	.00
59	1056.00	1053.00		2.98	3.703	11.04	1.838	.904	.934	1.713	.821	.00
60	1053.00	1050.00		.54	3.739	2.02	2.070	.994	1.075	1.858	.931	.00
61	1050.00	1047.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
62	1047.00	1044.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
63	1044.00	1041.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
64	1041.00	1038.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
65	1038.00	1035.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
66	1035.00	1032.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00	1029.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00	1026.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
TOTAL FOR ALL BENCHES				191.84	3.656	701.27	1.902	.950	.951	1.648	.881	.00

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Reserves 1092 to 1026 Elevations I. Vintila's Pit

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 9 Sept 1990 monthend Pit MERGED with VIV Ultimate Pit

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128
 CATEGORY : 3 : Rock Types 50,60,70,80 Reserves

CUT-OFF GRADES FOR THIS CATEGORY
 LABEL FROM TO
 %Pb+Zn .000 99.000

ROCK-TYPES IN THIS CATEGORY : 50 60 61 62 63 70 80

INCREMENTAL BENCH TOTALS

BENCH	CREST		TOE	VOLUME		DENSITY	TONNAGE		AVERAGE GRADES				ECONOMIC FACTOR [\$Cdn x1000]	
	[m]		[bcm	x1000]		[tn/bcm]	[TONS x1000]	[%Pb+Zn]	[%Pb]	[%Zn		]	[Ag g/t]	[Au g/t]
46	1095.00		1092.00	43.43		4.111	178.54	10.138	4.536		5.602	5.805	.846	.00
47	1092.00		1089.00	36.64		4.123	151.06	9.970	4.477		5.493	5.590	.840	.00
48	1089.00		1086.00	34.74		4.103	142.56	10.038	4.562		5.476	5.432	.824	.00
49	1086.00		1083.00	37.17		4.089	152.00	10.296	4.647		5.649	5.487	.816	.00
50	1083.00		1080.00	36.75		4.084	150.11	10.217	4.603		5.614	5.426	.793	.00
51	1080.00		1077.00	36.98		4.119	152.30	10.004	4.509		5.495	5.350	.833	.00
52	1077.00		1074.00	40.11		4.152	166.54	10.141	4.552		5.589	5.668	.834	.00
53	1074.00		1071.00	39.31		4.149	163.08	9.795	4.410		5.385	5.573	.856	.00
54	1071.00		1068.00	40.40		4.131	166.92	9.496	4.298		5.198	5.536	.810	.00
55	1068.00		1065.00	31.82		4.115	130.93	9.276	4.243		5.033	5.368	.791	.00
56	1065.00		1062.00	31.89		4.092	130.48	9.163	4.164		4.998	5.282	.794	.00
57	1062.00		1059.00	29.72		4.092	121.60	9.209	4.164		5.044	5.323	.780	.00
58	1059.00		1056.00	24.55		4.104	100.76	8.920	4.042		4.877	5.257	.839	.00
59	1056.00		1053.00	.03		4.305	.12	9.653	4.144		5.509	5.351	1.201	.00
60	1053.00		1050.00	.00		.000	.00	.000	.000		.000	.000	.000	.00
61	1050.00		1047.00	.00		.000	.00	.000	.000		.000	.000	.000	.00
62	1047.00		1044.00	.00		.000	.00	.000	.000		.000	.000	.000	.00
63	1044.00		1041.00	.00		.000	.00	.000	.000		.000	.000	.000	.00
64	1041.00		1038.00	.00		.000	.00	.000	.000		.000	.000	.000	.00
65	1038.00		1035.00	.00		.000	.00	.000	.000		.000	.000	.000	.00
66	1035.00		1032.00	.00		.000	.00	.000	.000		.000	.000	.000	.00
67	1032.00		1029.00	.00		.000	.00	.000	.000		.000	.000	.000	.00
68	1029.00		1026.00	.00		.000	.00	.000	.000		.000	.000	.000	.00
TOTAL FOR ALL BENCHES				463.54		4.114	1907.00	9.791	4.420		5.371	5.488	.821	.00

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Reserves 1092 to 1026 Elevations I. Vintila's Pit

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 9 Sept 1990 monthend Pit MERGED with VIV Ultimate Pit

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128
 BENCH TOTALS FOR ALL MATERIAL

INCREMENTAL BENCH TOTALS

BENCH	CREST		TOE		VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [TONS x1000]	AVERAGE GRADES				ECONOMIC FACTOR [\$Cdn x1000]	
	[m]	[m]				[%Pb+Zn]	[%Pb]	[%Zn		]	[Ag g/t]	[Au g/t]
46	1095.00		1092.00		167.46	3.207	537.11	3.995	1.769	2.226	2.320	.400	.00
47	1092.00		1089.00		137.01	3.235	443.21	4.086	1.820	2.266	2.334	.420	.00
48	1089.00		1086.00		131.23	3.268	428.83	4.077	1.832	2.245	2.297	.444	.00
49	1086.00		1083.00		127.75	3.330	425.43	4.258	1.917	2.340	2.395	.474	.00
50	1083.00		1080.00		123.60	3.348	413.85	4.396	1.971	2.425	2.471	.491	.00
51	1080.00		1077.00		100.49	3.450	346.69	5.075	2.275	2.800	2.828	.563	.00
52	1077.00		1074.00		95.28	3.563	339.47	5.588	2.512	3.077	3.213	.618	.00
53	1074.00		1071.00		78.65	3.647	286.85	6.286	2.808	3.478	3.600	.654	.00
54	1071.00		1068.00		69.17	3.760	260.05	6.727	3.038	3.690	3.944	.706	.00
55	1068.00		1065.00		52.93	3.731	197.49	6.565	3.004	3.561	3.869	.676	.00
56	1065.00		1062.00		50.60	3.767	190.61	6.677	3.052	3.625	3.947	.720	.00
57	1062.00		1059.00		46.80	3.806	178.10	6.701	3.056	3.645	4.020	.732	.00
58	1059.00		1056.00		44.79	3.814	170.80	5.945	2.705	3.240	3.684	.780	.00
59	1056.00		1053.00		3.46	3.597	12.43	1.723	.842	.881	1.572	.741	.00
60	1053.00		1050.00		.67	3.563	2.39	1.743	.837	.906	1.565	.784	.00
61	1050.00		1047.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
62	1047.00		1044.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
63	1044.00		1041.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
64	1041.00		1038.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
65	1038.00		1035.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
66	1035.00		1032.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00		1029.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00		1026.00		.00	.000	.00	.000	.000	.000	.000	.000	.00
TOTAL FOR ALL BENCHES					1229.87	3.442	4233.32	5.043	2.269	2.774	2.911	.548	.00