

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Mining Reserves - NW SECTOR

TOTAL FOR ALL BENCHES

TOP ELEVATION : 1230.00 [m]
 BOTTOM ELEVATION : 990.00 [m]

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 3 V3 - VIV Ultimate Pit Dec 89 (Ion Vintila POLYSECT)

BENCHES USED :

BENCH 1 TO 80

BLOCKS USED :

COLUMNS 1 TO 100 ROWS 1 TO 66

INCREMENTAL RESULTS

CUT-OFF GRADES FROM	TO	ROCK-TYPE CODE	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]		
6.000	50.000	20	106.43	2.907	309.42	7.179	2.855	4.325	38.57	.598	.00
6.000	50.000	40	2.37	3.763	8.91	6.703	2.867	3.836	29.86	.769	.00
6.000	50.000	60	757.44	4.123	3122.81	10.171	4.581	5.590	56.88	.772	.00
6.000	50.000	80	8.17	3.921	32.02	10.499	4.685	5.814	57.29	.834	.00
5.000	6.000	20	88.00	2.833	249.25	5.479	2.128	3.351	29.02	.473	.00
5.000	6.000	40	4.72	3.732	17.63	5.507	2.403	3.104	25.03	.808	.00
5.000	6.000	60	14.54	3.951	57.45	5.593	2.896	2.697	31.69	1.073	.00
5.000	6.000	80	.20	3.730	.73	5.603	3.326	2.276	36.11	1.562	.00
4.000	5.000	20	103.16	2.828	291.69	4.505	1.721	2.785	24.12	.419	.00
4.000	5.000	40	9.51	3.767	35.82	4.442	2.082	2.360	24.43	.914	.00
4.000	5.000	60	4.07	3.916	15.93	4.643	2.421	2.222	30.67	.888	.00
4.000	5.000	80	.31	3.585	1.11	4.464	2.323	2.141	27.90	1.541	.00
3.000	4.000	20	68.17	2.813	191.78	3.521	1.347	2.174	18.74	.426	.00
3.000	4.000	40	27.39	3.644	99.80	3.365	1.609	1.755	21.77	.861	.00
3.000	4.000	60	.55	4.166	2.29	3.587	1.860	1.727	30.79	1.022	.00
.010	3.000	20	74.59	2.783	207.60	2.127	.824	1.304	14.75	.422	.00
.010	3.000	40	232.82	3.660	852.19	1.717	.854	.863	15.49	.912	.00
.010	3.000	60	.14	3.646	.50	2.374	1.510	.864	24.48	.791	.00
.000	.010	20	21.12	2.880	60.83	.000	.000	.000	.00	.000	.00
.000	.010	40	.41	3.720	1.53	.000	.000	.000	.00	.000	.00
.000	.010	60	6.82	4.159	28.37	.000	.000	.000	.00	.000	.00
.000	9999.000	300	2197.83	2.099	4613.37	.000	.000	.000	.00	.000	.00
.000	9999.000	100	708.46	2.700	1912.85	.000	.000	.000	.00	.000	.00
.000	9999.000	110	64.23	2.700	173.41	.000	.000	.000	.00	.000	.00
.000	9999.000	120	1171.14	2.849	3336.55	.000	.000	.000	.00	.000	.00
.000	9999.000	***	234.19	.798	186.82	.000	.000	.000	.00	.000	.00

TOTAL 5906.77 2.677 15810.69 2.571 1.141 1.429 14.66 .255 .00

MINING RESERVE EVALUATION

DESCRIPTION : Vangorda Mining Reserves

TOTAL FOR ALL BENCHES

TOP ELEVATION : 1230.00 [m]
 BOTTOM ELEVATION : 990.00 [m]

TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
 BOTTOM SURFACE GRID RECORD : 3 V3 - VIV Ultimate Pit Dec 89 (Ion Vintila POLYSECT)

BENCHES USED :
 BENCH 1 TO 80
 BLOCKS USED :
 COLUMNS 1 TO 100 ROWS 1 TO 66
 CUMULATIVE RESULTS

CUT-OFF FROM	GRADES TO	ROCK-TYPE CODE	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]		
6.000	50.000	20	106.43	2.907	309.42	7.179	2.855	4.325	38.57	.598	.00
6.000	50.000	30	106.43	2.907	309.42	7.179	2.855	4.325	38.57	.598	.00
6.000	50.000	40	108.80	2.926	318.34	7.166	2.855	4.311	38.33	.603	.00
6.000	50.000	50	108.80	2.926	318.34	7.166	2.855	4.311	38.33	.603	.00
6.000	50.000	60	866.24	3.973	3441.14	9.893	4.421	5.472	55.16	.757	.00
6.000	50.000	70	866.24	3.973	3441.14	9.893	4.421	5.472	55.16	.757	.00
6.000	50.000	80	874.40	3.972	3473.16	9.899	4.424	5.475	55.18	.757	.00
5.000	6.000	20	962.40	3.868	3722.42	9.603	4.270	5.333	53.43	.738	.00
5.000	6.000	30	962.40	3.868	3722.42	9.603	4.270	5.333	53.43	.738	.00
5.000	6.000	40	967.13	3.867	3740.04	9.583	4.261	5.322	53.30	.739	.00
5.000	6.000	50	967.13	3.867	3740.04	9.583	4.261	5.322	53.30	.739	.00
5.000	6.000	60	981.66	3.868	3797.49	9.523	4.240	5.283	52.97	.744	.00
5.000	6.000	70	981.66	3.868	3797.49	9.523	4.240	5.283	52.97	.744	.00
5.000	6.000	80	981.86	3.868	3798.22	9.522	4.240	5.282	52.97	.744	.00
4.000	5.000	20	1085.02	3.769	4089.92	9.164	4.060	5.104	50.91	.721	.00
4.000	5.000	30	1085.02	3.769	4089.92	9.164	4.060	5.104	50.91	.721	.00
4.000	5.000	40	1094.53	3.769	4125.74	9.123	4.043	5.080	50.68	.722	.00
4.000	5.000	50	1094.53	3.769	4125.74	9.123	4.043	5.080	50.68	.722	.00
4.000	5.000	60	1098.60	3.770	4141.67	9.106	4.037	5.069	50.60	.723	.00
4.000	5.000	70	1098.60	3.770	4141.67	9.106	4.037	5.069	50.60	.723	.00
4.000	5.000	80	1098.91	3.770	4142.78	9.105	4.037	5.068	50.60	.723	.00
3.000	4.000	20	1167.08	3.714	4334.57	8.858	3.918	4.940	49.19	.710	.00
3.000	4.000	30	1167.08	3.714	4334.57	8.858	3.918	4.940	49.19	.710	.00
3.000	4.000	40	1194.47	3.712	4434.37	8.734	3.866	4.869	48.57	.713	.00
3.000	4.000	50	1194.47	3.712	4434.37	8.734	3.866	4.869	48.57	.713	.00
3.000	4.000	60	1195.02	3.713	4436.66	8.732	3.865	4.867	48.56	.713	.00
3.000	4.000	70	1195.02	3.713	4436.66	8.732	3.865	4.867	48.56	.713	.00
3.000	4.000	80	1195.02	3.713	4436.66	8.732	3.865	4.867	48.56	.713	.00
.010	3.000	20	1269.61	3.658	4644.26	8.436	3.729	4.708	47.05	.700	.00

.010	3.000	40	1502.43	3.658	5496.45	7.395	3.283	4.112	42.16	.733	.00
.010	3.000	50	1502.43	3.658	5496.45	7.395	3.283	4.112	42.16	.733	.00
.010	3.000	60	1502.57	3.658	5496.95	7.394	3.283	4.111	42.16	.733	.00
.010	3.000	70	1502.57	3.658	5496.95	7.394	3.283	4.111	42.16	.733	.00
.010	3.000	80	1502.57	3.658	5496.95	7.394	3.283	4.111	42.16	.733	.00
.000	.010	20	1523.69	3.648	5557.78	7.313	3.247	4.066	41.69	.725	.00
.000	.010	30	1523.69	3.648	5557.78	7.313	3.247	4.066	41.69	.725	.00
.000	.010	40	1524.10	3.648	5559.31	7.311	3.246	4.065	41.68	.725	.00
.000	.010	50	1524.10	3.648	5559.31	7.311	3.246	4.065	41.68	.725	.00
.000	.010	60	1530.93	3.650	5587.68	7.274	3.230	4.045	41.47	.721	.00
.000	.010	70	1530.93	3.650	5587.68	7.274	3.230	4.045	41.47	.721	.00
.000	.010	80	1530.93	3.650	5587.68	7.274	3.230	4.045	41.47	.721	.00
.000	9999.000	300	3728.76	2.736	10201.06	3.984	1.769	2.215	22.72	.395	.00
.000	9999.000	320	3728.76	2.736	10201.06	3.984	1.769	2.215	22.72	.395	.00
.000	9999.000	100	4437.22	2.730	12113.90	3.355	1.490	1.866	19.13	.333	.00
.000	9999.000	110	4501.45	2.730	12287.32	3.308	1.469	1.839	18.86	.328	.00
.000	9999.000	120	5672.58	2.754	15623.87	2.602	1.155	1.446	14.83	.258	.00
.000	9999.000	***	5906.77	2.677	15810.69	2.571	1.141	1.429	14.66	.255	.00

TOTAL			5906.77	2.677	15810.69	2.571	1.141	1.429	14.66	.255	.00
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MINING RESERVE EVALUATION

DESCRIPTION : Mining Reserves SE Sector

TOTAL FOR ALL BENCHES

TOP ELEVATION : 1230.00 [m]
 BOTTOM ELEVATION : 990.00 [m]

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BENCHES USED :

BENCH 1 TO 80

BLOCKS USED :

COLUMNS 1 TO 100 ROWS 67 TO 126

INCREMENTAL RESULTS

CUT-OFF GRADES FROM	TO	ROCK-TYPE CODE	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]	
6.000	50.000	20	36.48	3.198	116.64	9.045	3.254	5.791	43.84	.701	.00
6.000	50.000	40	2.51	3.825	9.60	6.716	3.005	3.710	41.08	1.124	.00
6.000	50.000	50	.55	3.469	1.90	9.068	4.257	4.811	55.57	.879	.00
6.000	50.000	60	404.93	4.013	1625.04	10.259	4.623	5.636	57.27	.926	.00
5.000	6.000	20	6.14	3.027	18.60	5.547	2.213	3.334	26.51	.631	.00
5.000	6.000	40	3.29	3.617	11.91	5.269	2.345	2.923	25.69	.897	.00
5.000	6.000	60	11.93	3.863	46.08	5.556	2.535	3.021	37.50	.843	.00
4.000	5.000	20	3.84	3.091	11.87	4.556	1.933	2.623	23.53	.583	.00
4.000	5.000	40	7.36	3.651	26.86	4.371	1.977	2.394	24.91	.933	.00
4.000	5.000	60	5.26	3.879	20.39	4.526	2.041	2.485	31.03	.752	.00
3.000	4.000	20	1.66	3.096	5.14	3.545	1.493	2.052	18.51	.652	.00
3.000	4.000	40	34.81	3.657	127.31	3.352	1.490	1.862	21.72	1.002	.00
3.000	4.000	60	.55	4.054	2.22	3.802	1.663	2.139	24.67	.928	.00
.010	3.000	20	7.68	2.908	22.34	1.429	.604	.825	11.35	.370	.00
.010	3.000	40	227.53	3.631	826.13	1.876	.866	1.010	17.32	.899	.00
.010	3.000	60	.27	3.653	1.00	2.710	1.455	1.255	34.44	.490	.00
.000	.010	20	5.12	2.880	14.73	.000	.000	.000	.00	.000	.00
.000	.010	40	.69	3.720	2.55	.000	.000	.000	.00	.000	.00
.000	.010	60	2.06	4.159	8.56	.000	.000	.000	.00	.000	.00
.000	9999.000	300	857.12	2.099	1799.12	.000	.000	.000	.00	.000	.00
.000	9999.000	100	3.22	2.700	8.70	.000	.000	.000	.00	.000	.00
.000	9999.000	120	641.56	2.849	1827.80	.000	.000	.000	.00	.000	.00
.000	9999.000	110	52.32	2.700	141.26	.000	.000	.000	.00	.000	.00
.000	9999.000	***	195.79	.437	85.57	.000	.000	.000	.00	.000	.00

TOTAL 2512.66 2.691 6761.33 3.037 1.355 1.681 17.79 .383 .00

MINING RESERVE EVALUATION

DESCRIPTION : Mining Reserves SE Sector

TOTAL FOR ALL BENCHES

TOP ELEVATION : 1230.00 [m]
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TOP SURFACE GRID RECORD : 1 Vangorda 9009 Topographic Surface
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BENCHES USED :

BENCH 1 TO 80

BLOCKS USED :

COLUMNS 1 TO 100 ROWS 67 TO 126

CUMULATIVE RESULTS

PC-MINE VERSION 1.20
 SERIAL NO : 20000
 24/10/1990

GEMCOM SERVICES INC.
 Vangorda Deposit - V9009 Interpretation

SOFTWARE BY GEMCOM SERVICES INC
 MODULE 4.11
 PAGE 1

MINING RESERVE EVALUATION

DESCRIPTION : SE SECTOT - SULPHIDE RESERVES

TOTAL FOR ALL BENCHES

TOP ELEVATION : 1230.00 [m]
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 BENCH 1 TO 80
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 COLUMNS 1 TO 100 ROWS 67 TO 126
 INCREMENTAL RESULTS

CUT-OFF GRADES FROM	TO	ROCK-TYPE CODE	VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR
						[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
.010	50.000	20	55.80	3.129	174.59	7.231	2.662	4.569	35.71	.641	.00
.010	50.000	40	275.50	3.636	1001.80	2.217	1.013	1.204	18.41	.915	.00
.010	50.000	50	.55	3.469	1.90	9.068	4.257	4.811	55.57	.879	.00
.010	50.000	60	422.94	4.007	1694.74	10.050	4.529	5.520	56.36	.921	.00
.000	9999.000	****	1757.86	2.212	3888.31	.000	.000	.000	.00	.000	.00
TOTAL			2512.66	2.691	6761.34	3.037	1.355	1.681	17.79	.383	.00

MINING RESERVE EVALUATION

DESCRIPTION : SE SECTOT - SULPHIDE RESERVES

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CUT-OFF GRADES FROM	GRADES TO	ROCK-TYPE CODE	VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [TONS x1000]	A V E R A G E G R A D E S					ECONOMIC FACTOR [\$Cdn x1000]
						[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
.010	50.000	20	55.80	3.129	174.59	7.231	2.662	4.569	35.71	.641	.00
.010	50.000	40	331.31	3.551	1176.40	2.961	1.258	1.703	20.97	.874	.00
.010	50.000	50	331.85	3.551	1178.30	2.971	1.263	1.708	21.03	.874	.00
.010	50.000	60	754.79	3.806	2873.03	7.147	3.190	3.957	41.87	.902	.00
.010	50.000	80	754.79	3.806	2873.03	7.147	3.190	3.957	41.87	.902	.00
.000	9999.000	***	2512.66	2.691	6761.34	3.037	1.355	1.681	17.79	.383	.00
TOTAL			2512.66	2.691	6761.34	3.037	1.355	1.681	17.79	.383	.00