

003492

MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 1 F1 - Start-up of Mining Pit Surface (January 1986)  
 BOTTOM SURFACE GRID RECORD : 2 F2 - 1987 Year End Cut Pit Surface (December 31 1987 Survey)

BLOCKS USED :  
 COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR WASTE FROM .0000 [%Pb+Zn] TO 4.0000 [%Pb+Zn]

BENCH	CREST	TOE	VOLUME	DENSITY	TONNAGE	AVERAGE GRADES				ECONOMIC FACTOR	
	[ft ]	[ft ]	[bcf x1000]	[tn/bcf]	[ TONS x1000]	[%Pb+Zn]	[%Pb ]	[%Zn ]	[Ag g/m]	[Au g/m]	[Cdn x1000]
1	4270.00	4230.00	.88	.000	.00	.000	.000	.000	.0	.000	.00
2	4230.00	4190.00	19.45	.028	.54	.000	.000	.000	.0	.000	.00
3	4190.00	4150.00	113.15	.074	8.32	.000	.000	.000	.0	.000	.00
4	4150.00	4110.00	165.31	.038	6.31	.000	.000	.000	.0	.000	.00
5	4110.00	4070.00	356.25	.012	4.29	.000	.000	.000	.0	.000	.00
6	4070.00	4030.00	894.61	.011	9.93	.000	.000	.000	.0	.000	.00
7	4030.00	3990.00	2171.10	.006	13.69	.000	.000	.000	.0	.000	.00
8	3990.00	3950.00	4490.72	.067	299.05	.046	.015	.031	.3	.001	.00
9	3950.00	3910.00	4925.65	.049	243.30	.048	.015	.033	.3	.002	.00
10	3910.00	3890.00	16566.16	.071	1169.18	.018	.007	.011	.2	.003	.00
11	3890.00	3870.00	20536.20	.072	1480.07	.003	.001	.002	.0	.000	.00
12	3870.00	3850.00	45375.72	.075	3388.96	.000	.000	.000	.0	.000	.00
13	3850.00	3830.00	48449.39	.075	3656.75	.003	.002	.002	.0	.000	.00
14	3830.00	3810.00	44508.52	.076	3368.52	.014	.005	.009	.1	.001	.00
15	3810.00	3790.00	41503.80	.075	3128.77	.016	.006	.010	.1	.001	.00
16	3790.00	3770.00	37343.70	.076	2822.41	.008	.003	.005	.1	.000	.00
17	3770.00	3750.00	35629.62	.076	2692.90	.021	.009	.012	.2	.001	.00
18	3750.00	3730.00	33625.59	.075	2520.31	.022	.012	.010	.3	.004	.00
19	3730.00	3710.00	31639.24	.076	2396.00	.109	.050	.058	.8	.010	.00
20	3710.00	3690.00	29212.66	.076	2232.31	.184	.068	.116	1.1	.015	.00
21	3690.00	3670.00	28887.35	.076	2196.73	.137	.047	.090	.7	.017	.00
22	3670.00	3650.00	27645.33	.076	2110.89	.155	.054	.102	.8	.013	.00
23	3650.00	3630.00	26459.89	.076	2013.98	.149	.052	.097	.9	.011	.00
24	3630.00	3610.00	17570.38	.076	1338.20	.180	.059	.121	1.0	.013	.00
25	3610.00	3590.00	17026.72	.077	1313.60	.253	.067	.185	1.3	.015	.00
26	3590.00	3570.00	12884.30	.081	1037.81	.297	.062	.235	1.1	.015	.00
27	3570.00	3550.00	9828.31	.083	819.44	.466	.105	.360	2.0	.025	.00
28	3550.00	3530.00	5908.66	.085	501.79	.733	.230	.503	3.6	.039	.00
29	3530.00	3510.00	2310.78	.093	214.38	1.201	.519	.682	7.4	.060	.00
30	3510.00	3490.00	1412.63	.108	152.96	2.515	1.179	1.336	17.3	.118	.00
31	3490.00	3470.00	1422.36	.094	133.37	2.287	1.069	1.218	18.6	.092	.00
32	3470.00	3450.00	1483.35	.077	114.70	1.284	.453	.831	12.0	.408	.00
33	3450.00	3430.00	1249.98	.077	95.99	.280	.084	.196	1.5	.023	.00
34	3430.00	3410.00	475.59	.076	36.24	.050	.020	.030	.3	.003	.00
35	3410.00	3390.00	.00	.000	.00	.000	.000	.000	.0	.000	.00

37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
38	3350.00	3330.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
39	3330.00	3310.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00

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TOTAL FOR ALL BENCHES	552093.30	.075	41521.66	.112	.040	.072	.7	.009	.00
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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 1 F1 - Start-up of Mining Pit Surface (January 1986)  
 BOTTOM SURFACE GRID RECORD : 2 F2 - 1987 Year End Cut Pit Surface (December 31 1987 Survey)

BLOCKS USED :

COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR STOCKPILE FROM 4.0000 [%Pb+Zn] TO 5.0000 [%Pb+Zn]

BENCH	CREST		TOE		VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	A V E R A G E G R A D E S				ECONOMIC FACTOR [Ccln x1000]	
	[ft	]	[ft	]				[%Pb+Zn]	[%Pb	]	[%Zn		]
1	4270.00		4230.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
2	4230.00		4190.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
3	4190.00		4150.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
4	4150.00		4110.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
5	4110.00		4070.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
6	4070.00		4030.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
7	4030.00		3990.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
8	3990.00		3950.00		68.95	.077	5.34	4.443	1.369	3.075	20.7	.086	.00
9	3950.00		3910.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
10	3910.00		3890.00		83.98	.088	7.43	4.698	2.129	2.570	43.0	.171	.00
11	3890.00		3870.00		152.05	.087	13.23	4.589	2.023	2.567	38.4	.161	.00
12	3870.00		3850.00		425.20	.094	39.88	4.277	1.502	2.775	26.7	.092	.00
13	3850.00		3830.00		143.21	.085	12.19	4.660	1.607	3.053	31.4	.304	.00
14	3830.00		3810.00		35.36	.086	3.06	4.388	1.613	2.775	30.8	.119	.00
15	3810.00		3790.00		19.45	.085	1.66	4.085	1.482	2.604	33.2	.201	.00
16	3790.00		3770.00		371.28	.099	36.86	4.495	1.698	2.797	28.2	.228	.00
17	3770.00		3750.00		359.79	.091	32.60	4.660	1.674	2.986	31.3	.310	.00
18	3750.00		3730.00		297.91	.094	27.96	4.511	1.566	2.945	31.2	.288	.00
19	3730.00		3710.00		202.44	.090	18.17	4.592	1.505	3.087	27.4	.221	.00
20	3710.00		3690.00		333.27	.089	29.58	4.569	1.523	3.046	27.4	.221	.00
21	3690.00		3670.00		24.75	.099	2.45	4.726	1.177	3.549	16.1	.195	.00
22	3670.00		3650.00		153.82	.099	15.28	4.417	1.407	3.010	24.6	.051	.00
23	3650.00		3630.00		108.73	.107	11.59	4.571	1.568	3.004	19.6	.034	.00
24	3630.00		3610.00		53.04	.105	5.60	4.370	1.398	2.972	19.6	.198	.00
25	3610.00		3590.00		53.04	.090	4.78	4.492	.309	4.183	11.0	.194	.00
26	3590.00		3570.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
27	3570.00		3550.00		17.68	.097	1.72	4.518	1.786	2.732	43.0	.858	.00
28	3550.00		3530.00		66.30	.101	6.72	4.768	1.766	3.002	31.8	.347	.00
29	3530.00		3510.00		154.70	.102	15.74	4.409	1.540	2.869	18.8	.078	.00
30	3510.00		3490.00		416.36	.093	38.71	4.413	1.449	2.963	19.5	.153	.00
31	3490.00		3470.00		711.62	.089	63.67	4.639	1.628	3.011	25.0	.156	.00
32	3470.00		3450.00		290.84	.094	27.31	4.488	1.455	3.034	18.8	.188	.00
33	3450.00		3430.00		157.35	.096	15.09	4.479	2.139	2.339	25.8	.142	.00
34	3430.00		3410.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
35	3410.00		3390.00		.00	.000	.00	.000	.000	.000	.0	.000	.00

37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
38	3350.00	3330.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
39	3330.00	3310.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00

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TOTAL FOR ALL BENCHES	4701.11	.093	436.58	4.518	1.587	2.931	26.1	.185	.00
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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 1 F1 - Start-up of Mining Pit Surface (January 1986)  
 BOTTOM SURFACE GRID RECORD : 2 F2 - 1987 Year End Cut Pit Surface (December 31 1987 Survey)

BLOCKS USED :  
 COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR ORE ABOVE 5.0000 [%Pb+Zn]

BENCH	CREST		TOE		VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	AVERAGE GRADES				ECONOMIC FACTOR [Cdn x1000]
	[ft	] [ft	] [ft	] [ft				[%Pb+Zn]	[%Pb	] [%Zn	] [Ag g/m]	
1	4270.00	4230.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
2	4230.00	4190.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
3	4190.00	4150.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
4	4150.00	4110.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
5	4110.00	4070.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
6	4070.00	4030.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
7	4030.00	3990.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
8	3990.00	3950.00	106.08	.078	8.31	5.325	1.659	3.666	23.1	.030	.00	.00
9	3950.00	3910.00	28.29	.079	2.22	5.590	1.641	3.948	24.9	.098	.00	.00
10	3910.00	3890.00	188.29	.089	16.69	5.557	2.465	3.092	50.2	.065	.00	.00
11	3890.00	3870.00	251.94	.088	22.28	6.192	2.896	3.296	50.9	.057	.00	.00
12	3870.00	3850.00	162.66	.112	18.20	9.065	3.415	5.650	45.8	.048	.00	.00
13	3850.00	3830.00	331.50	.095	31.61	10.971	3.938	7.033	48.3	.018	.00	.00
14	3830.00	3810.00	777.92	.106	82.43	10.112	3.522	6.590	47.1	.130	.00	.00
15	3810.00	3790.00	1554.07	.114	177.03	9.860	3.483	6.378	39.4	.195	.00	.00
16	3790.00	3770.00	2379.73	.110	261.60	8.527	3.193	5.334	41.5	.285	.00	.00
17	3770.00	3750.00	2552.11	.110	280.72	9.190	3.602	5.588	43.6	.267	.00	.00
18	3750.00	3730.00	2948.14	.114	337.06	9.000	3.427	5.573	44.4	.191	.00	.00
19	3730.00	3710.00	2919.85	.107	313.38	7.231	2.826	4.405	41.8	.172	.00	.00
20	3710.00	3690.00	1601.81	.110	176.70	8.171	3.009	5.162	39.1	.175	.00	.00
21	3690.00	3670.00	1196.05	.106	126.38	7.600	2.835	4.765	36.3	.141	.00	.00
22	3670.00	3650.00	498.58	.114	56.67	8.103	3.615	4.489	47.9	.151	.00	.00
23	3650.00	3630.00	1112.96	.116	129.26	7.991	3.301	4.690	32.1	.200	.00	.00
24	3630.00	3610.00	1266.77	.115	145.61	8.097	3.088	5.008	27.9	.234	.00	.00
25	3610.00	3590.00	1750.32	.114	199.40	7.699	2.921	4.779	31.2	.206	.00	.00
26	3590.00	3570.00	1300.36	.120	155.56	8.459	3.421	5.038	35.2	.172	.00	.00
27	3570.00	3550.00	2342.60	.118	276.69	9.343	3.897	5.445	44.6	.112	.00	.00
28	3550.00	3530.00	4067.28	.122	494.72	10.008	3.928	6.080	40.4	.132	.00	.00
29	3530.00	3510.00	5619.59	.118	660.98	9.870	4.004	5.866	47.2	.144	.00	.00
30	3510.00	3490.00	4513.70	.118	532.67	9.613	4.247	5.367	55.9	.128	.00	.00
31	3490.00	3470.00	3219.53	.112	359.24	8.045	3.450	4.595	39.9	.101	.00	.00
32	3470.00	3450.00	2377.08	.120	286.31	7.999	3.335	4.664	37.4	.062	.00	.00
33	3450.00	3430.00	1655.73	.126	208.05	9.938	4.033	5.905	47.4	.039	.00	.00
34	3430.00	3410.00	38.90	.127	4.94	7.648	3.194	4.454	28.9	.070	.00	.00
35	3410.00	3390.00	.00	.000	.00	.000	.000	.000	.0	.000	.00	.00

37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
38	3350.00	3330.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
39	3330.00	3310.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00

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TOTAL FOR ALL BENCHES                    46761.83                    .115                    5364.71                    8.925                    3.573                    5.352                    42.7                    .154                    .00

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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 1 F1 - Start-up of Mining Pit Surface (January 1986)  
 BOTTOM SURFACE GRID RECORD : 2 F2 - 1987 Year End Cut Pit Surface (December 31 1987 Survey)

BLOCKS USED :

COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR ALL MATERIAL

BENCH	CREST	TOE	VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	A V E R A G E G R A D E S					ECONOMIC FACTOR [Cdn x1000]
	[ft ]	[ft ]				[%Pb+Zn]	[%Pb ]	[%Zn ]	[Ag g/m]	[Au g/m]	
1	4270.00	4230.00	.88	.000	.00	.000	.000	.000	.0	.000	.00
2	4230.00	4190.00	19.45	.028	.54	.000	.000	.000	.0	.000	.00
3	4190.00	4150.00	113.15	.074	8.32	.000	.000	.000	.0	.000	.00
4	4150.00	4110.00	165.31	.038	6.31	.000	.000	.000	.0	.000	.00
5	4110.00	4070.00	356.25	.012	4.29	.000	.000	.000	.0	.000	.00
6	4070.00	4030.00	894.61	.011	9.93	.000	.000	.000	.0	.000	.00
7	4030.00	3990.00	2171.10	.006	13.69	.000	.000	.000	.0	.000	.00
8	3990.00	3950.00	4665.75	.067	312.70	.261	.082	.180	1.2	.004	.00
9	3950.00	3910.00	4953.94	.050	245.52	.099	.030	.069	.5	.003	.00
10	3910.00	3890.00	16838.43	.071	1193.30	.124	.055	.070	1.1	.004	.00
11	3890.00	3870.00	20940.19	.072	1515.58	.134	.061	.073	1.1	.002	.00
12	3870.00	3850.00	45963.58	.075	3447.03	.097	.035	.062	.6	.001	.00
13	3850.00	3830.00	48924.10	.076	3700.55	.112	.041	.072	.5	.001	.00
14	3830.00	3810.00	45321.80	.076	3454.00	.259	.090	.169	1.3	.004	.00
15	3810.00	3790.00	43077.32	.077	3307.45	.545	.193	.352	2.2	.011	.00
16	3790.00	3770.00	40094.70	.078	3120.86	.775	.291	.484	3.9	.027	.00
17	3770.00	3750.00	38541.52	.078	3006.22	.928	.363	.565	4.6	.030	.00
18	3750.00	3730.00	36871.64	.078	2885.32	1.114	.426	.688	5.7	.029	.00
19	3730.00	3710.00	34761.53	.078	2727.56	.957	.379	.578	5.7	.030	.00
20	3710.00	3690.00	31147.74	.078	2438.59	.816	.299	.517	4.2	.029	.00
21	3690.00	3670.00	30108.16	.077	2325.56	.548	.200	.348	2.7	.024	.00
22	3670.00	3650.00	28297.72	.077	2182.84	.392	.156	.236	2.2	.017	.00
23	3650.00	3630.00	27681.58	.078	2154.83	.643	.255	.388	2.9	.022	.00
24	3630.00	3610.00	18890.20	.079	1489.40	.970	.360	.610	3.7	.035	.00
25	3610.00	3590.00	18830.08	.081	1517.78	1.244	.443	.801	5.2	.040	.00
26	3590.00	3570.00	14184.66	.084	1193.37	1.361	.500	.861	5.5	.036	.00
27	3570.00	3550.00	12188.59	.090	1097.85	2.709	1.064	1.646	12.8	.048	.00
28	3550.00	3530.00	10042.24	.100	1003.22	5.334	2.064	3.270	21.9	.087	.00
29	3530.00	3510.00	8085.06	.110	891.10	7.688	3.122	4.566	37.1	.122	.00
30	3510.00	3490.00	6342.70	.114	724.35	7.836	3.449	4.387	45.8	.127	.00
31	3490.00	3470.00	5353.50	.104	556.27	6.275	2.671	3.604	33.1	.105	.00
32	3470.00	3450.00	4151.26	.103	428.31	5.977	2.443	3.534	29.4	.162	.00
33	3450.00	3430.00	3063.06	.104	319.13	6.775	2.756	4.019	32.6	.039	.00
34	3430.00	3410.00	514.49	.080	41.18	.962	.401	.561	3.7	.011	.00
35	3410.00	3390.00	0.00	.000	0.00	.000	.000	.000	.0	.000	.00



TOTAL FOR ALL BENCHES												
37	3370.00	3350.00	.00	.00	.00	.00	47322.96	.455	.697	5.7	.027	.00
38	3350.00	3330.00	.00	.00	.00	.00	1.152	.455	.697	5.7	.027	.00
39	3330.00	3310.00	.00	.00	.00	.00	47322.96	.455	.697	5.7	.027	.00
40	3310.00	3290.00	.00	.00	.00	.00	1.152	.455	.697	5.7	.027	.00
41	3290.00	3270.00	.00	.00	.00	.00	47322.96	.455	.697	5.7	.027	.00
42	3270.00	3250.00	.00	.00	.00	.00	1.152	.455	.697	5.7	.027	.00
43	3250.00	3230.00	.00	.00	.00	.00	47322.96	.455	.697	5.7	.027	.00
44	3230.00	3210.00	.00	.00	.00	.00	1.152	.455	.697	5.7	.027	.00
45	3210.00	3190.00	.00	.00	.00	.00	47322.96	.455	.697	5.7	.027	.00
46	3190.00	3170.00	.00	.00	.00	.00	1.152	.455	.697	5.7	.027	.00
47	3170.00	3150.00	.00	.00	.00	.00	47322.96	.455	.697	5.7	.027	.00
48	3150.00	3130.00	.00	.00	.00	.00	1.152	.455	.697	5.7	.027	.00
49	3130.00	3110.00	.00	.00	.00	.00	47322.96	.455	.697	5.7	.027	.00
50	3110.00	3090.00	.00	.00	.00	.00	1.152	.455	.697	5.7	.027	.00

PC-MINE VERSION 1.20  
 SERIAL NO : 20000  
 18/ 1/1990

GEMCOM SERVICES INC.  
 F8805 Model

MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 2 F2 - 1987 Year End Cut Pit Surface  
 BOTTOM SURFACE GRID RECORD : 3 F3 - 1988 Year End Cut Pit Surface

BLOCKS USED :

COLUMNS 1 TO 128 ROWS 1 TO 128

BENCH TOTALS FOR WASTE FROM .0000 [%Pb+Zn] TO 4.0000 [%Pb+Zn]

BENCH	CREST [ft]	TOE [ft]	VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	[%Pb+Zn]
1	4270.00	4230.00	2703.27	.046	124.60	.000
2	4230.00	4190.00	7338.08	.064	471.08	.000
3	4190.00	4150.00	7683.73	.063	483.02	.000
4	4150.00	4110.00	7431.79	.064	479.33	.000
5	4110.00	4070.00	9003.54	.063	566.49	.000
6	4070.00	4030.00	8717.12	.059	516.03	.000
7	4030.00	3990.00	12024.17	.061	727.99	.000
8	3990.00	3950.00	12663.30	.068	865.26	.000
9	3950.00	3910.00	6276.40	.069	431.36	.000
10	3910.00	3890.00	6378.94	.076	482.75	.000
11	3890.00	3870.00	7031.34	.075	528.70	.003
12	3870.00	3850.00	9492.39	.076	723.40	.033
13	3850.00	3830.00	9552.50	.076	723.86	.000
14	3830.00	3810.00	9160.89	.076	695.35	.001
15	3810.00	3790.00	10374.62	.076	787.46	.001
16	3790.00	3770.00	9242.22	.076	701.49	.000
17	3770.00	3750.00	8392.70	.076	637.01	.000
18	3750.00	3730.00	703.66	.076	53.44	.004
19	3730.00	3710.00	123.76	.077	9.51	.131
20	3710.00	3690.00	161.77	.076	12.30	.024
21	3690.00	3670.00	186.52	.073	13.52	.000
22	3670.00	3650.00	543.66	.075	40.73	.000
23	3650.00	3630.00	745.21	.074	55.47	.008
24	3630.00	3610.00	8846.19	.076	673.46	.013
25	3610.00	3590.00	9915.83	.076	753.74	.006
26	3590.00	3570.00	12219.53	.077	936.90	.058
27	3570.00	3550.00	10736.18	.078	839.39	.050
28	3550.00	3530.00	7489.25	.081	604.25	.225
29	3530.00	3510.00	6005.90	.085	511.11	.931
30	3510.00	3490.00	3758.77	.095	356.37	1.344
31	3490.00	3470.00	2311.66	.104	240.22	1.883
32	3470.00	3450.00	1676.06	.095	158.97	2.295
33	3450.00	3430.00	216.58	.080	17.41	.590
34	3430.00	3410.00	228.07	.083	18.98	.369
35	3410.00	3390.00	100.00	.000	0.00	.000

37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
38	3350.00	3330.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
39	3330.00	3310.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00

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TOTAL FOR ALL BENCHES                    209455.80                    .073                    15250.88                    .136                    .062                    .074                    1.0                    .004                    .00

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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 2 F2 - 1987 Year End Cut Pit Surface (December 31 1987 Survey)  
 BOTTOM SURFACE GRID RECORD : 3 F3 - 1988 Year End Cut Pit Surface (December 31 1988 survey)

BLOCKS USED :

COLUMNS 1 TO 128 ROWS 1 TO 128

BENCH TOTALS FOR STOCKPILE FROM 4.0000 [%Pb+Zn] TO 5.0000 [%Pb+Zn]

BENCH	CREST [ft ]	TOE [ft ]	VOLUME [bcf x1000]	DENSITY [tn/bcf]	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/m]	[Au g/m]	
1	4270.00	4230.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
2	4230.00	4190.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
3	4190.00	4150.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
4	4150.00	4110.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
5	4110.00	4070.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
6	4070.00	4030.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
7	4030.00	3990.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
8	3990.00	3950.00	1.77	.078	.14	4.405	1.357	3.048	20.7	.086	.00
9	3950.00	3910.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
10	3910.00	3890.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
11	3890.00	3870.00	18.56	.089	1.65	4.364	1.849	2.515	35.0	.162	.00
12	3870.00	3850.00	10.61	.083	.88	4.327	2.377	1.950	44.8	.060	.00
13	3850.00	3830.00	42.43	.083	3.51	4.635	1.742	2.893	36.5	.722	.00
14	3830.00	3810.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
15	3810.00	3790.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
16	3790.00	3770.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
17	3770.00	3750.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
18	3750.00	3730.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
19	3730.00	3710.00	14.14	.080	1.14	4.616	1.381	3.234	25.9	.225	.00
20	3710.00	3690.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
21	3690.00	3670.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
22	3670.00	3650.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
23	3650.00	3630.00	5.30	.097	.52	4.830	1.448	3.382	12.8	.000	.00
24	3630.00	3610.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
25	3610.00	3590.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
26	3590.00	3570.00	53.04	.078	4.15	4.398	1.273	3.124	23.1	.305	.00
27	3570.00	3550.00	72.49	.095	6.90	4.711	1.956	2.755	37.3	.038	.00
28	3550.00	3530.00	39.78	.093	3.71	4.654	1.743	2.911	32.1	.144	.00
29	3530.00	3510.00	35.36	.087	3.07	4.594	1.836	2.758	34.3	.000	.00
30	3510.00	3490.00	434.04	.102	44.41	4.528	1.948	2.580	28.5	.098	.00
31	3490.00	3470.00	490.62	.103	50.69	4.444	1.916	2.528	27.6	.007	.00
32	3470.00	3450.00	1370.20	.089	121.26	4.469	1.544	2.926	28.3	.036	.00
33	3450.00	3430.00	22.98	.087	1.99	4.430	1.488	2.942	33.7	.093	.00
34	3430.00	3410.00	122.88	.095	11.64	4.519	1.565	2.954	27.0	.000	.00
35	3410.00	3390.00	50.00	.000	5.00	4.500	1.500	2.900	25.0	.000	.00

37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
38	3350.00	3320.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
39	3330.00	3310.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00

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TOTAL FOR ALL BENCHES	2793.44	.093	260.98	4.489	1.703	2.785	28.7	.056	.00
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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 2 F2 - 1987 Year End Cut Pit Surface (December 31 1987 Survey)  
 BOTTOM SURFACE GRID RECORD : 3 F3 - 1988 Year End Cut Pit Surface (December 31 1988 survey)

BLOCKS USED :  
 COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR ORE ABOVE 5.0000 [%Pb+Zn]

BENCH	CREST		TOE		VOLUME		DENSITY	TONNAGE		AVERAGE GRADES				ECONOMIC FACTOR		
	[ft	]	[ft	]	[bcf	x1000]	[tn/bcf]	[ TONS x1000]	[%Pb+Zn]	[%Pb	]	[%Zn	]	[Ag g/m]	[Au g/m]	[Cdn x1000]
1	4270.00		4230.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
2	4230.00		4190.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
3	4190.00		4150.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
4	4150.00		4110.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
5	4110.00		4070.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
6	4070.00		4030.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
7	4030.00		3990.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
8	3990.00		3950.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
9	3950.00		3910.00		.88		.079	.07	5.291	1.620		3.671		23.7	.107	.00
10	3910.00		3890.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
11	3890.00		3870.00		38.01		.086	3.27	6.115	2.673		3.443		55.5	.038	.00
12	3870.00		3850.00		52.16		.088	4.58	7.032	2.819		4.213		64.1	.464	.00
13	3850.00		3830.00		19.45		.086	1.68	6.391	2.508		3.883		54.1	.498	.00
14	3830.00		3810.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
15	3810.00		3790.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
16	3790.00		3770.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
17	3770.00		3750.00		5.30		.112	.60	11.015	4.125		6.890		58.4	.422	.00
18	3750.00		3730.00		11.49		.089	1.02	6.722	2.507		4.215		41.8	.304	.00
19	3730.00		3710.00		61.88		.092	5.66	5.631	2.171		3.460		34.8	.217	.00
20	3710.00		3690.00		6.19		.096	.59	5.883	2.090		3.792		35.1	.293	.00
21	3690.00		3670.00		5.30		.083	.44	6.147	1.799		4.348		29.1	.150	.00
22	3670.00		3650.00		1.77		.082	.14	6.421	2.746		3.675		36.1	.191	.00
23	3650.00		3630.00		3.54		.097	.34	5.272	1.523		3.749		14.5	.000	.00
24	3630.00		3610.00		.00		.000	.00	.000	.000		.000		.0	.000	.00
25	3610.00		3590.00		304.98		.123	37.47	11.296	4.790		6.506		70.1	.013	.00
26	3590.00		3570.00		1953.64		.117	229.46	11.488	5.058		6.431		68.9	.216	.00
27	3570.00		3550.00		3040.08		.113	344.70	10.629	4.890		5.739		64.1	.181	.00
28	3550.00		3530.00		4317.46		.114	490.81	9.657	4.466		5.191		66.3	.164	.00
29	3530.00		3510.00		5311.07		.112	592.45	9.504	4.067		5.437		59.5	.107	.00
30	3510.00		3490.00		6850.12		.110	751.55	10.449	4.315		6.134		54.5	.068	.00
31	3490.00		3470.00		7190.46		.112	805.38	10.717	4.554		6.163		56.5	.075	.00
32	3470.00		3450.00		5633.73		.119	671.16	9.708	4.094		5.615		50.9	.073	.00
33	3450.00		3430.00		394.26		.123	48.62	9.224	3.743		5.481		40.9	.076	.00
34	3430.00		3410.00		1112.07		.126	140.47	7.576	3.000		4.576		29.6	.068	.00
35	3410.00		3390.00		210.00		.124	52.07	7.577	3.777		5.000		21.7	.077	.00

37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
38	3350.00	3330.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
39	3330.00	3310.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00

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TOTAL FOR ALL BENCHES                    36733.73                    .114                    4182.54                    10.058                    4.323                    5.735                    56.7                    .105                    .00

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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 2 F2 - 1987 Year End Cut Pit Surface (December 31 1987 Survey)  
 BOTTOM SURFACE GRID RECORD : 3 F3 - 1988 Year End Cut Pit Surface (December 31 1988 survey)

BLOCKS USED :

COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR ALL MATERIAL

BENCH	CREST		TOE		VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	A V E R A G E G R A D E S					ECONOMIC FACTOR [Cdn x1000]
	[ft	]	[ft	]				[%Pb+Zn]	[%Pb	]	[%Zn	]	
1	4270.00		4230.00		2703.27	.046	124.60	.000	.000	.000	.0	.000	.00
2	4230.00		4190.00		7338.08	.064	471.08	.000	.000	.000	.0	.000	.00
3	4190.00		4150.00		7683.73	.063	483.02	.000	.000	.000	.0	.000	.00
4	4150.00		4110.00		7431.79	.064	479.33	.000	.000	.000	.0	.000	.00
5	4110.00		4070.00		9003.54	.063	566.49	.000	.000	.000	.0	.000	.00
6	4070.00		4030.00		8717.12	.059	516.03	.000	.000	.000	.0	.000	.00
7	4030.00		3990.00		12024.17	.061	727.99	.000	.000	.000	.0	.000	.00
8	3990.00		3950.00		12665.07	.068	865.40	.001	.000	.001	.0	.000	.00
9	3950.00		3910.00		6277.28	.069	431.43	.001	.000	.001	.0	.000	.00
10	3910.00		3890.00		6378.94	.076	482.75	.000	.000	.000	.0	.000	.00
11	3890.00		3870.00		7087.91	.075	533.62	.054	.023	.031	.5	.001	.00
12	3870.00		3850.00		9555.16	.076	728.86	.083	.033	.050	.7	.005	.00
13	3850.00		3830.00		9614.38	.076	729.05	.037	.014	.023	.3	.005	.00
14	3830.00		3810.00		9160.89	.076	695.35	.001	.000	.001	.0	.000	.00
15	3810.00		3790.00		10374.62	.076	787.46	.001	.000	.000	.0	.000	.00
16	3790.00		3770.00		9242.22	.076	701.49	.000	.000	.000	.0	.000	.00
17	3770.00		3750.00		8398.00	.076	637.60	.010	.004	.006	.1	.000	.00
18	3750.00		3730.00		715.16	.076	54.47	.130	.049	.081	.9	.006	.00
19	3730.00		3710.00		199.78	.082	16.31	2.353	.895	1.458	14.6	1.03	.00
20	3710.00		3690.00		167.96	.077	12.90	.293	.106	.187	1.7	.016	.00
21	3690.00		3670.00		191.83	.073	13.97	.195	.057	.138	.9	.005	.00
22	3670.00		3650.00		545.43	.075	40.87	.023	.010	.013	.1	.001	.00
23	3650.00		3630.00		754.05	.075	56.32	.084	.024	.059	.2	.001	.00
24	3630.00		3610.00		8846.19	.076	673.46	.013	.004	.009	.1	.000	.00
25	3610.00		3590.00		10220.81	.077	791.21	.541	.229	.311	3.4	.001	.00
26	3590.00		3570.00		14226.21	.082	1170.50	2.314	1.014	1.301	13.9	.048	.00
27	3570.00		3550.00		13848.74	.086	1190.99	3.139	1.440	1.699	19.0	.053	.00
28	3550.00		3530.00		11846.48	.093	1098.78	4.453	2.055	2.398	30.6	.075	.00
29	3530.00		3510.00		11352.33	.097	1106.62	5.531	2.360	3.171	34.5	.070	.00
30	3510.00		3490.00		11042.93	.104	1152.33	7.405	3.089	4.316	40.0	.066	.00
31	3490.00		3470.00		9992.74	.110	1096.29	13.491	3.651	4.840	46.4	.058	.00
32	3470.00		3450.00		8680.00	.110	951.39	7.802	3.255	4.547	42.3	.063	.00
33	3450.00		3430.00		633.83	.107	68.03	6.873	2.765	4.108	31.4	.061	.00
34	3430.00		3410.00		1463.02	.117	171.09	6.569	2.584	3.985	26.5	.056	.00

37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
38	3350.00	3330.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
39	3330.00	3310.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00

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TOTAL FOR ALL BENCHES	248983.00	.079	19694.40	2.301	.9819	1.312	13.2	.026	.00
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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 3 F3 - 1988 Year End Cut Pit Surface (December 31 1988 survey)  
 BOTTOM SURFACE GRID RECORD : 4 F4 - 1989 Year End Cut Pit Surface (December 28 1989 Pit Survey)

BLOCKS USED :  
 COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR WASTE FROM .0000 [%Pb+Zn] TO 4.0000 [%Pb+Zn]

BENCH	CREST		TOE		VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	AVERAGE GRADES				ECONOMIC FACTOR [Cdn x1000]	
	[ft	]	[ft	]				[%Pb+Zn]	[%Pb	]	[%Zn		]
1	4270.00		4230.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
2	4230.00		4190.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
3	4190.00		4150.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
4	4150.00		4110.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
5	4110.00		4070.00		7.07	.000	.00	.000	.000	.000	.0	.000	.00
6	4070.00		4030.00		135.25	.044	5.90	.000	.000	.000	.0	.000	.00
7	4030.00		3990.00		635.60	.063	39.79	.000	.000	.000	.0	.000	.00
8	3990.00		3950.00		839.80	.066	55.82	.000	.000	.000	.0	.000	.00
9	3950.00		3910.00		10649.55	.071	759.99	.000	.000	.000	.0	.000	.00
10	3910.00		3890.00		7224.05	.074	533.95	.000	.000	.000	.0	.000	.00
11	3890.00		3870.00		8234.46	.074	609.25	.000	.000	.000	.0	.000	.00
12	3870.00		3850.00		8234.46	.074	613.12	.052	.022	.030	.5	.004	.00
13	3850.00		3830.00		8217.66	.075	613.01	.012	.006	.006	.1	.001	.00
14	3830.00		3810.00		8410.38	.075	631.27	.010	.004	.005	.1	.001	.00
15	3810.00		3790.00		7325.71	.075	548.45	.002	.001	.001	.0	.000	.00
16	3790.00		3770.00		5252.73	.075	393.06	.001	.000	.000	.0	.000	.00
17	3770.00		3750.00		5553.29	.076	421.98	.001	.000	.000	.0	.000	.00
18	3750.00		3730.00		10870.55	.076	826.87	.017	.006	.010	.1	.001	.00
19	3730.00		3710.00		11613.11	.076	888.06	.031	.012	.019	.3	.002	.00
20	3710.00		3690.00		12482.08	.078	969.67	.147	.068	.079	1.1	.018	.00
21	3690.00		3670.00		12191.24	.078	949.00	.182	.075	.107	1.8	.012	.00
22	3670.00		3650.00		11281.61	.078	881.66	.145	.065	.081	1.5	.005	.00
23	3650.00		3630.00		9426.98	.078	738.15	.173	.073	.100	1.7	.005	.00
24	3630.00		3610.00		7002.16	.078	542.67	.123	.046	.077	.8	.007	.00
25	3610.00		3590.00		6861.61	.081	556.19	.530	.252	.278	4.4	.030	.00
26	3590.00		3570.00		3203.62	.083	264.41	.694	.357	.337	7.6	.031	.00
27	3570.00		3550.00		1418.82	.085	120.19	.963	.498	.464	8.5	.042	.00
28	3550.00		3530.00		546.31	.080	43.75	.481	.236	.245	3.7	.010	.00
29	3530.00		3510.00		1.77	.076	.13	.000	.000	.000	.0	.000	.00
30	3510.00		3490.00		22.10	.076	1.68	.000	.000	.000	.0	.000	.00
31	3490.00		3470.00		108.73	.121	13.18	2.708	1.486	1.222	21.8	.011	.00
32	3470.00		3450.00		317.36	.117	37.04	2.491	1.267	1.224	16.7	.009	.00
33	3450.00		3430.00		1745.02	.085	148.03	.949	.332	.617	6.8	.020	.00
34	3430.00		3410.00		2924.27	.090	263.44	1.654	.646	1.008	11.4	.012	.00

36	3390.00	3370.00	1608.00	.081	129.91	.343	.111	.232	1.8	.010	.00
37	3370.00	3350.00	699.24	.078	54.43	1.259	.368	.891	7.6	.026	.00
38	3350.00	3330.00	739.91	.082	60.61	2.532	.793	1.739	22.2	.141	.00
39	3330.00	3310.00	43.32	.076	3.29	.000	.000	.000	.0	.000	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.0	.000	.00

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TOTAL FOR ALL BENCHES                    167777.90                    .077                    12887.65                    .195                    .082                    .113                    1.6                    .007                    .00

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PRINTED IN CANADA

IMPRIMERIE AU CANADA

5

MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 3 F3 - 1988 Year End Cut Pit Surface (December 31 1988 survey)  
 BOTTOM SURFACE GRID RECORD : 4 F4 - 1989 Year End Cut Pit Surface (December 28 1989 Pit Survey)

BLOCKS USED :

COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR STOCKPILE FROM 4.0000 [%Pb+Zn] TO 5.0000 [%Pb+Zn]

BENCH	CREST		VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	A V E R A G E G R A D E S				ECONOMIC FACTOR [Cdn x1000]	
	[ft]	[ft]				[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/m]		[Au g/m]
1	4270.00	4230.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
2	4230.00	4190.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
3	4190.00	4150.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
4	4150.00	4110.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
5	4110.00	4070.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
6	4070.00	4030.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
7	4030.00	3990.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
8	3990.00	3950.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
9	3950.00	3910.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
10	3910.00	3890.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
11	3890.00	3870.00	6.19	.085	.53	4.706	2.104	2.602	40.7	.186	.00
12	3870.00	3850.00	15.91	.082	1.31	4.037	2.187	1.850	41.7	.064	.00
13	3850.00	3830.00	2.65	.082	.22	4.670	1.826	2.844	39.9	.995	.00
14	3830.00	3810.00	18.56	.077	1.43	4.054	1.833	2.221	35.8	.378	.00
15	3810.00	3790.00	64.53	.067	4.33	4.396	1.950	2.446	35.3	.292	.00
16	3790.00	3770.00	18.56	.071	1.32	4.648	1.918	2.730	34.1	.303	.00
17	3770.00	3750.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
18	3750.00	3730.00	90.17	.096	8.69	4.598	1.657	2.942	26.1	.134	.00
19	3730.00	3710.00	72.49	.087	6.29	4.679	1.481	3.198	28.8	.211	.00
20	3710.00	3690.00	121.99	.082	9.95	4.204	1.272	2.932	29.0	.281	.00
21	3690.00	3670.00	251.06	.079	19.84	4.501	1.424	3.077	27.1	.190	.00
22	3670.00	3650.00	408.41	.088	36.06	4.403	1.518	2.885	25.6	.142	.00
23	3650.00	3630.00	88.40	.085	7.49	4.442	1.427	3.015	23.3	.150	.00
24	3630.00	3610.00	76.02	.088	6.69	4.342	1.801	2.541	31.5	.217	.00
25	3610.00	3590.00	141.44	.082	11.64	4.393	1.424	2.969	23.3	.418	.00
26	3590.00	3570.00	17.68	.091	1.61	4.338	1.636	2.702	28.5	.353	.00
27	3570.00	3550.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
28	3550.00	3530.00	76.91	.122	9.39	4.088	2.027	2.061	31.3	.089	.00
29	3530.00	3510.00	1.77	.122	.22	4.984	2.090	2.894	23.2	.077	.00
30	3510.00	3490.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
31	3490.00	3470.00	33.59	.126	4.24	4.304	2.092	2.213	26.4	.000	.00
32	3470.00	3450.00	105.20	.117	12.27	4.825	2.074	2.750	28.6	.097	.00
33	3450.00	3430.00	331.50	.099	32.97	4.530	1.611	2.919	28.3	.059	.00
34	3430.00	3410.00	418.13	.093	39.03	4.571	1.626	2.945	28.9	.256	.00
35	3410.00	3390.00	447.30	.087	39.77	4.740	1.700	2.950	30.0	.244	.00

37	3370.00	3350.00	469.40	.085	40.01	4.550	1.462	3.088	29.5	.080
38	3350.00	3330.00	334.15	.086	28.60	4.470	1.436	3.035	25.5	.206
39	3330.00	3310.00	.88	.082	.07	4.972	1.691	3.281	56.4	.368
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.0	.000
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.0	.000
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.0	.000
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.0	.000
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.0	.000
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.0	.000
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.0	.000
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.0	.000
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.0	.000
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.0	.000
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.0	.000

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TOTAL FOR ALL BENCHES                    4108.83                    .089                    364.85                    4.547                    1.638                    2.909                    30.3                    .176                    .00

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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 3 F3 - 1988 Year End Cut Pit Surface (December 31 1988 survey)  
 BOTTOM SURFACE GRID RECORD : 4 F4 - 1989 Year End Cut Pit Surface (December 28 1989 Pit Survey)

BLOCKS USED :  
 COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR ORE ABOVE 5.0000 [%Pb+Zn]

BENCH	CREST [ft]	TOE [ft]	VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	AVERAGE GRADES				ECONOMIC FACTOR [Cdn x1000]	
						[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/m]		[Au g/m]
1	4270.00	4230.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
2	4230.00	4190.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
3	4190.00	4150.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
4	4150.00	4110.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
5	4110.00	4070.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
6	4070.00	4030.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
7	4030.00	3990.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
8	3990.00	3950.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
9	3950.00	3910.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
10	3910.00	3890.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
11	3890.00	3870.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
12	3870.00	3850.00	56.58	.087	4.90	5.747	2.462	3.235	42.3	.301	.00
13	3850.00	3830.00	.88	.082	.07	5.018	2.052	2.966	41.3	.630	.00
14	3830.00	3810.00	24.75	.081	2.01	6.627	2.639	3.987	48.1	.168	.00
15	3810.00	3790.00	54.81	.083	4.52	6.955	2.806	4.148	50.5	.169	.00
16	3790.00	3770.00	3.54	.084	.30	8.256	3.228	5.028	58.0	.227	.00
17	3770.00	3750.00	3.54	.093	.33	6.500	2.069	4.432	35.2	.400	.00
18	3750.00	3730.00	17.68	.108	1.91	7.816	3.202	4.613	33.5	.230	.00
19	3730.00	3710.00	658.58	.106	70.12	7.644	2.760	4.884	38.4	.131	.00
20	3710.00	3690.00	1129.75	.118	133.05	10.900	4.166	6.734	56.0	.170	.00
21	3690.00	3670.00	1180.14	.117	138.04	9.566	3.385	6.181	39.1	.163	.00
22	3670.00	3650.00	1392.30	.115	160.28	7.882	3.125	4.757	33.5	.222	.00
23	3650.00	3630.00	2525.59	.117	295.06	9.504	3.705	5.799	48.2	.253	.00
24	3630.00	3610.00	3535.12	.118	418.13	10.068	4.220	5.848	58.7	.147	.00
25	3610.00	3590.00	2813.77	.115	323.48	11.523	4.924	6.599	63.6	.264	.00
26	3590.00	3570.00	2481.39	.113	279.58	10.525	4.295	6.230	52.4	.279	.00
27	3570.00	3550.00	1950.99	.120	233.20	9.081	3.711	5.370	41.5	.156	.00
28	3550.00	3530.00	1226.99	.119	145.90	7.892	3.238	4.654	34.8	.167	.00
29	3530.00	3510.00	159.12	.119	18.94	8.746	3.188	5.557	27.2	.211	.00
30	3510.00	3490.00	21.22	.133	2.82	10.420	4.841	5.579	54.7	.000	.00
31	3490.00	3470.00	152.05	.123	18.66	8.532	3.607	4.926	39.4	.061	.00
32	3470.00	3450.00	693.06	.124	85.88	7.166	3.176	3.990	39.6	.050	.00
33	3450.00	3430.00	6259.60	.126	786.71	9.089	3.706	5.383	38.6	.069	.00
34	3430.00	3410.00	4629.51	.124	571.75	8.234	3.227	5.007	30.3	.080	.00
35	3410.00	3390.00	4052.00	.112	458.00	7.500	3.100	4.500	25.0	.050	.00

36	3390.00	3370.00	3038.31	.116	352.60	8.359	3.067	5.292	25.3	.096	.00
37	3370.00	3350.00	1730.87	.120	208.05	8.046	2.782	5.264	21.7	.052	.00
38	3350.00	3330.00	425.20	.114	48.36	7.507	2.546	4.960	19.1	.058	.00
39	3330.00	3310.00	149.40	.086	12.87	6.382	2.509	3.873	49.0	.501	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.0	.000	.00

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TOTAL FOR ALL BENCHES			40365.21	.118	4777.70	8.991	3.558	5.433	40.0	.143	.00
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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period .

TOP SURFACE GRID RECORD : 3 F3 - 1988 Year End Cut Fit Surface (December 31 1988 survey)  
 BOTTOM SURFACE GRID RECORD : 4 F4 - 1989 Year End Cut Fit Surface (December 28 1989 Pit Survey)

BLOCKS USED :

COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR ALL MATERIAL

BENCH	CREST	TOE	VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	A V E R A G E G R A D E S					ECONOMIC FACTOR [Cdn x1000]
	[ft ]	[ft ]				[%Pb+Zn]	[%Pb ]	[%Zn ]	[Ag g/m]	[Au g/m]	
1	4270.00	4230.00	.00	.000	.00	.000	.000	.000	.00	.000	.00
2	4230.00	4190.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
3	4190.00	4150.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
4	4150.00	4110.00	.00	.000	.00	.000	.000	.000	.0	.000	.00
5	4110.00	4070.00	7.07	.000	.00	.000	.000	.000	.0	.000	.00
6	4070.00	4030.00	135.25	.044	5.90	.000	.000	.000	.0	.000	.00
7	4030.00	3990.00	635.60	.063	39.79	.000	.000	.000	.0	.000	.00
8	3990.00	3950.00	839.80	.066	55.82	.000	.000	.000	.0	.000	.00
9	3950.00	3910.00	10649.55	.071	759.99	.000	.000	.000	.0	.000	.00
10	3910.00	3890.00	7224.05	.074	533.95	.000	.000	.000	.0	.000	.00
11	3890.00	3870.00	8240.65	.074	609.78	.004	.002	.002	.0	.000	.00
12	3870.00	3850.00	8306.95	.075	619.32	.106	.046	.060	.9	.006	.00
13	3850.00	3830.00	8221.20	.075	613.30	.014	.007	.007	.1	.001	.00
14	3830.00	3810.00	8453.69	.075	634.71	.040	.017	.023	.3	.002	.00
15	3810.00	3790.00	7445.05	.075	557.31	.093	.039	.054	.7	.004	.00
16	3790.00	3770.00	5274.83	.075	394.68	.022	.009	.013	.2	.001	.00
17	3770.00	3750.00	5556.82	.076	422.31	.006	.002	.004	.0	.000	.00
18	3750.00	3730.00	10978.40	.076	837.47	.082	.031	.051	.5	.003	.00
19	3730.00	3710.00	12344.18	.078	964.47	.615	.222	.393	3.2	.013	.00
20	3710.00	3690.00	13733.82	.081	1112.66	1.469	.569	.900	7.9	.038	.00
21	3690.00	3670.00	13622.44	.081	1106.88	1.430	.512	.917	6.9	.034	.00
22	3670.00	3650.00	13082.32	.082	1078.01	1.438	.568	.870	7.1	.042	.00
23	3650.00	3630.00	12040.96	.086	1040.71	2.849	1.112	1.737	15.0	.077	.00
24	3630.00	3610.00	10613.30	.091	967.50	4.450	1.862	2.588	26.1	.069	.00
25	3610.00	3590.00	9816.82	.091	891.31	4.570	1.963	2.607	26.1	.120	.00
26	3590.00	3570.00	5702.68	.096	545.60	5.742	2.379	3.364	30.6	.159	.00
27	3570.00	3550.00	3369.81	.105	353.40	6.320	2.618	3.702	30.3	.117	.00
28	3550.00	3530.00	1850.21	.108	199.03	6.084	2.521	3.563	27.8	.129	.00
29	3530.00	3510.00	162.66	.119	19.29	8.643	3.154	5.439	27.0	.208	.00
30	3510.00	3490.00	43.32	.104	4.50	6.533	3.035	3.498	34.3	.000	.00
31	3490.00	3470.00	294.37	.123	36.08	5.908	2.654	3.254	31.4	.035	.00
32	3470.00	3450.00	1115.61	.121	135.19	5.673	2.553	3.120	32.4	.043	.00
33	3450.00	3430.00	8336.12	.116	967.71	7.688	3.119	4.570	33.4	.061	.00
34	3430.00	3410.00	7971.91	.110	874.23	6.088	2.378	3.710	24.6	.068	.00
35	3410.00	3390.00	1447.00	.100	144.70	5.700	2.400	3.113	24.0	.110	.00



MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 4 F4 - 1989 Year End Cut Pit Surface (December 28 1989 Pit Survey)  
 BOTTOM SURFACE GRID RECORD : 6 F6 - FIV 1989 Ultimate Pit Surface (May 1989 Design)

BLOCKS USED :

COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR WASTE FROM .0000 [%Pb+Zn] TO 4.0000 [%Pb+Zn]

BENCH	CREST	TOE	VOLUME		DENSITY	TONNAGE		AVERAGE GRADES				ECONOMIC FACTOR
	[ft]	[ft]	[bcf	x1000]	[tn/bcf]	[ TONS x1000]	[%Pb+Zn]	[%Pb	[%Zn	[Ag g/m]	[Au g/m]	[Cdn x1000]
1	4270.00	4230.00	.00		.000	.00	.000	.000	.000	.0	.000	.00
2	4230.00	4190.00	.00		.000	.00	.000	.000	.000	.0	.000	.00
3	4190.00	4150.00	.00		.000	.00	.000	.000	.000	.0	.000	.00
4	4150.00	4110.00	.00		.000	.00	.000	.000	.000	.0	.000	.00
5	4110.00	4070.00	.00		.000	.00	.000	.000	.000	.0	.000	.00
6	4070.00	4030.00	.00		.000	.00	.000	.000	.000	.0	.000	.00
7	4030.00	3990.00	.00		.000	.00	.000	.000	.000	.0	.000	.00
8	3990.00	3950.00	243.98		.058	14.22	.000	.000	.000	.0	.000	.00
9	3950.00	3910.00	405.76		.058	23.42	.000	.000	.000	.0	.000	.00
10	3910.00	3890.00	167.08		.075	12.48	.000	.000	.000	.0	.000	.00
11	3890.00	3870.00	527.75		.076	40.13	.000	.000	.000	.0	.000	.00
12	3870.00	3850.00	31.82		.076	2.42	.000	.000	.000	.0	.000	.00
13	3850.00	3830.00	139.67		.076	10.60	.000	.000	.000	.0	.000	.00
14	3830.00	3810.00	1306.55		.076	98.70	.000	.000	.000	.0	.000	.00
15	3810.00	3790.00	2474.32		.076	188.16	.000	.000	.000	.0	.000	.00
16	3790.00	3770.00	4093.80		.076	311.45	.010	.003	.006	.1	.001	.00
17	3770.00	3750.00	5044.99		.076	383.84	.000	.000	.000	.0	.000	.00
18	3750.00	3730.00	7923.29		.077	612.45	.121	.064	.057	1.3	.022	.00
19	3730.00	3710.00	8166.39		.078	633.48	.140	.078	.062	1.2	.020	.00
20	3710.00	3690.00	7001.28		.079	550.02	.155	.079	.076	1.3	.029	.00
21	3690.00	3670.00	7882.63		.080	627.49	.439	.166	.272	2.5	.017	.00
22	3670.00	3650.00	6504.47		.078	506.42	.347	.135	.213	1.9	.014	.00
23	3650.00	3630.00	7209.02		.079	571.28	.619	.253	.366	3.2	.028	.00
24	3630.00	3610.00	6303.80		.081	510.25	.773	.292	.481	4.6	.022	.00
25	3610.00	3590.00	6268.44		.086	537.27	1.144	.462	.682	7.6	.038	.00
26	3590.00	3570.00	8093.02		.091	735.68	1.270	.501	.769	8.6	.043	.00
27	3570.00	3550.00	8712.70		.089	778.38	1.301	.489	.812	8.6	.107	.00
28	3550.00	3530.00	8915.14		.092	823.22	1.657	.586	1.070	8.9	.089	.00
29	3530.00	3510.00	8270.70		.096	796.78	1.670	.524	1.146	8.8	.038	.00
30	3510.00	3490.00	7568.81		.105	793.32	2.021	.687	1.334	9.6	.073	.00
31	3490.00	3470.00	5500.25		.103	565.13	1.693	.622	1.070	7.6	.048	.00
32	3470.00	3450.00	4064.63		.095	387.02	1.515	.499	1.016	6.5	.037	.00
33	3450.00	3430.00	3509.48		.097	340.37	1.537	.510	1.027	7.9	.039	.00
34	3430.00	3410.00	3048.92		.104	317.78	1.631	.529	1.101	7.6	.021	.00

37	3370.00	3350.00	1086.44	.083	90.69	.202	.053	.150	1.0	.000
38	3350.00	3330.00	979.47	.077	75.40	.597	.195	.402	5.2	.011
39	3330.00	3310.00	1028.09	.076	78.03	.000	.000	.000	.0	.000
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.0	.000
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.0	.000
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.0	.000
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.0	.000
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.0	.000
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.0	.000
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.0	.000
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.0	.000
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.0	.000
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.0	.000
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.0	.000

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TOTAL FOR ALL BENCHES                    136053.80                    .086                    11751.08                    .978                    .350                    .628                    5.3                    .039                    .00

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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 4 F4 - 1989 Year End Cut Pit Surface (December 28 1989 Pit Survey)  
 BOTTOM SURFACE GRID RECORD : 6 F6 - FIV 1989 Ultimate Pit Surface (May 1989 Design)

BLOCKS USED :

COLUMNS 1 TO 128 ROWS 1 TO 128

BENCH TOTALS FOR STOCKPILE FROM 4.0000 [%Pb+Zn] TO 5.0000 [%Pb+Zn]

BENCH	CREST		TOE		VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	A V E R A G E G R A D E S				ECONOMIC FACTOR [Cdn x1000]	
	[ft	]	[ft	]				[%Pb+Zn]	[%Pb	]	[%Zn		]
1	4270.00		4230.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
2	4230.00		4190.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
3	4190.00		4150.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
4	4150.00		4110.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
5	4110.00		4070.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
6	4070.00		4030.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
7	4030.00		3990.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
8	3990.00		3950.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
9	3950.00		3910.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
10	3910.00		3890.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
11	3890.00		3870.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
12	3870.00		3850.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
13	3850.00		3830.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
14	3830.00		3810.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
15	3810.00		3790.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
16	3790.00		3770.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
17	3770.00		3750.00		30.06	.086	2.58	4.483	1.536	2.947	38.8	.314	.00
18	3750.00		3730.00		18.56	.105	1.95	4.269	1.556	2.712	25.6	.080	.00
19	3730.00		3710.00		21.22	.080	1.69	4.142	1.266	2.877	25.9	.205	.00
20	3710.00		3690.00		.00	.000	.00	.000	.000	.000	.0	.000	.00
21	3690.00		3670.00		132.60	.078	10.30	4.339	1.370	2.969	16.1	.131	.00
22	3670.00		3650.00		942.34	.100	94.49	4.432	1.497	2.934	17.0	.092	.00
23	3650.00		3630.00		901.68	.095	86.06	4.410	1.351	3.058	18.5	.059	.00
24	3630.00		3610.00		381.89	.099	37.74	4.371	1.577	2.795	24.4	.212	.00
25	3610.00		3590.00		1195.17	.103	123.59	4.485	1.755	2.730	25.0	.201	.00
26	3590.00		3570.00		1307.44	.105	136.89	4.402	1.677	2.725	20.7	.134	.00
27	3570.00		3550.00		1589.43	.106	168.14	4.445	1.582	2.863	17.0	.136	.00
28	3550.00		3530.00		453.49	.096	43.32	4.554	1.531	3.023	20.5	.073	.00
29	3530.00		3510.00		1098.81	.093	102.31	4.434	1.476	2.958	23.3	.117	.00
30	3510.00		3490.00		598.47	.088	52.83	4.461	1.556	2.905	29.8	.141	.00
31	3490.00		3470.00		853.06	.100	85.13	4.515	1.503	3.012	18.3	.107	.00
32	3470.00		3450.00		492.39	.097	47.94	4.535	1.724	2.812	23.5	.189	.00
33	3450.00		3430.00		350.06	.092	32.36	4.520	1.453	3.067	20.6	.046	.00
34	3430.00		3410.00		239.07	.083	23.99	4.575	1.624	2.951	31.1	.085	.00

37	3370.00	3350.00	395.15	4.459	1.206	3.253	19.4	003	00
38	3350.00	3330.00	196.25	4.544	1.523	3.021	29.7	048	00
39	3330.00	3310.00	34.48	4.909	1.681	3.228	42.7	174	00
40	3310.00	3290.00	000	000	000	000	0	000	00
41	3290.00	3270.00	000	000	000	000	0	000	00
42	3270.00	3250.00	000	000	000	000	0	000	00
43	3250.00	3230.00	000	000	000	000	0	000	00
44	3230.00	3210.00	000	000	000	000	0	000	00
45	3210.00	3190.00	000	000	000	000	0	000	00
46	3190.00	3170.00	000	000	000	000	0	000	00
47	3170.00	3150.00	000	000	000	000	0	000	00
48	3150.00	3130.00	000	000	000	000	0	000	00
49	3130.00	3110.00	000	000	000	000	0	000	00
50	3110.00	3090.00	000	000	000	000	0	000	00
TOTAL FOR ALL BENCHES									
	12622.64	097	1218.24	4.477	1.546	2.931	21.9	140	00

MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 4 F4 - 1989 Year End Cut Pit Surface (December 28 1989 Pit Survey)  
 BOTTOM SURFACE GRID RECORD : 6 F6 - FIV 1989 Ultimate Pit Surface (May 1989 Design)

BLOCKS USED :  
 COLUMNS 1 TO 128 ROWS 1 TO 128  
 BENCH TOTALS FOR ORE ABOVE 5.0000 [%Pb+Zn]

BENCH	CREST		VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [ TONS x1000]	A V E R A G E G R A D E S					ECONOMIC FACTOR [Cdn x1000]	
	[ft	]				[ft	]	[%Pb+Zn]	[%Pb	]		[%Zn
1	4270.00	4230.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
2	4230.00	4190.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
3	4190.00	4150.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
4	4150.00	4110.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
5	4110.00	4070.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
6	4070.00	4030.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
7	4030.00	3990.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
8	3990.00	3950.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
9	3950.00	3910.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
10	3910.00	3890.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
11	3890.00	3870.00	7.96	.085	.68	6.572	2.719	3.853	60.4	.000	.000	.00
12	3870.00	3850.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
13	3850.00	3830.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
14	3830.00	3810.00	.00	.000	.00	.000	.000	.000	.000	.0	.000	.00
15	3810.00	3790.00	1.77	.093	.16	7.296	2.411	4.885	52.5	.000	.000	.00
16	3790.00	3770.00	27.40	.114	3.14	11.248	4.475	6.774	70.1	.569	.000	.00
17	3770.00	3750.00	91.05	.107	9.70	9.219	3.156	6.063	39.7	.369	.000	.00
18	3750.00	3730.00	140.56	.114	16.04	7.335	3.535	3.801	56.8	.304	.000	.00
19	3730.00	3710.00	331.50	.121	39.96	6.895	3.221	3.674	58.0	.238	.000	.00
20	3710.00	3690.00	276.69	.122	33.84	7.802	3.193	4.609	44.8	.379	.000	.00
21	3690.00	3670.00	164.42	.110	18.16	7.248	3.030	4.219	39.4	.349	.000	.00
22	3670.00	3650.00	1588.55	.093	147.35	6.029	1.938	4.091	19.9	.135	.000	.00
23	3650.00	3630.00	1897.95	.100	189.48	7.385	2.231	5.154	23.7	.181	.000	.00
24	3630.00	3610.00	2728.91	.106	290.62	8.534	2.864	5.670	30.7	.191	.000	.00
25	3610.00	3590.00	2363.82	.107	252.82	8.749	3.102	5.647	27.0	.139	.000	.00
26	3590.00	3570.00	3275.22	.104	340.15	8.464	3.154	5.309	34.7	.139	.000	.00
27	3570.00	3550.00	3516.55	.110	385.11	8.607	3.305	5.301	37.1	.123	.000	.00
28	3550.00	3530.00	4879.68	.111	542.52	8.313	3.313	5.000	39.2	.140	.000	.00
29	3530.00	3510.00	6618.51	.113	748.32	8.944	3.471	5.473	40.9	.138	.000	.00
30	3510.00	3490.00	7527.26	.117	882.67	8.988	3.440	5.548	37.5	.098	.000	.00
31	3490.00	3470.00	8788.73	.111	978.10	9.196	3.337	5.860	35.7	.099	.000	.00
32	3470.00	3450.00	7406.15	.117	865.69	9.221	3.463	5.758	37.3	.096	.000	.00
33	3450.00	3430.00	5006.09	.119	595.44	8.801	3.274	5.527	30.1	.086	.000	.00
34	3430.00	3410.00	3734.90	.116	432.12	8.369	3.089	5.280	28.8	.095	.000	.00

37	3370.00	3350.00	2532.66	.095	241.23	9.702	3.136	6.566	30.2	.111	.000
38	3350.00	3330.00	1863.47	.093	173.58	10.607	3.317	7.290	31.0	.053	.000
39	3330.00	3310.00	1247.32	.089	110.70	8.205	2.745	5.459	42.3	.221	.000
40	3310.00	3290.00	.000	.000	.00	.000	.000	.000	.0	.000	.000
41	3290.00	3270.00	.00	.000	.00	.000	.000	.000	.0	.000	.000
42	3270.00	3250.00	.00	.000	.00	.000	.000	.000	.0	.000	.000
43	3250.00	3230.00	.00	.000	.00	.000	.000	.000	.0	.000	.000
44	3230.00	3210.00	.00	.000	.00	.000	.000	.000	.0	.000	.000
45	3210.00	3190.00	.00	.000	.00	.000	.000	.000	.0	.000	.000
46	3190.00	3170.00	.00	.000	.00	.000	.000	.000	.0	.000	.000
47	3170.00	3150.00	.00	.000	.00	.000	.000	.000	.0	.000	.000
48	3150.00	3130.00	.00	.000	.00	.000	.000	.000	.0	.000	.000
49	3130.00	3110.00	.00	.000	.00	.000	.000	.000	.0	.000	.000
50	3110.00	3090.00	.00	.000	.00	.000	.000	.000	.0	.000	.000

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TOTAL FOR ALL BENCHES			71536.81	.111	7933.87	8.920	3.264	5.656	34.3	.118	.00
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MINING RESERVE EVALUATION

DESCRIPTION : Mined Reserves By Period

TOP SURFACE GRID RECORD : 4 F4 - 1989 Year End Cut Pit Surface (December 28 1989 Pit Survey)  
 BOTTOM SURFACE GRID RECORD : 6 F6 - FIV 1989 Ultimate Pit Surface (May 1989 Design)

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

BENCH	CREST	TOE	VOLUME		DENSITY	TONNAGE		AVERAGE GRADES				ECONOMIC FACTOR	
	[ft ]	[ft ]	[bcf	x1000]	[tn/bcf]	[ TONS x1000]	[%Pb+Zn]	[%Pb ]	[%Zn ]	[Ag g/m]	[Au g/m]	[Cdn	x1000]
1	4270.00	4230.00	.00	.00	.000	.00	.000	.000	.000	.0	.000	.00	.00
2	4230.00	4190.00	.00	.00	.000	.00	.000	.000	.000	.0	.000	.00	.00
3	4190.00	4150.00	.00	.00	.000	.00	.000	.000	.000	.0	.000	.00	.00
4	4150.00	4110.00	.00	.00	.000	.00	.000	.000	.000	.0	.000	.00	.00
5	4110.00	4070.00	.00	.00	.000	.00	.000	.000	.000	.0	.000	.00	.00
6	4070.00	4030.00	.00	.00	.000	.00	.000	.000	.000	.0	.000	.00	.00
7	4030.00	3990.00	.00	.00	.000	.00	.000	.000	.000	.0	.000	.00	.00
8	3990.00	3950.00	243.98	.058	.058	14.22	.000	.000	.000	.0	.000	.00	.00
9	3950.00	3910.00	405.76	.058	.058	23.42	.000	.000	.000	.0	.000	.00	.00
10	3910.00	3890.00	167.08	.075	.075	12.48	.000	.000	.000	.0	.000	.00	.00
11	3890.00	3870.00	535.70	.076	.076	40.80	.109	.045	.064	1.0	.000	.00	.00
12	3870.00	3850.00	31.82	.076	.076	2.42	.000	.000	.000	.0	.000	.00	.00
13	3850.00	3830.00	139.67	.076	.076	10.60	.000	.000	.000	.0	.000	.00	.00
14	3830.00	3810.00	1306.55	.076	.076	98.70	.000	.000	.000	.0	.000	.00	.00
15	3810.00	3790.00	2476.08	.076	.076	188.33	.006	.002	.004	.0	.000	.00	.00
16	3790.00	3770.00	4121.21	.076	.076	314.58	.122	.048	.074	.8	.006	.00	.00
17	3770.00	3750.00	5166.10	.077	.077	396.12	.255	.087	.168	1.2	.011	.00	.00
18	3750.00	3730.00	8082.41	.078	.078	630.44	.317	.157	.160	2.8	.030	.00	.00
19	3730.00	3710.00	8519.11	.079	.079	675.13	.550	.267	.283	4.6	.034	.00	.00
20	3710.00	3690.00	7277.97	.080	.080	583.86	.598	.260	.339	3.8	.049	.00	.00
21	3690.00	3670.00	8179.65	.080	.080	655.95	.688	.264	.424	3.8	.028	.00	.00
22	3670.00	3650.00	9035.36	.083	.083	748.26	1.982	.662	1.320	7.4	.048	.00	.00
23	3650.00	3630.00	10008.65	.085	.085	846.83	2.518	.807	1.711	9.4	.065	.00	.00
24	3630.00	3610.00	9414.60	.089	.089	838.61	3.624	1.241	2.383	14.5	.089	.00	.00
25	3610.00	3590.00	9827.43	.093	.093	913.69	3.700	1.368	2.333	15.4	.088	.00	.00
26	3590.00	3570.00	12675.68	.096	.096	1212.72	3.642	1.378	2.263	17.3	.080	.00	.00
27	3570.00	3550.00	13818.69	.096	.096	1331.63	3.811	1.441	2.369	17.9	.115	.00	.00
28	3550.00	3530.00	14248.31	.099	.099	1409.07	4.308	1.665	2.643	20.9	.108	.00	.00
29	3530.00	3510.00	15988.02	.103	.103	1647.40	5.146	1.921	3.224	24.3	.089	.00	.00
30	3510.00	3490.00	15694.54	.110	.110	1728.82	5.653	2.119	3.533	24.5	.088	.00	.00
31	3490.00	3470.00	15142.04	.108	.108	1628.35	6.347	2.299	4.049	25.0	.081	.00	.00
32	3470.00	3450.00	11963.17	.109	.109	1300.65	6.756	2.517	4.238	27.6	.082	.00	.00
33	3450.00	3430.00	8865.64	.109	.109	968.18	6.104	2.241	3.863	22.0	.068	.00	.00
34	3430.00	3410.00	7072.88	.109	.109	773.88	5.485	1.993	3.492	20.2	.064	.00	.00

TOTAL FOR ALL BENCHES 220213.20 .095 20903.19 4.196 1.526 2.671 17.3 .075 .00

50	3110.00	3090.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
49	3130.00	3110.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
48	3150.00	3130.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
47	3170.00	3150.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
46	3190.00	3170.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
45	3210.00	3190.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
44	3230.00	3210.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
43	3250.00	3230.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
42	3270.00	3250.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
41	3290.00	3270.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
40	3310.00	3290.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
39	3330.00	3310.00	2309.89	.083	191.66	4.814	1.611	3.203	25.1	1.30	.00	.00	.00
38	3350.00	3330.00	3039.19	.087	265.64	7.386	2.319	5.067	23.6	0.41	.00	.00	.00
37	3370.00	3350.00	4014.24	.091	366.42	6.857	2.191	4.666	21.9	0.73	.00	.00	.00