

F8805 1988

003518

MINING RESERVE EVALUATION

DESCRIPTION : MINED RESERVES - DECEMBER 31 1987 TO DECEMBER 31 1988

TOP SURFACE GRID RECORD : 11 F87-12 December 31 1987 CUT SURFACE
 BOTTOM SURFACE GRID RECORD : 12 F88-12 December 31 1988 CUT SURFACE

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

BENCH	CREENT TOE		VOLUME [bf x1000]	DENSITY [tn/bcf]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [Cdn \$ x1000]
	[ft	ft				[%Pb+Zn]	[%Pb	[%Zn	[Ag g/t]	[Au g/t]	
1	4270.00	4230.00	1641.37	.076	124.58	.000	.000	.000	.000	.000	.00
2	4230.00	4190.00	6205.74	.076	471.02	.000	.000	.000	.000	.000	.00
3	4190.00	4150.00	6363.08	.076	482.96	.000	.000	.000	.000	.000	.00
4	4150.00	4110.00	6314.46	.076	479.27	.000	.000	.000	.000	.000	.00
5	4110.00	4070.00	7462.63	.076	566.41	.000	.000	.000	.000	.000	.00
6	4070.00	4030.00	6797.95	.076	515.96	.000	.000	.000	.000	.000	.00
7	4030.00	3990.00	9590.13	.076	727.89	.000	.000	.000	.000	.000	.00
8	3990.00	3950.00	11398.55	.076	865.15	.000	.000	.000	.003	.000	.00
9	3950.00	3910.00	5682.48	.076	431.30	.000	.000	.000	.002	.000	.00
10	3910.00	3890.00	6359.55	.076	482.69	.000	.000	.000	.000	.000	.00
11	3890.00	3870.00	6952.63	.076	528.63	.003	.001	.002	.017	.000	.00
12	3870.00	3850.00	9490.24	.076	723.30	.033	.012	.021	.246	.002	.00
13	3850.00	3830.00	9535.33	.076	723.77	.000	.000	.000	.000	.000	.00
14	3830.00	3810.00	9159.67	.076	695.26	.001	.000	.001	.008	.000	.00
15	3810.00	3790.00	10373.26	.076	787.36	.001	.000	.000	.006	.000	.00
16	3790.00	3770.00	9240.99	.076	701.39	.000	.000	.000	.000	.000	.00
17	3770.00	3750.00	8391.57	.076	636.92	.000	.000	.000	.000	.000	.00
18	3750.00	3730.00	703.57	.076	53.44	.004	.002	.001	.065	.001	.00
19	3730.00	3710.00	123.74	.077	9.51	.131	.077	.054	1.208	.021	.00
20	3710.00	3690.00	161.75	.076	12.30	.024	.010	.014	.135	.002	.00
21	3690.00	3670.00	177.66	.076	13.52	.000	.000	.000	.000	.000	.00
22	3670.00	3650.00	536.52	.076	40.72	.000	.000	.000	.000	.000	.00
23	3650.00	3630.00	727.43	.076	55.46	.008	.002	.006	.034	.001	.00
24	3630.00	3610.00	8838.82	.076	673.37	.013	.004	.009	.137	.000	.00
25	3610.00	3590.00	9898.60	.076	753.64	.006	.002	.004	.062	.001	.00
26	3590.00	3570.00	12217.96	.077	936.77	.058	.022	.036	.422	.006	.00
27	3570.00	3550.00	10734.77	.078	839.28	.050	.019	.031	.382	.001	.00
28	3550.00	3530.00	7488.24	.081	604.17	.225	.099	.125	1.604	.003	.00
29	3530.00	3510.00	6005.09	.085	511.04	.931	.383	.548	5.519	.028	.00
30	3510.00	3490.00	3758.27	.095	358.32	1.344	.845	.699	10.824	.057	.00
31	3490.00	3470.00	2311.35	.104	240.19	1.883	.991	.882	16.701	.013	.00
32	3470.00	3450.00	1675.84	.095	158.95	2.295	1.019	1.276	16.631	.041	.00
33	3450.00	3430.00	216.55	.080	17.41	.590	.181	.408	4.442	.017	.00
34	3430.00	3410.00	228.04	.083	18.98	.369	.129	.239	3.004	.000	.00
35	3410.00	3390.00	120.21	.083	9.94	1.278	.410	.868	10.841	.000	.00
36	3390.00	3370.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
38	3350.00	3330.00	.00	.000	.00	.000	.000	.000	.000	.000	.00

MINING RESERVE EVALUATION

DESCRIPTION : MINED RESERVES - DECEMBER 31 1987 TO DECEMBER 31 1988

TOP SURFACE GRID RECORD : 11 F87-12 December 31 1987 CUT SURFACE
 BOTTOM SURFACE GRID RECORD : 12 F88-12 December 31 1988 CUT SURFACE

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

BENCH	CREST TOE		VOLUME [baf x1000]	DENSITY [tn/baf]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [Cdn \$ x1000]
	[ft]	[ft]				[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
1	4270.00	4230.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
2	4230.00	4190.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
3	4190.00	4150.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
4	4150.00	4110.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
5	4110.00	4070.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
6	4070.00	4030.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
7	4030.00	3990.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
8	3990.00	3950.00	1.77	.078	.14	4.405	1.357	3.048	20.700	.086	.00
9	3950.00	3910.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
10	3910.00	3890.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
11	3890.00	3870.00	18.56	.089	1.65	4.364	1.849	2.515	35.035	.162	.00
12	3870.00	3850.00	10.61	.083	.88	4.327	2.377	1.950	44.800	.080	.00
13	3850.00	3830.00	42.43	.083	3.51	4.635	1.742	2.893	36.534	.722	.00
14	3830.00	3810.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
15	3810.00	3790.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
16	3790.00	3770.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
17	3770.00	3750.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
18	3750.00	3730.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
19	3730.00	3710.00	14.14	.080	1.14	4.616	1.381	3.234	25.868	.225	.00
20	3710.00	3690.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
21	3690.00	3670.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
22	3670.00	3650.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
23	3650.00	3630.00	5.30	.097	.52	4.830	1.448	3.382	12.800	.000	.00
24	3630.00	3610.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
25	3610.00	3590.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
26	3590.00	3570.00	53.03	.078	4.10	4.398	1.273	3.124	23.071	.305	.00
27	3570.00	3550.00	72.48	.095	6.89	4.711	1.956	2.755	37.290	.038	.00
28	3550.00	3530.00	39.77	.093	3.71	4.654	1.743	2.911	32.080	.144	.00
29	3530.00	3510.00	35.36	.087	3.07	4.594	1.836	2.758	34.254	.000	.00
30	3510.00	3490.00	433.99	.102	44.40	4.528	1.948	2.580	28.488	.098	.00
31	3490.00	3470.00	490.55	.103	50.68	4.444	1.916	2.528	27.617	.007	.00
32	3470.00	3450.00	1370.02	.089	121.25	4.469	1.544	2.926	28.290	.036	.00
33	3450.00	3430.00	22.98	.087	1.99	4.430	1.488	2.942	33.715	.093	.00
34	3430.00	3410.00	122.86	.095	11.63	4.519	1.565	2.954	26.952	.000	.00
35	3410.00	3390.00	59.22	.090	5.33	4.500	1.485	3.015	30.297	.000	.00
36	3390.00	3370.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
38	3350.00	3330.00	.00	.000	.00	.000	.000	.000	.000	.000	.00

MINING RESERVE EVALUATION

DESCRIPTION : MINED RESERVES - DECEMBER 31 1987 TO DECEMBER 31 1988

TOP SURFACE GRID RECORD : 11 F87-12 December 31 1987 CUT SURFACE
 BOTTOM SURFACE GRID RECORD : 12 F88-12 December 31 1988 CUT SURFACE

BENCH TOTALS FOR ORE ABOVE 5.0000 [%Pb+Zn]

BENCH	CREST TOE		VOLUME [bof x1000]	DENSITY [tn/bof]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [Cdn \$ x1000]
	[ft]	[ft]				[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
1	4270.00	4230.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
2	4230.00	4190.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
3	4190.00	4150.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
4	4150.00	4110.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
5	4110.00	4070.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
6	4070.00	4030.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
7	4030.00	3990.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
8	3990.00	3950.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
9	3950.00	3910.00	.88	.079	.07	5.291	1.620	3.671	23.700	.107	.00
10	3910.00	3890.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
11	3890.00	3870.00	38.01	.086	3.27	6.115	2.673	3.443	55.508	.038	.00
12	3870.00	3850.00	52.15	.088	4.58	7.032	2.819	4.213	64.070	.464	.00
13	3850.00	3830.00	19.45	.086	1.68	6.391	2.508	3.883	54.135	.498	.00
14	3830.00	3810.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
15	3810.00	3790.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
16	3790.00	3770.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
17	3770.00	3750.00	5.30	.112	.60	11.015	4.125	6.890	58.448	.422	.00
18	3750.00	3730.00	11.49	.089	1.02	6.722	2.507	4.215	41.817	.304	.00
19	3730.00	3710.00	61.87	.092	5.66	5.631	2.171	3.460	34.784	.217	.00
20	3710.00	3690.00	6.19	.096	.69	5.883	2.090	3.792	35.051	.293	.00
21	3690.00	3670.00	5.30	.083	.44	6.147	1.789	4.348	29.107	.150	.00
22	3670.00	3650.00	1.77	.082	.14	6.421	2.746	3.675	36.103	.191	.00
23	3650.00	3630.00	3.54	.097	.34	5.272	1.523	3.749	14.500	.000	.00
24	3630.00	3610.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
25	3610.00	3590.00	304.94	.123	37.47	11.296	4.790	6.506	70.144	.019	.00
26	3590.00	3570.00	1953.38	.117	229.43	11.488	5.058	6.431	68.937	.216	.00
27	3570.00	3550.00	3039.67	.113	344.66	10.629	4.890	5.739	64.069	.181	.00
28	3550.00	3530.00	4316.89	.114	490.75	9.657	4.466	5.191	66.269	.164	.00
29	3530.00	3510.00	5310.37	.112	592.37	9.504	4.067	5.437	59.506	.107	.00
30	3510.00	3490.00	6849.20	.110	751.45	10.449	4.315	6.134	54.511	.068	.00
31	3490.00	3470.00	7189.49	.112	805.27	10.717	4.554	6.163	58.470	.075	.00
32	3470.00	3450.00	5632.98	.119	671.07	9.708	4.094	5.615	50.902	.073	.00
33	3450.00	3430.00	394.21	.123	48.62	9.224	3.743	5.481	40.922	.076	.00
34	3430.00	3410.00	1111.92	.126	140.45	7.576	3.000	4.576	29.620	.068	.00
35	3410.00	3390.00	419.84	.124	52.06	6.567	2.766	3.800	26.542	.085	.00
36	3390.00	3370.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.000	.00

38	3350.00	3330.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
39	3330.00	3310.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
40	3310.00	3290.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
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TOTAL FOR ALL BENCHES			36728.84	.114	4181.98	10.058	4.323	5.735	56.745			.11
TOTAL FOR ALL BENCHES			.00									
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MINING RESERVE EVALUATION

DESCRIPTION : MINED RESERVES - DECEMBER 31 1987 TO DECEMBER 31 1988

TOP SURFACE GRID RECORD : 11 F87-12 December 31 1987 CUT SURFACE
 BOTTOM SURFACE GRID RECORD : 12 F88-12 December 31 1988 CUT SURFACE

BENCH TOTALS FOR ALL MATERIAL

BENCH	CREST		VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [Cdn \$ x1000]
	[ft]	[ft]				[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
1	4270.00	4230.00	1641.37	.076	124.58	.000	.000	.000	.000	.000	.00
2	4230.00	4190.00	6205.74	.076	471.02	.000	.000	.000	.000	.000	.00
3	4190.00	4150.00	6363.08	.076	482.96	.000	.000	.000	.000	.000	.00
4	4150.00	4110.00	6314.46	.076	479.27	.000	.000	.000	.000	.000	.00
5	4110.00	4070.00	7462.63	.076	566.41	.000	.000	.000	.000	.000	.00
6	4070.00	4030.00	6797.95	.076	515.96	.000	.000	.000	.000	.000	.00
7	4030.00	3990.00	9590.13	.076	727.89	.000	.000	.000	.000	.000	.00
8	3990.00	3950.00	11400.32	.076	865.28	.001	.000	.001	.006	.000	.00
9	3950.00	3910.00	5683.37	.076	431.37	.001	.000	.001	.006	.000	.00
10	3910.00	3890.00	6359.55	.076	482.69	.000	.000	.000	.000	.000	.00
11	3890.00	3870.00	7009.19	.076	533.55	.054	.023	.031	.465	.001	.00
12	3870.00	3850.00	9553.00	.076	728.76	.083	.033	.050	.701	.005	.00
13	3850.00	3830.00	9597.20	.076	728.96	.037	.014	.023	.301	.005	.00
14	3830.00	3810.00	9159.67	.076	695.26	.001	.000	.001	.008	.000	.00
15	3810.00	3790.00	10373.26	.076	787.36	.001	.000	.000	.006	.000	.00
16	3790.00	3770.00	9240.99	.076	701.39	.000	.000	.000	.000	.000	.00
17	3770.00	3750.00	8396.87	.076	637.51	.010	.004	.006	.055	.000	.00
18	3750.00	3730.00	715.06	.076	54.46	.130	.049	.081	.850	.006	.00
19	3730.00	3710.00	199.76	.082	16.31	2.353	.895	1.458	14.585	.103	.00
20	3710.00	3690.00	167.94	.077	12.90	.293	.106	.187	1.741	.016	.00
21	3690.00	3670.00	182.96	.076	13.96	.195	.057	.138	.922	.005	.00
22	3670.00	3650.00	538.28	.076	40.87	.023	.010	.013	.128	.001	.00
23	3650.00	3630.00	736.27	.076	56.32	.084	.024	.059	.239	.001	.00
24	3630.00	3610.00	8838.82	.076	673.37	.013	.004	.009	.137	.000	.00
25	3610.00	3590.00	10203.55	.078	791.10	.541	.229	.311	3.381	.001	.00
26	3590.00	3570.00	14224.41	.082	1170.34	2.314	1.014	1.301	13.933	.048	.00
27	3570.00	3550.00	13846.98	.086	1190.83	3.139	1.440	1.699	19.029	.053	.00
28	3550.00	3530.00	11844.96	.093	1098.63	4.453	2.055	2.398	30.592	.075	.00
29	3530.00	3510.00	11350.85	.097	1106.48	5.531	2.360	3.171	34.501	.070	.00
30	3510.00	3490.00	11041.48	.104	1152.17	7.405	3.089	4.316	39.997	.066	.00
31	3490.00	3470.00	9981.41	.110	1096.14	8.491	3.651	4.840	46.422	.058	.00
32	3470.00	3450.00	8678.82	.110	951.26	7.802	3.255	4.547	42.293	.063	.00
33	3450.00	3430.00	633.74	.107	68.02	6.873	2.765	4.108	31.373	.061	.00
34	3430.00	3410.00	1462.82	.117	171.07	6.569	2.584	3.985	26.486	.056	.00
35	3410.00	3390.00	599.27	.112	67.33	5.623	2.317	3.305	24.522	.066	.00
36	3390.00	3370.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
37	3370.00	3350.00	.00	.000	.00	.000	.000	.000	.000	.000	.00

