

MINING RESERVE EVALUATION

DESCRIPTION : MINED RESERVES DEC 31 1987 TO DEC 31 1988

TOTAL FOR ALL BENCHES

TOP ELEVATION : 4270.00 [ft]
 BOTTOM ELEVATION : 3090.00 [ft]

TOP SURFACE GRID RECORD : 46 ultimate ultimate 1987 year end
 BOTTOM SURFACE GRID RECORD : 48 DECEMBER 1988 CUT SURFACE

CUMULATIVE RESULTS

CUT-OFF GRADES		ROCK-TYPE CODE	VOLUME [bcf x1000]	DENSITY [tn/bcf]	TONNAGE [TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [Cdn \$ x1000]
FROM [%Pb+Zn]	TO [%Pb+Zn]					[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
5.000	50.000	20	24.75	.085	2.11	6.553	2.712	3.841	59.782	.000	.00
5.000	50.000	21	1469.01	.089	130.92	6.600	2.474	4.126	63.563	.141	.00
5.000	50.000	22	2545.58	.089	225.79	6.709	2.430	4.279	55.600	.113	.00
5.000	50.000	23	2648.11	.089	234.61	6.682	2.430	4.252	55.570	.117	.00
5.000	50.000	30	2648.11	.089	234.61	6.682	2.430	4.252	55.570	.117	.00
5.000	50.000	31	2648.11	.089	234.61	6.682	2.430	4.252	55.570	.117	.00
5.000	50.000	32	4794.18	.089	428.76	6.855	2.574	4.281	51.798	.101	.00
5.000	50.000	33	5937.92	.091	537.78	7.250	2.634	4.615	47.347	.126	.00
5.000	50.000	40	5937.92	.091	537.78	7.250	2.634	4.615	47.347	.126	.00
5.000	50.000	50	18955.75	.111	2095.25	9.894	4.089	5.805	51.692	.076	.00
5.000	50.000	60	32831.81	.115	3765.48	9.978	4.302	5.677	55.888	.105	.00
5.000	50.000	70	36570.64	.114	4166.42	10.072	4.327	5.745	56.753	.104	.00
5.000	50.000	80	36728.85	.114	4181.98	10.058	4.323	5.735	56.745	.105	.00
4.000	5.000	20	36730.62	.114	4182.12	10.057	4.322	5.735	56.744	.105	.00
4.000	5.000	21	38163.39	.113	4305.33	9.898	4.243	5.655	55.920	.104	.00
4.000	5.000	22	38251.78	.113	4313.12	9.889	4.239	5.650	55.878	.103	.00
4.000	5.000	23	38442.70	.113	4329.91	9.867	4.229	5.639	55.769	.103	.00
4.000	5.000	30	38442.70	.113	4329.91	9.867	4.229	5.639	55.769	.103	.00
4.000	5.000	31	38442.70	.113	4329.91	9.867	4.229	5.639	55.769	.103	.00
4.000	5.000	32	38981.87	.112	4379.45	9.806	4.199	5.607	55.494	.102	.00
4.000	5.000	33	39070.26	.112	4387.05	9.797	4.194	5.602	55.451	.102	.00
4.000	5.000	40	39194.88	.112	4403.21	9.777	4.187	5.589	55.349	.102	.00
4.000	5.000	50	39415.86	.112	4430.96	9.745	4.174	5.570	55.169	.102	.00
4.000	5.000	60	39521.92	.112	4442.93	9.730	4.169	5.562	55.096	.102	.00
4.000	5.000	70	39521.92	.112	4442.93	9.730	4.169	5.562	55.096	.102	.00
4.000	5.000	80	39521.92	.112	4442.93	9.730	4.169	5.562	55.096	.102	.00
.010	4.000	20	39524.57	.112	4443.12	9.730	4.169	5.562	55.094	.102	.00
.010	4.000	21	40911.38	.111	4558.84	9.571	4.096	5.476	54.284	.102	.00
.010	4.000	22	40911.38	.111	4558.84	9.571	4.096	5.476	54.284	.102	.00
.010	4.000	23	42036.57	.111	4655.46	9.435	4.031	5.404	53.449	.100	.00
.010	4.000	30	42036.57	.111	4655.46	9.435	4.031	5.404	53.449	.100	.00

MINING RESERVE EVALUATION

DESCRIPTION : REMAINING RESERVES - DEC 31 1988 TO CLOUTIER'S REVISED PIT

TOTAL FOR ALL BENCHES

TOP ELEVATION : 4270.00 [ft]
 BOTTOM ELEVATION : 3090.00 [ft]

TOP SURFACE GRID RECORD : 48 DECEMBER 1988 CUT SURFACE
 BOTTOM SURFACE GRID RECORD : 26 Ult-03 merges to F86-01

INCREMENTAL RESULTS

CUT-OFF GRADES FROM	TO	ROCK-TYPE CODE	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/t] [Au g/t]		
5.000	50.000	20	31.82	.085	2.71	5.561	2.440	3.120	41.785	.250	.00
5.000	50.000	21	23385.75	.093	2175.41	7.142	2.292	4.850	28.224	.159	.00
5.000	50.000	22	496.74	.088	43.61	6.846	2.406	4.440	40.606	.137	.00
5.000	50.000	23	922.77	.094	86.61	7.030	2.134	4.896	25.255	.140	.00
5.000	50.000	32	2393.55	.088	211.45	7.442	3.245	4.198	50.063	.081	.00
5.000	50.000	33	1385.04	.099	137.42	7.080	3.028	4.052	44.470	.219	.00
5.000	50.000	40	509.12	.108	54.93	5.632	1.939	3.693	20.254	.149	.00
5.000	50.000	50	58096.74	.125	7274.76	9.430	3.651	5.779	35.338	.109	.00
5.000	50.000	60	10161.99	.123	1248.46	10.071	4.195	5.876	54.577	.185	.00
5.000	50.000	70	2541.16	.121	308.07	8.939	3.767	5.172	56.050	.067	.00
4.000	5.000	20	4.42	.085	.38	4.778	2.153	2.624	41.641	.184	.00
4.000	5.000	21	11128.96	.088	984.43	4.510	1.451	3.059	24.497	.139	.00
4.000	5.000	22	123.74	.082	10.21	4.655	1.910	2.746	34.698	.084	.00
4.000	5.000	23	533.87	.098	52.09	4.478	1.426	3.051	20.006	.051	.00
4.000	5.000	32	6.19	.091	.56	4.274	1.821	2.453	29.500	.000	.00
4.000	5.000	33	123.74	.100	12.34	4.544	1.669	2.874	25.892	.154	.00
4.000	5.000	40	2958.36	.116	343.69	4.391	1.839	2.552	21.632	.192	.00
4.000	5.000	50	804.33	.117	94.11	4.627	2.001	2.626	21.828	.129	.00
4.000	5.000	70	17.68	.103	1.82	4.482	1.504	2.978	22.000	.115	.00
.010	4.000	20	53.92	.078	4.18	2.373	1.289	1.085	27.199	.064	.00
.010	4.000	21	9382.41	.089	830.84	3.332	1.087	2.245	20.123	.110	.00
.010	4.000	22	795.49	.082	64.91	2.866	1.121	1.745	21.463	.119	.00
.010	4.000	23	1890.62	.094	177.48	1.841	.610	1.231	15.143	.078	.00
.010	4.000	32	17.68	.094	1.66	3.579	1.150	2.429	23.800	.000	.00
.010	4.000	33	318.20	.097	30.87	2.842	.986	1.856	23.355	.134	.00
.010	4.000	40	37421.84	.114	4272.12	2.501	.953	1.549	14.295	.105	.00
.010	4.000	50	144.96	.104	15.01	3.164	1.526	1.638	25.845	.210	.00
.010	4.000	60	53.03	.107	5.69	2.047	1.094	.953	24.515	.252	.00
.010	4.000	70	35.36	.103	3.66	3.722	1.162	2.560	26.794	.198	.00
.000	.010	20	30.94	.089	2.76	.000	.000	.000	.000	.000	.00
.000	.010	21	1568.01	.089	139.71	.000	.000	.000	.000	.000	.00
.000	.010	22	17.68	.089	1.58	.000	.000	.000	.000	.000	.00
.000	.010	23	747.76	.089	66.63	.000	.000	.000	.000	.000	.00

.000	.010	22	17.68	.089	1.58	.000	.000	.000	.000	.000	.00
.000	.010	23	747.76	.089	66.63	.000	.000	.000	.000	.000	.00
.000	.010	31	36.24	.086	3.13	.000	.000	.000	.000	.000	.00
.000	.010	32	699.15	.086	60.34	.000	.000	.000	.000	.000	.00
.000	.010	33	1549.45	.097	149.99	.000	.000	.000	.000	.000	.00
.000	.010	40	675.29	.116	78.33	.000	.000	.000	.000	.000	.00
.000	.010	50	312.01	.125	38.85	.000	.000	.000	.000	.000	.00
.000	.010	60	35.36	.125	4.42	.000	.000	.000	.000	.000	.00
.000	.010	70	1036.79	.117	121.20	.000	.000	.000	.000	.000	.00
.000	9999.000	100	123498.70	.076	9373.54	.000	.000	.000	.000	.000	.00
.000	9999.000	110	5947.65	.076	451.43	.000	.000	.000	.000	.000	.00
.000	9999.000	120	32050.45	.076	2432.63	.000	.000	.000	.000	.000	.00
.000	9999.000	130	256.33	.076	19.46	.000	.000	.000	.000	.000	.00
.000	9999.000	150	2964.54	.076	225.01	.000	.000	.000	.000	.000	.00
.000	9999.000	160	7378.65	.076	560.04	.000	.000	.000	.000	.000	.00
.000	9999.000	170	80199.95	.076	6087.16	.000	.000	.000	.000	.000	.00
.000	9999.000	180	19707.92	.076	1495.83	.000	.000	.000	.000	.000	.00
.000	9999.000	190	6885.45	.076	522.61	.000	.000	.000	.000	.000	.00

TOTAL			451337.80	.089	40284.10	3.081	1.168	1.913	13.517	.056	.00
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MINING RESERVE EVALUATION

DESCRIPTION : REMAINING RESERVES - DEC 31 1988 TO CLOUTIER'S REVISED PIT

TOTAL FOR ALL BENCHES

TOP ELEVATION : 4270.00 [ft]
 BOTTOM ELEVATION : 3090.00 [ft]

TOP SURFACE GRID RECORD : 48 DECEMBER 1988 CUT SURFACE
 BOTTOM SURFACE GRID RECORD : 26 Ult-02 merged to FB6-01

CUMULATIVE RESULTS

CUT-OFF GRADES FROM	TO	ROCK-TYPE CODE	VOLUME		DENSITY [tn/bcf]	TONNAGE		AVERAGE GRADES				ECONOMIC FACTOR
			[bcf	x1000]		[TONS x1000]	[%Pb+Zn]	[%Pb] [%Zn] [Ag g/t]	[Au g/t]	
5.000	50.000	20	31.82		.085	2.71	5.561	2.440	3.120	41.785	.250	.00
5.000	50.000	21	23417.57		.093	2178.12	7.140	2.292	4.848	28.241	.159	.00
5.000	50.000	22	23914.31		.093	2221.73	7.134	2.294	4.840	28.484	.159	.00
5.000	50.000	23	24837.09		.093	2308.34	7.130	2.288	4.842	28.363	.158	.00
5.000	50.000	30	24837.09		.093	2308.34	7.130	2.288	4.842	28.363	.158	.00
5.000	50.000	31	24837.09		.093	2308.34	7.130	2.288	4.842	28.363	.158	.00
5.000	50.000	32	27230.64		.093	2519.79	7.156	2.369	4.788	30.184	.152	.00
5.000	50.000	33	28615.68		.093	2657.21	7.152	2.403	4.750	30.923	.155	.00
5.000	50.000	40	29124.80		.093	2712.14	7.122	2.393	4.728	30.707	.155	.00
5.000	50.000	50	87221.54		.115	9986.90	8.803	3.309	5.494	34.080	.122	.00
5.000	50.000	60	97383.53		.115	11235.36	8.944	3.408	5.536	36.358	.129	.00
5.000	50.000	70	99924.69		.116	11543.43	8.944	3.417	5.527	36.883	.127	.00
5.000	50.000	80	99924.69		.116	11543.43	8.944	3.417	5.527	36.883	.127	.00
4.000	5.000	20	99929.10		.116	11543.81	8.944	3.417	5.527	36.883	.127	.00
4.000	5.000	21	111058.10		.113	12528.24	8.596	3.263	5.333	35.910	.128	.00
4.000	5.000	22	111181.80		.113	12538.45	8.592	3.262	5.331	35.909	.128	.00
4.000	5.000	23	111715.70		.113	12590.54	8.575	3.254	5.321	35.843	.128	.00
4.000	5.000	30	111715.70		.113	12590.54	8.575	3.254	5.321	35.843	.128	.00
4.000	5.000	31	111715.70		.113	12590.54	8.575	3.254	5.321	35.843	.128	.00
4.000	5.000	32	111721.90		.113	12591.10	8.575	3.254	5.321	35.843	.128	.00
4.000	5.000	33	111845.60		.113	12603.44	8.571	3.253	5.319	35.833	.128	.00
4.000	5.000	40	114804.00		.113	12947.13	8.460	3.215	5.245	35.456	.130	.00
4.000	5.000	50	115608.30		.113	13041.25	8.433	3.206	5.226	35.358	.130	.00
4.000	5.000	60	115608.30		.113	13041.25	8.433	3.206	5.226	35.358	.130	.00
4.000	5.000	70	115626.00		.113	13043.07	8.432	3.206	5.226	35.356	.130	.00
4.000	5.000	80	115626.00		.113	13043.07	8.432	3.206	5.226	35.356	.130	.00
.010	4.000	20	115679.90		.113	13047.25	8.430	3.205	5.225	35.353	.130	.00
.010	4.000	21	125062.30		.111	13878.09	8.125	3.079	5.046	34.442	.128	.00
.010	4.000	22	125857.80		.111	13943.00	8.100	3.069	5.031	34.381	.128	.00
.010	4.000	23	127748.40		.111	14120.47	8.022	3.039	4.983	34.139	.128	.00
.010	4.000	30	127748.40		.111	14120.47	8.022	3.039	4.983	34.139	.128	.00
.010	4.000	31	127748.40		.111	14120.47	8.022	3.039	4.983	34.139	.128	.00
.010	4.000	32	127766.10		.111	14122.13	8.021	3.038	4.983	34.138	.128	.00

MINING RESERVE EVALUATION

DESCRIPTION : MINED RESERVES - START-UP TO DEC 31 1988

TOTAL FOR ALL BENCHES

TOP ELEVATION : 4270.00 [ft]
 BOTTOM ELEVATION : 3090.00 [ft]

TOP SURFACE GRID RECORD : 7 Faro pit surface at mining startup (January/86 - from topo map)
 BOTTOM SURFACE GRID RECORD : 48 DECEMBER 1988 CUT SURFACE

INCREMENTAL RESULTS

CUT-OFF GRADES FROM [%Pb+Zn]	TO [%Pb+Zn]	ROCK-TYPE CODE	VOLUME		DENSITY [tn/bcf]	TONNAGE		AVERAGE GRADES				ECONOMIC FACTOR [Cdn \$ x1000]
			[bcf	x1000]		[TONS x1000]	[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	[Au g/t]	
5.000	50.000	20	328.80		.084	27.66	5.661	2.251	3.411	42.228	.035	.00
5.000	50.000	21	9085.43		.092	836.40	6.519	2.135	4.383	32.818	.171	.00
5.000	50.000	22	1377.09		.088	121.13	6.670	2.332	4.338	46.041	.059	.00
5.000	50.000	23	1678.49		.095	160.11	6.265	2.522	3.743	36.827	.256	.00
5.000	50.000	32	2803.68		.091	255.11	7.151	2.852	4.299	53.942	.093	.00
5.000	50.000	33	4730.54		.096	455.64	8.742	2.887	5.855	42.677	.169	.00
5.000	50.000	40	17.68		.125	2.20	5.254	2.070	3.184	27.000	.154	.00
5.000	50.000	50	32519.82		.123	3987.38	9.879	4.030	5.849	42.757	.114	.00
5.000	50.000	60	24290.88		.122	2973.76	10.037	4.564	5.472	60.828	.153	.00
5.000	50.000	70	5874.28		.110	648.82	10.611	4.225	6.387	57.500	.078	.00
5.000	50.000	80	777.82		.100	77.76	7.372	3.589	3.782	55.680	.127	.00
4.000	5.000	20	187.38		.083	15.59	4.644	1.874	2.769	34.469	.137	.00
4.000	5.000	21	4319.53		.088	382.24	4.532	1.517	3.015	25.610	.155	.00
4.000	5.000	22	88.39		.088	7.79	4.787	1.839	2.948	32.497	.000	.00
4.000	5.000	23	951.94		.095	90.19	4.420	1.702	2.718	28.509	.163	.00
4.000	5.000	32	824.66		.090	74.36	4.417	1.681	2.736	33.827	.029	.00
4.000	5.000	33	247.49		.093	22.90	4.628	1.323	3.305	26.266	.291	.00
4.000	5.000	40	389.79		.115	44.91	4.301	1.881	2.420	24.640	.107	.00
4.000	5.000	50	360.62		.125	45.23	4.649	2.028	2.621	25.060	.071	.00
4.000	5.000	60	123.74		.115	14.26	4.579	2.023	2.556	26.879	.187	.00
.010	4.000	20	80.43		.076	6.09	2.332	.771	1.561	14.872	.068	.00
.010	4.000	21	3070.61		.086	263.62	3.396	1.187	2.210	21.403	.129	.00
.010	4.000	22	17.68		.083	1.47	3.081	1.196	1.885	27.900	.000	.00
.010	4.000	23	1354.11		.087	117.61	3.091	1.055	2.035	15.800	.031	.00
.010	4.000	32	459.62		.073	33.64	3.306	1.614	1.693	51.799	1.332	.00
.010	4.000	33	1184.40		.093	109.87	2.233	.665	1.568	15.862	.207	.00
.010	4.000	40	18279.56		.117	2132.15	2.379	.944	1.435	15.120	.142	.00
.010	4.000	50	14.14		.125	1.77	3.946	1.997	1.949	29.900	.000	.00
.010	4.000	60	35.36		.111	3.93	3.692	1.859	1.834	30.705	.257	.00
.000	.010	20	118.44		.089	10.55	.000	.000	.000	.000	.000	.00
.000	.010	21	470.23		.089	41.90	.000	.000	.000	.000	.000	.00
.000	.010	22	17.68		.088	1.47	.000	.000	.000	.000	.000	.00
.000	.010	23	1354.11		.087	117.61	.000	.000	.000	.000	.000	.00
.000	.010	32	459.62		.073	33.64	.000	.000	.000	.000	.000	.00
.000	.010	33	1184.40		.093	109.87	.000	.000	.000	.000	.000	.00
.000	.010	40	18279.56		.117	2132.15	.000	.000	.000	.000	.000	.00
.000	.010	50	14.14		.125	1.77	.000	.000	.000	.000	.000	.00
.000	.010	60	35.36		.111	3.93	.000	.000	.000	.000	.000	.00

.000	.010	22	212.13	.089	18.90	.000	.000	.000	.000	.000	.00
.000	.010	23	740.69	.089	66.00	.000	.000	.000	.000	.000	.00
.000	.010	30	70.71	.086	6.10	.000	.000	.000	.000	.000	.00
.000	.010	31	17.68	.086	1.53	.000	.000	.000	.000	.000	.00
.000	.010	32	510.88	.086	44.09	.000	.000	.000	.000	.000	.00
.000	.010	33	1545.91	.097	149.64	.000	.000	.000	.000	.000	.00
.000	.010	40	544.47	.116	63.16	.000	.000	.000	.000	.000	.00
.000	.010	50	980.23	.124	122.04	.000	.000	.000	.000	.000	.00
.000	.010	60	194.45	.125	24.33	.000	.000	.000	.000	.000	.00
.000	.010	70	1260.42	.117	147.34	.000	.000	.000	.000	.000	.00
.000	.010	80	229.81	.099	22.82	.000	.000	.000	.000	.000	.00
.000	9999.000	100	391649.70	.076	29726.09	.000	.000	.000	.000	.000	.00
.000	9999.000	110	9437.21	.076	716.28	.000	.000	.000	.000	.000	.00
.000	9999.000	120	39888.74	.076	3027.55	.000	.000	.000	.000	.000	.00
.000	9999.000	130	6904.01	.076	524.01	.000	.000	.000	.000	.000	.00
.000	9999.000	150	55266.46	.076	4194.72	.000	.000	.000	.000	.000	.00
.000	9999.000	160	83483.02	.076	6336.34	.000	.000	.000	.000	.000	.00
.000	9999.000	170	75652.42	.076	5742.01	.000	.000	.000	.000	.000	.00
.000	9999.000	180	31110.89	.076	2361.32	.000	.000	.000	.000	.000	.00
.000	9999.000	190	7847.99	.076	595.66	.000	.000	.000	.000	.000	.00

TOTAL			823610.40	.081	66855.97	1.493	.613	.880	7.909	.026	.00
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MINING RESERVE EVALUATION

DESCRIPTION : MINED RESERVES - START-UP TO DEC 31 1988

TOTAL FOR ALL BENCHES

TOP ELEVATION : 4270.00 [ft]
 BOTTOM ELEVATION : 3090.00 [ft]

TOP SURFACE GRID RECORD : 7 Faro pit surface at mining startup (January/86 - from topo map)
 BOTTOM SURFACE GRID RECORD : 48 DECEMBER 1988 CUT SURFACE

CUMULATIVE RESULTS

CUT-OFF GRADES FROM [%Pb+Zn]	TO [%Pb+Zn]	ROCK-TYPE CODE	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/t]		[Au g/t]
5.000	50.000	20	328.80	.084	27.66	5.661	2.251	3.411	42.228	.035	.00
5.000	50.000	21	9414.23	.092	864.07	6.491	2.139	4.352	33.119	.166	.00
5.000	50.000	22	10791.32	.091	985.19	6.513	2.163	4.350	34.708	.153	.00
5.000	50.000	23	12469.81	.092	1145.30	6.478	2.213	4.266	35.004	.167	.00
5.000	50.000	30	12469.81	.092	1145.30	6.478	2.213	4.266	35.004	.167	.00
5.000	50.000	31	12469.81	.092	1145.30	6.478	2.213	4.266	35.004	.167	.00
5.000	50.000	32	15273.49	.092	1400.41	6.601	2.329	4.272	38.454	.154	.00
5.000	50.000	33	20004.03	.093	1856.05	7.127	2.466	4.660	39.490	.157	.00
5.000	50.000	40	20021.71	.093	1858.25	7.124	2.466	4.659	39.476	.157	.00
5.000	50.000	50	52541.53	.111	5845.63	9.004	3.533	5.471	41.714	.128	.00
5.000	50.000	60	76832.41	.115	8819.40	9.352	3.880	5.471	48.159	.136	.00
5.000	50.000	70	82706.69	.114	9468.22	9.438	3.904	5.534	48.799	.132	.00
5.000	50.000	80	83484.51	.114	9545.98	9.421	3.901	5.520	48.855	.132	.00
4.000	5.000	20	83671.89	.114	9561.57	9.414	3.898	5.515	48.832	.132	.00
4.000	5.000	21	87991.42	.113	9943.80	9.226	3.807	5.419	47.939	.133	.00
4.000	5.000	22	88079.81	.113	9951.60	9.222	3.805	5.417	47.927	.133	.00
4.000	5.000	23	89031.76	.113	10041.79	9.179	3.786	5.393	47.753	.133	.00
4.000	5.000	30	89031.76	.113	10041.79	9.179	3.786	5.393	47.753	.133	.00
4.000	5.000	31	89031.76	.113	10041.79	9.179	3.786	5.393	47.753	.133	.00
4.000	5.000	32	89856.42	.113	10116.15	9.144	3.771	5.374	47.650	.133	.00
4.000	5.000	33	90103.91	.113	10139.04	9.134	3.765	5.369	47.602	.133	.00
4.000	5.000	40	90493.70	.113	10183.96	9.113	3.757	5.356	47.501	.133	.00
4.000	5.000	50	90854.33	.113	10229.19	9.093	3.749	5.344	47.401	.133	.00
4.000	5.000	60	90978.07	.113	10243.44	9.087	3.747	5.340	47.373	.133	.00
4.000	5.000	70	90978.07	.113	10243.44	9.087	3.747	5.340	47.373	.133	.00
4.000	5.000	80	90978.07	.113	10243.44	9.087	3.747	5.340	47.373	.133	.00
.010	4.000	20	91058.51	.113	10249.53	9.083	3.745	5.338	47.353	.133	.00
.010	4.000	21	94129.11	.112	10513.14	8.940	3.681	5.259	46.703	.133	.00
.010	4.000	22	94146.79	.112	10514.61	8.939	3.681	5.259	46.700	.133	.00
.010	4.000	23	95500.90	.111	10632.22	8.875	3.652	5.223	46.358	.131	.00
.010	4.000	30	95500.90	.111	10632.22	8.875	3.652	5.223	46.358	.131	.00
.010	4.000	31	95500.90	.111	10632.22	8.875	3.652	5.223	46.358	.131	.00
.010	4.000	32	95960.52	.111	10665.86	8.857	3.645	5.212	46.376	.135	.00

.010	4.000	31	95500.90	.111	10632.22	8.875	3.652	5.223	46.358	.131	.00
.010	4.000	32	95960.52	.111	10665.86	8.857	3.645	5.212	46.376	.135	.00
.010	4.000	33	97144.91	.111	10775.73	8.790	3.615	5.175	46.064	.136	.00
.010	4.000	40	115424.50	.112	12907.88	7.731	3.174	4.557	40.953	.137	.00
.010	4.000	50	115438.60	.112	12909.65	7.730	3.173	4.557	40.951	.137	.00
.010	4.000	60	115474.00	.112	12913.58	7.729	3.173	4.556	40.948	.137	.00
.010	4.000	70	115474.00	.112	12913.58	7.729	3.173	4.556	40.948	.137	.00
.010	4.000	80	115474.00	.112	12913.58	7.729	3.173	4.556	40.948	.137	.00
.000	.010	20	115592.40	.112	12924.13	7.723	3.170	4.552	40.915	.137	.00
.000	.010	21	116062.60	.112	12966.03	7.698	3.160	4.537	40.783	.136	.00
.000	.010	22	116274.80	.112	12984.93	7.686	3.156	4.531	40.723	.136	.00
.000	.010	23	117015.50	.112	13050.93	7.648	3.140	4.508	40.517	.135	.00
.000	.010	30	117086.20	.112	13057.03	7.644	3.138	4.506	40.498	.135	.00
.000	.010	31	117103.90	.112	13058.56	7.643	3.138	4.505	40.494	.135	.00
.000	.010	32	117614.70	.111	13102.64	7.617	3.127	4.490	40.357	.135	.00
.000	.010	33	119160.60	.111	13252.29	7.531	3.092	4.439	39.902	.133	.00
.000	.010	40	119705.10	.111	13315.45	7.496	3.077	4.418	39.712	.133	.00
.000	.010	50	120685.30	.111	13437.49	7.428	3.049	4.378	39.352	.132	.00
.000	.010	60	120879.80	.111	13461.81	7.414	3.044	4.370	39.281	.131	.00
.000	.010	70	122140.20	.111	13609.16	7.334	3.011	4.323	38.855	.130	.00
.000	.010	80	122370.00	.111	13631.97	7.322	3.006	4.316	38.790	.130	.00
.000	9999.000	100	514019.70	.084	43358.06	2.302	.945	1.357	12.196	.041	.00
.000	9999.000	110	523456.90	.084	44074.35	2.265	.930	1.335	11.998	.040	.00
.000	9999.000	120	563345.70	.084	47101.90	2.119	.870	1.249	11.226	.038	.00
.000	9999.000	130	570249.70	.084	47625.92	2.096	.860	1.235	11.103	.037	.00
.000	9999.000	150	625516.10	.083	51820.64	1.926	.791	1.135	10.204	.034	.00
.000	9999.000	160	708999.10	.082	58156.98	1.716	.705	1.012	9.092	.030	.00
.000	9999.000	170	784651.50	.081	63898.99	1.562	.641	.921	8.275	.028	.00
.000	9999.000	180	815762.40	.081	66260.30	1.506	.618	.888	7.980	.027	.00
.000	9999.000	190	823610.40	.081	66855.97	1.493	.613	.880	7.909	.026	.00
.000	9999.000	300	823610.40	.081	66855.97	1.493	.613	.880	7.909	.026	.00
.000	9999.000	400	823610.40	.081	66855.97	1.493	.613	.880	7.909	.026	.00
.000	9999.000	500	823610.40	.081	66855.97	1.493	.613	.880	7.909	.026	.00
.000	9999.000	***	823610.40	.081	66855.97	1.493	.613	.880	7.909	.026	.00

TOTAL			823610.40	.081	66855.97	1.493	.613	.880	7.909	.026	.00
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MINING RESERVE EVALUATION

DESCRIPTION : MINED RESERVES DEC 31 1987 TO DEC 31 1988

TOTAL FOR ALL BENCHES

TOP ELEVATION : 4270.00 [ft]
 BOTTOM ELEVATION : 3090.00 [ft]

TOP SURFACE GRID RECORD : 46 ultimaye ultimate 1987 year end }
 BOTTOM SURFACE GRID RECORD : 48 DECEMBER 1988 CUT SURFACE }

INCREMENTAL RESULTS

CUT-OFF GRADES		ROCK-TYPE CODE	VOLUME		DENSITY [tn/bcf]	TONNAGE		AVERAGE GRADES			ECONOMIC FACTOR
FROM [%Pb+Zn]	TO [%Pb+Zn]		[bcf	x1000]		[TONS x1000]	[%Pb+Zn]	[%Pb]	[%Zn]	[Ag g/t]	
5.000	50.000	20	24.75	.085	2.11	6.553	2.712	3.841	59.782	.000	.00
5.000	50.000	21	1444.26	.089	128.82	6.600	2.470	4.131	63.625	.144	.00
5.000	50.000	22	1076.57	.088	94.86	6.861	2.370	4.490	44.611	.075	.00
5.000	50.000	23	102.53	.086	8.82	5.972	2.422	3.550	54.806	.217	.00
5.000	50.000	32	2146.07	.090	194.15	7.065	2.748	4.317	47.240	.082	.00
5.000	50.000	33	1143.74	.095	109.02	8.801	2.872	5.929	29.842	.223	.00
5.000	50.000	50	13017.83	.120	1557.47	10.807	4.591	6.216	53.192	.059	.00
5.000	50.000	60	13876.06	.120	1670.23	10.084	4.569	5.516	61.152	.142	.00
5.000	50.000	70	3738.82	.107	400.93	10.946	4.563	6.383	64.879	.097	.00
5.000	50.000	80	158.21	.098	15.57	6.321	3.153	3.168	54.645	.328	.00
4.000	5.000	20	1.77	.078	.14	4.405	1.357	3.048	20.700	.086	.00
4.000	5.000	21	1432.77	.086	123.21	4.486	1.557	2.930	27.950	.053	.00
4.000	5.000	22	88.39	.088	7.79	4.787	1.839	2.948	32.497	.000	.00
4.000	5.000	23	170.92	.088	16.79	4.390	1.634	2.756	27.735	.064	.00
4.000	5.000	32	539.17	.092	49.54	4.423	1.582	2.841	31.453	.016	.00
4.000	5.000	33	88.39	.086	7.60	4.506	1.531	2.975	30.727	.166	.00
4.000	5.000	40	124.63	.130	16.16	4.334	2.291	2.042	27.709	.069	.00
4.000	5.000	50	220.97	.126	27.75	4.655	2.132	2.522	26.566	.044	.00
4.000	5.000	60	106.07	.113	11.96	4.544	2.051	2.493	28.102	.211	.00
.010	4.000	20	2.65	.075	.20	1.563	.547	1.016	12.179	.061	.00
.010	4.000	21	1386.81	.083	115.72	3.478	1.291	2.187	23.208	.077	.00
.010	4.000	23	1125.18	.086	76.62	2.981	.971	2.010	14.046	.004	.00
.010	4.000	33	427.80	.091	39.04	1.665	.662	1.003	14.828	.150	.00
.010	4.000	40	4938.25	.120	591.80	2.196	1.128	1.068	18.280	.066	.00
.010	4.000	50	14.14	.125	1.77	3.946	1.997	1.949	29.900	.000	.00
.010	4.000	60	35.36	.111	3.93	3.692	1.859	1.834	30.705	.257	.00
.000	.010	20	30.94	.089	2.76	.000	.000	.000	.000	.000	.00
.000	.010	21	436.64	.089	38.90	.000	.000	.000	.000	.000	.00
.000	.010	22	212.13	.089	18.90	.000	.000	.000	.000	.000	.00
.000	.010	23	251.02	.089	22.37	.000	.000	.000	.000	.000	.00
.000	.010	32	271.35	.086	23.42	.000	.000	.000	.000	.000	.00
.000	.010	33	282.84	.097	27.38	.000	.000	.000	.000	.000	.00

.000	.010	33	282.84	.097	27.38	.000	.000	.000	.000	.000	.00
.000	.010	40	71.59	.116	8.30	.000	.000	.000	.000	.000	.00
.000	.010	50	430.45	.124	53.59	.000	.000	.000	.000	.000	.00
.000	.010	60	45.08	.125	5.64	.000	.000	.000	.000	.000	.00
.000	.010	70	211.25	.117	24.69	.000	.000	.000	.000	.000	.00
.000	.010	80	106.07	.099	10.53	.000	.000	.000	.000	.000	.00
.000	9999.000	100	106100.40	<u>.076</u>	8053.01	.000	.000	.000	.000	.000	.00
.000	9999.000	110	3052.93	<u>.076</u>	231.72	.000	.000	.000	.000	.000	.00
.000	9999.000	120	8610.78	.076	653.56	.000	.000	.000	.000	.000	.00
.000	9999.000	130	2010.83	.076	152.62	.000	.000	.000	.000	.000	.00
.000	9999.000	150	6217.23	.076	471.89	.000	.000	.000	.000	.000	.00
.000	9999.000	160	22553.15	.076	1711.78	.000	.000	.000	.000	.000	.00
.000	9999.000	170	28879.11	.076	2191.92	.000	.000	.000	.000	.000	.00
.000	9999.000	180	6217.23	.076	471.89	.000	.000	.000	.000	.000	.00
.000	9999.000	190	68.94	.076	5.23	.000	.000	.000	.000	.000	.00

TOTAL			233512.10	.083	19472.12	2.327	1.000	1.327	13.373	.026	.00
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