003487

Faro Computer Reserve Predictions vs Actual Blasthole Results By Year and Bench

F8908 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1986 to December 31 1987

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3850	14,928	2.44	36,347	6.60	2.39	4.21	37.1	0.16	2,399
3830	26,031	2.44	63,555	6.97	2.52	4.45	36.4	0.20	4,430
3810	36,418	2.84	103,265	8.18	2.90	5.28	35.8	0.19	8,447
3790	57,535	3.06	176,054	8.97	3.15	5.83	33.4	0.18	15,818
3770	96,783	2.95	285,684	8.35	2.99	5.36	30.1	0.14	23,855
3750	103,220	2.97	306,432	7.65	2.84	4.80	35.4	0.20	23,411
3730	104,713	2.92	305,644	6.86	2.63	4.24	36.4	0.18	20,998
3710	122,160	2.90	354,512	6.65	2.78	3.87	40.6	0.13	23,575
3690	67,766	2.85	193,012	6.39	2.31	4.08	31.7	0.12	12,333
3670	43,384	2.83	122,845	6.13	2.21	3.92	29.6	0.10	7,530
3650	32,531	2.99	97,394	6.58	2.78	3.80	36.0	0.05	6,409
3630	53,740	3.15	169,243	6.41	2.65	3.76	27.9	0.09	10,848
3610	55,794	3.17	176,710	7.28	2.84	4.44	26.0	0.09	12,864
3590	76,505	3.10	236,949	6.65	2.45	4.20	23.7	0.07	15,757
3570	68,885	3.25	223,868	6.49	2.53	3.96	22.7	0.06	14,529
3550	108,196	3.30	356,507	7.35	2.87	4.47	31.3	0.04	26,168
3530	167,970	3.27	549,870	7.76	2.93	4.83	32.8	0.06	42,670
3510	219,096	3.11	681,977	8.67	3.56	5.11	41.9	0.07	59,127
3490	188,215	3.10	582,873	8.54	3.70	4.83	47.5	0.04	49,719
3470	160,568	2.97	477,575	7.29	3.06	4.23	39.7	0.04	34,815
3450	95,726	3.16	302,262	8.22	3.37	4.85	40.9	0.21	24,846
3430	59,244	3.34	197,971	9.66	3.82	5.83	50.9	0.74	19,104
3410	1,430	3.39	4,855	6.95	2.86	4.08	26.2	0.04	337
3390	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3370	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3350	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3330	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3310	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
Total	1,960,839	3.06	6,005,397	7.66	3.03	4.63	36.38	0.12	459,981

Blasthole Calculation

Period: January 1 1986 to December 31 1987

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0	0.00	0					0
3910	0	0.00	0					0
3890	14,727	3.00	44,180	7.80	3.10	4.70	NA	3,446
3870	9,570	3.00	28,711	7.46	2.81	4.65	NA	2,142
3850	9,850	3.00	29,549	6.24	2.41	3.83	NA	1,844
3830	33,849	3.00	101,547	6.77	2.66	4.11	NA	6,875
3810	40,107	3.00	120,320	7.06	2.97	4.09	NA	8,495
3790	63,360	3.00	190,080	8.28	3.40	4.88	NA	15,739
3770	75,947	3.00	227,840	6.92	2.66	4.26	33.7	15,767
3750	91,354	3.00	274,062	7.00	2.79	4.21	39.2	19,184
3730	136,085	3.00	408,256	7.05	2.80	4.25	41.8	28,782
3710	113,390	3.00	340,170	6.83	2.65	4.18	36.9	23,234
3690	79,885	3.00	239,655	6.58	2.40	4.18	30.8	15,769
3670	37,725	3.00	113,175	6.25	2.34	3.91	32.1	7,073
3650	2,133	3.00	6,400	7.01	2.34	4.67	27.0	449
3630	76,298	3.00	228,893	6.61	2.52	4.09	24.9	15,130
3610	52,071	3.00	156,212	7.48	2.60	4.88	23.6	11,685
3590	82,801	3.00	248,404	7.54	2.78	4.76	29.7	18,730
3570	47,414	3.00	142,243	7.07	2.71	4.36	28.0	10,057
3550	99,850	3.00	299,549	7.78	3.21	4.57	38.5	23,305
3530	172,950	3.00	518,849	8.69	3.40	5.29	35.1	45,088
3510	231,307	3.00	693,922	9.25	3.80	5.45	46.4	64,188
3490	203,989	3.00	611,968	8.95	3.77	5.18	45.8	54,771
3470	148,273	3.00	444,818	8.54	3.56	4.98	43.0	37,987
3450	101,215	3.00	303,645	8.00	3.40	4.60	40.5	24,292
3430	66,668	3.00	200,005	8.08	3.37	4.71	36.5	16,160
3410	1,778	3.00	5,333	10.19	4.75	5.44	48.0	543
3390	0	0.00	0					0
3370	0	0.00	0					0
3350	0	0.00	0					0
3330	0	0.00	0					0
3310	0	0.00	0					0
Total	1,992,595	3.00	5,977,786	7.87	3.16	4.72	NA	478,733

%VARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1986 to December 31 1987

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950								
3910								
3890	100.0	100.0	100.0	100.0	100.0	100.0		100.0
3870	100.0	100.0	100.0	100.0	100.0	100.0		100.0
3850	-51.6	18.8	-23.0	-5.8	0.8	-9.9		-30.1
3830	23.1	18.6	37.4	-3.0	5.3	-8.3		35.6
3810	9.2	5.5	14.2	-15.9	2.4	-29.1		8.6
3790	9.2	-2.0	7.4	-8.3	7.4	-19.5		-0.5
3770	-27.4	1.6	-25.4	-20.7	-12.4	-25.8	10.8	-51.3
3750	-13.0	1.0	-11.8	-9.3	-1.8	-14.0	9.7	-22.0
3730	23.1	2.7	25.1	2.7	6.1	0.2	13.0	27.0
3710	-7.7	3.3	-4.2	2.6	-4.9	7.4	-10.0	-1.5
3690	15.2	5.1	19.5	2.9	3.7	2.4	-2.9	21.8
3670	-15.0	5.6	-8.5	1.9	5.6	-0.3	7.8	-6.5
3650	-1424.9	0.2	-1421.8	6.1	-18.8	18.6	-33.3	-1328.4
3630	29.6	-5.0	26.1	3.0	-5.2	8.1	-12.1	28.3
3610	-7.1	-5.6	-13.1	2.7	-9.2	9.0	-10.2	-10.1
3590	7.6	-3.2	4.6	11.8	11.9	11.8	20.3	15.9
3570	-45.3	-8.3	-57.4	8.2	6.6	9.2	18.9	-44.5
3550	-8.4	-9.8	-19.0	5.5	10.6	2.2	18.8	-12.3
3530	2.9	-9.1	-6.0	10.7	13.8	8.7	6.6	5.4
3510	5.3	-3.8	1.7	6.3	6.3	6.2	9.7	7.9
3490	7.7	-3.2	4.8	4.6	1.9	6.8	-3.7	9.2
3470	-8.3	0.9	-7.4	14.6	14.0	15.1	7.6	8.4
3450	5.4	-5.3	0.5	-2.8	0.9	-5.4	-0.9	-2.3
3430	11.1	-11.4	1.0	-19.6	-13.4	-23.8	-39.6	-18.2
3410	19.5	-13.1	9.0	31.8	39.8	25.0	45.4	38.0
3390								
3370								
3350								
3330								
3310								
Total	1.6	-2.1	-0.5	2.7	4.2	1.8	NA	2.3

Faro Computer Reserve Predictions vs Actual Blasthole Results By Year and Bench

F8908 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1986 to December 31 1987

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3850	14,928	2.44	36,347	6.60	2.39	4.21	37.1	0.16	2,399
3830	22,703	2.47	56,022	7.33	2.65	4.68	37.2	0.20	4,106
3810	30,820	2.91	89,528	8.71	3.07	5.64	35.8	0.21	7,798
3790	50,693	3.15	159,619	9.42	3.29	6.14	33.6	0.10	15,052
3770	83,721	3.03	253,603	8.82	3.19	5.63	30.8	0.13	22,368
3750	89,163	3.05	272,052	8.05	3.00	5.05	36.0	0.20	21,900
3730	90,656	2.97	269,525	7.17	2.73	4.44	36.9	0.18	19,325
3710	107,729	2.92	314,735	6.90	2.85	4.05	41.5	0.13	21,717
3690	50,288	2.87	144,267	7.08	2.57	4.51	34.6	0.13	10,214
3670	37,164	2.81	104,472	6.40	2.32	4.08	31.0	0.11	6,686
3650	24,258	2.99	72,485	7.27	3.09	4.18	40.2	0.04	5,270
3630	37,568	3.12	117,240	7.27	3.03	4.25	32.0	0.07	8,535
3610	50,818	3.17	160,902	7.54	2.96	4.58	27.0	0.09	12,132
3590	66,211	3.12	206,606	6.95	2.62	4.34	25.4	0.07	14,380
3570	62,168	3.26	202,616	6.70	2.64	4.06	24.0	0.06	13,575
3550	99,239	3.30	327,142	7.60	3.00	4.59	33.2	0.04	24,830
3530	143,090	3.28	468,939	8.32	3.13	5.18	35.0	0.05	38,969
3510	209,518	3.10	649,810	8.89	3.64	5.25	42.6	0.06	57,768
3490	158,670	3.13	496,679	9.23	3.99	5.24	50.8	0.04	45,843
3470	123,404	2.96	365,209	8.15	3.42	4.72	44.0	0.05	29,728
3450	88,852	3.20	284,639	8.45	3.48	4.96	42.4	0.22	24,024
3430	55,419	3.35	185,706	10.00	3.94	6.05	52.7	0.79	18,552
3410	1,368	3.39	4,636	7.05	2.91	4.15	26.4	0.04	327
3390	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3370	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3350	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3330	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3310	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
Total	1,698,450	3.09	5,242,775	8.12	3.21	4.91	38.19	0.12	425,498

Blasthole Calculation

Period: January 1 1986 to December 31 1987

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0	0.00	0					0
3910	0	0.00	0					0
3890	14,727	3.00	44,180	7.80	3.1	4.7	NA	3,446
3870	6,793	3.00	20,378	8.60	3.3	5.3	NA	1,753
3850	9,850	3.00	29,549	6.24	2.41	3.83	NA	1,844
3830	27,307	3.00	81,920	7.30	2.79	4.51	NA	5,980
3810	33,280	3.00	99,840	7.60	3.19	4.41	NA	7,588
3790	61,440	3.00	184,320	8.40	3.45	4.95	NA	15,483
3770	66,560	3.00	199,680	7.28	2.79	4.49	35.2	14,537
3750	69,416	3.00	208,249	7.71	3.11	4.6	43.0	16,056
3730	101,530	3.00	304,589	7.68	3.06	4.62	44.3	23,392
3710	91,303	3.00	273,908	7.32	2.9	4.42	38.9	20,050
3690	56,509	3.00	169,527	7.37	2.65	4.72	31.9	12,494
3670	25,328	3.00	75,983	7.07	2.67	4.4	36.2	5,372
3650	2,133	3.00	6,400	7.01	2.34	4.67	27.0	449
3630	54,946	3.00	164,838	7.29	2.73	4.56	26.4	12,017
3610	48,711	3.00	146,134	7.66	2.64	5.02	23.3	11,194
3590	70,415	3.00	211,244	8.14	3.01	5.13	32.1	17,195
3570	43,888	3.00	131,663	7.28	2.78	4.5	28.5	9,585
3550	98,674	3.00	296,022	7.80	3.21	4.59	38.6	23,090
3530	161,479	3.00	484,438	8.99	3.49	5.5	35.3	43,551
3510	223,701	3.00	671,102	9.41	3.86	5.55	47.1	63,151
3490	188,803	3.00	566,408	9.28	3.89	5.39	47.2	52,563
3470	144,939	3.00	434,818	8.64	3.59	5.05	43.2	37,568
3450	96,354	3.00	289,061	8.20	3.47	4.73	40.0	23,703
3430	63,646	3.00	190,938	8.25	3.43	4.82	37.0	15,752
3410	1,778	3.00	5,333	10.19	4.75	5.44	48.0	543
3390	0	0.00	0	0.00				0
3370	0	0.00	0	0.00				0
3350	0	0.00	0	0.00				0
3330	0	0.00	0	0.00				0
3310	0	0.00	0	0.00				0
Total	1,763,507	3.00	5,290,522	8.29	3.32	4.96	NA	438,355

%VARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1986 to December 31 1987

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950								
3910								
3890	100.0	100.0	100.0	100.0	100.0	100.0		100.0
3870	100.0	100.0	100.0	100.0	100.0	100.0		100.0
3850	-51.6	18.8	-23.0	-5.8	0.8	-9.9		-30.1
3830	16.9	17.7	31.6	-0.4	5.0	-3.8		31.3
3810	7.4	3.2	10.3	-14.6	3.8	-27.9		-2.8
3790	17.5	-5.0	13.4	-12.1	4.6	-24.0		2.8
3770	-25.8	-1.0	-27.0	-21.2	-14.3	-25.4	12.6	-53.9
3750	-28.4	-1.7	-30.6	-4.4	3.5	-9.8	16.3	-36.4
3730	10.7	0.9	11.5	6.6	10.8	3.9	16.8	17.4
3710	-18.0	2.6	-14.9	5.7	1.7	8.4	-6.7	-8.3
3690	11.0	4.4	14.9	3.9	3.0	4.4	-8.5	18.2
3670	-46.7	6.3	-37.5	9.5	13.1	7.3	14.2	-24.5
3650	-1037.1	0.4	-1032.6	-3.7	-32.1	10.5	-48.9	-1074.6
3630	31.6	-4.0	28.9	0.3	-11.0	6.8	-21.2	29.0
3610	-4.3	-5.5	-10.1	1.6	-12.1	8.8	-15.9	-8.4
3590	6.0	-4.0	2.2	14.6	13.0	15.4	20.9	16.4
3570	-41.7	-8.6	-53.9	8.0	5.0	9.8	15.7	-41.6
3550	-0.6	-9.9	-10.5	2.6	6.5	0.0	13.9	-7.5
3530	11.4	-9.2	3.2	7.5	10.3	5.8	1.0	10.5
3510	6.3	-3.4	3.2	5.5	5.7	5.4	9.5	8.5
3490	16.0	-4.3	12.3	0.5	-2.6	2.8	-7.6	12.8
3470	14.9	1.4	16.0	5.7	4.7	6.5	-1.9	20.9
3450	7.8	-6.8	1.5	-3.0	-0.3	-4.9	-6.0	-1.4
3430	12.9	-11.7	2.7	-21.2	-14.9	-25.5	-42.4	-17.8
3410	23.0	-13.0	13.1	30.8	38.7	23.7	45.0	39.8
3390								
3370								
3350								
3330								
3310								
Total	3.7	-2.9	0.9	2.0	3.4	1.1	NA	2.9

Faro Computer Model Ore Predictions vs Actual Blasthole Results By Bench

F8908 - Undiluted
- 95% Mining Recovery

Period: January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3850	2,395	2.38	5,691	5.12	1.84	3.28	32.0	0.14	291
3830	902	2.28	2,052	4.60	1.67	2.93	31.0	0.30	94
3810	124	2.45	304	4.84	1.75	3.09	34.0	0.16	15
3790	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3770	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3750	31	2.46	76	5.65	1.82	3.83	36.6	0.22	4
3730	373	2.37	884	5.80	2.05	3.75	37.2	0.07	51
3710	2,612	2.50	6,527	5.34	1.96	3.37	29.6	0.17	348
3690	217	2.62	570	5.90	2.09	3.81	30.8	0.12	34
3670	186	2.24	418	5.82	1.91	3.91	29.4	0.17	24
3650	62	2.15	133	6.04	2.62	3.42	35.8	0.22	8
3630	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3610	186	2.65	494	4.61	1.27	3.35	18.2	0.01	23
3590	6,313	2.99	18,896	6.26	2.19	4.07	34.2	0.03	1,183
3570	81,792	2.98	243,865	8.78	3.69	5.09	49.6	0.10	21,411
3550	120,697	3.04	367,099	8.19	3.55	4.64	55.2	0.07	30,865
3530	169,368	3.05	516,943	8.24	3.61	4.63	60.8	0.09	42,596
3510	210,078	2.99	628,625	8.14	3.50	4.64	52.4	0.06	51,170
3490	255,017	3.01	768,531	8.84	3.68	5.16	48.0	0.04	67,938
3470	311,617	3.07	957,980	9.55	4.02	5.53	44.8	0.03	91,487
3450	277,191	3.08	853,281	8.53	3.60	4.93	42.8	0.03	72,785
3430	15,269	3.18	48,583	8.12	3.28	4.84	39.3	0.21	3,945
3410	45,406	3.34	151,468	6.25	2.53	3.72	26.7	0.03	9,467
3390	18,753	3.25	60,962	6.73	2.72	4.02	25.9	0.03	4,109
3370	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3350	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3330	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3310	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
Total	1,518,591	3.05	4,633,378	8.57	3.63	4.94	47.86	0.05	397,049

Blasthole Calculation

Period: January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0	0.00	0	0.00				0
3910	0	0.00	0	0.00				0
3890	0	0.00	0	0.00				0
3870	0	0.00	0	0.00				0
3850	0	0.00	0	0.00				0
3830	0	0.00	0	0.00				0
3810	0	0.00	0	0.00				0
3790	0	0.00	0	0.00				0
3770	0	0.00	0	0.00				0
3750	0	0.00	0	0.00				0
3730	0	0.00	0	0.00				0
3710	0	0.00	0	0.00				0
3690	0	0.00	0	0.00				0
3670	0	0.00	0	0.00				0
3650	0	0.00	0	0.00				0
3630	0	0.00	0	0.00				0
3610	0	0.00	0	0.00				0
3590	7,969	3.00	23,906	9.53	5.10	4.43	74.0	2,278
3570	105,044	3.00	315,132	8.45	3.87	4.58	58.8	26,629
3550	149,373	3.00	448,118	8.58	4.09	4.49	62.1	38,449
3530	149,008	3.00	447,024	9.30	4.26	5.04	57.6	41,573
3510	208,414	3.00	625,242	8.99	3.86	5.13	58.1	56,209
3490	288,137	3.00	864,411	9.55	3.99	5.56	52.3	82,551
3470	299,160	3.00	897,481	9.25	3.86	5.39	55.1	83,017
3450	241,268	3.00	723,805	8.62	3.65	4.97	45.0	62,392
3430	0	0.00	0	0.00				0
3410	50,934	3.00	152,801	6.40	2.60	3.80	23.0	9,779
3390	27,112	3.00	81,336	6.65	2.62	4.03	24.0	5,409
3370	0	0.00	0	0.00				0
3350	0	0.00	0	0.00				0
3330	0	0.00	0	0.00				0
3310	0	0.00	0	0.00				0
Total	1,526,419	3.00	4,579,256	8.92	3.86	5.06	53.0	408,286

%VARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950								
3910								
3890								
3870								
3850								
3830								
3810								
3790								
3770								
3750								
3730								
3710								
3690								
3670								
3650								
3630								
3610								
3590	20.8	0.2	21.0	34.3	57.1	8.1	53.8	48.1
3570	22.1	0.6	22.6	-3.9	4.7	-11.1	15.7	19.6
3550	19.2	-1.4	18.1	4.5	13.2	-3.3	11.1	21.8
3530	-13.7	-1.7	-15.6	11.4	15.3	8.1	-5.6	-2.5
3510	-0.8	0.3	-0.5	9.5	9.3	9.6	9.8	9.0
3490	11.5	-0.5	11.1	7.4	7.8	7.2	8.3	17.7
3470	-4.2	-2.5	-6.7	-3.2	-4.1	-2.6	18.7	-10.2
3450	-14.9	-2.6	-17.9	1.0	1.4	0.8	4.8	-16.7
3430								
3410	10.9	-11.2	0.9	2.3	2.7	2.1	-16.2	3.2
3390	30.8	-8.4	25.0	-1.2	-3.8	0.2	-7.9	24.0
3370								
3350								
3330								
3310								
Total	0.5	-1.7	-1.2	3.9	6.0	2.3	9.8	2.8

Faro Computer Reserve Predictions vs Actual Blasthole Results By Year and Bench

F8908 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3850	1,306	2.41	3,145	5.54	1.99	3.55	34.2	0.12	174
3830	280	2.41	675	5.46	1.93	3.53	34.4	0.16	37
3810	31	2.46	76	5.21	2.01	3.19	42.4	0.25	4
3790	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3770	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3750	31	2.46	76	5.65	1.82	3.83	36.6	0.22	4
3730	342	2.28	779	5.95	2.04	3.91	36.8	0.06	46
3710	2,239	2.54	5,681	5.45	2.03	3.42	30.2	0.17	310
3690	217	2.62	570	5.90	2.09	3.81	30.8	0.12	34
3670	186	2.24	418	5.82	1.91	3.91	29.4	0.17	24
3650	62	2.15	133	6.04	2.62	3.42	35.8	0.22	8
3630	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3610	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3590	4,261	3.04	12,968	6.90	2.48	4.42	38.1	0.03	895
3570	79,180	2.99	236,978	8.90	3.74	5.15	50.2	0.10	21,067
3550	120,448	3.04	366,320	8.19	3.55	4.64	55.3	0.07	30,002
3530	161,904	3.04	492,509	8.42	3.69	4.73	62.6	0.09	41,469
3510	169,493	2.95	500,413	9.09	3.86	5.23	58.3	0.07	45,487
3490	212,660	3.05	648,423	9.66	4.01	5.65	51.7	0.05	62,638
3470	287,359	3.08	884,517	9.96	4.19	5.78	46.3	0.03	88,186
3450	199,225	3.20	636,880	9.91	4.17	5.74	48.7	0.03	63,115
3430	12,968	3.28	42,484	8.65	3.51	5.14	40.9	0.22	3,675
3410	37,258	3.40	126,673	6.55	2.67	3.89	26.8	0.04	8,310
3390	18,380	3.25	59,660	6.77	2.72	4.05	25.9	0.03	4,039
3370	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3350	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3330	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3310	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
Total	1,307,829	3.07	4,019,374	9.19	3.88	5.31	51.05	0.05	369,524

Blasthole Calculation

Period: January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0	0.00	0					0
3910	0	0.00	0					0
3890	0	0.00	0	0.00				0
3870	0	0.00	0	0.00				0
3850	0	0.00	0	0.00				0
3830	0	0.00	0	0.00				0
3810	0	0.00	0	0.00				0
3790	0	0.00	0	0.00				0
3770	0	0.00	0	0.00				0
3750	0	0.00	0	0.00				0
3730	0	0.00	0	0.00				0
3710	0	0.00	0	0.00				0
3690	0	0.00	0	0.00				0
3670	0	0.00	0	0.00				0
3650	0	0.00	0	0.00				0
3630	0	0.00	0	0.00				0
3610	0	0.00	0	0.00				0
3590	7,969	3.00	23,906	9.53	5.10	4.43	74.0	2,278
3570	99,488	3.00	298,464	8.65	3.97	4.68	54.1	25,817
3550	139,061	3.00	417,182	8.87	4.23	4.64	64.0	37,004
3530	145,248	3.00	435,745	9.38	4.30	5.08	58.0	40,873
3510	203,045	3.00	609,134	9.08	3.90	5.18	58.8	55,309
3490	270,347	3.00	811,042	9.85	4.11	5.74	53.5	79,888
3470	265,265	3.00	795,795	9.80	4.09	5.71	57.8	77,988
3450	234,325	3.00	702,975	8.73	3.69	5.04	45.1	61,370
3430	0	0.00	0	0.00				0
3410	44,415	3.00	133,245	6.67	2.70	3.97	22.9	8,887
3390	18,890	3.00	56,670	7.28	2.90	4.38	24.0	4,126
3370	0	0.00	0	0.00				0
3350	0	0.00	0	0.00				0
3330	0	0.00	0	0.00				0
3310	0	0.00	0	0.00				0
Total	1,428,053	3.00	4,284,158	9.19	3.97	5.21	54.8	393,540

%VARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950								
3910								
3890								
3870								
3850								
3830								
3810								
3790								
3770								
3750								
3730								
3710								
3690								
3670								
3650								
3630								
3610								
3590	46.5	-1.5	45.8	27.6	51.4	0.2	48.5	60.7
3570	20.4	0.2	20.6	-2.9	5.8	-10.0	7.2	18.4
3550	13.4	-1.4	12.2	7.7	16.1	0.8	13.6	18.9
3530	-11.5	-1.4	-13.0	10.2	14.2	6.9	-7.9	-1.5
3510	16.5	1.6	17.8	-0.1	1.0	-1.0	0.8	17.8
3490	21.3	-1.6	20.1	1.9	2.4	1.6	3.3	21.6
3470	-8.3	-2.6	-11.1	-1.6	-2.4	-1.2	19.9	-13.1
3450	15.0	-6.6	9.4	-13.5	-13.0	-13.9	-8.0	-2.8
3430								
3410	16.1	-13.3	4.9	1.8	1.1	2.0	-17.3	6.5
3390	2.7	-8.2	-5.3	7.0	6.2	7.5	-7.9	2.1
3370								
3350								
3330								
3310								
Total	8.4	-2.4	6.2	-0.1	2.3	-1.9	5.4	6.1

Faro Computer Reserve Predictions vs Actual Blasthole Results By Year and Bench

F8908 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3850	560	2.39	1,340	5.49	1.97	3.52	33.9	0.12	74
3830	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3810	2,115	2.37	5,007	6.18	2.93	3.25	58.3	0.37	309
3790	4,012	2.30	9,234	5.90	2.54	3.36	49.4	0.25	545
3770	217	2.40	523	6.88	2.68	4.20	49.8	0.24	36
3750	93	2.34	219	5.65	1.82	3.83	36.6	0.22	12
3730	467	3.30	1,539	6.23	2.36	3.87	29.1	0.20	96
3710	18,784	2.88	54,046	6.48	2.48	4.00	37.1	0.14	3,502
3690	39,154	2.90	113,582	8.97	3.29	5.67	45.8	0.11	10,177
3670	38,564	2.98	114,817	8.03	2.87	5.16	34.9	0.12	9,220
3650	41,922	2.98	124,783	7.73	3.05	4.68	32.9	0.14	9,646
3630	79,585	3.02	240,018	7.43	3.00	4.42	38.5	0.19	17,809
3610	124,087	3.11	385,976	8.49	3.56	4.93	49.1	0.12	32,769
3590	97,125	3.03	294,586	9.72	4.05	5.67	52.0	0.18	28,634
3570	86,084	2.98	256,899	9.20	3.69	5.51	50.6	0.31	23,635
3550	69,010	3.18	219,127	8.12	3.30	4.82	38.7	0.16	17,793
3530	40,430	3.12	126,246	7.91	3.21	4.70	39.9	0.17	9,986
3510	5,660	3.24	18,354	8.56	3.06	5.51	25.2	0.10	1,573
3490	746	3.44	2,565	10.51	4.98	5.54	60.8	0.00	270
3470	5,753	3.26	18,763	8.41	3.60	4.80	40.7	0.02	1,576
3450	19,623	3.40	66,738	7.39	3.42	3.97	38.5	0.02	4,932
3430	209,736	3.36	704,929	8.32	3.51	4.81	35.9	0.07	58,650
3410	189,831	3.30	626,497	7.57	2.95	4.62	27.7	0.02	47,426
3390	155,529	3.04	472,872	6.66	2.48	4.17	27.5	0.06	31,446
3370	92,552	3.27	302,233	7.47	2.85	4.62	23.9	0.02	22,577
3350	74,732	3.01	224,780	7.63	2.71	4.92	24.8	0.02	17,151
3330	19,717	2.73	53,913	6.44	2.22	4.21	23.5	0.05	3,467
3310	4,665	2.43	11,334	6.62	2.66	3.97	53.7	0.34	751
Total	1,420,755	3.13	4,450,912	7.95	3.17	4.79	36.06	0.10	354,061

Blasthole Calculation

Period: January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0	0.00	0					0
3910	0	0.00	0					0
3890	0	0.00	0	0.00				0
3870	0	0.00	0	0.00				0
3850	0	0.00	0	0.00				0
3830	0	0.00	0	0.00				0
3810	0	0.00	0	0.00				0
3790	4,148	3.00	12,444	9.72	4.11	5.61	54.0	1,210
3770	3,919	3.00	11,756	9.32	3.61	5.71	73.0	1,096
3750	0	0.00	0	0.00				0
3730	0	0.00	0	0.00				0
3710	11,372	3.00	34,117	9.93	3.34	6.59	55.9	3,388
3690	28,641	3.00	85,923	7.48	3.10	4.38	43.8	6,427
3670	47,516	3.00	142,548	8.28	3.32	4.96	51.2	11,803
3650	61,289	3.00	183,867	8.33	3.28	5.05	33.6	15,316
3630	80,965	3.00	242,894	8.20	3.07	5.13	36.8	19,917
3610	123,539	3.00	370,618	8.57	3.38	5.19	46.7	31,762
3590	122,610	3.00	367,829	8.45	3.39	5.06	50.6	31,082
3570	83,734	3.00	251,201	8.49	3.34	5.15	47.4	21,327
3550	54,319	3.00	162,958	8.26	3.33	4.93	39.1	13,460
3530	52,619	3.00	157,856	7.62	2.99	4.63	39.0	12,029
3510	13,327	3.00	39,980	7.29	2.69	4.60	24.6	2,915
3490	0	0.00	0	0.00				0
3470	0	0.00	0	0.00				0
3450	16,889	3.00	50,668	5.94	2.43	3.51	23.0	3,010
3430	190,944	3.00	572,832	7.62	3.07	4.55	37.4	43,650
3410	204,174	3.00	612,521	7.55	2.96	4.59	30.1	46,245
3390	131,839	3.00	395,517		2.74	4.67	31.9	29,308
3370	132,935	3.00	398,804		2.68	4.88	28.0	30,150
3350	57,806	3.00	173,417		2.63	4.84	17.3	12,954
3330	13,612	3.00	40,835		2.62	5.23	20.0	3,206
3310	0	0.00	0					0
Total	1,436,195	3.00	4,308,585	7.90	3.06	4.84	37.0	340,252

%VARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950								
3910								
3890								
3870								
3850								
3830								
3810								
3790	3.3	23.3	25.8	39.3	38.2	40.1	8.5	55.0
3770	94.5	19.9	95.6	26.2	25.8	26.4	31.8	96.7
3750								
3730								
3710	-65.2	4.1	-58.4	34.7	25.7	39.3	33.6	-3.4
3690	-36.7	3.3	-32.2	-19.9	-6.1	-29.5	-4.7	-58.3
3670	18.8	0.8	19.5	3.0	13.6	-4.0	31.8	21.9
3650	31.6	0.8	32.1	7.2	7.0	7.3	2.2	37.0
3630	1.7	-0.5	1.2	9.4	2.3	13.8	-4.5	10.6
3610	-0.4	-3.7	-4.1	0.9	-5.3	5.0	-5.1	-3.2
3590	20.8	-1.1	19.9	-15.0	-19.5	-12.1	-2.7	7.9
3570	-2.8	0.5	-2.3	-8.4	-10.5	-7.0	-6.9	-10.8
3550	-27.0	-5.8	-34.5	1.7	0.9	2.2	1.1	-32.2
3530	23.2	-4.1	20.0	-3.8	-7.4	-1.5	-2.4	17.0
3510	57.5	-8.1	54.1	-17.4	-13.8	-19.8	-2.4	46.8
3490								
3470								
3450	-16.2	-13.4	-31.7	-24.4	-40.7	-13.1	-67.4	-63.9
3430	-9.8	-12.0	-23.1	-9.2	-14.3	-5.7	4.0	-34.4
3410	7.0	-10.0	-2.3	-0.3	0.3	-0.7	8.0	-2.6
3390	-18.0	-1.3	-19.6		9.5	10.7	13.8	-7.3
3370	30.4	-8.9	24.2		-6.3	5.3	14.8	25.1
3350	-29.3	-0.3	-29.6		-3.0	-1.7	-43.4	-32.4
3330	-44.9	8.9	-32.0		15.3	19.5	-17.5	-8.1
3310								
Total	1.1	-4.4	-3.3	-8.7	-3.7	1.2	2.6	-4.1

Faro Computer Reserve Predictions vs Actual Blasthole Results By Year and Bench

F8908 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3850	19,655	2.42	47,491	6.20	2.24	3.96	35.6	0.15	2,947
3830	27,119	2.43	66,025	6.88	2.49	4.39	36.2	0.20	4,542
3810	40,212	2.79	112,062	7.97	2.87	5.10	36.9	0.20	8,936
3790	63,568	2.99	189,924	8.72	3.09	5.63	34.4	0.11	16,560
3770	97,374	2.95	287,071	8.34	2.99	5.35	30.2	0.14	23,929
3750	103,344	2.97	306,727	7.64	2.84	4.80	35.4	0.20	23,428
3730	106,286	2.91	309,529	6.85	2.62	4.23	36.3	0.18	21,209
3710	147,474	2.88	425,344	6.56	2.71	3.85	39.7	0.13	27,897
3690	119,578	2.88	344,480	7.04	2.59	4.45	36.0	0.12	24,258
3670	104,899	2.83	297,018	6.56	2.34	4.22	30.7	0.11	19,474
3650	87,671	2.96	259,493	6.85	2.79	4.06	33.2	0.11	17,770
3630	155,189	3.03	469,589	6.69	2.74	3.95	33.3	0.14	31,417
3610	188,775	3.09	583,937	7.97	3.27	4.70	41.2	0.11	46,524
3590	202,740	3.01	611,116	7.90	3.20	4.70	39.1	0.14	48,275
3570	246,775	3.05	751,460	8.09	3.29	4.80	41.4	0.16	60,795
3550	301,574	3.17	954,807	7.81	3.22	4.59	42.2	0.08	74,567
3530	382,651	3.16	1,209,284	7.94	3.24	4.70	45.5	0.08	95,980
3510	434,834	3.06	1,328,955	8.42	3.52	4.89	46.6	0.06	111,870
3490	443,979	3.05	1,353,969	8.71	3.69	5.02	47.8	0.04	117,927
3470	480,054	3.04	1,461,594	8.77	3.69	5.08	43.0	0.03	128,203
3450	403,611	3.12	1,259,415	8.28	3.49	4.79	41.7	0.07	104,289
3430	307,077	3.31	1,016,206	8.33	3.45	4.88	38.4	0.21	84,621
3410	278,317	3.20	866,305	7.04	2.74	4.30	27.8	0.03	60,993
3390	195,337	3.02	589,000	6.48	2.44	4.04	27.9	0.06	38,167
3370	113,824	3.11	353,704	7.04	2.69	4.35	24.7	0.03	24,901
3350	78,962	2.97	234,669	7.50	2.67	4.83	24.8	0.02	17,600
3330	38,408	2.51	96,492	5.59	1.89	3.70	25.1	0.06	5,394
3310	5,038	2.42	12,217	6.49	2.60	3.89	52.0	0.33	793
Total	5,166,243	3.06	15,797,797	7.87	3.19	4.68	39.35	0.09	1,243,267

Blasthole Calculation

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0	0.00	0					0
3910	0	0.00	0					0
3890	14,727	3.00	44,180	7.80	3.10	4.70	NA	3,446
3870	9,570	3.00	28,711	7.46	2.81	4.65	NA	2,142
3850	9,850	3.00	29,549	6.24	2.41	3.83	NA	1,844
3830	33,849	3.00	101,547	6.77	2.66	4.11	NA	6,875
3810	41,292	3.00	123,876	7.07	2.98	4.09	NA	8,756
3790	69,803	3.00	209,408	8.31	3.44	4.87	NA	17,397
3770	79,865	3.00	239,596	7.04	2.71	4.33	35.7	16,862
3750	91,354	3.00	274,062	7.00	2.79	4.21	39.2	19,184
3730	136,085	3.00	408,256	7.05	2.80	4.25	41.8	28,782
3710	124,762	3.00	374,287	7.11	2.71	4.40	38.6	26,621
3690	115,904	3.00	347,711	6.69	2.56	4.12	34.0	23,247
3670	86,114	3.00	258,342	7.35	2.87	4.47	42.6	18,977
3650	66,001	3.00	198,002	8.14	3.19	4.95	33.2	16,122
3630	180,141	3.00	540,423	6.98	2.65	4.33	30.2	37,716
3610	181,263	3.00	543,789	8.12	3.11	5.02	39.4	44,164
3590	233,309	3.00	699,926	7.82	3.10	4.72	42.8	54,747
3570	255,464	3.00	766,392	7.87	3.33	4.54	47.5	60,294
3550	325,065	3.00	975,195	7.96	3.54	4.42	48.8	77,612
3530	383,429	3.00	1,150,286	8.68	3.64	5.03	44.3	99,810
3510	453,048	3.00	1,359,144	9.07	3.79	5.28	51.1	123,312
3490	492,126	3.00	1,476,379	9.30	3.90	5.40	49.6	137,322
3470	447,433	3.00	1,342,299	9.01	3.76	5.25	51.1	121,004
3450	362,657	3.00	1,087,972	8.29	3.51	4.78	42.5	98,152
3430	298,708	3.00	896,124	7.30	2.98	4.31	35.7	65,376
3410	281,644	3.00	844,931	7.10	2.82	4.28	28.5	59,978
3390	183,000	3.00	549,001	6.97	2.60	4.37	31.4	38,286
3370	147,226	3.00	441,679	7.29	2.57	4.72	28.5	32,198
3350	79,195	3.00	237,584	6.67	2.31	4.36	18.0	15,847
3330	24,748	3.00	74,245	6.65	2.16	4.49	19.6	4,937
3310	0	0.00	0					0
Total	5,207,632	3.00	15,622,896	8.02	3.27	4.75	NA	1,253,010

%VARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950								
3910								
3890	100.0	100.0	100.0	100.0	100.0	100.0		100.0
3870	100.0	100.0	100.0	100.0	100.0	100.0		100.0
3850	-99.6	19.5	-60.7	0.6	6.9	-3.4		-59.8
3830	19.9	18.8	35.0	-1.6	6.4	-6.8		33.9
3810	2.6	7.1	9.5	-12.8	3.6	-24.8		-2.1
3790	8.9	8.4	9.3	-5.0	10.1	-15.6		4.8
3770	-21.9	1.7	-19.8	-18.4	-10.3	-23.5	15.4	-41.9
3750	-13.1	1.1	-11.9	-9.1	-1.8	-14.0	9.7	-22.1
3730	22.0	2.9	24.2	2.8	6.4	0.5	13.1	26.3
3710	-18.2	3.9	-13.6	7.8	0.3	12.4	-2.7	-4.8
3690	-3.2	4.0	0.9	-5.3	-1.1	-7.9	-5.8	-4.3
3670	-21.8	5.6	-15.0	10.7	10.6	5.7	27.9	-2.6
3650	-32.8	1.3	-31.1	15.9	12.7	18.0	-0.1	-10.2
3630	13.9	-0.8	13.1	4.1	-3.3	8.7	-10.1	16.7
3610	-4.1	-3.1	-7.4	1.9	-5.3	6.4	-4.6	-5.3
3590	13.1	-0.5	12.7	-1.0	-3.2	0.5	8.8	11.8
3570	3.4	-1.5	1.9	-2.8	1.1	-5.7	12.7	-0.8
3550	7.2	-5.5	2.1	1.9	8.9	-3.8	13.5	3.9
3530	0.2	-5.3	-5.1	8.5	11.0	6.7	-2.6	3.8
3510	4.0	-1.9	2.2	7.2	7.1	7.3	8.8	9.3
3490	9.8	-1.7	8.3	6.4	5.3	7.1	3.7	14.1
3470	-7.3	-1.5	-8.9	2.7	1.8	3.3	15.9	-5.9
3450	-11.3	-4.0	-15.8	0.1	0.4	-0.2	2.0	-15.7
3430	-2.8	-10.3	-13.4	-14.1	-15.6	-13.2	-7.5	-29.4
3410	4.0	-6.8	-2.5	0.8	2.6	-0.3	2.7	-1.7
3390	-6.7	-0.5	-7.3	7.1	6.2	7.6	11.2	0.3
3370	22.7	-3.6	19.9	3.4	-4.7	7.8	13.4	22.7
3350	0.3	0.9	1.2	-12.4	-15.6	-10.8	-37.5	-11.1
3330	-55.2	16.3	-30.0	15.9	12.5	17.6	-28.4	-9.2
3310								
Total	0.8	-1.9	-1.1	1.9	2.4	1.5	NA	0.8

Faro Computer Reserve Predictions vs Actual Blasthole Results By Year and Bench

F8908 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3850	16,794	2.43	40,831	6.48	2.35	4.14	36.8	0.16	2,647
3830	22,983	2.47	56,696	7.31	2.64	4.67	37.2	0.19	4,143
3810	32,966	2.87	94,611	8.57	3.06	5.51	37.0	0.21	8,111
3790	54,705	3.09	168,853	9.24	3.25	5.99	34.5	0.11	15,597
3770	83,938	3.03	254,125	8.82	3.19	5.63	30.8	0.13	22,404
3750	89,287	3.05	272,346	8.05	3.00	5.05	36.0	0.20	21,917
3730	91,465	2.97	271,843	7.16	2.73	4.44	36.9	0.18	19,467
3710	128,752	2.91	374,462	6.82	2.78	4.03	40.7	0.13	25,528
3690	89,660	2.88	258,419	7.90	2.89	5.02	39.5	0.12	20,425
3670	75,915	2.89	219,707	7.25	2.61	4.64	33.0	0.12	15,930
3650	66,242	2.98	197,401	7.56	3.06	4.50	35.6	0.10	14,923
3630	117,154	3.05	357,257	7.37	3.01	4.36	36.4	0.15	26,344
3610	174,905	3.13	546,877	8.21	3.38	4.83	42.6	0.11	44,901
3590	167,597	3.07	514,159	8.54	3.44	5.10	41.0	0.13	43,908
3570	227,431	3.06	696,493	8.37	3.40	4.97	42.7	0.17	58,277
3550	288,698	3.16	912,589	7.96	3.29	4.67	43.4	0.08	72,625
3530	345,424	3.15	1,087,693	8.31	3.39	4.92	48.1	0.08	90,424
3510	384,671	3.04	1,168,576	8.97	3.73	5.25	49.0	0.07	104,828
3490	372,076	3.08	1,147,667	9.48	4.00	5.47	51.3	0.04	108,751
3470	416,516	3.05	1,268,488	9.42	3.96	5.46	45.6	0.03	119,490
3450	307,700	3.21	988,257	9.32	3.92	5.40	46.2	0.08	92,070
3430	278,123	3.36	933,119	8.67	3.60	5.07	39.5	0.22	80,877
3410	228,457	3.32	757,806	7.40	2.90	4.50	27.5	0.02	56,063
3390	173,909	3.06	532,532	6.66	2.51	4.16	27.3	0.05	35,485
3370	92,552	3.27	302,233	7.47	2.85	4.62	23.9	0.02	22,577
3350	74,732	3.01	224,780	7.63	2.71	4.92	24.8	0.02	17,151
3330	19,717	2.73	53,913	6.43	2.22	4.21	23.5	0.05	3,467
3310	4,665	2.43	11,334	6.63	2.66	3.97	53.7	0.34	751
Total	4,427,834	3.10	13,713,860	8.38	3.39	4.99	41.27	0.09	1,149,083

Blasthole Calculation

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0	0.00	0					
3910	0	0.00	0					
3890	14,727	3.00	44,180	7.80	3.10	4.70	NA	3,446
3870	6,793	3.00	20,378	8.60	3.30	5.30	NA	1,753
3850	9,850	3.00	29,549	6.24	2.41	3.83	NA	1,844
3830	27,307	3.00	81,920	7.30	2.79	4.51	NA	5,980
3810	33,280	3.00	99,840	7.60	3.19	4.41	NA	7,588
3790	65,588	3.00	196,764	8.48	3.49	4.99	NA	16,692
3770	70,479	3.00	211,436	7.39	2.84	4.56	37.3	15,632
3750	69,416	3.00	208,249	7.71	3.11	4.60	43.0	16,056
3730	101,530	3.00	304,589	7.68	3.06	4.62	44.3	23,392
3710	102,675	3.00	308,025	7.61	2.95	4.66	40.8	23,438
3690	85,150	3.00	255,450	7.41	2.80	4.61	35.9	18,921
3670	72,844	3.00	218,531	7.86	3.09	4.77	46.0	17,175
3650	63,422	3.00	190,267	8.29	3.25	5.04	33.4	15,765
3630	135,911	3.00	407,732	7.83	2.93	4.90	32.6	31,934
3610	172,251	3.00	516,752	8.31	3.17	5.14	40.1	42,956
3590	200,993	3.00	602,979	8.38	3.32	5.06	45.1	50,555
3570	227,109	3.00	681,328	8.33	3.51	4.82	46.7	56,729
3550	292,054	3.00	876,162	8.40	3.72	4.68	50.8	73,554
3530	359,346	3.00	1,078,039	8.95	3.74	5.20	45.0	96,452
3510	440,072	3.00	1,320,216	9.19	3.84	5.35	51.8	121,375
3490	459,150	3.00	1,377,450	9.62	4.02	5.60	50.9	132,450
3470	410,204	3.00	1,230,613	9.39	3.91	5.48	52.6	115,556
3450	347,568	3.00	1,042,704	8.45	3.57	4.88	42.6	88,082
3430	254,590	3.00	763,770	7.78	3.16	4.62	37.3	59,402
3410	250,366	3.00	751,099	7.41	2.93	4.49	28.9	55,676
3390	150,729	3.00	452,187	7.39	2.76	4.63	30.9	33,433
3370	132,935	3.00	398,804	7.56	2.68	4.88	28.0	30,150
3350	57,806	3.00	173,417	7.47	2.63	4.84	17.3	12,954
3330	13,612	3.00	40,835	7.85	2.62	5.23	20.0	3,206
3310	0	0.00	0					
Total	4,627,755	3.00	13,883,265	8.44	3.44	5.00	NA	1,172,148

%VARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench (Toe)	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950								
3910								
3890			100.0	100.0	100.0	100.0		100.0
3870			100.0	100.0	100.0	100.0		100.0
3850	-70.5	19.0	-38.2	-3.9	2.7	-8.0		-43.5
3830	15.8	17.8	30.8	-8.1	5.3	-3.5		30.7
3810	0.9	4.3	5.2	-12.8	4.0	-25.0		-6.9
3790	16.6	-2.9	14.2	-8.9	7.0	-20.0		6.6
3770	-19.1	-0.9	-20.2	-19.2	-12.5	-23.5	17.4	-43.3
3750	-28.6	-1.7	-30.8	-4.4	3.6	-9.8	16.3	-36.5
3730	9.9	0.9	10.8	6.8	10.9	4.0	16.9	16.8
3710	-25.4	3.1	-21.6	10.4	5.6	13.5	8.2	-8.9
3690	-5.3	3.9	-1.2	-6.7	-3.0	-9.0	-10.1	-7.9
3670	-4.2	3.5	-0.5	7.7	15.8	2.5	28.1	7.2
3650	-4.4	0.7	-3.7	8.8	5.7	10.8	-6.5	5.3
3630	13.8	-1.6	12.4	5.8	-2.6	10.9	-11.5	17.5
3610	-1.5	-4.2	-5.8	1.2	-6.7	6.1	-6.3	-4.5
3590	16.6	-2.3	14.7	-1.9	-3.3	-0.9	9.1	13.1
3570	-0.1	-2.1	-2.2	-0.5	3.0	-3.1	8.4	-2.7
3550	1.1	-5.4	-4.2	5.2	11.4	0.3	14.6	1.3
3530	3.9	-5.0	-0.9	7.1	9.4	5.4	-6.7	6.3
3510	12.6	-1.3	11.5	2.4	3.1	2.0	5.3	13.6
3490	19.0	-2.8	16.7	1.5	0.4	2.2	-0.9	17.9
3470	-1.5	-1.5	-3.1	-0.3	-1.2	0.3	13.4	-3.4
3450	11.5	-7.1	5.2	-10.3	-9.9	-10.6	-8.4	-4.5
3430	-9.2	-11.8	-22.2	-11.4	-13.8	-9.8	-5.9	-36.2
3410	8.8	-10.6	-0.9	0.2	0.8	-0.2	4.8	-0.7
3390	-15.4	-2.1	-17.8	9.9	9.2	10.3	11.6	-6.1
3370	30.4	-8.9	24.2	1.2	-6.3	5.3	14.8	25.1
3350	-29.3	-0.3	-29.6	-2.1	-3.0	-1.7	-43.4	-32.4
3330	-44.9	8.9	-32.0	18.1	15.3	19.5	-17.5	-8.1
3310								
Total	4.3	-3.3	1.2	0.8	1.4	0.3	NA	2.0