

003467

CURRAGH RESOURCES INC.

FARO COMPUTER F8805, F8908, AND F8910 RESERVE PREDICTIONS VS ACTUAL
BLASTHOLE RESULTS

For Periods:

- 1) January 1, 1986 to December 31, 1987
- 2) January 1, 1988 to December 31, 1988
- 3) January 1, 1989 to December 31, 1989
- 4) All above periods
- 5) Remaining Reserve Predictions, January 1, 1990

FEBRUARY 13,1990

Curragh Resources Inc.
Faro Predicted Computer Reserves vs Actual Blasthole Results

Period : January 1 1986 to December 31 1987
 %Pb+Zn Cutoff = 4.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
Blasthole	1,992,595	3.00	5,977,786	7.87	NA	470,733
F8805	2,137,808	2.84	6,061,502	7.81	37.7	473,562
F8908	1,960,839	3.06	6,005,397	7.66	36.4	459,981
F8910	1,993,215	3.06	6,092,854	7.51	35.5	457,823

% Variance (Blasthole-Model)/Blasthole*100

F8805	-7.3	5.5	-1.4	0.8	NA	-0.6
F8908	1.6	-2.1	-0.5	2.7	NA	2.3
F8910	0.0	-1.9	-1.9	4.6	NA	2.7

Period : January 1 1986 to December 31 1987
 %Pb+Zn Cutoff = 5.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
Blasthole	1,763,507	3.00	5,290,522	8.29	NA	438,355
F8805	1,946,254	2.88	5,605,359	8.11	38.2	454,830
F8908	1,698,450	3.09	5,242,775	8.12	38.2	425,498
F8910	1,693,848	3.09	5,234,453	8.01	37.4	419,076

% Variance (Blasthole-Model)/Blasthole*100

F8805	-10.4	4.0	-6.0	2.1	NA	-3.8
F8908	3.7	-2.9	0.9	2.0	NA	2.9
F8910	4.0	-3.0	1.1	3.4	NA	4.4

F8805 - Diluted 10% with material grading 0% Pb+Zn.
 - 95% mining recovery.
 - Dilutant density = 2.5 mt/bcy.
 - Geology composites, no clipping.

F8908 - No dilution, 95% mining recovery.
 - Bench composites, no clipping.

F8910 - No dilution, 95% mining recovery
 - Bench composites, assays clipped to 95th percentile.

Curragh Resources Inc.

Faro Predicted Computer Reserves vs Actual Blasthole Results

Period : January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 4.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
Blasthole	1,526,419	3.00	4,579,256	8.92	53.0	408,286
F8805	1,641,495	2.83	4,642,904	8.85	50.1	410,692
F8908	1,518,591	3.05	4,633,378	8.57	47.9	397,049
F8910	1,516,229	3.05	4,617,979	8.57	48.0	395,857

% Variance (Blasthole-Model)/Blasthole*100

F8805	-7.5	5.7	-1.4	0.8	5.6	-0.6
F8908	0.5	-1.7	-1.2	3.9	9.8	2.8
F8910	0.7	-1.5	-0.8	3.9	9.5	3.0

Period : January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 5.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
Blasthole	1,428,053	3.00	4,284,158	9.19	54.0	393,540
F8805	1,527,610	2.86	4,370,221	9.14	56.8	399,536
F8908	1,307,829	3.07	4,019,374	9.19	51.1	369,524
F8910	1,299,993	3.07	3,985,583	9.22	51.2	367,402

% Variance (Blasthole-Model)/Blasthole*100

F8805	-7.0	4.6	-2.0	0.5	-5.2	-1.5
F8908	8.4	-2.4	6.2	-0.1	5.4	6.1
F8910	9.0	-2.2	7.0	-0.4	5.0	6.6

F8805 - Diluted 10% with material grading 0% Pb+Zn.

- 95% mining recovery.

- Dilutant density = 2.5 mt/bcy.

- Geology composites, no clipping.

F8908 - No dilution, 95% mining recovery.

- Bench composites, no clipping.

F8910 - No dilution, 95% mining recovery

- Bench composites, assays clipped to 95th percentile.

Curragh Resources Inc.

Faro Predicted Computer Reserves vs Actual Blasthole Results

Period : January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 4.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
Blasthole	1,688,618	3.00	5,065,854	7.38	35.8	373,990
F8805	1,852,648	2.90	5,373,233	7.89	39.3	423,689
F8908	1,686,813	3.06	5,159,023	7.49	35.2	386,236
F8910	1,701,432	3.06	5,199,094	7.55	34.5	392,767

% Variance (Blasthole-Model)/Blasthole*100

F8805	-9.7	3.3	-6.1	-6.8	-9.6	-13.3
F8908	0.1	-1.9	-1.8	-1.4	1.8	-3.3
F8910	-0.8	-1.9	-2.6	-2.3	3.6	-5.0

Period : January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 5.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
Blasthole	1,436,195	3.00	4,308,585	7.90	37.0	340,252
F8805	1,685,898	2.96	4,992,038	8.17	40.0	408,045
F8908	1,420,755	3.13	4,450,912	7.95	36.1	354,061
F8910	1,438,141	3.13	4,503,988	8.02	35.5	361,331

% Variance (Blasthole-Model)/Blasthole*100

F8805	-17.4	1.3	-15.9	-3.5	-7.9	-19.9
F8908	1.1	-4.4	-3.3	-0.7	2.6	-4.1
F8910	-0.1	-4.4	-4.5	-1.6	4.2	-6.2

F8805 - Diluted 10% with material grading 0% Pb+Zn.

- 95% mining recovery.

- Dilutant density = 2.5 mt/bcy.

- Geology composites, no clipping.

F8908 - No dilution, 95% mining recovery.

- Bench composites, no clipping.

F8910 - No dilution, 95% mining recovery

- Bench composites, assays clipped to 95th percentile.

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Faro Predicted Computer Reserves vs Actual Blasthole Results

Period : ALL PERIODS - January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 4.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
Blasthole	5,207,632	3.00	15,622,896	8.02	NA	1,253,010
F8805	5,631,951	2.85	16,077,639	8.14	44.7	1,307,942
F8908	5,166,243	3.06	15,797,797	7.87	39.4	1,243,267
F8910	5,210,876	3.05	15,909,926	7.83	38.8	1,246,447

% Variance (Blasthole-Model)/Blasthole*100

F8805	-8.1	4.8	-2.9	-1.4	NA	-4.4
F8908	0.8	-1.9	-1.1	1.9	NA	0.8
F8910	-0.1	-1.8	-1.8	2.3	NA	0.5

Period : ALL PERIODS - January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 5.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
Blasthole	4,627,755	3.00	13,883,265	8.44	NA	1,172,148
F8805	5,159,761	2.90	14,967,619	8.43	45.9	1,262,411
F8908	4,427,034	3.10	13,713,060	8.38	41.3	1,149,083
F8910	4,431,982	3.10	13,724,023	8.36	40.8	1,147,808

% Variance (Blasthole-Model)/Blasthole*100

F8805	-11.5	3.3	-7.8	0.1	NA	-7.7
F8908	4.3	-3.3	1.2	0.8	NA	2.0
F8910	4.2	-3.2	1.1	0.9	NA	2.1

F8805 - Diluted 10% with material grading 0% Pb+Zn.

- 95% mining recovery.

- Dilutant density = 2.5 mt/bcy.

- Geology composites, no clipping.

F8908 - No dilution, 95% mining recovery.

- Bench composites, no clipping.

F8910 - No dilution, 95% mining recovery

- Bench composites, assays clipped to 95th percentile.

Curragh Resources Inc.
Faro Deposit - Predicted Computer Reserves

Period : Remaining Reserves - January 1 1990
%Pb+Zn Cutoff = 4.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
F8805	3,482,640	2.75	9,562,596	7.57	32.7	723,933
F8908	3,454,914	2.99	10,342,223	7.33	29.2	758,016
F8910	3,476,655	2.99	10,383,766	7.16	28.4	743,218

Period : Remaining Reserves - January 1 1990
%Pb+Zn Cutoff = 5.0%

	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	Ag g/mt	Metal
F8805	2,966,474	2.79	8,289,713	8.11	34.3	672,218
F8908	2,790,256	3.02	8,424,847	7.98	31.0	672,090
F8910	2,822,663	3.02	8,517,482	7.74	30.2	659,211

F8805 - Diluted 10% with material grading 0% Pb+Zn.
 - 95% mining recovery.
 - Dilutant density = 2.5 mt/bcy.
 - Geology composites, no clipping.

F8908 - No dilution, 95% mining recovery.
 - Bench composites, no clipping.

F8910 - No dilution, 95% mining recovery
 - Bench composites, assays clipped to 95th percentile.

COMPUTER RESERVE PREDICTIONS VS ACTUAL BLASTHOLE RESULTS
BY YEAR AND BENCH

F8805 PREDICTED RESERVES VS BLASTHOLES

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

F8885 - Diluted 10% with material grading 0% Pb+Zn, 95% Mining Recovery
 Geology Composites, Dilution Density = 2.5 mt/bcy

Period: January 1 1986 to December 31 1987

X_{Pb+Zn} Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes X _{Pb+Zn}	X _{Pb}	X _{Zn}	Ag g/mt	Au g/mt	Metal
3950	7,028	2.83	14,264	4.53	1.41	3.12	20.1	0.85
3910	1,136	2.84	2,328	5.88	1.49	3.59	22.6	0.89
3890	11,847	2.28	25,195	4.81	2.15	2.66	43.6	0.89
3870	16,381	2.26	37,087	5.88	2.34	2.75	42.8	0.89
3850	24,893	2.52	60,683	5.25	1.91	3.35	29.7	0.87
3830	19,332	2.37	45,761	8.37	2.99	5.39	39.6	0.89
3810	33,537	2.66	89,316	9.81	3.14	5.86	42.3	0.12
3790	65,418	2.85	186,788	8.92	3.15	5.76	35.8	0.18
3770	113,813	2.74	311,859	7.38	2.74	4.56	36.3	0.25
3750	128,365	2.72	327,378	7.93	3.89	4.84	38.5	0.25
3730	134,886	2.83	381,383	7.87	2.98	4.88	39.5	0.18
3710	128,886	2.69	346,438	6.45	2.58	3.94	37.4	0.16
3690	79,989	2.78	215,521	6.95	2.55	4.42	34.8	0.17
3670	58,362	2.67	134,596	6.86	2.55	4.31	32.6	0.13
3650	27,837	2.78	75,167	6.65	2.86	3.79	39.8	0.12
3630	58,876	2.89	147,167	7.81	2.87	4.14	28.3	0.17
3610	54,922	2.88	157,973	7.24	2.75	4.48	25.1	0.21
3590	74,948	2.85	213,337	6.93	2.68	4.33	28.8	0.19
3570	54,378	2.99	162,539	7.69	3.11	4.58	32.8	0.16
3550	98,542	2.95	298,897	8.46	3.53	4.94	40.5	0.11
3530	173,138	3.83	523,942	9.84	3.55	5.49	36.6	0.12
3510	248,899	2.94	707,868	8.85	3.59	5.27	42.3	0.13
3490	285,425	2.91	597,858	8.42	3.69	4.73	48.5	0.12
3470	162,493	2.72	441,868	6.85	2.89	3.96	34.2	0.18
3450	111,342	2.94	327,681	6.99	2.88	4.11	32.5	0.87
3430	76,867	3.87	233,158	8.78	3.55	5.15	41.8	0.84
3410	1,638	3.15	5,162	6.95	2.91	4.85	26.3	0.86
3390	0	0.88	0	0.88	0.88	0.88	0.88	0
3370	0	0.88	0	0.88	0.88	0.88	0.88	0
3350	0	0.88	0	0.88	0.88	0.88	0.88	0
3330	0	0.88	0	0.88	0.88	0.88	0.88	0
3310	0	0.88	0	0.88	0.88	0.88	0.88	0
Total	2,137,888	2.84	6,861,582	7.81	3.11	4.78	37.69	0.14

Blasthole Calculation

Period: January 1 1986 to December 31 1987

X_{Pb+Zn} Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes X _{Pb+Zn}	X _{Pb}	X _{Zn}	Ag g/mt	Metal
3950	0	0.88	0	0.88	0.88	0.88	0
3910	0	0.88	0	0.88	0.88	0.88	0
3890	14,727	3.88	44,188	7.88	3.18	4.78	NA
3870	9,578	3.88	28,711	7.46	2.81	4.65	NA
3850	9,858	3.88	29,549	6.24	2.41	3.83	NA
3830	33,849	3.88	181,547	6.77	2.66	4.11	NA
3810	48,187	3.88	128,328	7.86	2.97	4.89	NA
3790	63,368	3.88	198,888	8.28	3.48	4.88	NA
3770	75,947	3.88	227,848	6.92	2.66	4.26	33.7
3750	91,354	3.88	274,862	7.88	2.79	4.21	39.2
3730	136,885	3.88	488,256	7.85	2.88	4.25	41.8
3710	113,398	3.88	348,178	6.83	2.65	4.18	36.9
3690	79,885	3.88	239,655	6.58	2.48	4.18	38.8
3670	37,725	3.88	113,175	6.25	2.34	3.91	32.1
3650	2,133	3.88	6,488	7.81	2.34	4.67	27.8
3630	76,298	3.88	228,893	6.61	2.52	4.89	24.9
3610	52,871	3.88	156,212	7.48	2.68	4.88	23.6
3590	82,881	3.88	248,484	7.54	2.78	4.76	29.7
3570	47,414	3.88	142,243	7.87	2.71	4.36	28.8
3550	99,858	3.88	299,549	7.78	3.21	4.57	38.5
3530	172,958	3.88	518,849	8.69	3.48	5.29	35.1
3510	231,387	3.88	693,922	9.25	3.88	5.45	46.4
3490	283,989	3.88	611,968	8.95	3.77	5.18	45.8
3470	148,273	3.88	444,818	8.54	3.56	4.98	43.8
3450	181,215	3.88	383,645	8.88	3.48	4.68	48.5
3430	66,668	3.88	288,885	8.88	3.37	4.71	36.5
3410	1,778	3.88	5,333	18.19	4.75	5.44	48.8
3390	0	0.88	0	0.88	0.88	0.88	0
3370	0	0.88	0	0.88	0.88	0.88	0
3350	0	0.88	0	0.88	0.88	0.88	0
3330	0	0.88	0	0.88	0.88	0.88	0
3310	0	0.88	0	0.88	0.88	0.88	0
Total	1,992,595	3.88	5,977,786	7.87	3.16	4.72	NA

X_{VARIANCE} (Blasthole-diluted model)/blasthole *100

Period: January 1 1986 to December 31 1987

X_{Pb+Zn} Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes X _{Pb+Zn}	X _{Pb}	X _{Zn}	Ag g/mt	Metal
3950	0	0.88	0	0.88	0.88	0.88	0
3910	0	0.88	0	0.88	0.88	0.88	0
3890	25.8	24.8	43.8	38.3	38.8	43.3	64.8
3870	-71.2	24.5	-29.2	31.9	16.9	41.8	12.8
3850	-144.6	16.8	-185.4	15.8	28.8	12.7	-72.9
3830	42.9	21.1	54.9	-23.7	-12.4	-31.2	44.2
3810	16.4	11.2	25.8	-27.6	-5.6	-43.4	5.4
3790	-3.2	4.9	1.8	-7.7	7.5	-18.1	-5.7
3770	-49.9	8.7	-36.9	-5.5	-2.9	-7.1	-7.5
3750	-31.8	9.3	-19.5	-13.2	-18.8	-14.9	1.9
3730	8.9	5.7	6.6	-11.7	-6.5	-14.9	5.7
3710	-13.7	18.4	-1.8	5.6	5.7	5.8	-1.3
3690	-8.8	18.1	18.1	-5.7	-6.1	-5.7	-18.4
3670	18.9	-18.9	-9.8	-8.8	-18.2	-1.7	-38.4
3650	-1167.4	7.3	-1874.5	5.1	-22.4	18.8	-44.4
3630	33.3	3.6	35.7	-6.8	-14.8	-1.1	-13.6
3610	-5.5	4.1	-1.1	3.3	-5.9	8.2	-6.3
3590	9.5	5.1	14.1	8.1	6.5	9.1	5.8
3570	-14.7	8.4	-14.3	-8.8	-14.7	-5.1	-14.3
3550	1.3	1.6	2.9	-8.8	-9.9	-8.8	-5.2
3530	-8.1	-8.9	-1.8	-4.8	-4.3	-3.8	-4.3
3510	-4.1	2.2	-1.9	4.3	5.5	3.3	8.9
3490	-8.7	3.1	2.4	5.9	2.1	8.7	-6.8
3470	-9.6	9.4	8.7	19.8	18.8	28.4	28.3
3450	-18.8	1.9	-7.9	12.6	15.2	18.7	19.7
3430	-14.1	-2.2	-16.6	-7.7	-5.5	-9.2	-14.7
3410	7.8	-5.8	3.2	31.8	38.8	25.6	45.3
3390	0	0.88	0	0.88	0.88	0.88	0
3370	0	0.88	0	0.88	0.88	0.88	0
3350	0	0.88	0	0.88	0.88	0.88	0
3330	0	0.88	0	0.88	0.88	0.88	0
3310	0	0.88	0	0.88	0.88	0.88	0
Total	-7.3	5.5	-1.4	8.8	1.4	8.4	NA

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

F8005 - Diluted 10% with material grading 8% Pb+Zn, 95% Mining Recovery
 Geology Composites, Dilution Density = 2.5 mt/bcy

Period: January 1 1986 to December 31 1987

X_{Pb+Zn} Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	X _{Pb+Zn}	X _{Pb}	Zn	Ag g/mt	Au g/mt	Metal	
3950	4,261	2.84	8,684	4.84	1.51	3.34	21.0	0.83	421
3910	1,136	2.84	2,328	5.88	1.49	3.59	22.6	0.89	118
3890	7,640	2.28	17,431	5.85	2.24	2.81	45.6	0.86	879
3870	18,221	2.28	23,272	5.63	2.64	3.88	46.3	0.85	1,312
3850	6,752	2.82	19,019	8.24	3.18	5.14	41.6	0.84	1,566
3830	13,541	2.44	33,822	9.97	3.58	6.39	43.9	0.82	3,293
3810	32,185	2.68	86,129	9.19	3.28	5.99	42.8	0.12	7,916
3790	64,631	2.86	184,965	8.96	3.16	5.88	35.8	0.18	16,588
3770	98,598	2.77	273,351	7.75	2.98	4.85	37.7	0.26	21,172
3750	185,737	2.77	293,311	8.35	3.27	5.88	39.6	0.24	24,585
3730	122,656	2.87	352,175	8.18	3.12	5.86	40.4	0.17	28,814
3710	128,663	2.71	327,451	6.57	2.57	4.88	38.8	0.16	21,522
3690	66,384	2.78	184,618	7.43	2.74	4.69	35.5	0.16	13,711
3670	49,347	2.68	132,846	6.91	2.57	4.34	33.8	0.13	9,123
3650	28,738	2.86	59,218	7.36	3.28	4.88	43.5	0.14	4,368
3630	46,386	2.91	135,856	7.26	3.88	4.26	29.2	0.18	9,818
3610	52,734	2.88	152,131	7.36	2.81	4.55	25.4	0.21	11,282
3590	72,793	2.86	288,352	7.88	2.65	4.35	28.4	0.19	14,585
3570	54,378	2.99	162,539	7.69	3.11	4.58	32.8	0.16	12,581
3550	97,818	2.96	289,899	8.49	3.55	4.95	40.5	0.18	24,573
3530	178,486	3.83	516,928	9.18	3.57	5.53	36.7	0.12	47,848
3510	234,541	2.94	698,638	8.97	3.64	5.34	42.9	0.13	61,968
3490	188,458	2.95	556,598	8.74	3.86	4.88	58.8	0.12	48,677
3470	133,594	2.81	375,343	7.32	3.14	4.18	36.3	0.89	27,468
3450	99,479	3.81	299,152	7.27	3.83	4.24	34.8	0.86	21,729
3430	69,636	3.12	217,381	9.84	3.66	5.36	43.1	0.84	19,624
3410	1,638	3.15	5,162	6.95	2.91	4.85	26.3	0.86	359
3390	0	0.88	0	0.88	0.88	0.88	0.88	0.88	0
3370	0	0.88	0	0.88	0.88	0.88	0.88	0.88	0
3350	0	0.88	0	0.88	0.88	0.88	0.88	0.88	0
3330	0	0.88	0	0.88	0.88	0.88	0.88	0.88	0
3310	0	0.88	0	0.88	0.88	0.88	0.88	0.88	0
Total	1,946,254	2.88	5,685,359	8.11	3.25	4.87	38.82	0.14	454,838

Blasthole Calculation

Period: January 1 1986 to December 31 1987

X_{Pb+Zn} Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	X _{Pb+Zn}	X _{Pb}	Zn	Ag g/mt	Metal	
3950	0	0.88	0	0.88	0.88	0.88	0	
3910	0	0.88	0	0.88	0.88	0.88	0	
3890	14,727	3.88	44,188	7.88	3.1	4.7	NA	3,446
3870	6,793	3.88	28,378	8.68	3.3	5.3	NA	1,753
3850	9,858	3.88	29,549	6.24	2.41	3.83	NA	1,844
3830	27,387	3.88	81,928	7.38	2.79	4.51	NA	5,988
3810	33,288	3.88	99,848	7.68	3.19	4.41	NA	7,588
3790	61,448	3.88	184,328	8.48	3.45	4.95	NA	15,483
3770	66,568	3.88	199,688	7.28	2.79	4.49	35.2	14,537
3750	69,416	3.88	288,249	7.71	3.11	4.6	43.8	16,856
3730	181,538	3.88	384,589	7.68	3.86	4.62	44.3	23,392
3710	91,383	3.88	273,988	7.32	2.9	4.42	38.9	28,858
3690	56,589	3.88	169,527	7.37	2.65	4.72	31.9	12,494
3670	25,328	3.88	75,983	7.87	2.67	4.4	36.2	5,372
3650	2,133	3.88	6,488	7.81	2.34	4.67	27.8	449
3630	54,946	3.88	164,838	7.29	2.73	4.56	26.4	12,817
3610	48,711	3.88	146,134	7.66	2.64	5.82	23.3	11,194
3590	78,415	3.88	211,244	8.14	3.81	5.13	32.1	17,195
3570	43,888	3.88	131,663	7.28	2.78	4.5	28.5	9,585
3550	98,674	3.88	296,822	7.88	3.21	4.59	38.6	23,898
3530	161,479	3.88	484,438	8.99	3.49	5.5	35.3	43,551
3510	223,781	3.88	671,182	9.41	3.86	5.55	47.1	63,151
3490	188,883	3.88	566,488	9.28	3.89	5.39	47.2	52,563
3470	144,939	3.88	434,818	8.64	3.59	5.85	43.2	37,568
3450	96,354	3.88	289,861	8.28	3.47	4.73	48.8	23,783
3430	63,646	3.88	198,938	8.25	3.43	4.82	37.8	15,752
3410	1,778	3.88	5,333	18.19	4.75	5.44	48.8	543
3390	0	0.88	0	0.88	0.88	0.88	0.88	0
3370	0	0.88	0	0.88	0.88	0.88	0.88	0
3350	0	0.88	0	0.88	0.88	0.88	0.88	0
3330	0	0.88	0	0.88	0.88	0.88	0.88	0
3310	0	0.88	0	0.88	0.88	0.88	0.88	0
Total	1,763,587	3.88	5,298,522	8.29	3.32	4.96	NA	438,355

X_{VARIANCE} (Blasthole-diluted model)/blasthole *100

Period: January 1 1986 to December 31 1987

X_{Pb+Zn} Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	X _{Pb+Zn}	X _{Pb}	Zn	Ag g/mt	Metal	
3950	0	0.88	0	0.88	0.88	0.88	0	
3910	0	0.88	0	0.88	0.88	0.88	0	
3890	48.1	24.8	68.5	35.2	27.9	48.2	74.5	
3870	-58.5	24.1	-14.2	34.6	28.1	43.4	25.2	
3850	31.4	6.1	35.6	-32.8	-28.6	-34.1	15.8	
3830	58.4	18.7	59.7	-36.6	-28.4	-41.7	44.9	
3810	3.5	18.6	13.7	-28.9	-8.3	-35.8	-4.3	
3790	-5.2	4.6	-8.3	-6.7	8.3	-17.2	-7.1	
3770	-48.1	7.6	-36.9	-6.5	-3.9	-7.9	-7.1	-45.6
3750	-52.3	7.5	-48.8	-8.4	-5.2	-18.5	7.8	-52.6
3730	-28.8	4.3	-15.6	-6.5	-1.9	-9.6	9.8	-23.2
3710	-32.2	9.5	-19.5	18.2	11.3	9.5	2.3	-7.3
3690	-17.5	7.3	-8.9	-8.8	-3.3	8.6	-11.5	-9.7
3670	18.8	7.8	-73.8	2.3	3.6	1.4	8.7	-69.8
3650	-871.7	4.8	-825.2	-5.8	-48.2	12.6	-61.3	-871.8
3630	15.6	2.9	18.1	8.4	-9.9	6.5	-18.5	18.4
3610	-8.3	3.8	-4.1	3.9	-6.4	9.3	-8.9	-8.1
3590	-3.4	4.6	1.4	14.8	11.8	15.3	11.7	15.2
3570	-23.9	8.4	-23.5	-5.6	-11.8	-1.8	-12.4	-38.4
3550	8.9	1.5	2.3	-8.9	-18.5	-7.9	-5.2	-6.4
3530	-5.5	-1.1	-6.7	-1.2	-2.4	-8.5	-3.9	-8.8
3510	-4.8	1.8	-2.9	4.6	5.8	3.8	8.8	1.9
3490	8.2	1.6	1.7	5.9	8.7	9.4	-7.6	7.4
3470	7.8	6.3	13.7	15.3	12.6	17.2	16.8	26.9
3450	-3.2	-8.2	-3.5	11.3	12.8	18.4	15.8	8.3
3430	-9.4	-4.1	-13.8	-9.5	-6.8	-11.3	-16.5	-24.6
3410	7.8	-5.8	3.2	31.8	38.8	25.6	45.3	33.9
3390	0	0.88	0	0.88	0.88	0.88	0.88	0
3370	0	0.88	0	0.88	0.88	0.88	0.88	0
3350	0	0.88	0	0.88	0.88	0.88	0.88	0
3330	0	0.88	0	0.88	0.88	0.88	0.88	0
3310	0	0.88	0	0.88	0.88	0.88	0.88	0
Total	-18.4	4.8	-6.8	2.1	2.2	2.8	NA	-3.8

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

F8885 - Diluted 10% with material grading 0% Pb+Zn, 95% Mining Recovery
 Geology Composites, Dilution Density = 2.5 mt/bcy

Period: January 1 1988 to December 31 1988

XPb+Zn Cutoff = 4%

Bench	Volume bcy	Density at/bcy	Tonnes XPb+Zn	XPb	Zn	Ag g/mt	Au g/mt	Metal	
3950	71	2.85	146	4.81	1.24	2.77	18.8	0.88	6
3910	35	2.87	73	4.81	1.47	3.34	21.5	0.18	4
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3870	2,292	2.24	5,141	5.83	2.18	2.85	44.2	0.87	258
3850	2,543	2.24	5,706	6.88	2.58	3.58	55.5	0.36	342
3830	2,499	2.17	5,424	4.73	1.81	2.92	38.4	0.59	256
3810	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
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	228	2.85	627	9.98	3.74	6.25	53.8	0.38	63
3730	467	2.31	1,076	6.12	2.28	3.84	38.1	0.28	66
3710	3,888	2.38	7,116	4.96	1.85	3.11	38.3	0.28	353
3690	253	2.48	627	5.35	1.98	3.45	31.8	0.27	34
3670	214	2.15	460	5.59	1.64	3.95	26.5	0.14	26
3650	71	2.85	146	5.84	2.58	3.35	32.8	0.17	9
3630	362	2.48	899	4.55	1.35	3.21	12.3	0.88	41
3610	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3590	12,792	3.86	39,146	18.27	4.35	5.92	63.7	0.81	4,821
3570	83,655	2.92	244,891	18.33	4.54	5.79	61.9	0.28	25,288
3550	129,328	2.84	367,388	9.55	4.39	5.16	57.7	0.16	35,182
3530	181,137	2.85	516,711	8.75	4.85	4.78	68.8	0.15	45,189
3510	221,888	2.81	622,235	8.62	3.69	4.93	54.8	0.18	53,625
3490	381,583	2.76	831,663	9.28	3.88	5.48	48.3	0.86	76,513
3470	318,684	2.81	894,447	9.41	4.88	5.41	49.8	0.86	84,159
3450	291,862	2.84	827,974	8.18	3.36	4.73	43.1	0.86	66,991
3430	17,477	3.83	52,988	8.22	3.32	4.89	36.9	0.87	4,343
3410	51,816	3.87	158,924	6.67	2.63	4.85	26.7	0.86	18,685
3390	28,839	2.99	59,983	5.79	2.41	3.39	24.5	0.87	3,479
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	1,641,495	2.83	4,642,984	8.85	3.79	5.86	58.89	0.89	418,692

Blasthole Calculation

Period: January 1 1988 to December 31 1988

XPb+Zn Cutoff = 4%

Bench	Volume bcy	Density at/bcy	Tonnes XPb+Zn	XPb	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	3.88	23,986	9.53	5.18	4.43	74.8	2,278
3570	185,844	3.88	315,132	8.45	3.87	4.58	58.8	26,629
3550	149,373	3.88	448,118	8.58	4.89	4.49	62.1	38,449
3530	149,888	3.88	447,824	9.38	4.26	5.84	57.6	41,573
3510	288,414	3.88	625,242	8.99	3.86	5.13	58.1	56,289
3490	288,137	3.88	864,411	9.55	3.99	5.56	52.3	82,551
3470	299,168	3.88	897,481	9.25	3.86	5.39	55.1	83,817
3450	241,268	3.88	723,885	8.62	3.65	4.97	45.8	62,392
3430	0	0.00	0	0.00			0	0
3410	58,934	3.88	152,881	6.48	2.68	3.88	23.8	9,779
3390	27,112	3.88	81,336	6.65	2.62	4.83	24.8	5,489
3370	0	0.00	0	0.00			0	0
3350	0	0.00	0	0.00			0	0
3330	0	0.00	0	0.00			0	0
3310	0	0.00	0	0.00			0	0
Total	1,526,419	3.88	4,579,256	8.92	3.86	5.86	53.8	488,286

ZVARIANCE (Blasthole-diluted model)/blasthole #188

Period: January 1 1988 to December 31 1988

XPb+Zn Cutoff = 4%

Bench	Volume bcy	Density at/bcy	Tonnes XPb+Zn	XPb	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	-68.5	-2.8	-63.7	-7.8	14.6	-33.6	13.9	-76.5
3570	28.4	2.7	22.5	-22.2	-17.2	-26.4	-5.3	5.3
3550	13.4	5.3	18.8	-11.4	-7.4	-15.8	7.1	8.7
3530	-21.6	4.9	-15.6	6.8	5.8	6.7	-4.2	-8.7
3510	-6.4	6.5	8.5	4.1	4.4	4.8	7.8	4.6
3490	-4.7	8.1	3.8	3.7	4.8	2.9	7.8	7.3
3470	-6.5	6.4	8.3	-1.7	-3.6	-8.4	9.6	-1.4
3450	-28.6	5.2	-14.4	6.8	7.8	4.9	4.2	-7.4
3430	0	0.00	0	0.00			0	0
3410	-1.7	-2.2	-4.8	-4.3	-1.8	-6.5	-16.3	-8.4
3390	26.1	8.2	26.3	12.9	8.8	15.9	-1.9	35.7
3370	0	0.00	0	0.00			0	0
3350	0	0.00	0	0.00			0	0
3330	0	0.00	0	0.00			0	0
3310	0	0.00	0	0.00			0	0
Total	-7.5	5.7	-1.4	8.8	1.7	8.1	5.6	-8.6

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

F8805 - Diluted 10% with material grading 8% Pb+Zn, 95% Mining Recovery
Geology Composites, Dilution Density = 2.5 mt/bcy

Period: January 1 1988 to December 31 1988

XPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	XPb+Zn	XPb	XZn	Ag g/mt	Au g/mt	Metal
3950	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3910	35 2.07	73	4.01	1.47	3.34	21.5	0.10	4
3890	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3870	1,539 2.22	3,417	5.56	2.43	3.13	58.5	0.03	190
3850	2,115 2.26	4,786	6.39	2.56	3.83	58.3	0.42	386
3830	787 2.23	1,756	5.81	2.28	3.53	49.2	0.45	182
3810	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
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	220 2.05	627	9.98	3.74	6.25	53.0	0.38	63
3730	467 2.31	1,076	6.12	2.28	3.84	38.1	0.28	66
3710	2,518 2.35	5,925	5.12	1.97	3.15	31.6	0.28	383
3690	253 2.40	627	5.35	1.98	3.45	31.8	0.27	34
3670	214 2.15	468	5.59	1.64	3.95	26.5	0.14	26
3650	71 2.05	146	5.84	2.58	3.35	32.8	0.17	9
3630	145 2.46	355	4.79	1.38	3.41	13.2	0.08	17
3610	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3590	12,792 3.06	39,146	18.27	4.35	5.92	63.7	0.81	4,021
3570	81,525 2.94	239,754	18.45	4.68	5.85	62.6	0.28	25,843
3550	126,368 2.05	368,188	9.66	4.45	5.22	58.3	0.16	34,886
3530	179,515 2.06	512,834	8.78	4.86	4.72	68.3	0.15	45,836
3510	228,375 2.81	619,827	8.64	3.78	4.95	54.1	0.18	53,518
3490	283,732 2.77	785,265	9.58	3.93	5.57	49.5	0.86	74,688
3470	298,488 2.82	841,486	9.75	4.14	5.68	51.4	0.87	81,938
3450	235,471 2.98	781,268	8.83	3.72	5.18	46.3	0.87	61,839
3430	16,546 3.87	58,829	8.38	3.48	4.98	37.2	0.87	4,268
3410	46,888 3.14	146,778	6.89	2.73	4.16	26.9	0.86	18,114
3390	17,633 3.89	54,413	5.97	2.52	3.45	24.1	0.88	3,258
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	1,527,618 2.86	4,378,221	9.14	3.93	5.21	51.59	0.18	399,536

Blasthole Calculation

Period: January 1 1988 to December 31 1988

XPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	XPb+Zn	XPb	XZn	Ag g/mt	Metal
3950	0 0.00	0	0.00	0.00	0.00	0.0	0
3910	0 0.00	0	0.00	0.00	0.00	0.0	0
3890	0 0.00	0	0.00	0.00	0.00	0.0	0
3870	0 0.00	0	0.00	0.00	0.00	0.0	0
3850	0 0.00	0	0.00	0.00	0.00	0.0	0
3830	0 0.00	0	0.00	0.00	0.00	0.0	0
3810	0 0.00	0	0.00	0.00	0.00	0.0	0
3790	0 0.00	0	0.00	0.00	0.00	0.0	0
3770	0 0.00	0	0.00	0.00	0.00	0.0	0
3750	0 0.00	0	0.00	0.00	0.00	0.0	0
3730	0 0.00	0	0.00	0.00	0.00	0.0	0
3710	0 0.00	0	0.00	0.00	0.00	0.0	0
3690	0 0.00	0	0.00	0.00	0.00	0.0	0
3670	0 0.00	0	0.00	0.00	0.00	0.0	0
3650	0 0.00	0	0.00	0.00	0.00	0.0	0
3630	0 0.00	0	0.00	0.00	0.00	0.0	0
3610	0 0.00	0	0.00	0.00	0.00	0.0	0
3590	7,969 3.08	23,986	9.53	5.18	4.43	74.8	2,278
3570	99,488 3.08	298,464	8.65	3.97	4.68	54.1	25,817
3550	139,861 3.08	417,182	8.87	4.23	4.64	64.8	37,884
3530	145,248 3.08	435,745	9.38	4.38	5.88	58.8	48,873
3510	283,845 3.08	889,134	9.88	3.98	5.18	58.8	55,389
3490	278,347 3.08	811,842	9.85	4.11	5.74	53.5	79,888
3470	265,265 3.08	795,795	9.88	4.89	5.71	57.8	77,988
3450	234,325 3.08	782,975	8.73	3.69	5.84	45.1	61,378
3430	0 0.00	0	0.00	0.00	0.00	0.0	0
3410	44,415 3.08	133,245	6.67	2.78	3.97	22.9	8,887
3390	18,898 3.08	56,678	7.28	2.98	4.38	24.8	4,126
3370	0 0.00	0	0.00	0.00	0.00	0.0	0
3350	0 0.00	0	0.00	0.00	0.00	0.0	0
3330	0 0.00	0	0.00	0.00	0.00	0.0	0
3310	0 0.00	0	0.00	0.00	0.00	0.0	0
Total	1,428,853 3.08	4,284,158	9.19	3.97	5.21	54.8	393,548

VARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1988 to December 31 1988

XPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	XPb+Zn	XPb	XZn	Ag g/mt	Metal	
3950	0 0.00	0	0.00	0.00	0.00	0.0	0	
3910	0 0.00	0	0.00	0.00	0.00	0.0	0	
3890	0 0.00	0	0.00	0.00	0.00	0.0	0	
3870	0 0.00	0	0.00	0.00	0.00	0.0	0	
3850	0 0.00	0	0.00	0.00	0.00	0.0	0	
3830	0 0.00	0	0.00	0.00	0.00	0.0	0	
3810	0 0.00	0	0.00	0.00	0.00	0.0	0	
3790	0 0.00	0	0.00	0.00	0.00	0.0	0	
3770	0 0.00	0	0.00	0.00	0.00	0.0	0	
3750	0 0.00	0	0.00	0.00	0.00	0.0	0	
3730	0 0.00	0	0.00	0.00	0.00	0.0	0	
3710	0 0.00	0	0.00	0.00	0.00	0.0	0	
3690	0 0.00	0	0.00	0.00	0.00	0.0	0	
3670	0 0.00	0	0.00	0.00	0.00	0.0	0	
3650	0 0.00	0	0.00	0.00	0.00	0.0	0	
3630	0 0.00	0	0.00	0.00	0.00	0.0	0	
3610	0 0.00	0	0.00	0.00	0.00	0.0	0	
3590	-68.5 -2.8	-63.7 -7.8	14.6 -33.6	13.9 -76.5	18.1 2.8	19.7 -28.8	-15.9 -24.9	-15.8 3.8
3570	18.1 2.8	19.7 -28.8	-15.9 -24.9	-15.8 3.8	9.1 5.8	13.7 -8.9	-5.1 -12.5	9.8 5.9
3550	9.1 5.8	13.7 -8.9	-5.1 -12.5	9.8 5.9	-23.6 4.8	-17.7 6.4	5.5 7.1	-3.9 -18.2
3530	-23.6 4.8	-17.7 6.4	5.5 7.1	-3.9 -18.2	-8.5 6.4	-1.6 4.9	5.1 4.5	7.9 3.2
3510	-8.5 6.4	-1.6 4.9	5.1 4.5	7.9 3.2	-5.8 7.7	3.2 3.6	4.4 2.9	7.3 6.6
3490	-5.8 7.7	3.2 3.6	4.4 2.9	7.3 6.6	-12.5 6.8	-5.7 8.6	-1.1 1.9	11.1 -5.1
3470	-12.5 6.8	-5.7 8.6	-1.1 1.9	11.1 -5.1	-8.5 8.7	8.2 -1.1	-8.8 -1.2	-2.6 -8.8
3450	-8.5 8.7	8.2 -1.1	-8.8 -1.2	-2.6 -8.8	-5.4 -4.5	-18.2 -3.3	-1.8 -4.9	-17.8 -13.8
3430	-5.4 -4.5	-18.2 -3.3	-1.8 -4.9	-17.8 -13.8	6.7 -2.9	4.8 18.8	13.2 21.1	-8.4 21.2
3410	6.7 -2.9	4.8 18.8	13.2 21.1	-8.4 21.2	0 0.00	0 0.00	0 0.00	0 0.00
3390	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00
3370	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00
3350	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00
3330	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00
3310	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00
Total	-7.8 4.6	-2.8 8.5	1.1 -8.8	4.4 -13.8	-7.8 4.6	-2.8 8.5	1.1 -8.8	4.4 -13.8

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

F8885 - Diluted 10% with material grading 8% Pb+Zn, 95% Mining Recovery
 Geology Composites, Dilution Density = 2.5 mt/bcy

Period: January 1 1989 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	XPb+Zn	XPb	XZn	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	251	2.21	554	4.28	1.91	2.36	37.0	0.17	24
3850	2,932	2.21	6,479	4.90	2.18	2.71	38.4	0.23	317
3830	142	2.06	293	4.33	1.71	2.61	36.6	0.02	13
3810	1,741	2.06	3,584	5.05	2.18	2.96	39.1	0.23	181
3790	4,774	1.94	9,259	5.18	2.17	3.02	39.2	0.21	481
3770	883	1.92	1,693	4.84	1.96	2.87	35.0	0.26	82
3750	144	2.40	345	5.92	1.88	4.84	32.8	0.36	20
3730	4,418	2.51	11,087	4.71	1.76	2.95	25.8	0.14	522
3710	38,129	2.65	79,828	6.73	2.41	4.31	34.2	0.12	5,363
3690	52,875	2.87	149,425	9.48	3.68	5.88	49.2	0.16	14,168
3670	59,315	2.78	164,964	8.12	2.85	5.26	34.2	0.15	13,392
3650	74,538	2.75	205,154	6.58	2.57	4.81	29.2	0.19	13,583
3630	188,983	2.98	555,183	8.53	3.32	5.21	43.3	0.23	26,957
3610	158,728	2.95	463,885	9.87	3.88	5.27	53.8	0.13	48,272
3590	122,841	2.85	350,159	10.25	4.36	5.88	56.5	0.25	35,875
3570	183,792	2.83	519,191	9.54	3.89	5.65	47.5	0.25	28,817
3550	81,576	2.99	243,863	8.25	3.37	4.88	37.7	0.14	28,113
3530	54,497	2.98	162,247	6.96	2.88	4.89	31.5	0.15	11,313
3510	6,724	2.98	20,022	7.91	2.89	5.83	24.7	0.19	1,585
3490	898	3.28	2,947	9.47	4.48	5.87	49.7	0.88	279
3470	7,791	3.87	29,941	7.85	3.83	4.82	33.6	0.85	1,687
3450	33,486	3.86	128,556	6.25	2.76	3.49	34.8	0.85	6,414
3430	276,866	3.89	856,451	8.18	3.29	4.88	34.7	0.86	69,295
3410	211,353	3.82	638,182	7.27	2.84	4.43	27.5	0.88	46,355
3390	186,499	2.79	518,838	6.61	2.44	4.17	26.6	0.14	34,423
3370	146,676	2.81	412,639	7.26	2.67	4.59	24.3	0.89	29,973
3350	91,482	2.84	259,191	6.88	2.34	4.46	28.9	0.85	17,625
3330	31,199	2.58	80,413	5.88	1.94	3.85	19.5	0.18	4,657
3310	6,883	2.22	15,222	5.79	2.27	3.52	44.6	0.45	783
Total	1,852,648	2.98	5,373,233	7.89	3.11	4.78	35.78	0.13	423,689

Blasthole Calculation

Period: January 1 1989 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	XPb+Zn	XPb	XZn	Ag g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0
3850	0	0.00	0	0.00	0.00	0.00	0.0	0
3830	0	0.00	0	0.00	0.00	0.00	0.0	0
3810	1,185	3.08	3,556	7.35	3.36	3.99	58.8	261
3790	6,443	3.08	19,328	8.58	3.79	4.79	58.4	1,658
3770	3,919	3.08	11,756	9.32	3.61	5.71	73.8	1,896
3750	0	0.00	0	0.00	0.00	0.00	0.0	0
3730	0	0.00	0	0.00	0.00	0.00	0.0	0
3710	11,372	3.08	34,117	9.93	3.34	6.59	55.9	3,388
3690	36,819	3.08	112,824	6.92	2.92	4.88	41.1	7,477
3670	48,389	3.08	148,167	8.28	3.29	4.91	58.8	11,984
3650	63,867	3.08	196,882	8.18	3.22	4.96	33.4	15,673
3630	183,843	3.08	566,336	7.25	2.75	4.58	34.1	22,586
3610	129,192	3.08	398,577	8.38	3.31	5.87	45.8	32,479
3590	142,539	3.08	439,021	7.89	3.18	4.71	48.7	33,739
3570	183,886	3.08	566,468	7.64	3.86	4.58	44.9	23,689
3550	75,843	3.08	232,528	6.97	2.89	4.88	36.1	15,859
3530	61,471	3.08	187,413	7.13	2.83	4.38	38.8	13,149
3510	13,327	3.08	41,045	7.29	2.69	4.68	24.6	2,915
3490	0	0.00	0	0.00	0.00	0.00	0.0	0
3470	0	0.00	0	0.00	0.00	0.00	0.0	0
3450	28,174	3.08	86,522	5.73	2.39	3.34	23.2	3,468
3430	232,848	3.08	717,171	7.87	2.87	4.28	35.5	49,216
3410	228,932	3.08	705,797	7.23	2.85	4.38	29.6	49,655
3390	155,888	3.08	480,145	7.83	2.68	4.43	32.7	32,877
3370	147,226	3.08	453,679	7.29	2.57	4.72	28.5	32,198
3350	79,195	3.08	242,914	6.67	2.31	4.36	18.8	15,847
3330	24,748	3.08	75,245	6.65	2.16	4.49	19.6	4,937
3310	0	0.00	0	0.00	0.00	0.00	0.0	0
Total	1,688,618	3.08	5,065,854	7.38	2.87	4.51	35.8	373,998

ZVARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1989 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	XPb+Zn	XPb	XZn	Ag g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0
3850	0	0.00	0	0.00	0.00	0.00	0.0	0
3830	0	0.00	0	0.00	0.00	0.00	0.0	0
3810	-46.9	31.4	-8.8	31.2	37.5	25.7	21.8	38.6
3790	25.9	35.3	52.1	39.6	42.7	37.8	22.3	71.8
3770	77.5	36.1	85.6	48.1	45.6	49.7	52.1	92.5
3750	0	0.00	0	0.00	0.00	0.00	0.0	0
3730	0	0.00	0	0.00	0.00	0.00	0.0	0
3710	-164.9	11.7	-134.8	32.3	27.9	34.6	38.8	-58.3
3690	-44.6	4.4	-38.3	-37.8	-23.3	-47.8	-19.5	-89.5
3670	-22.6	7.3	-13.6	1.8	13.2	-7.2	32.8	-12.5
3650	-16.7	8.3	-7.1	19.5	28.1	19.2	12.6	13.8
3630	-4.9	3.2	-1.5	-17.6	-28.7	-15.8	-26.8	-19.4
3610	-16.7	1.8	-14.5	-8.3	-14.8	-4.8	-15.7	-24.8
3590	13.8	5.8	18.1	-38.8	-37.2	-24.9	-16.1	-6.3
3570	-8.8	5.6	4.9	-24.8	-27.2	-23.3	-5.8	-18.7
3550	-7.6	8.4	-7.1	-18.4	-16.7	-19.7	-4.6	-26.8
3530	11.3	8.8	12.8	2.3	-1.8	4.9	17.2	14.8
3510	49.5	8.7	49.9	-8.5	-7.5	-9.3	-8.4	45.6
3490	0	0.00	0	0.00	0.00	0.00	0.0	0
3470	0	0.00	0	0.00	0.00	0.00	0.0	0
3450	-66.8	-2.1	-69.5	-9.8	-15.6	-4.5	-58.3	-85.8
3430	-19.3	-3.1	-23.8	-14.6	-14.7	-14.3	2.1	-48.8
3410	7.7	-8.7	7.1	-8.6	8.5	-1.1	7.3	6.6
3390	-19.6	6.9	-11.4	6.8	6.3	5.8	18.5	-4.7
3370	8.4	6.2	6.6	8.4	-4.8	2.7	14.9	6.9
3350	-15.4	5.5	-9.1	-1.9	-1.1	-2.4	-16.8	-11.2
3330	-26.1	14.1	-8.3	12.8	18.4	14.2	8.8	5.7
3310	0	0.00	0	0.00	0.00	0.00	0.0	0
Total	-9.7	3.3	-6.1	-6.8	-8.3	-5.8	8.3	-13.3

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

F8805 - Diluted 10% with material grading 0% Pb+Zn, 95% Mining Recovery
Geology Composites, Dilution Density = 2.5 mt/bcy

Period: January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume Density bcy 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	2,290 2.23	5,110	5.23	2.24	2.99	38.5	0.27	267
3830	35 2.07	73	4.56	1.06	2.70	37.5	0.57	3
3810	997 2.11	2,100	6.03	2.40	3.63	43.7	0.15	127
3790	2,211 2.14	4,734	6.32	2.55	3.77	45.9	0.15	300
3770	143 2.20	314	7.52	2.94	4.57	52.0	0.21	24
3750	144 2.40	345	5.92	1.00	4.04	32.0	0.36	20
3730	731 2.74	2,006	7.10	2.91	4.19	30.5	0.21	142
3710	27,193 2.69	73,255	6.95	2.51	4.44	34.9	0.12	5,000
3690	47,159 2.95	139,027	9.91	3.79	6.12	50.9	0.15	13,776
3670	49,224 2.93	144,231	8.70	3.00	5.62	35.5	0.15	12,540
3650	57,972 2.89	167,402	7.16	2.05	4.33	30.5	0.20	12,013
3630	105,330 2.93	300,306	0.64	3.36	5.27	43.0	0.23	26,626
3610	147,637 2.96	436,094	9.15	3.04	5.32	53.4	0.13	39,996
3590	117,130 2.89	337,995	10.47	4.47	6.00	57.0	0.24	35,397
3570	103,072 2.03	292,090	9.57	3.91	5.66	47.6	0.25	27,962
3550	81,576 2.99	243,663	8.25	3.37	4.00	37.7	0.14	20,113
3530	51,273 2.97	152,434	7.17	2.95	4.23	31.6	0.15	10,934
3510	6,650 2.90	19,792	7.95	2.90	5.05	24.7	0.19	1,574
3490	0 3.20	2,947	9.47	4.40	5.07	49.7	0.00	279
3470	6,370 3.06	19,510	7.75	3.20	4.40	35.0	0.06	1,515
3450	29,100 3.00	89,734	6.52	2.09	3.63	36.0	0.05	5,049
3430	263,271 3.12	822,007	0.26	3.37	4.09	35.1	0.06	67,920
3410	194,300 3.07	597,395	7.40	2.94	4.55	27.5	0.07	44,750
3390	160,402 2.06	400,794	6.01	2.50	4.30	25.9	0.13	32,694
3370	126,610 2.91	360,425	7.60	2.79	4.01	23.0	0.09	20,000
3350	72,419 3.00	217,391	7.32	2.53	4.70	19.7	0.05	15,009
3330	17,600 2.06	50,526	6.03	2.32	4.51	17.4	0.05	3,450
3310	6,047 2.22	13,449	5.00	2.20	3.52	44.5	0.46	700
Total	1,605,090 2.96	4,992,030	0.17	3.24	4.94	36.32	0.13	400,045

Blasthole Calculation

Period: January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume Density bcy 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	4,140 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	3,300
3690	28,641 3.00	85,923	7.40	3.10	4.30	43.0	6,427
3670	47,516 3.00	142,540	0.20	3.32	4.96	51.2	11,003
3650	61,209 3.00	183,067	0.33	3.20	5.05	33.6	15,316
3630	0 3.00	242,094	0.20	3.07	5.13	36.0	19,917
3610	123,539 3.00	370,610	0.57	3.30	5.19	46.7	31,762
3590	122,610 3.00	367,029	0.45	3.39	5.06	50.6	31,002
3570	0 3.00	251,201	0.49	3.34	5.15	47.4	21,327
3550	54,319 3.00	162,950	0.26	0.33	4.93	39.1	13,460
3530	52,619 3.00	157,056	7.62	0.99	4.63	39.0	12,029
3510	13,327 3.00	39,900	7.29	2.49	4.60	24.6	2,915
3490	0 0.00	0	0.00				0
3470	0 0.00	0	0.00				0
3450	16,009 3.00	50,660	5.94	2.43	3.51	23.0	3,010
3430	190,944 3.00	572,032	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	131,039 3.00	395,517	7.41	2.74	4.67	31.9	29,300
3370	132,935 3.00	390,004	7.56	2.60	4.00	20.0	30,150
3350	57,006 3.00	173,417	7.47	2.63	4.04	17.3	12,954
3330	13,612 3.00	40,035	7.05	2.62	5.23	20.0	3,206
3310	0 0.00	0	0.00				0
Total	1,436,195 3.00	4,300,505	7.90	3.06	4.04	37.0	340,252

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

Period: January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950							0
3910							0
3890							0
3870							0
3850							0
3830							0
3810							0
3790	46.7 20.6	62.0 35.0	37.0 32.7	15.0	75.2		
3770	96.4 26.0	97.3 19.3	10.7 19.9	27.6	97.9		
3750							0
3730							0
3710	-139.1 10.2	-114.7 30.1	24.9 32.7	37.5	-50.2		
3690	-64.7 1.7	-61.0 -32.5	-22.3 -39.7	-16.3	-114.3		
3670	-3.6 2.3	-1.2 -5.1	7.2 -13.3	30.6	-6.3		
3650	5.4 3.7	0.9 14.0	13.2 14.3	9.4	21.6		
3630	-30.1 2.4	-26.9 -5.3	-9.6 -2.0	-10.9	-33.7		
3610	-19.5 1.4	-17.9 -6.0	-13.5 -2.5	-14.3	-25.9		
3590	4.5 3.0	0.1 -23.9	-31.9 -10.6	-14.2	-13.9		
3570	-23.1 5.5	-16.3 -12.0	-17.0 -10.0	-0.6	-31.1		
3550	-50.2 0.4	-49.5 0.1	-1.3 1.0	3.6	-49.4		
3530	2.6 0.9	3.4 5.9	1.5 0.7	10.0	9.1		
3510	50.1 0.0	50.5 -9.1	-7.0 -9.9	-0.4	46.0		
3490							0
3470							0
3450	-72.3 -2.0	-77.1 -9.7	-19.0 -3.3	-56.5	-94.3		
3430	-37.9 -4.1	-43.5 -0.4	-9.9 -7.5	6.1	-55.6		
3410	4.0 -2.5	2.5 0.9	0.0 0.0	0.5	3.2		
3390	-27.7 4.0	-21.6 0.1	0.0 7.9	10.0	-11.6		
3370	4.0 3.0	7.6 -0.5	-4.1 1.5	10.0	7.1		
3350	-25.3 -0.1	-25.4 2.0	3.9 1.2	-14.0	-22.7		
3330	-29.9 4.7	-23.7 13.0	11.5 13.0	13.2	-7.6		
3310							0
Total	-17.4 1.3	-15.9 -3.5	-5.9 -2.0	1.9	-19.9		

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

F8885 - Diluted 10% with material grading BX Pb+Zn, 95% Mining Recovery
 Geology Composites, Dilution Density = 2.5 mt/bcy

Period: January 1 1986 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	XZn	Ag g/at	Au g/mt	Metal
	bcy	mt/bcy							
3950	7,899	2.83	14,411	4.52	1.41	3.11	28.1	0.85	652
3918	1,172	2.84	2,393	5.87	1.49	3.58	22.6	0.89	121
3898	11,847	2.28	25,195	4.81	2.15	2.66	43.6	0.89	1,212
3878	18,923	2.26	42,782	5.86	2.31	2.75	42.2	0.89	2,167
3858	29,568	2.46	72,868	5.28	1.98	3.38	32.5	0.11	3,848
3838	21,972	2.34	51,477	7.97	2.86	5.11	39.5	0.15	4,185
3818	35,278	2.63	92,981	8.85	3.18	5.75	42.1	0.12	8,228
3798	78,192	2.79	195,958	8.73	3.18	5.63	36.8	0.18	17,114
3778	114,696	2.73	313,552	7.29	2.73	4.55	36.3	0.25	22,848
3758	128,729	2.72	328,349	7.93	3.89	4.84	38.5	0.25	26,835
3738	139,691	2.82	393,547	7.77	2.95	4.82	39.8	0.18	38,579
3718	162,183	2.67	433,382	6.46	2.47	3.99	36.7	0.15	28,814
3698	132,237	2.76	365,572	7.99	2.98	5.81	48.2	0.16	29,218
3678	189,891	2.73	388,828	7.55	2.71	4.83	33.5	0.14	22,644
3658	181,646	2.76	288,468	6.68	2.65	3.95	31.8	0.17	18,513
3638	168,141	2.98	464,189	8.84	3.17	4.87	38.5	0.21	37,313
3618	285,643	2.93	681,857	8.59	3.53	5.87	45.7	0.15	51,784
3598	218,582	2.86	682,641	9.87	3.74	5.33	46.9	0.21	54,675
3578	241,824	2.98	788,422	9.38	3.93	5.45	48.9	0.21	65,726
3558	389,446	2.91	981,948	8.85	3.84	5.81	46.8	0.14	79,835
3538	488,764	2.94	1,282,988	8.63	3.67	4.96	46.8	0.14	183,847
3518	469,431	2.87	1,349,325	8.74	3.63	5.11	47.4	0.12	117,883
3498	587,986	2.82	1,431,668	8.87	3.76	5.12	48.4	0.89	127,853
3478	488,968	2.78	1,368,256	8.54	3.62	4.92	44.5	0.88	116,134
3458	435,898	2.89	1,258,211	7.65	3.19	4.47	39.7	0.86	96,313
3438	378,489	3.88	1,142,589	8.22	3.35	4.87	36.3	0.86	93,922
3418	264,887	3.83	882,267	7.14	2.88	4.35	27.3	0.88	57,319
3398	286,539	2.81	588,821	6.53	2.43	4.89	26.4	0.13	37,982
3378	146,676	2.81	412,639	7.26	2.67	4.59	24.3	0.89	29,973
3358	91,482	2.84	259,191	6.88	2.34	4.46	28.9	0.85	17,625
3338	31,199	2.58	88,413	5.79	1.94	3.85	19.5	0.18	4,657
3318	6,883	2.22	13,522	5.79	2.27	3.52	44.6	0.45	783
Total	5,631,951	2.85	16,877,639	8.14	3.31	4.83	48.61	0.12	1,387,942

Blasthole Calculation

Period: January 1 1986 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	XZn	Ag g/at	Metal
	bcy	mt/bcy						
3950	8	8.88	8					8
3918	8	8.88	8					8
3898	14,727	3.88	44,188	7.88	3.18	4.78	NA	3,446
3878	9,578	3.88	28,711	7.46	2.81	4.65	NA	2,142
3858	9,858	3.88	29,549	6.24	2.41	3.83	NA	1,844
3838	33,849	3.88	181,547	6.77	2.66	4.11	NA	6,875
3818	41,292	3.88	123,876	7.87	2.98	4.89	NA	8,756
3798	69,883	3.88	289,488	8.31	3.44	4.87	NA	17,397
3778	79,865	3.88	239,596	7.84	2.71	4.33	35.7	16,862
3758	91,354	3.88	274,862	7.88	2.79	4.21	39.2	19,184
3738	136,885	3.88	488,256	7.85	2.88	4.25	41.8	28,782
3718	124,762	3.88	374,287	7.11	2.71	4.48	38.6	26,621
3698	115,984	3.88	347,711	6.69	2.56	4.12	34.8	23,247
3678	86,114	3.88	258,342	7.35	2.87	4.47	42.6	18,977
3658	66,881	3.88	198,882	8.14	3.19	4.95	33.2	16,122
3638	188,141	3.88	548,423	6.98	2.65	4.33	38.2	37,716
3618	181,263	3.88	543,789	8.12	3.11	5.82	39.4	44,164
3598	233,389	3.88	699,926	7.82	3.18	4.72	42.8	54,747
3578	255,464	3.88	766,392	7.87	3.33	4.54	47.5	68,294
3558	325,865	3.88	975,195	7.96	3.54	4.42	48.8	77,612
3538	383,429	3.88	1,158,286	8.68	3.64	5.83	44.3	99,818
3518	453,848	3.88	1,359,144	9.87	3.79	5.28	51.1	123,312
3498	492,126	3.88	1,476,379	9.38	3.98	5.48	49.6	137,322
3478	447,433	3.88	1,342,299	9.81	3.76	5.25	51.1	121,884
3458	362,657	3.88	1,887,972	8.29	3.51	4.78	42.5	98,152
3438	298,788	3.88	896,124	7.38	2.98	4.31	35.7	65,376
3418	281,644	3.88	844,931	7.18	2.82	4.28	28.5	59,978
3398	183,888	3.88	549,881	6.97	2.68	4.37	31.4	38,286
3378	147,226	3.88	441,679	7.29	2.57	4.72	28.5	32,198
3358	79,195	3.88	237,584	6.67	2.31	4.36	18.8	15,847
3338	24,748	3.88	74,245	6.65	2.16	4.49	19.6	4,937
3318	8	8.88	8					8
Total	5,287,632	3.88	15,622,896	8.82	3.27	4.75	NA	1,253,818

XVARIANCE (Blasthole-diluted model)/blasthole #188

Period: January 1 1986 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	XZn	Ag g/at	Metal
	bcy	mt/bcy						
3950								
3918								
3898	25.8	24.8	43.8	38.3	38.8	43.3		64.8
3878	-97.7	24.6	-49.8	32.1	17.7	48.8		-1.2
3858	-288.2	17.9	-146.6	15.4	17.9	13.8		-188.7
3838	35.1	21.9	49.3	-17.8	-7.5	-24.4		48.3
3818	14.6	12.2	25.8	-25.2	-3.9	-48.7		6.1
3798	-8.6	6.9	6.4	-5.1	9.8	-15.6		1.6
3778	-43.6	8.9	-38.9	-3.5	-8.9	-5.2	-1.7	-35.5
3758	-32.2	9.3	-19.8	-13.3	-18.8	-14.9	1.8	-35.7
3738	-2.6	6.1	3.6	-18.2	-5.2	-13.5	6.6	-6.2
3718	-29.9	18.9	-15.8	9.1	8.9	9.3	5.1	-5.2
3698	-14.1	7.8	-5.1	-19.5	-16.2	-21.6	-18.2	-25.7
3678	-27.6	9.8	-16.1	-2.7	5.6	-8.1	21.5	-19.3
3658	-54.8	8.8	-41.6	18.9	16.9	28.2	4.1	-14.8
3638	11.1	3.4	14.1	-15.2	-19.6	-12.5	-27.3	1.1
3618	-13.4	2.4	-18.7	-5.8	-13.5	-1.8	-15.9	-17.1
3598	9.7	4.6	13.9	-16.8	-28.5	-13.8	-9.5	8.1
3578	5.3	3.5	8.6	-19.3	-18.2	-28.1	-3.8	-9.8
3558	4.8	2.8	7.5	-11.2	-8.4	-13.5	4.1	-2.9
3538	-6.6	1.9	-4.6	8.5	-8.8	1.4	-3.8	-4.8
3518	-3.6	4.2	8.7	3.7	4.4	3.2	7.2	4.4
3498	-3.2	6.8	3.8	4.6	3.7	5.3	2.5	7.5
3478	-9.3	7.3	-1.3	5.3	3.7	6.5	13.8	4.8
3458	-28.2	3.8	-15.6	7.6	9.1	6.5	6.7	-6.8
3438	-24.8	-2.8	-27.5	-12.7	-12.2	-13.8	-1.6	-43.7
3418	6.8	-1.8	5.8	-8.6	8.8	-1.6	4.3	4.4
3398	-12.9	6.3	-5.8	6.4	6.5	6.4	15.8	1.8
3378	8.4	6.2	6.6	8.4	-4.8	2.7	14.9	6.9
3358	-15.4	5.5	-9.1	-1.9	-1.1	-2.4	-16.8	-11.2
3338	-26.1	14.1	-8.3	12.9	18.4	14.2	8.8	5.7
3318								
Total	-8.1	4.8	-2.9	-1.4	-1.2	-1.6	NA	-4.4

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

F8885 - Diluted 10% with material grading 8% Pb+Zn, 95% Mining Recovery
 Geology Composites, Dilution Density = 2.5 mt/bcy

Period: January 1 1986 to December 31 1989

ZPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	ZPb+Zn	ZPb	Zn	Ag	g/mt	Au	g/mt	Metal
3950	4,261	2.04	0,684	4.85	1.51	3.34	21.0	0.03	421	
3910	1,172	2.04	2,393	5.07	1.49	3.58	22.6	0.09	121	
3890	7,640	2.28	17,431	5.05	2.24	2.81	45.6	0.06	879	
3870	11,760	2.27	26,689	5.63	2.61	3.02	46.8	0.05	1,502	
3850	11,157	2.59	28,915	7.40	2.86	4.54	43.8	0.15	2,139	
3830	14,363	2.43	34,851	9.75	3.51	6.24	44.2	0.04	3,399	
3810	33,182	2.67	88,229	9.12	3.10	5.93	42.8	0.12	8,043	
3790	66,842	2.84	189,699	8.90	3.15	5.75	36.1	0.18	16,879	
3770	98,733	2.77	273,665	7.75	2.90	4.85	37.7	0.26	21,196	
3750	106,181	2.77	294,282	8.36	3.27	5.08	39.7	0.24	24,588	
3730	123,854	2.87	355,258	8.17	3.11	5.05	40.3	0.17	29,023	
3710	150,374	2.70	406,630	6.62	2.55	4.07	37.4	0.15	26,914	
3690	113,797	2.85	324,264	8.49	3.19	5.38	42.1	0.16	27,521	
3670	98,786	2.80	276,737	7.84	2.84	5.00	34.3	0.14	21,697	
3650	78,773	2.88	226,838	7.22	2.96	4.26	33.9	0.18	16,382	
3630	151,868	2.92	443,717	8.22	3.25	4.96	39.3	0.22	36,453	
3610	288,372	2.94	589,825	8.69	3.57	5.12	46.1	0.15	51,198	
3590	282,723	2.89	585,493	9.22	3.82	5.41	47.7	0.21	54,883	
3570	238,975	2.91	694,392	9.43	3.96	5.47	49.2	0.21	65,586	
3550	385,762	2.92	892,942	8.98	3.86	5.84	46.9	0.14	79,493	
3530	481,194	2.95	1,182,188	8.71	3.78	5.81	46.3	0.14	103,818	
3510	461,566	2.88	1,329,449	8.81	3.66	5.15	47.8	0.12	117,868	
3490	473,889	2.84	1,344,811	9.19	3.98	5.29	58.1	0.88	123,556	
3470	438,459	2.82	1,236,348	8.97	3.82	5.15	46.5	0.88	118,913	
3450	364,858	2.99	1,098,154	8.28	3.46	4.74	42.1	0.86	89,417	
3430	349,453	3.12	1,098,217	8.42	3.43	4.99	36.8	0.86	91,812	
3410	242,746	3.89	749,328	7.37	2.98	4.47	27.4	0.87	55,223	
3390	186,835	2.88	535,287	6.72	2.58	4.21	25.7	0.13	35,944	
3370	126,618	2.91	368,425	7.68	2.79	4.81	23.8	0.89	28,888	
3350	72,419	3.88	217,391	7.31	2.53	4.78	19.7	0.85	15,889	
3330	17,688	2.86	58,526	6.83	2.32	4.51	17.4	0.85	3,458	
3318	6,847	2.22	13,449	5.88	2.28	3.52	44.5	0.46	788	

Total 5,159,761 2.98 14,967,619 8.43 3.44 4.99 41.71 0.12 1,262,411

Blasthole Calculation

Period: January 1 1986 to December 31 1989

ZPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	ZPb+Zn	ZPb	Zn	Ag	g/mt	Metal
3950	0	0.00	0					
3910	0	0.00	0					
3890	14,727	3.08	44,188	7.88	3.18	4.78	NA	3,446
3870	6,793	3.08	28,378	8.68	3.38	5.38	NA	1,753
3850	9,858	3.08	29,549	6.24	2.41	3.83	NA	1,844
3830	27,387	3.08	81,928	7.38	2.79	4.51	NA	5,988
3810	33,288	3.08	99,848	7.68	3.19	4.41	NA	7,588
3790	65,588	3.08	196,764	8.48	3.49	4.99	NA	16,692
3770	78,479	3.08	211,436	7.39	2.84	4.56	37.3	15,632
3750	69,416	3.08	208,249	7.71	3.11	4.68	43.8	16,856
3730	181,538	3.08	384,589	7.68	3.86	4.62	44.3	23,392
3710	182,675	3.08	388,825	7.61	2.95	4.66	48.8	23,438
3690	85,158	3.08	255,458	7.41	2.88	4.61	35.9	18,921
3670	72,844	3.08	218,531	7.86	3.89	4.77	46.8	17,175
3650	63,422	3.08	198,267	8.29	3.25	5.84	33.4	15,765
3630	135,911	3.08	487,732	7.83	2.93	4.90	32.6	31,934
3610	172,251	3.08	516,752	8.31	3.17	5.14	48.1	42,956
3590	288,993	3.08	682,979	8.38	3.32	5.86	45.1	58,555
3570	227,189	3.08	681,328	8.33	3.51	4.82	46.7	56,729
3550	292,854	3.08	876,162	8.48	3.72	4.68	58.8	73,554
3530	359,346	3.08	1,078,839	8.95	3.74	5.28	45.8	96,452
3510	448,872	3.08	1,328,216	9.19	3.84	5.35	51.8	121,375
3490	459,158	3.08	1,377,458	9.62	4.82	5.68	58.9	132,458
3470	418,284	3.08	1,238,613	9.39	3.91	5.48	52.6	115,556
3450	347,568	3.08	1,042,784	8.45	3.57	4.88	42.6	88,882
3430	254,598	3.08	763,778	7.78	3.16	4.62	37.3	59,482
3410	258,366	3.08	751,899	7.41	2.93	4.49	28.9	55,676
3390	158,729	3.08	452,187	7.39	2.76	4.63	38.9	33,433
3370	132,935	3.08	398,884	7.56	2.68	4.88	28.8	38,158
3350	57,886	3.08	173,417	7.47	2.63	4.84	17.3	12,954
3330	13,612	3.08	48,835	7.85	2.62	5.23	28.8	3,286
3318	0	0.00	0					

Total 4,627,755 3.88 13,883,265 8.44 3.44 5.88 NA 1,172,148

ZVARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1986 to December 31 1989

ZPb+Zn Cutoff = 5%

Bench (Toe)	Volume Density bcy mt/bcy	Tonnes	ZPb+Zn	ZPb	Zn	Ag	g/mt	Metal
3950								
3910								
3890		68.5	35.3	27.9	48.2			74.5
3870		-31.0	34.6	28.9	43.1			14.3
3850	-13.3	13.6	-18.6	-18.6	-18.6			-16.8
3830	47.4	19.1	57.5	-33.6	-25.9	-38.3		43.2
3810	8.5	11.2	11.6	-19.9	8.3	-34.6		-6.8
3790	-1.9	5.4	3.6	-4.9	9.8	-15.2		-1.1
3770	-48.1	7.6	-29.4	-4.8	-2.3	-6.3	-1.1	-35.6
3750	-52.8	7.5	-41.3	-8.4	-5.2	-18.5	7.8	-53.1
3730	-22.8	4.4	-16.6	-6.4	-1.8	-9.4	9.1	-24.1
3710	-46.5	9.9	-32.8	13.8	13.4	12.7	8.4	-14.8
3690	-33.6	5.8	-26.9	-14.6	-13.8	-15.1	-17.4	-45.5
3670	-35.6	6.6	-26.6	8.2	8.3	-5.8	25.3	-26.3
3650	-24.2	4.8	-19.2	12.8	8.9	15.4	-1.4	-3.9
3630	-11.7	2.6	-8.8	-4.9	-18.9	-1.3	-28.6	-14.2
3610	-16.3	2.8	-14.8	-4.6	-12.6	8.4	-15.1	-19.2
3590	-8.9	3.7	2.9	-18.8	-14.8	-6.8	-5.9	-6.8
3570	-5.2	3.1	-1.9	-13.3	-12.9	-13.6	-5.3	-15.5
3550	-4.7	2.7	-1.9	-6.8	-3.9	-7.8	7.6	-8.1
3530	-11.6	1.8	-9.7	2.6	1.1	3.7	-2.8	-6.8
3510	-4.9	4.8	-8.7	4.2	4.9	3.7	7.6	3.6
3490	-3.8	5.2	2.4	4.5	2.9	5.5	1.6	6.7
3470	-6.9	6.8	-8.5	4.5	2.4	5.9	11.6	4.8
3450	-4.7	8.2	-4.6	2.9	3.8	2.8	1.3	-1.5
3430	-37.3	-4.8	-42.7	-8.3	-8.6	-8.1	1.3	-54.6
3410	3.8	-2.9	8.2	8.6	1.1	8.3	5.3	8.8
3390	-23.4	4.1	-18.4	9.2	9.4	9.1	16.8	-7.5
3370	4.8	3.8	7.6	-8.5	-4.1	1.5	18.8	7.1
3350	-25.3	-8.1	-25.4	2.2	3.9	1.2	-14.8	-22.7
3330	-29.9	4.7	-23.7	13.8	11.5	13.8	13.2	-7.6
3318								

Total -11.5 3.3 -7.8 8.1 -8.1 8.2 NA -7.7

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

F8885 - Diluted 10% with material grading 0% Pb+Zn, 95% Mining Recovery
Geology Composites, Dilution Density = 2.5 mt/bcy

Period: Remaining as of January 1, 1998

ZPb+Zn Cutoff = 5%

Bench	Volume bcy	Density mt/bcy	Tonnes ZPb+Zn	ZPb	ZZn	Ag g/mt	Au g/mt	Metal	
3950	0	0.00	0	0.00	0.00	0.0	0.00	0	
3910	0	0.00	0	0.00	0.00	0.0	0.00	0	
3890	0	0.00	0	0.00	0.00	0.0	0.00	0	
3870	322	2.21	711	5.97	2.47	3.50	54.9	0.00	42
3850	0	0.00	0	0.00	0.00	0.0	0.00	0	
3830	0	0.00	0	0.00	0.00	0.0	0.00	0	
3810	0	0.00	0	0.00	0.00	0.0	0.00	0	
3790	72	2.32	167	6.64	2.19	4.45	47.7	0.00	11
3770	1,140	2.07	3,271	10.23	4.07	6.15	63.7	0.52	335
3750	3,760	2.70	10,137	0.30	2.07	5.51	36.1	0.34	050
3730	5,047	2.07	16,762	6.66	3.21	3.45	51.6	0.20	1,117
3710	13,074	3.01	41,737	6.26	2.93	3.34	52.7	0.22	2,614
3690	11,600	3.05	35,363	7.09	2.90	4.19	40.7	0.34	2,500
3670	6,016	2.70	10,977	6.59	2.75	3.04	35.0	0.32	1,251
3650	64,721	2.30	153,960	5.40	1.76	3.72	10.1	0.12	0,440
3630	77,063	2.54	197,975	6.72	2.03	4.60	21.5	0.17	13,202
3610	112,601	2.69	303,667	7.75	2.60	5.15	27.9	0.17	23,540
3590	97,649	2.71	264,155	7.95	2.02	5.14	24.5	0.13	21,012
3570	134,093	2.63	355,415	7.69	2.06	4.03	31.5	0.13	27,335
3550	145,620	2.76	402,300	7.03	3.00	4.02	33.7	0.11	31,459
3530	202,402	2.00	566,039	7.55	3.01	4.55	35.6	0.13	42,022
3510	275,026	2.04	701,069	0.13	3.15	4.97	37.2	0.13	63,545
3490	314,052	2.94	922,254	0.17	3.13	5.05	34.1	0.09	75,373
3470	364,504	2.00	1,021,979	0.36	3.04	5.33	32.5	0.09	05,475
3450	300,009	2.93	904,531	0.30	3.15	5.24	33.9	0.09	75,016
3430	209,201	2.97	622,141	0.00	2.97	5.03	27.4	0.00	49,771
3410	155,594	2.90	451,503	7.61	2.01	4.00	26.2	0.09	34,355
3390	104,106	3.01	313,521	9.39	3.25	6.15	24.6	0.00	29,442
3370	125,660	2.00	351,300	9.52	3.10	6.42	23.6	0.10	33,430
3350	103,430	2.44	252,054	0.02	2.05	5.97	27.5	0.10	22,249
3330	75,951	2.39	101,370	9.65	3.02	6.63	20.2	0.05	17,494
3310	50,610	2.20	115,661	7.45	2.50	4.96	30.5	0.20	0,632
Total	2,966,474	2.79	8,209,713	0.11	2.97	5.14	31.10	0.11	672,210

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

F8885 - Diluted 10% with material grading 0% Pb+Zn, 95% Mining Recovery
Geology Composites, Dilution Density = 2.5 mt/bcy

Period: Remaining as of January 1, 1998

ZPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes ZPb+Zn	ZPb	ZZn	Ag g/mt	Au g/mt	Metal	
3950	0	0.00	0	0.00	0.00	0.0	0.00	0	
3910	0	0.00	0	0.00	0.00	0.0	0.00	0	
3890	0	0.00	0	0.00	0.00	0.0	0.00	0	
3870	322	2.21	711	5.97	2.47	3.50	54.9	0.00	42
3850	0	0.00	0	0.00	0.00	0.0	0.00	0	
3830	0	0.00	0	0.00	0.00	0.0	0.00	0	
3810	0	0.00	0	0.00	0.00	0.0	0.00	0	
3790	72	2.32	167	6.64	2.19	4.45	47.7	0.00	11
3770	1,140	2.07	3,271	10.23	4.07	6.15	63.7	0.52	335
3750	4,976	2.50	12,033	7.40	2.56	4.92	35.9	0.32	960
3730	6,613	2.04	10,000	6.36	3.02	3.35	40.5	0.25	1,196
3710	14,727	2.95	43,503	6.16	2.05	3.31	51.5	0.21	2,601
3690	11,600	3.05	35,363	7.09	2.90	4.19	40.7	0.34	2,500
3670	12,130	2.45	29,730	5.64	2.21	3.43	20.2	0.25	1,676
3650	103,397	2.44	252,691	4.91	1.61	3.31	17.0	0.11	12,420
3630	114,696	2.51	207,090	5.07	1.70	4.09	20.1	0.13	16,907
3610	120,333	2.67	343,105	7.33	2.47	4.05	27.3	0.10	25,140
3590	146,051	2.60	393,296	6.60	2.42	4.26	24.0	0.14	26,279
3570	100,705	2.64	490,455	6.64	2.40	4.15	27.0	0.13	33,079
3550	211,213	2.74	570,073	6.67	2.53	4.15	20.2	0.12	30,573
3530	220,929	2.77	612,109	7.30	2.09	4.41	34.4	0.12	44,604
3510	319,009	2.70	000,762	7.64	2.94	4.70	35.3	0.12	67,069
3490	330,320	2.09	977,462	7.94	3.03	4.91	33.7	0.09	77,575
3470	399,579	2.70	1,110,919	0.02	2.90	5.12	31.2	0.09	09,075
3450	329,040	2.90	954,610	0.16	3.06	5.09	33.3	0.09	77,045
3430	223,450	2.94	655,947	7.00	2.09	4.91	26.9	0.00	51,164
3410	167,250	2.05	476,572	7.43	2.74	4.69	26.4	0.09	35,396
3390	142,520	2.70	395,606	0.32	2.04	5.40	25.2	0.13	32,907
3370	141,500	2.74	307,120	9.03	2.94	6.09	23.5	0.10	34,946
3350	119,451	2.41	200,096	0.23	2.63	5.59	26.2	0.09	23,676
3330	03,004	2.37	190,769	9.16	2.07	6.29	20.1	0.05	10,215
3310	52,012	2.20	110,722	7.30	2.47	4.91	30.5	0.20	0,764
Total	3,402,640	2.75	9,562,596	7.57	2.76	4.01	29.69	0.11	723,933

F8908 PREDICTED RESERVES VS BLASTHOLES

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

F0900 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Blasthole Calculation

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

Period: January 1 1986 to December 31 1987

Period: January 1 1986 to December 31 1987

Period: January 1 1986 to December 31 1987

%Pb+Zn Cutoff = 4%

%Pb+Zn Cutoff = 4%

%Pb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal	Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal	Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
	bcy	mt/bcy									bcy	mt/bcy								bcy	mt/bcy						
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3950	0	0.00	0						0	3950	0	0.00	0				
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3910	0	0.00	0						0	3910	0	0.00	0				
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3890	14,727	3.00	44,180	7.00	3.10	4.70	NA	3,446	3890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3870	9,570	3.00	28,711	7.46	2.81	4.65	NA	2,142	3870	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3850	14,920	2.44	36,347	6.60	2.39	4.21	37.1	0.16	2,399	3850	9,850	3.00	29,549	6.24	2.41	3.83	NA	1,844	3850	-51.6	10.0	-23.0	-5.0	0.0	-9.9	-30.1	
3830	26,031	2.44	63,555	6.97	2.52	4.45	36.4	0.20	4,430	3830	33,049	3.00	101,547	6.77	2.66	4.11	NA	6,075	3830	23.1	10.6	37.4	-3.0	5.3	-0.3	35.6	
3810	36,410	2.04	103,265	0.10	2.90	5.20	35.0	0.19	0,447	3810	40,107	3.00	120,320	7.06	2.97	4.09	NA	0,495	3810	9.2	5.5	14.2	-15.9	2.4	-29.1	0.6	
3790	57,535	3.06	176,054	0.97	3.15	5.03	33.4	0.10	15,010	3790	63,360	3.00	190,000	0.20	3.40	4.00	NA	15,739	3790	9.2	-2.0	7.4	-0.3	7.4	-19.5	-0.5	
3770	96,703	2.95	285,604	0.35	2.99	5.36	30.1	0.14	23,055	3770	75,947	3.00	227,040	6.92	2.66	4.26	33.7	15,767	3770	-27.4	1.6	-25.4	-20.7	-12.4	-25.0	10.0	-51.3
3750	103,220	2.97	306,432	7.65	2.04	4.00	35.4	0.20	23,411	3750	91,354	3.00	274,062	7.00	2.79	4.21	39.2	19,104	3750	-13.0	1.0	-11.0	-9.3	-1.0	-14.0	9.7	-22.0
3730	104,713	2.92	305,644	6.06	2.63	4.24	36.4	0.10	20,990	3730	136,005	3.00	400,256	7.05	2.00	4.25	41.0	20,702	3730	23.1	2.7	25.1	2.7	6.1	0.2	13.0	27.0
3710	122,160	2.90	354,512	6.65	2.70	3.07	40.6	0.13	23,575	3710	113,390	3.00	340,170	6.03	2.65	4.10	36.9	23,234	3710	-7.7	3.3	-4.2	2.6	-4.9	7.4	-10.0	-1.5
3690	67,766	2.05	193,012	6.39	2.31	4.00	31.7	0.12	12,333	3690	79,005	3.00	239,655	6.50	2.40	4.10	30.0	15,769	3690	15.2	5.1	19.5	2.9	3.7	2.4	-2.9	21.0
3670	43,304	2.03	122,045	6.13	2.21	3.92	29.6	0.10	7,530	3670	37,725	3.00	113,175	6.25	2.34	3.91	32.1	7,073	3670	-15.0	5.6	-0.5	1.9	5.6	-0.3	7.0	-6.5
3650	32,531	2.99	97,394	6.50	2.70	3.00	36.0	0.05	6,409	3650	2,133	3.00	6,400	7.01	2.34	4.67	27.0	449	3650	-1424.9	0.2	-1421.0	6.1	-10.0	10.6	-33.3	-1320.4
3630	53,740	3.15	169,243	6.41	2.65	3.76	27.9	0.09	10,040	3630	76,290	3.00	220,093	6.61	2.52	4.00	24.9	15,130	3630	29.6	-5.0	26.1	3.0	-5.2	0.1	-12.1	20.3
3610	55,794	3.17	176,710	7.20	2.04	4.44	26.0	0.09	12,064	3610	52,071	3.00	156,212	7.40	2.60	4.00	23.6	11,605	3610	-7.1	-5.6	-13.1	2.7	-9.2	9.0	-10.2	-10.1
3590	76,505	3.10	236,949	6.65	2.45	4.20	23.7	0.07	15,757	3590	02,001	3.00	240,404	7.54	2.70	4.76	29.7	10,730	3590	7.6	-3.2	4.6	11.0	11.9	11.0	20.3	15.9
3570	60,005	3.25	223,000	6.49	2.53	3.96	22.7	0.06	14,529	3570	47,414	3.00	142,243	7.07	2.71	4.36	20.0	10,057	3570	-45.3	-0.3	-57.4	0.2	6.6	9.2	10.9	-44.5
3550	100,196	3.30	356,507	7.35	2.07	4.47	31.3	0.04	26,160	3550	99,050	3.00	299,549	7.70	3.21	4.57	30.5	23,305	3550	-0.4	-9.0	-19.0	5.5	10.6	2.2	10.0	-12.3
3530	167,970	3.27	549,070	7.76	2.93	4.03	32.0	0.06	42,670	3530	172,950	3.00	510,049	0.69	3.40	5.29	35.1	45,000	3530	2.9	-9.1	-6.0	10.7	13.0	0.7	6.6	5.4
3510	219,096	3.11	681,977	0.67	3.56	5.11	41.9	0.07	59,127	3510	231,307	3.00	693,922	9.25	3.00	5.45	46.4	64,100	3510	5.3	-3.0	1.7	6.3	6.3	6.2	9.7	7.9
3490	100,215	3.10	302,073	0.54	3.70	4.03	47.5	0.04	49,719	3490	203,909	3.00	611,960	0.95	3.77	5.10	45.0	54,771	3490	7.7	-3.2	4.0	4.6	1.9	6.0	-3.7	9.2
3470	160,560	2.97	477,575	7.29	3.06	4.23	39.7	0.04	34,015	3470	140,273	3.00	444,010	0.54	3.56	4.90	43.0	37,907	3470	-0.3	0.9	-7.4	14.6	14.0	15.1	7.6	0.4
3450	95,726	3.16	302,262	0.22	3.37	4.05	40.9	0.21	24,046	3450	101,215	3.00	303,645	0.00	3.40	4.60	40.5	24,292	3450	5.4	-5.3	0.5	-2.0	0.9	-5.4	-0.9	-2.3
3430	59,244	3.34	197,971	9.66	3.02	5.03	50.9	0.74	19,104	3430	66,660	3.00	200,000	0.00	3.37	4.71	36.5	16,160	3430	11.1	-11.4	1.0	-19.6	-13.4	-23.0	-39.6	-10.2
3410	1,430	3.39	4,055	6.95	2.06	4.00	26.2	0.04	337	3410	1,770	3.00	5,333	10.19	4.75	5.44	40.0	543	3410	19.5	-13.1	9.0	31.0	39.0	25.0	45.4	30.0
3390	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3390	0	0.00	0					0	3390	0	0.00	0					
3370	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3370	0	0.00	0					0	3370	0	0.00	0					
3350	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3350	0	0.00	0					0	3350	0	0.00	0					
3330	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3330	0	0.00	0					0	3330	0	0.00	0					
3310	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3310	0	0.00	0					0	3310	0	0.00	0					
Total	1,960,039	3.06	6,005,397	7.66	3.03	4.63	36.30	0.12	459,901	Total	1,992,595	3.00	5,977,706	7.07	3.16	4.72	NA	470,733	Total	1.6	-2.1	-0.5	2.7	4.2	1.0	NA	2.3

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

F0980 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1986 to December 31 1987

%Pb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
	bcy	mt/bcy							
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	22,783	2.47	56,022	7.33	2.65	4.68	37.2	0.20	4,106
3810	38,020	2.91	89,528	8.71	3.07	5.64	35.8	0.21	7,798
3790	58,693	3.15	159,619	9.42	3.29	6.14	33.6	0.18	15,052
3770	83,721	3.03	253,683	8.82	3.19	5.63	30.8	0.13	22,368
3750	89,163	3.05	272,052	8.85	3.00	5.85	36.8	0.20	21,988
3730	98,656	2.97	269,525	7.17	2.73	4.44	36.9	0.18	19,325
3710	187,729	2.92	314,735	6.90	2.85	4.85	41.5	0.13	21,717
3690	58,288	2.87	144,267	7.88	2.57	4.51	34.6	0.13	18,214
3670	37,164	2.81	104,472	6.48	2.32	4.88	31.8	0.11	6,686
3650	24,258	2.99	72,485	7.27	3.89	4.18	48.2	0.84	5,278
3630	37,568	3.12	117,248	7.27	3.83	4.25	32.8	0.87	8,535
3610	58,818	3.17	168,982	7.54	2.96	4.58	27.8	0.89	12,132
3590	66,211	3.12	206,686	6.95	2.62	4.34	25.4	0.87	14,388
3570	62,168	3.26	202,616	6.78	2.64	4.86	24.8	0.86	13,575
3550	99,239	3.38	327,142	7.68	3.88	4.59	33.2	0.84	24,838
3530	143,898	3.28	468,939	8.32	3.13	5.18	35.8	0.85	38,969
3510	289,518	3.18	649,818	8.89	3.64	5.25	42.6	0.86	57,768
3490	158,678	3.13	496,679	9.23	3.99	5.24	58.8	0.84	45,843
3470	123,484	2.96	365,289	8.15	3.42	4.72	44.8	0.85	29,728
3450	88,852	3.28	284,639	8.45	3.48	4.96	42.4	0.22	24,824
3430	55,419	3.35	185,786	18.88	3.94	6.85	52.7	0.79	18,552
3410	1,368	3.39	4,636	7.85	2.91	4.15	26.4	0.84	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	1,698,458	3.89	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	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
	bcy	mt/bcy						
3950	0	0.00	0	0.00				0
3910	0	0.00	0	0.00				0
3890	14,727	3.08	44,188	7.88	3.1	4.7	NA	3,446
3870	6,793	3.08	20,378	8.68	3.3	5.3	NA	1,753
3850	9,858	3.08	29,549	6.24	2.41	3.83	NA	1,844
3830	27,387	3.08	81,928	7.38	2.79	4.51	NA	5,988
3810	33,288	3.08	99,848	7.68	3.19	4.41	NA	7,588
3790	61,448	3.08	184,328	8.48	3.45	4.95	NA	15,483
3770	66,568	3.08	199,688	7.28	2.79	4.49	35.2	14,537
3750	69,416	3.08	208,249	7.71	3.11	4.6	43.8	16,856
3730	181,538	3.08	384,589	7.68	3.86	4.62	44.3	23,392
3710	91,383	3.08	273,988	7.32	2.9	4.42	38.9	28,858
3690	56,589	3.08	169,527	7.37	2.65	4.72	31.9	12,494
3670	25,328	3.08	75,983	7.87	2.67	4.4	36.2	5,372
3650	2,133	3.08	6,488	7.81	2.34	4.67	27.8	449
3630	54,946	3.08	164,838	7.29	2.73	4.56	26.4	12,817
3610	48,711	3.08	146,134	7.66	2.64	5.82	23.3	11,194
3590	78,415	3.08	211,244	8.14	3.81	5.13	32.1	17,195
3570	43,888	3.08	131,663	7.28	2.78	4.5	28.5	9,585
3550	98,674	3.08	296,822	7.88	3.21	4.59	38.6	23,898
3530	161,479	3.08	484,438	8.99	3.49	5.5	35.3	43,551
3510	223,781	3.08	671,182	9.41	3.86	5.55	47.1	63,151
3490	188,883	3.08	566,488	9.28	3.89	5.39	47.2	52,563
3470	144,939	3.08	434,818	8.64	3.59	5.85	43.2	37,568
3450	96,354	3.08	289,861	8.28	3.47	4.73	48.8	23,783
3430	63,646	3.08	198,938	8.25	3.43	4.82	37.8	15,752
3410	1,778	3.08	5,333	18.19	4.75	5.44	48.8	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	1,763,587	3.08	5,298,522	8.29	3.32	4.96	NA	438,355

%VARIANCE (Blasthole-diluted model)/blasthole #188

Period: January 1 1986 to December 31 1987

%Pb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
	bcy	mt/bcy						
3950								
3910								
3890	188.8	188.8	188.8	188.8	188.8	188.8		188.8
3870	188.8	188.8	188.8	188.8	188.8	188.8		188.8
3850	-51.6	18.8	-23.8	-5.8	8.8	-9.9		-38.1
3830	16.9	17.7	31.6	-8.4	5.8	-3.8		31.3
3810	7.4	3.2	18.3	-14.6	3.8	-27.9		-2.8
3790	17.5	-5.8	13.4	-12.1	4.6	-24.8		2.8
3770	-25.8	-1.8	-27.8	-21.2	-14.3	-25.4	12.6	-53.9
3750	-28.4	-1.7	-38.6	-4.4	3.5	-9.8	16.3	-36.4
3730	18.7	8.9	11.5	6.6	18.8	3.9	16.8	17.4
3710	-18.8	2.6	-14.9	5.7	1.7	8.4	-6.7	-8.3
3690	11.8	4.4	14.9	3.9	3.8	4.4	-8.5	18.2
3670	-46.7	6.3	-37.5	9.5	13.1	7.3	14.2	-24.5
3650	-1837.1	8.4	-1832.6	-3.7	-32.1	18.5	-48.9	-1874.6
3630	31.6	-4.8	28.9	8.3	-11.8	6.8	-21.2	29.8
3610	-4.3	-5.5	-18.1	1.6	-12.1	8.8	-15.9	-8.4
3590	6.8	-4.8	2.2	14.6	13.8	15.4	28.9	16.4
3570	-41.7	-8.6	-53.9	8.8	5.8	9.8	15.7	-41.6
3550	-8.6	-9.9	-18.5	2.6	6.5	8.8	13.9	-7.5
3530	11.4	-9.2	3.2	7.5	18.3	5.8	1.8	18.5
3510	6.3	-3.4	3.2	5.5	5.7	5.4	9.5	8.5
3490	16.8	-4.3	12.3	8.5	-2.6	2.8	-7.6	12.8
3470	14.9	1.4	16.8	5.7	4.7	6.5	-1.9	28.9
3450	7.8	-6.8	1.5	-3.8	-8.3	-4.9	-6.8	-1.4
3430	12.9	-11.7	2.7	-21.2	-14.9	-25.5	-42.4	-17.8
3410	23.8	-13.8	13.1	38.8	38.7	23.7	45.8	39.8
Total	3.7	-2.9	8.9	2.8	3.4	1.1	NA	2.9

Faro Computer Model Ore Predictions vs Actual Blasthole Results By Bench

FB900 - Undiluted
- 95% Mining Recovery

Period: January 1 1988 to December 31 1988

XPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	XPb+Zn	XPb	XZn Ag g/mt	Au g/mt	Metal		
3950	0	0	0.00	0.00	0.00	0.0	0.00	0	
3910	0	0	0.00	0.00	0.00	0.0	0.00	0	
3890	0	0	0.00	0.00	0.00	0.0	0.00	0	
3870	0	0	0.00	0.00	0.00	0.0	0.00	0	
3850	2,395	2,30	5,691	5.12	1.84	3.28	32.0	0.14	291
3830	982	2.20	2,852	4.68	1.67	2.93	31.8	0.30	94
3810	124	2.45	304	4.04	1.75	3.89	34.8	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	5.88	2.05	3.75	37.2	0.87	51
3710	2,612	2.58	6,527	5.34	1.96	3.37	29.6	0.17	348
3690	217	2.62	578	5.98	2.89	3.81	38.8	0.12	34
3670	186	2.24	418	5.82	1.91	3.91	29.4	0.17	24
3650	62	2.15	133	6.84	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	0.81	23
3590	6,313	2.99	18,896	6.26	2.19	4.87	34.2	0.83	1,183
3570	81,792	2.98	243,865	8.78	3.69	5.89	49.6	0.18	21,411
3550	128,697	3.84	367,899	8.19	3.55	4.64	55.2	0.87	38,865
3530	169,368	3.85	516,943	8.24	3.61	4.63	68.8	0.89	42,596
3510	218,878	2.99	628,625	8.14	3.58	4.64	52.4	0.86	51,178
3490	255,817	3.81	768,531	8.84	3.68	5.16	48.8	0.84	67,938
3470	311,617	3.87	957,988	9.55	4.82	5.53	44.8	0.83	91,487
3450	277,191	3.88	853,281	8.53	3.68	4.93	42.8	0.83	72,785
3430	15,269	3.18	48,583	8.12	3.28	4.84	39.3	0.21	3,945
3410	45,486	3.34	151,468	6.25	2.53	3.72	26.7	0.83	9,467
3390	18,753	3.25	68,962	6.73	2.72	4.82	25.9	0.83	4,189
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	3.85	4,633,378	8.57	3.63	4.94	47.86	0.85	397,849

Blasthole Calculation

Period: January 1 1988 to December 31 1988

XPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	XPb+Zn	XPb	XZn Ag g/mt	Metal		
3950	0	0	0.00	0.00	0.00	0		
3910	0	0	0.00	0.00	0.00	0		
3890	0	0	0.00	0.00	0.00	0		
3870	0	0	0.00	0.00	0.00	0		
3850	0	0	0.00	0.00	0.00	0		
3830	0	0	0.00	0.00	0.00	0		
3810	0	0	0.00	0.00	0.00	0		
3790	0	0	0.00	0.00	0.00	0		
3770	0	0	0.00	0.00	0.00	0		
3750	0	0	0.00	0.00	0.00	0		
3730	0	0	0.00	0.00	0.00	0		
3710	0	0	0.00	0.00	0.00	0		
3690	0	0	0.00	0.00	0.00	0		
3670	0	0	0.00	0.00	0.00	0		
3650	0	0	0.00	0.00	0.00	0		
3630	0	0	0.00	0.00	0.00	0		
3610	0	0	0.00	0.00	0.00	0		
3590	7,969	3.88	23,986	9.53	5.18	4.43	74.8	2,278
3570	185,844	3.88	315,132	8.45	3.87	4.58	58.8	26,629
3550	149,373	3.88	448,118	8.58	4.89	4.49	62.1	38,449
3530	149,888	3.88	447,824	9.38	4.26	5.84	57.6	41,573
3510	288,414	3.88	625,242	8.99	3.86	5.13	58.1	56,289
3490	288,137	3.88	864,411	9.55	3.99	5.56	52.3	82,551
3470	299,168	3.88	897,481	9.25	3.86	5.39	55.1	83,817
3450	241,268	3.88	723,885	8.62	3.65	4.97	45.8	62,392
3430	0	0	0.00	0.00	0.00	0	0	0
3410	58,934	3.88	152,881	6.48	2.68	3.88	23.8	9,779
3390	27,112	3.88	81,336	6.65	2.62	4.83	24.8	5,489
3370	0	0	0.00	0.00	0.00	0	0	0
3350	0	0	0.00	0.00	0.00	0	0	0
3330	0	0	0.00	0.00	0.00	0	0	0
3310	0	0	0.00	0.00	0.00	0	0	0
Total	1,526,419	3.88	4,579,256	8.92	3.86	5.86	53.8	488,286

XVARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1988 to December 31 1988

XPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	XPb+Zn	XPb	XZn Ag g/mt	Metal		
3950	0	0	0.00	0.00	0.00	0		
3910	0	0	0.00	0.00	0.00	0		
3890	0	0	0.00	0.00	0.00	0		
3870	0	0	0.00	0.00	0.00	0		
3850	0	0	0.00	0.00	0.00	0		
3830	0	0	0.00	0.00	0.00	0		
3810	0	0	0.00	0.00	0.00	0		
3790	0	0	0.00	0.00	0.00	0		
3770	0	0	0.00	0.00	0.00	0		
3750	0	0	0.00	0.00	0.00	0		
3730	0	0	0.00	0.00	0.00	0		
3710	0	0	0.00	0.00	0.00	0		
3690	0	0	0.00	0.00	0.00	0		
3670	0	0	0.00	0.00	0.00	0		
3650	0	0	0.00	0.00	0.00	0		
3630	0	0	0.00	0.00	0.00	0		
3610	0	0	0.00	0.00	0.00	0		
3590	28.8	0.2	21.8	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	-8.8	8.3	-8.5	9.5	9.3	9.6	9.8	9.8
3490	11.5	-8.5	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	-18.2
3450	-14.9	-2.6	-17.9	1.8	1.4	8.8	4.8	-16.7
3430	0	0	0.00	0.00	0.00	0	0	0
3410	18.9	-11.2	8.9	2.3	2.7	2.1	-16.2	3.2
3390	38.8	-8.4	25.8	-1.2	-3.8	8.2	-7.9	24.8
3370	0	0	0.00	0.00	0.00	0	0	0
3350	0	0	0.00	0.00	0.00	0	0	0
3330	0	0	0.00	0.00	0.00	0	0	0
3310	0	0	0.00	0.00	0.00	0	0	0
Total	8.5	-1.7	-1.2	3.9	6.8	2.3	9.8	2.8

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

F8988 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1988 to December 31 1988

ZPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	ZPb+Zn	ZPb	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	1,386 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 2.20	779	5.95	2.04	3.91	36.0	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	3.01	30.0	0.12	34
3670	186 2.24	410	5.02	1.91	3.91	29.4	0.17	24
3650	62 2.15	133	6.04	2.62	3.42	35.0	0.22	0
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	12,960	6.90	2.40	4.42	30.1	0.03	895
3570	79,100 2.99	236,970	0.90	3.74	5.15	50.2	0.10	21,067
3550	120,440 3.04	366,320	0.19	3.55	4.64	55.3	0.07	30,002
3530	161,904 3.04	492,509	0.42	3.69	4.73	62.6	0.09	41,469
3510	169,493 2.95	500,413	9.09	3.06	5.23	50.3	0.07	45,407
3490	212,660 3.05	640,423	9.66	4.01	5.65	51.7	0.05	62,630
3470	207,359 3.00	604,517	9.96	4.19	5.70	46.3	0.03	80,106
3450	199,225 3.20	636,000	9.91	4.17	5.74	40.7	0.03	63,115
3430	12,960 3.20	42,404	0.65	3.51	5.14	40.9	0.22	3,675
3410	37,250 3.40	126,673	6.55	2.67	3.09	26.0	0.04	0,310
3390	10,300 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	1,307,029 3.07	4,019,374	9.19	3.00	5.31	51.05	0.05	369,524

Blasthole Calculation

Period: January 1 1988 to December 31 1988

ZPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	ZPb+Zn	ZPb	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	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3830	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3810	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
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	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3730	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3710	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3690	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3670	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3650	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
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	7,969 3.00	23,906	9.53	5.10	4.43	74.0	2,270	3590
3570	99,400 3.00	290,464	0.65	3.97	4.60	54.1	25,017	3570
3550	139,061 3.00	417,102	0.07	4.23	4.64	64.0	37,004	3550
3530	145,240 3.00	435,745	9.30	4.30	5.00	50.0	40,073	3530
3510	203,045 3.00	609,134	9.00	3.90	5.10	50.0	55,309	3510
3490	270,347 3.00	811,042	9.05	4.11	5.74	53.5	79,000	3490
3470	265,265 3.00	795,795	9.00	4.09	5.71	57.0	77,900	3470
3450	234,325 3.00	702,975	0.73	3.69	5.04	45.1	61,370	3450
3430	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3430
3410	44,415 3.00	133,245	6.67	2.70	3.97	22.9	0,007	3410
3390	10,090 3.00	56,670	7.20	2.90	4.30	24.0	4,126	3390
3370	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3370
3350	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3350
3330	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3330
3310	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3310
Total	1,420,053 3.00	4,204,150	9.19	3.97	5.21	54.0	393,540	Total

VARIANCE (Blasthole-diluted model)/blasthole ±100

Period: January 1 1988 to December 31 1988

ZPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	ZPb+Zn	ZPb	Zn Ag 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	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3830	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3810	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
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	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3730	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3710	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3690	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3670	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3650	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
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	46.5 -1.5	45.0	27.6	51.4	0.2	40.5	60.7	3590
3570	20.4 0.2	20.6	-2.9	5.0	-10.0	7.2	10.4	3570
3550	13.4 -1.4	12.2	7.7	16.1	0.0	13.6	10.9	3550
3530	-11.5 -1.4	-13.0	10.2	14.2	6.9	-7.9	-1.5	3530
3510	16.5 1.6	17.0	-0.1	1.0	-1.0	0.0	17.0	3510
3490	21.3 -1.6	20.1	1.9	2.4	1.6	3.3	21.6	3490
3470	-0.3 -2.6	-11.1	-1.6	-2.4	-1.2	19.9	-13.1	3470
3450	15.0 -6.6	9.4	-13.5	-13.0	-13.9	-0.0	-2.0	3450
3430	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3430
3410	16.1 -13.3	4.9	1.0	1.1	2.0	-17.3	6.5	3410
3390	2.7 -0.2	-5.3	7.0	6.2	7.5	-7.9	2.1	3390
3370	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3370
3350	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3350
3330	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3330
3310	0 0.00	0	0.00	0.00	0.00	0.0	0.00	3310
Total	0.4 -2.4	6.2	-0.1	2.3	-1.9	5.4	6.1	Total

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

F0900 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1989 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	XZn	Ag g/mt	Au g/mt	Metal
	bcy	mt/bcy							
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	2,332	2.34	5,453	4.70	1.69	3.01	29.7	0.10	256
3830	186	2.24	418	4.34	1.05	2.49	34.7	0.24	18
3810	3,670	2.31	8,493	5.57	2.59	2.99	51.0	0.31	474
3790	6,033	2.30	13,870	5.41	2.31	3.10	46.6	0.27	750
3770	591	2.35	1,387	5.36	2.00	3.29	42.0	0.30	74
3750	93	2.34	219	5.65	1.02	3.03	36.6	0.22	12
3730	1,120	2.60	3,002	5.33	1.93	3.40	28.9	0.17	160
3710	22,703	2.03	64,306	6.10	2.37	3.01	35.7	0.14	3,974
3690	51,595	2.93	150,890	7.00	2.95	4.93	41.5	0.12	11,091
3670	61,320	2.03	173,755	6.06	2.43	4.43	31.5	0.12	11,920
3650	55,077	2.94	161,966	7.00	2.79	4.22	31.5	0.15	11,354
3630	101,449	2.96	300,267	6.05	2.79	4.06	36.3	0.17	20,560
3610	132,795	3.06	406,733	0.27	3.46	4.01	47.9	0.12	33,637
3590	119,921	2.96	355,272	0.82	3.76	5.06	49.6	0.19	31,335
3570	96,090	2.95	283,727	0.75	3.55	5.21	49.2	0.30	24,054
3550	72,600	3.10	231,202	7.93	3.25	4.60	30.5	0.16	10,334
3530	45,313	3.14	142,472	7.52	3.10	4.42	30.7	0.16	10,714
3510	5,660	3.24	18,354	0.56	3.06	5.51	25.2	0.10	1,573
3490	746	3.44	2,565	10.51	4.90	5.54	60.0	0.00	270
3470	7,060	3.31	26,040	7.31	3.17	4.13	37.3	0.01	1,901
3450	30,695	3.30	103,873	6.41	2.99	3.42	34.5	0.02	6,650
3430	232,563	3.31	769,652	0.00	3.36	4.64	35.1	0.07	61,572
3410	223,401	3.10	709,903	7.21	2.79	4.42	20.0	0.03	51,190
3390	176,503	2.99	520,039	6.45	2.41	4.04	20.1	0.06	34,050
3370	113,024	3.11	353,704	7.04	2.69	4.35	24.7	0.03	24,901
3350	70,962	2.97	234,669	7.50	2.67	4.03	24.0	0.02	17,600
3330	30,400	2.51	96,492	5.50	1.09	3.70	25.1	0.06	5,394
3310	5,830	2.43	12,217	6.50	2.60	3.09	52.0	0.33	793

Total 1,606,013 3.06 5,159,023 7.49 2.99 4.50 35.17 0.10 306,236

Blasthole Calculation

Period: January 1 1989 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	XZn	Ag g/mt	Metal
	bcy	mt/bcy						
3950	0	0.00	0	0.00	0.00	0.00	0.0	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0
3850	0	0.00	0	0.00	0.00	0.00	0.0	0
3830	0	0.00	0	0.00	0.00	0.00	0.0	0
3810	1,105	3.00	3,556	7.35	3.36	3.99	50.0	261
3790	6,443	3.00	19,320	0.50	3.79	4.79	50.4	1,650
3770	3,919	3.00	11,756	9.32	3.61	5.71	73.0	1,096
3750	0	0.00	0	0.00	0.00	0.00	0.0	0
3730	0	0.00	0	0.00	0.00	0.00	0.0	0
3710	11,372	3.00	34,117	9.93	3.34	6.59	55.9	3,300
3690	36,019	3.00	108,056	6.92	2.92	4.00	41.1	7,477
3670	40,309	3.00	145,167	0.20	3.29	4.91	50.0	11,904
3650	63,067	3.00	191,602	0.10	3.22	4.96	33.4	15,673
3630	103,043	3.00	311,530	7.25	2.75	4.50	34.1	22,506
3610	129,192	3.00	387,577	0.30	3.31	5.07	45.0	32,479
3590	142,539	3.00	427,616	7.09	3.10	4.71	40.7	33,739
3570	103,006	3.00	309,017	7.64	3.06	4.50	44.9	23,609
3550	75,043	3.00	227,520	6.97	2.09	4.00	36.1	15,059
3530	61,471	3.00	184,413	7.13	2.03	4.30	30.0	13,149
3510	13,327	3.00	39,900	7.29	2.69	4.60	24.6	2,915
3490	0	0.00	0	0.00	0.00	0.00	0.0	0
3470	0	0.00	0	0.00	0.00	0.00	0.0	0
3450	20,174	3.00	60,522	5.73	2.39	3.34	23.2	3,460
3430	232,040	3.00	696,119	7.07	2.07	4.20	35.5	49,216
3410	220,932	3.00	666,797	7.23	2.05	4.30	29.6	49,655
3390	155,000	3.00	467,665	7.03	2.60	4.43	32.7	32,077
3370	147,226	3.00	441,679	7.29	2.57	4.72	20.5	32,190
3350	79,195	3.00	237,504	6.67	2.31	4.36	10.0	15,047
3330	24,740	3.00	74,245	6.65	2.16	4.49	19.6	4,937
3310	0	0.00	0	0.00	0.00	0.00	0.0	0

Total 1,600,610 3.00 5,065,054 7.30 2.07 4.51 35.0 373,990

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

Period: January 1 1989 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	XZn	Ag g/mt	Metal
	bcy	mt/bcy						
3950	0	0.00	0	0.00	0.00	0.00	0.0	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0
3850	0	0.00	0	0.00	0.00	0.00	0.0	0
3830	0	0.00	0	0.00	0.00	0.00	0.0	0
3810	-209.6	22.9	-130.0	24.2	22.9	25.1	-2.0	-01.3
3790	6.4	23.4	20.2	36.9	39.1	35.3	7.6	54.0
3770	04.9	21.7	08.2	42.5	42.4	42.4	42.5	93.2
3750	0	0.00	0	0.00	0.00	0.00	0.0	0
3730	0	0.00	0	0.00	0.00	0.00	0.0	0
3710	-99.6	5.6	-00.5	37.0	29.0	42.2	36.1	-17.3
3690	-43.2	2.5	-39.6	-13.9	-1.0	-23.2	-0.9	-59.0
3670	-26.7	5.6	-19.7	16.3	26.1	9.0	30.0	-0.1
3650	13.0	2.0	15.5	14.4	13.4	14.9	5.6	27.6
3630	2.3	1.3	3.6	5.5	-1.5	9.0	-6.4	0.9
3610	-2.0	-2.1	-4.9	1.3	-4.5	5.1	-4.6	-3.6
3590	15.9	1.2	16.9	-11.0	-10.2	-7.4	-1.0	7.1
3570	6.7	1.6	0.2	-14.5	-16.0	-13.0	-9.7	-5.3
3550	4.2	-6.0	-1.6	-13.0	-12.5	-14.7	-6.7	-15.6
3530	26.3	-4.0	22.7	-5.5	-9.5	-2.0	-1.0	10.5
3510	57.5	-0.1	54.1	-17.4	-13.0	-19.0	-2.4	46.0
3490	0	0.00	0	0.00	0.00	0.00	0.0	0
3470	0	0.00	0	0.00	0.00	0.00	0.0	0
3450	-52.1	-12.0	-71.6	-11.9	-25.1	-2.4	-49.0	-92.0
3430	-0.2	-10.3	-10.6	-13.2	-17.1	-10.5	1.0	-25.1
3410	2.4	-5.9	-3.4	0.3	2.1	-0.9	5.5	-3.1
3390	-13.3	0.3	-12.9	0.3	7.3	0.0	14.0	-3.6
3370	22.7	-3.6	19.9	3.4	-4.7	7.0	13.4	22.7
3350	0.3	0.9	1.2	-12.4	-15.6	-10.0	-37.5	-11.1
3330	-55.2	16.3	-30.0	16.1	12.5	17.6	-20.4	-9.2

Total 0.1 -1.9 -1.0 -1.4 -4.1 0.3 1.0 -3.3



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

F8988 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Blasthole Calculation

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

Period: January 1 1989 to December 31 1989

Period: January 1 1989 to December 31 1989

Period: January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 5%

%Pb+Zn Cutoff = 5%

%Pb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal	Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal	Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal	%Variance
	bcy	mt/bcy									bcy	mt/bcy									bcy	mt/bcy								
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3910	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	3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3890	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	3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3870	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	3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3850	560	2.39	1,340	5.49	1.97	3.52	33.9	0.12	74	3850	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3850	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3830	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3830	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3830	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3810	2,115	2.37	5,007	6.18	2.93	3.25	58.3	0.37	389	3810	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3810	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3790	4,012	2.30	9,234	5.98	2.54	3.36	49.4	0.25	545	3790	4,140	3.00	12,444	9.72	4.11	5.61	54.0	1,210	3790	3.3	23.3	25.8	39.3	38.2	48.1	0.5	55.0			
3770	217	2.40	523	6.80	2.68	4.20	49.0	0.24	36	3770	3,919	3.00	11,756	9.32	3.61	5.71	73.0	1,096	3770	94.5	19.9	95.6	26.2	25.8	26.4	31.8	96.7			
3750	93	2.34	219	5.65	1.82	3.83	36.6	0.22	12	3750	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3750	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3730	467	3.30	1,539	6.23	2.36	3.87	29.1	0.20	96	3730	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3730	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3710	18,784	2.88	54,046	6.48	2.40	4.80	37.1	0.14	3,582	3710	11,372	3.00	34,117	9.93	3.34	6.59	55.9	3,388	3710	-65.2	4.1	-58.4	34.7	25.7	39.3	33.6	-3.4			
3690	39,154	2.90	113,582	8.97	3.29	5.67	45.8	0.11	10,177	3690	28,641	3.00	85,923	7.48	3.18	4.38	43.8	6,427	3690	-36.7	3.3	-32.2	-19.9	-6.1	-29.5	-4.7	-58.3			
3670	38,564	2.98	114,017	8.83	2.87	5.16	34.9	0.12	9,220	3670	47,516	3.00	142,548	8.28	3.32	4.96	51.2	11,883	3670	18.0	0.8	19.5	3.8	13.6	-4.8	31.8	21.9			
3650	41,922	2.98	124,783	7.73	3.85	4.68	32.9	0.14	9,646	3650	61,289	3.00	183,867	8.33	3.28	5.85	33.6	15,316	3650	31.6	0.8	32.1	7.2	7.8	7.3	2.2	37.8			
3630	79,585	3.02	240,018	7.43	3.08	4.42	38.5	0.19	17,889	3630	88,965	3.00	242,894	8.28	3.87	5.13	36.8	19,917	3630	1.7	-0.5	1.2	9.4	2.3	13.8	-4.5	18.6			
3610	124,887	3.11	385,976	8.49	3.56	4.93	49.1	0.12	32,769	3610	123,539	3.00	378,618	8.57	3.38	5.19	46.7	31,762	3610	-8.4	-3.7	-4.1	8.9	-5.3	5.8	-5.1	-3.2			
3590	97,125	3.03	294,586	9.72	4.85	5.67	52.8	0.18	28,634	3590	122,618	3.00	367,829	8.45	3.39	5.86	58.6	31,882	3590	28.8	-1.1	19.9	-15.8	-19.5	-12.1	-2.7	7.9			
3570	86,884	2.98	256,899	9.28	3.69	5.51	58.6	0.31	23,635	3570	83,734	3.00	251,281	8.49	3.34	5.15	47.4	21,327	3570	-2.8	0.5	-2.3	-8.4	-18.5	-7.8	-6.9	-18.8			
3550	69,818	3.18	219,127	8.12	3.38	4.82	38.7	0.16	17,793	3550	54,319	3.00	162,958	8.26	3.33	4.93	39.1	13,468	3550	-27.8	-5.8	-34.5	1.7	8.9	2.2	1.1	-32.2			
3530	48,430	3.12	126,246	7.91	3.21	4.78	39.9	0.17	9,986	3530	52,619	3.00	157,856	7.62	2.99	4.63	39.8	12,829	3530	23.2	-4.1	28.8	-3.8	-7.4	-1.5	-2.4	17.8			
3510	5,668	3.24	18,354	8.56	3.86	5.51	25.2	0.18	1,573	3510	13,327	3.00	39,988	7.29	2.69	4.68	24.6	2,915	3510	57.5	-8.1	54.1	-17.4	-13.8	-19.8	-2.4	46.8			
3490	746	3.44	2,565	10.51	4.98	5.54	68.8	0.88	278	3490	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3490	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3470	5,753	3.26	18,763	8.41	3.68	4.88	48.7	0.82	1,576	3470	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3470	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0.00
3450	19,623	3.48	66,738	7.39	3.42	3.97	38.5	0.82	4,932	3450	16,889	3.00	58,668	5.94	2.43	3.51	23.8	3,818	3450	-16.2	-13.4	-31.7	-24.4	-48.7	-13.1	-67.4	-63.9			
3430	289,736	3.36	784,929	8.32	3.51	4.81	35.9	0.87	58,658	3430	198,944	3.00	572,832	7.62	3.87	4.55	37.4	43,658	3430	-9.8	-12.8	-23.1	-9.2	-14.3	-5.7	4.8	-34.4			
3410	189,831	3.38	626,497	7.57	2.95	4.62	27.7	0.82	47,426	3410	284,174	3.00	612,521	7.55	2.96	4.59	38.1	46,245	3410	7.8	-18.8	-2.3	-8.3	8.3	-8.7	8.8	-2.6			
3390	155,529	3.84	472,872	6.66	2.48	4.17	27.5	0.86	31,446	3390	131,839	3.00	395,517	2.74	4.67	31.9	29,388	3390	-18.8	-1.3	-19.6	9.5	18.7	13.8	-7.3					
3370	92,552	3.27	302,233	7.47	2.85	4.62	23.9	0.82	22,577	3370	132,935	3.00	398,884	2.68	4.88	28.8	38,158	3370	38.4	-8.9	24.2	-6.3	5.3	14.8	25.1					
3350	74,732	3.81	224,788	7.63	2.71	4.92	24.8	0.82	17,151	3350	57,886	3.00	173,417	2.63	4.84	17.3	12,954	3350	-29.3	-8.3	-29.6	-3.8	-1.7	-43.4	-32.4					
3330	19,717	2.73	53,913	6.44	2.22	4.21	23.5	0.85	3,467	3330	13,612	3.00	48,835	2.62	5.23	28.8	3,286	3330	-44.9	8.9	-32.8	15.3	19.5	-17.5	-8.1					
3310	4,665	2.43	11,334	6.62	2.66	3.97	53.7	0.34	751	3310	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	0.00
Total	1,428,755	3.13	4,458,912	7.95	3.17	4.79	36.86	0.18	354,861	Total	1,436,195	3.88	4,388,585	7.98	3.86	4.84	37.8	348,252	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

F0900 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1986 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	Zn	Ag	Au	Metal
	bcy	mt/bcy				g/mt	g/mt	g/mt	
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
3090	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3070	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3050	19,655	2.42	47,491	6.20	2.24	3.96	35.6	0.15	2,947
3030	27,119	2.43	66,025	6.80	2.49	4.39	36.2	0.20	4,542
3010	40,212	2.79	112,062	7.97	2.87	5.10	36.9	0.20	8,936
3790	63,560	2.99	189,924	0.72	3.09	5.63	34.4	0.11	16,560
3770	97,374	2.95	287,071	0.34	2.99	5.35	30.2	0.14	23,929
3750	103,344	2.97	306,727	7.64	2.04	4.80	35.4	0.20	23,428
3730	106,206	2.91	309,529	6.85	2.62	4.23	36.3	0.18	21,209
3710	147,474	2.80	425,344	6.56	2.71	3.85	39.7	0.13	27,097
3690	119,570	2.80	344,400	7.04	2.59	4.45	36.0	0.12	24,250
3670	104,099	2.03	297,010	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	155,109	3.03	469,509	6.69	2.74	3.95	33.3	0.14	31,417
3610	100,775	3.09	503,937	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	40,275
3570	246,775	3.05	751,460	0.89	3.29	4.00	41.4	0.16	60,795
3550	301,574	3.17	954,007	7.01	3.22	4.59	42.2	0.00	74,567
3530	302,651	3.16	1,209,204	7.94	3.24	4.70	45.5	0.00	95,900
3510	434,034	3.06	1,320,955	0.42	3.52	4.09	46.6	0.06	111,070
3490	443,979	3.05	1,353,969	0.71	3.69	5.02	47.0	0.04	117,927
3470	400,054	3.04	1,461,594	0.77	3.69	5.00	43.0	0.03	120,203
3450	403,611	3.12	1,259,415	0.20	3.49	4.79	41.7	0.07	104,209
3430	307,077	3.31	1,016,206	0.33	3.45	4.00	30.4	0.21	04,621
3410	270,317	3.20	066,305	7.04	2.74	4.30	27.0	0.03	60,993
3390	195,337	3.02	589,000	6.40	2.44	4.04	27.9	0.06	30,167
3370	113,024	3.11	353,704	7.04	2.69	4.35	24.7	0.03	24,901
3350	70,902	2.97	234,669	7.50	2.67	4.03	24.0	0.02	17,600
3330	30,400	2.51	96,492	5.59	1.09	3.70	25.1	0.06	5,394
3310	5,030	2.42	12,217	6.49	2.60	3.09	52.0	0.33	793
Total	5,166,243	3.06	15,797,797	7.07	3.19	4.60	39.35	0.09	1,243,267

Blasthole Calculation

Period: January 1 1986 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	Zn	Ag	Au	Metal
	bcy	mt/bcy				g/mt	g/mt	g/mt	
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
3090	14,727	3.00	44,100	7.00	3.10	4.70	NA	3,446	3090
3070	9,570	3.00	28,711	7.46	2.01	4.65	NA	2,142	3070
3050	9,850	3.00	29,549	6.24	2.41	3.03	NA	1,044	3050
3030	33,049	3.00	101,547	6.77	2.66	4.11	NA	6,075	3030
3010	41,292	3.00	123,876	7.07	2.90	4.09	NA	8,756	3010
3790	69,003	3.00	207,000	0.31	3.44	4.07	NA	17,397	3790
3770	79,065	3.00	239,596	7.04	2.71	4.33	35.7	16,062	3770
3750	91,354	3.00	274,062	7.00	2.79	4.21	39.2	19,104	3750
3730	136,005	3.00	400,256	7.05	2.00	4.25	41.0	28,702	3730
3710	124,762	3.00	374,207	7.11	2.71	4.40	30.6	26,621	3710
3690	115,904	3.00	347,711	6.69	2.56	4.12	34.0	23,247	3690
3670	06,114	3.00	250,342	7.35	2.07	4.47	42.6	10,977	3670
3650	66,001	3.00	190,000	0.14	3.19	4.95	33.2	16,122	3650
3630	100,141	3.00	540,423	6.90	2.65	4.33	30.2	37,716	3630
3610	101,263	3.00	543,789	0.12	3.11	5.02	39.4	44,164	3610
3590	233,309	3.00	699,926	7.02	3.10	4.72	42.0	54,747	3590
3570	255,464	3.00	766,392	7.07	3.33	4.54	47.5	60,294	3570
3550	325,065	3.00	975,195	7.96	3.54	4.42	40.0	77,612	3550
3530	303,429	3.00	1,150,206	0.60	3.64	5.03	44.3	99,010	3530
3510	453,040	3.00	1,359,144	9.07	3.79	5.20	51.1	123,312	3510
3490	492,126	3.00	1,476,379	9.30	3.90	5.40	49.6	137,322	3490
3470	447,433	3.00	1,342,299	9.01	3.76	5.25	51.1	121,004	3470
3450	362,657	3.00	1,087,972	0.29	3.51	4.70	42.5	90,152	3450
3430	290,700	3.00	876,124	7.30	2.90	4.31	35.7	65,376	3430
3410	201,644	3.00	044,931	7.10	2.02	4.20	20.5	59,970	3410
3390	103,000	3.00	549,001	6.97	2.60	4.37	31.4	30,206	3390
3370	147,226	3.00	441,679	7.29	2.57	4.72	20.5	32,190	3370
3350	79,195	3.00	237,504	6.67	2.31	4.36	10.0	15,047	3350
3330	24,740	3.00	74,245	6.65	2.16	4.49	19.6	4,937	3330
3310	0	0.00	0	0.00	0.00	0.00	0.0	0	3310
Total	5,207,632	3.00	15,622,096	0.02	3.27	4.75	NA	1,253,010	Total

ZVARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1986 to December 31 1989

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	Zn	Ag	Au	Metal
	bcy	mt/bcy				g/mt	g/mt	g/mt	
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
3090	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3070	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3050	-99.6	19.5	-60.7	0.6	6.9	-3.4			-59.0
3030	19.9	10.0	35.0	-1.6	6.4	-6.0			33.9
3010	2.6	7.1	9.5	-12.0	3.6	-24.0			-2.1
3790	0.9	0.4	9.3	-5.0	10.1	-15.6			4.0
3770	-21.9	1.7	-19.0	-10.4	-10.3	-23.5	15.4		-41.9
3750	-13.1	1.1	-11.9	-9.1	-1.0	-14.0	9.7		-22.1
3730	22.0	2.9	24.2	2.0	6.4	0.5	13.1		26.3
3710	-10.2	3.9	-13.6	7.0	0.3	12.4	-2.7		-4.0
3690	-3.2	4.0	0.9	-5.3	-1.1	-7.9	-5.0		-4.3
3670	-21.0	5.6	-15.0	10.7	10.6	5.7	27.9		-2.6
3650	-32.0	1.3	-31.1	15.9	12.7	10.0	-0.1		-10.2
3630	13.9	-0.0	13.1	4.1	-3.3	0.7	-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	0.0		11.0
3570	3.4	-1.5	1.9	-2.0	1.1	-5.7	12.7		-0.0
3550	7.2	-5.5	2.1	1.9	0.9	-3.0	13.5		3.9
3530	0.2	-5.3	-5.1	0.5	11.0	6.7	-2.6		3.0
3510	4.0	-1.9	2.2	7.2	7.1	7.3	0.0		9.3
3490	9.0	-1.7	0.3	6.4	5.3	7.1	3.7		14.1
3470	-7.3	-1.5	-8.9	2.7	1.0	3.3	15.9		-5.9
3450	-11.3	-4.0	-15.0	0.1	0.4	-0.2	2.0		-15.7
3430	-2.0	-10.3	-13.4	-14.1	-15.6	-13.2	-7.5		-29.4
3410	4.0	-6.0	-2.5	0.0	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	7.0	13.4		22.7
3350	0.3	0.9	1.2	-12.4	-15.6	-10.0	-37.5		-11.1
3330	-55.2	16.3	-30.0	15.9	12.5	17.6	-20.4		-9.2
3310	0	0.00	0	0.00	0.00	0.00	0.0		0.0
Total	0.0	-1.9	-1.1	1.9	2.4	1.5	NA		0.0

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

F0900 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: January 1 1986 to December 31 1989

XPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	XPb+Zn	XPb	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	6.40	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	54,785 3.09	168,853	9.24	3.25	5.99	34.5	0.11	15,597
3770	83,930 3.03	254,125	8.82	3.19	5.63	38.8	0.13	22,484
3750	89,287 3.05	272,346	8.85	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	4.83	40.7	0.13	25,528
3690	89,660 2.88	258,419	7.90	2.89	5.82	39.5	0.12	20,425
3670	75,915 2.89	219,787	7.25	2.61	4.64	33.0	0.12	15,938
3650	66,242 2.90	197,481	7.56	3.86	4.58	35.6	0.18	14,923
3630	117,154 3.05	357,257	7.37	3.81	4.36	36.4	0.15	26,344
3610	174,985 3.13	546,877	8.21	3.38	4.83	42.6	0.11	44,981
3590	167,597 3.07	514,159	8.54	3.44	5.18	41.8	0.13	43,988
3570	227,431 3.86	696,493	8.37	3.48	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	98,424
3510	384,671 3.84	1,168,576	8.97	3.73	5.25	49.8	0.07	184,828
3490	372,876 3.88	1,147,687	9.48	4.88	5.47	51.3	0.04	188,751
3470	416,516 3.85	1,268,488	9.42	3.96	5.46	45.6	0.03	119,498
3450	387,780 3.21	988,257	9.32	3.92	5.48	46.2	0.08	92,878
3430	278,123 3.36	933,119	8.67	3.68	5.87	39.5	0.22	88,877
3410	228,457 3.32	757,886	7.48	2.98	4.58	27.5	0.82	56,863
3390	173,989 3.86	532,532	6.66	2.51	4.16	27.3	0.85	35,485
3370	92,552 3.27	382,233	7.47	2.85	4.62	23.9	0.82	22,577
3350	74,732 3.81	224,788	7.63	2.71	4.92	24.8	0.82	17,151
3330	19,717 2.73	53,913	6.43	2.22	4.21	23.5	0.85	3,467
3310	4,665 2.43	11,334	6.63	2.66	3.97	53.7	0.34	751

Total 4,427,834 3.18 13,713,868 8.38 3.39 4.99 41.27 0.09 1,149,883

Blasthole Calculation

Period: January 1 1986 to December 31 1989

XPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	XPb+Zn	XPb	Zn	Ag g/mt	Metal
3950	0 0.00	0	0.00				
3910	0 0.00	0	0.00				
3890	14,727 3.88	44,188	7.88	3.18	4.78	NA	3,446
3870	6,793 3.88	28,378	8.68	3.38	5.38	NA	1,753
3850	9,858 3.88	29,549	6.24	2.41	3.83	NA	1,844
3830	27,387 3.88	81,928	7.38	2.79	4.51	NA	5,988
3810	33,288 3.88	99,848	7.68	3.19	4.41	NA	7,588
3790	65,588 3.88	196,764	8.48	3.49	4.99	NA	16,692
3770	78,479 3.88	211,436	7.39	2.84	4.56	37.3	15,632
3750	69,416 3.88	288,249	7.71	3.11	4.68	43.8	16,856
3730	181,538 3.88	384,589	7.68	3.86	4.62	44.3	23,392
3710	182,675 3.88	388,825	7.61	2.95	4.66	48.8	23,438
3690	85,158 3.88	255,458	7.41	2.88	4.61	35.9	18,921
3670	72,844 3.88	218,531	7.86	3.89	4.77	46.8	17,175
3650	63,422 3.88	198,267	8.29	3.25	5.84	33.4	15,765
3630	135,911 3.88	487,732	7.83	2.93	4.98	32.6	31,934
3610	172,251 3.88	516,752	8.31	3.17	5.14	48.1	42,956
3590	288,993 3.88	682,979	8.38	3.32	5.86	45.1	58,555
3570	227,189 3.88	681,328	8.33	3.51	4.82	46.7	56,729
3550	292,854 3.88	876,162	8.48	3.72	4.68	58.8	73,554
3530	359,346 3.88	1,078,839	8.95	3.74	5.28	45.8	96,452
3510	448,872 3.88	1,328,216	9.19	3.84	5.35	51.8	121,375
3490	459,158 3.88	1,377,458	9.62	4.82	5.68	58.9	132,458
3470	418,284 3.88	1,238,613	9.39	3.91	5.48	52.6	115,556
3450	347,568 3.88	1,042,784	8.45	3.57	4.88	42.6	88,882
3430	254,598 3.88	763,778	7.78	3.16	4.62	37.3	59,482
3410	258,366 3.88	751,899	7.41	2.93	4.49	28.9	55,676
3390	158,729 3.88	452,187	7.39	2.76	4.63	38.9	33,433
3370	132,935 3.88	398,884	7.56	2.88	4.88	28.8	38,158
3350	57,886 3.88	173,417	7.47	2.63	4.84	17.3	12,954
3330	13,612 3.88	48,835	7.85	2.62	5.23	28.8	3,286
3310	0 0.88	0	0				

Total 4,627,755 3.88 13,883,265 8.44 3.44 5.88 NA 1,172,148

%VARIANCE (Blasthole-diluted model)/blasthole #188

Period: January 1 1986 to December 31 1989

XPb+Zn Cutoff = 5%

Bench (Toe)	Volume Density bcy mt/bcy	Tonnes	XPb+Zn	XPb	Zn	Ag g/mt	Metal
3950							
3910							
3890		188.8	188.8	188.8	188.8		188.8
3870		188.8	188.8	188.8	188.8		188.8
3850	-78.5	19.8	-38.2	-3.9	2.7	-8.8	-43.5
3830	15.8	17.8	38.8	-8.1	5.3	-3.5	38.7
3810	8.9	4.3	5.2	-12.8	4.8	-25.8	-6.9
3790	16.6	-2.9	14.2	-8.9	7.8	-28.8	6.6
3770	-19.1	-8.9	-28.2	-19.2	-12.5	-23.5	17.4
3750	-28.6	-1.7	-38.8	-4.4	3.6	-9.8	16.3
3730	9.9	8.9	18.8	6.8	18.9	4.8	16.9
3710	-25.4	3.1	-21.6	18.4	5.6	13.5	8.2
3690	-5.3	3.9	-1.2	-6.7	-3.8	-9.8	-18.1
3670	-4.2	3.5	-8.5	7.7	15.8	2.5	28.1
3650	-4.4	8.7	-3.7	8.8	5.7	18.8	-6.5
3630	13.8	-1.6	12.4	5.8	-2.6	18.9	-11.5
3610	-1.5	-4.2	-5.8	1.2	-6.7	6.1	-6.3
3590	16.6	-2.3	14.7	-1.9	-3.3	-8.9	9.1
3570	-8.1	-2.1	-2.2	-8.5	3.8	-3.1	8.4
3550	1.1	-5.4	-4.2	5.2	11.4	8.3	14.6
3530	3.9	-5.8	-8.9	7.1	9.4	5.4	-6.7
3510	12.6	-1.3	11.5	2.4	3.1	2.8	5.3
3490	19.8	-2.8	16.7	1.5	8.4	2.2	-8.9
3470	-1.5	-1.5	-3.1	-8.3	-1.2	8.3	13.4
3450	11.5	-7.1	5.2	-18.3	-9.9	-18.6	-8.4
3430	-9.2	-11.8	-22.2	-11.4	-13.8	-9.8	-5.9
3410	8.8	-18.6	-8.9	8.2	8.8	-8.2	4.8
3390	-15.4	-2.1	-17.8	9.9	9.2	18.3	11.6
3370	-38.4	-8.9	-24.2	-1.2	-6.3	-5.3	-14.8
3350	-29.3	-8.3	-29.6	-2.1	-3.8	-1.7	-43.4
3330	-44.9	8.9	-32.8	18.1	15.3	19.5	-17.5
3310							

Total 4.3 -3.3 1.2 8.8 1.4 8.3 NA 2.8

CURRAGH RESOURCES INC. - F8988 INTERPRETATION

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

F8988 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: Remaining as of January 1, 1998

1Pb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	1Pb+Zn	1Pb	1Zn	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	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3830	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3810	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3790	311 3.21	998	9.98	3.52	6.37	42.1	0.12	99
3770	964 3.41	3,287	8.46	3.18	5.36	35.2	0.37	278
3750	3,848 2.74	8,368	5.28	1.94	3.34	33.4	0.18	441
3730	1,431 2.98	4,152	4.93	2.18	2.83	39.7	0.89	285
3710	18,294 3.11	31,968	5.27	2.68	2.59	58.1	0.28	1,685
3690	18,668 3.25	68,544	5.83	2.33	3.58	34.1	0.17	3,538
3670	28,954 2.96	85,789	6.88	2.32	3.77	25.4	0.15	5,228
3650	84,683 2.72	238,788	6.66	2.37	4.29	21.9	0.11	15,365
3630	186,338 2.79	296,467	6.38	2.14	4.24	21.6	0.18	18,915
3610	118,459 2.86	338,488	6.48	2.15	4.26	22.8	0.12	21,691
3590	128,254 2.85	365,798	6.38	2.33	4.85	26.5	0.16	23,338
3570	284,636 2.91	595,242	6.71	2.54	4.16	27.8	0.13	39,881
3550	222,331 3.83	673,256	6.18	2.28	3.82	27.7	0.18	41,869
3530	243,843 2.99	727,491	7.87	2.74	4.33	35.8	0.11	51,434
3510	336,893 3.85	1,826,285	7.19	2.73	4.46	31.3	0.87	73,798
3490	377,868 3.11	1,175,321	7.88	2.69	4.39	31.4	0.88	83,213
3470	392,477 3.87	1,285,488	8.48	3.14	5.26	33.3	0.87	181,254
3450	384,318 3.12	949,248	7.98	2.75	5.15	32.4	0.88	74,998
3430	219,811 3.18	698,986	7.25	2.56	4.69	26.7	0.86	58,671
3410	187,833 3.88	575,187	6.68	2.41	4.27	24.6	0.86	38,422
3390	135,159 3.87	414,922	7.87	2.48	4.67	21.2	0.85	29,335
3370	112,954 2.88	324,976	8.78	2.86	5.84	22.8	0.88	28,273
3350	182,869 2.57	261,792	9.86	2.98	6.87	27.7	0.12	25,786
3330	73,519 2.51	184,884	18.82	3.33	7.49	31.8	0.85	19,996
3310	42,233 2.44	183,889	8.86	3.84	5.83	45.8	0.12	9,137
Total	3,454,914 2.99	18,342,223	7.33	2.65	4.68	29.23	0.89	758,816

CURRAGH RESOURCES INC. - F8988 INTERPRETATION

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

F8988 - Undiluted, Uncut, Bench Composite Reserves
- 95% Mining Recovery

Period: Remaining as of January 1, 1998

1Pb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	1Pb+Zn	1Pb	1Zn	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	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3830	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3810	0 0.00	0	0.00	0.00	0.00	0.0	0.00	0
3790	311 3.21	998	9.98	3.52	6.37	42.1	0.12	99
3770	964 3.41	3,287	8.46	3.18	5.36	35.2	0.37	278
3750	1,524 2.79	4,256	6.87	2.14	3.93	33.7	0.17	258
3730	529 2.28	1,287	6.25	2.16	4.18	38.9	0.85	76
3710	6,158 3.11	19,143	5.64	2.88	2.76	58.7	0.24	1,888
3690	11,445 3.22	36,841	6.67	2.39	4.27	38.1	0.12	2,454
3670	28,628 3.81	61,997	6.68	2.58	4.11	26.6	0.17	4,148
3650	68,543 2.75	188,756	7.17	2.68	4.57	23.5	0.13	13,534
3630	88,921 2.82	228,384	6.96	2.34	4.62	22.6	0.12	15,898
3610	88,292 2.89	255,856	7.82	2.41	4.61	24.8	0.14	17,985
3590	89,411 2.98	259,865	7.14	2.64	4.58	28.1	0.19	18,497
3570	148,758 2.96	448,282	7.47	2.81	4.66	29.3	0.15	32,883
3550	161,985 3.86	495,182	6.65	2.54	4.11	31.1	0.11	32,924
3530	189,823 3.88	567,426	7.81	3.85	4.76	38.6	0.13	44,316
3510	277,488 3.89	857,668	7.74	2.93	4.88	33.8	0.87	66,297
3490	294,327 3.16	938,288	7.76	2.94	4.82	33.3	0.88	72,198
3470	346,419 3.88	1,868,876	8.92	3.31	5.61	34.5	0.87	95,272
3450	269,812 3.13	842,346	8.35	2.88	5.47	33.8	0.88	78,336
3430	172,882 3.19	551,829	8.88	2.84	5.16	28.8	0.86	44,882
3410	135,688 3.14	425,481	7.48	2.69	4.71	26.6	0.87	31,488
3390	186,285 3.19	339,188	7.68	2.62	5.85	21.4	0.84	26,816
3370	186,889 2.91	318,688	8.98	2.94	5.96	22.9	0.88	27,651
3350	181,384 2.57	268,177	9.89	3.88	6.89	27.8	0.12	25,731
3330	78,987 2.52	178,895	11.83	3.39	7.64	31.8	0.84	19,732
3310	48,748 2.44	99,465	9.88	3.88	5.93	46.4	0.11	8,962
Total	2,798,256 3.82	8,424,847	7.98	2.88	5.89	31.88	0.89	672,898

F8910 PREDICTED RESERVES VS BLASTHOLES

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

F8910 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
 - Assays clipped to 95th Percentile By Rock Type

Period: January 1 1986 to December 31 1987

ZPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes ZPb+Zn	ZPb	Zn	Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.00	0
3890	14,959	2.62	39,197	7.12	3.09	4.03	47.6	0.04
3870	21,140	2.60	56,660	7.05	2.97	4.00	43.4	0.10
3850	18,691	2.77	51,794	7.03	2.82	5.00	36.1	0.09
3830	27,275	2.40	67,517	6.61	2.44	4.17	35.7	0.17
3810	37,165	2.84	105,602	8.12	2.90	5.23	34.9	0.13
3790	57,535	3.05	175,604	8.00	3.10	5.79	33.1	0.00
3770	95,539	2.93	279,614	6.94	2.41	4.52	29.2	0.14
3750	98,773	2.94	290,601	6.70	2.55	4.23	33.4	0.21
3730	101,946	2.92	297,740	6.81	2.64	4.17	36.6	0.15
3710	110,334	2.93	346,161	6.55	2.70	3.86	30.0	0.15
3690	66,522	2.85	189,421	6.37	2.29	4.00	31.1	0.15
3670	43,305	2.84	123,206	6.12	2.21	3.91	29.5	0.17
3650	32,469	2.99	97,223	6.53	2.76	3.77	35.2	0.15
3630	52,496	3.14	164,645	6.33	2.62	3.71	27.4	0.16
3610	55,793	3.16	176,064	7.06	2.74	4.32	26.0	0.17
3590	76,506	3.09	236,645	6.54	2.41	4.13	23.6	0.13
3570	70,130	3.25	227,620	6.47	2.55	3.92	23.9	0.11
3550	112,550	3.29	370,215	7.46	2.99	4.47	31.0	0.07
3530	160,560	3.20	513,200	7.89	3.12	4.77	32.0	0.10
3510	219,313	3.12	683,430	8.53	3.52	5.01	41.3	0.13
3490	180,060	3.09	553,937	8.52	3.62	4.89	45.5	0.11
3470	157,459	2.99	469,994	7.20	3.03	4.25	30.3	0.09
3450	97,605	3.13	305,986	8.00	3.21	4.79	37.0	0.00
3430	50,747	3.33	169,014	9.68	3.02	5.06	45.1	0.00
3410	1,360	3.45	4,722	6.90	2.04	4.14	25.9	0.00
3390	0	0.00	0	0.00	0.00	0.00	0.00	0
3370	0	0.00	0	0.00	0.00	0.00	0.00	0
3350	0	0.00	0	0.00	0.00	0.00	0.00	0
3330	0	0.00	0	0.00	0.00	0.00	0.00	0
3310	0	0.00	0	0.00	0.00	0.00	0.00	0

Blasthole Calculation

Period: January 1 1986 to December 31 1987

ZPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes ZPb+Zn	ZPb	Zn	Ag g/mt	Metal
3950	0	0.00	0				0
3910	0	0.00	0				0
3890	14,727	3.00	44,100	7.00	3.10	4.70	NA
3870	9,570	3.00	28,711	7.46	2.81	4.65	NA
3850	9,050	3.00	29,549	6.24	2.41	3.03	NA
3830	33,049	3.00	101,547	6.77	2.66	4.11	NA
3810	40,107	3.00	120,320	7.06	2.97	4.09	NA
3790	63,360	3.00	190,000	8.20	3.40	4.00	NA
3770	75,947	3.00	227,040	6.92	2.66	4.26	33.7
3750	91,354	3.00	274,062	7.00	2.79	4.21	39.2
3730	136,005	3.00	408,256	7.05	2.80	4.25	41.0
3710	113,390	3.00	340,170	6.83	2.65	4.10	36.9
3690	79,005	3.00	239,655	6.50	2.40	4.10	30.0
3670	37,225	3.00	113,175	6.25	2.34	3.91	32.1
3650	2,133	3.00	6,400	7.01	2.34	4.67	27.0
3630	76,290	3.00	228,893	6.61	2.52	4.09	24.9
3610	52,071	3.00	156,212	7.40	2.60	4.00	23.6
3590	82,001	3.00	246,004	7.54	2.70	4.76	29.7
3570	47,414	3.00	142,243	7.07	2.71	4.36	20.0
3550	99,050	3.00	299,549	7.70	3.21	4.57	30.5
3530	172,950	3.00	518,049	8.69	3.40	5.29	35.1
3510	231,307	3.00	693,922	9.25	3.00	5.45	46.4
3490	203,909	3.00	611,960	8.95	3.77	5.10	45.0
3470	140,273	3.00	444,010	8.54	3.56	4.90	43.0
3450	101,215	3.00	303,645	8.00	3.40	4.60	40.5
3430	66,660	3.00	200,000	8.00	3.37	4.71	36.5
3410	1,770	3.00	5,333	10.19	4.75	5.44	40.0
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

ZVARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1986 to December 31 1987

ZPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes ZPb+Zn	ZPb	Zn	Ag g/mt	Metal
3950							0
3910							0
3890	-1.6	12.7	11.3	0.7	0.3	14.3	19.0
3870	-121.0	10.7	-97.4	5.5	-5.7	12.3	-86.5
3850	-89.0	7.6	-75.3	-25.5	-17.0	-30.5	-119.7
3830	19.4	17.5	33.5	2.4	0.3	-1.5	35.1
3810	7.3	5.3	12.2	-15.0	2.4	-27.9	-1.1
3790	9.2	-1.0	7.6	-7.2	0.0	-10.6	0.0
3770	-25.0	2.4	-22.7	-0.3	9.4	-6.1	13.4
3750	-0.1	1.9	-6.1	3.1	0.6	-0.5	14.0
3730	25.1	2.6	27.1	3.4	5.7	1.9	12.5
3710	-4.4	2.5	-1.0	4.1	-1.9	7.7	-3.0
3690	16.7	5.1	21.0	3.2	4.6	2.4	-1.0
3670	-15.0	5.3	-0.9	2.1	5.6	0.0	0.1
3650	-1422.0	0.2	-1419.1	6.0	-17.9	19.3	-30.4
3630	31.2	-4.5	20.1	4.2	-4.0	9.3	-10.1
3610	-7.1	-5.2	-12.7	5.6	-5.4	11.5	-10.2
3590	7.6	-3.1	4.7	13.3	13.3	13.2	20.6
3570	-47.9	-0.2	-60.0	0.5	5.9	10.1	14.6
3550	-12.7	-9.6	-23.6	4.1	6.9	2.2	17.5
3530	2.5	-9.4	-6.6	9.2	0.2	9.0	6.6
3510	5.2	-3.9	1.5	7.0	7.4	0.1	11.0
3490	7.4	-3.1	4.6	4.0	4.0	5.6	0.7
3470	-6.2	0.5	-5.7	14.0	14.9	14.7	10.9
3450	3.5	-4.4	-0.0	0.0	5.6	-4.1	0.7
3430	11.9	-11.1	2.1	-19.0	-13.4	-24.4	-23.7
3410	23.0	-15.0	11.5	31.5	40.2	23.9	46.0
3390							0
3370							0
3350							0
3330							0
3310							0

Total 1,993,215 3.06 6,092,054 7.51 2.90 4.54 35.47 0.12 457,023 Total 1,992,595 3.00 5,977,706 7.07 3.16 4.72 NA 470,733 Total -0.0 -1.9 -1.9 4.6 5.7 3.0 NA 2.7

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

F8910 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
 - Assays clipped to 95th Percentile By Rock Type

Period: January 1 1986 to December 31 1987

ZPb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	ZPb+Zn	ZPb	ZZn	Ag g/mt	Au g/mt	Metal
	bcy	mt/bcy							
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	14,959	2.62	39,197	7.12	3.09	4.03	47.6	0.04	2,791
3870	13,747	2.86	39,203	8.14	3.41	4.72	47.1	0.11	3,194
3850	10,543	3.01	31,749	9.95	3.73	6.22	45.2	0.09	3,159
3830	23,947	2.50	59,098	6.92	2.55	4.36	36.5	0.16	4,139
3810	31,567	2.91	91,856	8.64	3.06	5.58	35.2	0.13	7,936
3790	48,027	3.16	154,508	9.47	3.29	6.18	34.1	0.07	14,632
3770	76,079	3.03	232,779	7.40	2.61	4.79	30.3	0.13	17,226
3750	81,793	3.02	247,209	7.18	2.71	4.47	33.9	0.22	17,750
3730	86,458	3.00	259,398	7.15	2.76	4.39	37.1	0.15	18,547
3710	102,598	2.94	301,369	6.83	2.76	4.07	39.0	0.15	20,583
3690	49,666	2.87	142,519	7.02	2.53	4.49	33.9	0.16	10,005
3670	37,165	2.82	104,842	6.39	2.31	4.08	31.0	0.17	6,699
3650	24,258	2.99	72,552	7.20	3.07	4.13	39.6	0.15	5,224
3630	34,458	3.12	107,436	7.28	3.07	4.21	32.3	0.16	7,821
3610	50,195	3.15	158,337	7.34	2.86	4.40	27.1	0.17	11,622
3590	65,590	3.12	204,602	6.85	2.58	4.27	25.4	0.14	14,015
3570	62,168	3.26	202,445	6.72	2.68	4.03	25.5	0.11	13,584
3550	102,349	3.29	336,965	7.74	3.14	4.60	33.0	0.07	26,001
3530	142,374	3.29	467,942	8.51	3.37	5.14	35.1	0.10	39,022
3510	209,766	3.11	651,307	8.73	3.59	5.15	42.0	0.13	56,931
3490	159,914	3.13	500,147	9.19	3.91	5.29	48.3	0.11	46,013
3470	118,420	2.98	353,277	8.19	3.42	4.77	42.5	0.08	28,933
3450	89,474	3.19	284,953	8.26	3.34	4.92	38.4	0.08	23,537
3430	55,419	3.34	185,307	9.99	3.93	6.06	46.5	0.08	10,512
3410	1,306	3.45	4,503	7.08	2.88	4.20	26.0	0.08	319
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 1,693,048 3.09 5,234,453 8.01 3.10 4.83 37.40 0.12 419,076

Blasthole Calculation

Period: January 1 1986 to December 31 1987

ZPb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	ZPb+Zn	ZPb	ZZn	Ag g/mt	Metal
	bcy	mt/bcy						
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	20,370	8.60	3.3	5.3	NA	1,753
3850	9,850	3.00	29,549	6.24	2.41	3.83	NA	1,044
3830	27,307	3.00	81,920	7.30	2.79	4.51	NA	5,900
3810	33,200	3.00	99,040	7.60	3.19	4.41	NA	7,500
3790	61,440	3.00	184,320	8.40	3.45	4.95	NA	15,403
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	25,320	3.00	75,963	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	40,711	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	43,000	3.00	131,663	7.20	2.70	4.5	20.5	9,505
3550	98,674	3.00	296,022	7.00	3.21	4.59	30.6	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	180,003	3.00	566,400	9.20	3.89	5.39	47.2	52,563
3470	144,939	3.00	434,810	8.64	3.59	5.05	43.2	37,560
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	40.0	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 1,763,507 3.00 5,290,522 8.29 3.32 4.96 NA 430,355

ZVARIANCE (Blasthole-diluted model)/blasthole *100

Period: January 1 1986 to December 31 1987

ZPb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	ZPb+Zn	ZPb	ZZn	Ag g/mt	Metal
	bcy	mt/bcy						
3950								
3910								
3890	-1.6	12.7	11.3	0.7	0.3	14.3		19.0
3870	-102.4	4.7	-92.0	5.3	-3.3	10.9		-02.2
3850	-7.0	-0.4	-7.4	-59.5	-54.0	-62.4		-71.3
3830	12.3	16.6	26.9	5.2	0.6	3.3		30.8
3810	5.1	3.0	8.0	-13.7	4.1	-26.5		-4.6
3790	20.5	-5.5	16.2	-12.7	4.6	-24.0		5.5
3770	-15.5	-0.9	-16.6	-1.6	6.5	-6.7	14.0	-18.5
3750	-17.0	-0.7	-10.7	6.9	12.9	2.0	21.2	-10.5
3730	14.0	0.0	14.0	6.9	9.8	5.0	16.3	20.7
3710	-12.4	2.1	-10.0	6.7	4.8	7.9	-0.3	-2.7
3690	12.1	4.3	15.9	4.7	4.5	4.9	-6.3	19.9
3670	-46.7	6.0	-30.0	9.6	13.5	7.3	14.2	-24.7
3650	-1037.1	0.3	-1033.6	-2.7	-31.2	11.6	-46.7	-1064.3
3630	37.3	-3.9	34.0	0.1	-12.5	7.7	-22.3	34.9
3610	-3.0	-5.1	-0.4	4.2	-0.3	10.0	-16.3	-3.0
3590	6.9	-4.0	3.1	15.0	14.3	16.0	20.9	10.5
3570	-41.7	-0.5	-53.0	7.7	3.6	10.4	10.4	-41.7
3550	-3.7	-9.7	-13.0	0.0	2.2	-0.2	12.3	-13.0
3530	11.0	-9.6	3.4	5.3	3.4	6.5	0.7	8.6
3510	6.2	-3.5	2.9	7.2	7.0	7.2	10.7	9.0
3490	15.3	-4.3	11.7	1.0	-0.5	1.9	-2.3	12.5
3470	10.3	0.6	10.0	5.2	4.7	5.5	1.6	23.0
3450	7.1	-6.2	1.4	-0.7	3.7	-4.0	4.0	0.7
3430	12.9	-11.5	2.9	-21.1	-14.6	-25.7	-25.7	-17.5
3410	26.5	-15.0	15.6	30.5	39.4	22.0	45.0	41.3
3390								
3370								
3350								
3330								
3310								

Total 4.0 -3.0 1.1 3.4 4.2 2.0 NA 4.4

Faro Computer Model Ore Predictions vs Actual Blasthole Results By Bench

F8910 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
 - Assays clipped to 95th Percentile By Rock Type

Period: January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 4%

Bench	Volume Density bcy 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	2,364 2.42	5,719	6.50	2.75	3.76	43.3	0.16	372
3850	1,835 2.50	4,579	7.63	3.05	4.58	45.4	0.28	349
3830	2,083 2.27	4,722	4.77	1.83	2.93	32.3	0.23	225
3810	124 2.45	304	4.89	1.81	3.09	33.3	0.14	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	0.29	4
3730	342 2.31	789	5.51	1.89	3.62	32.4	0.22	43
3710	2,146 2.61	5,596	5.27	2.89	3.18	38.1	0.19	295
3690	217 2.62	570	5.85	2.86	3.79	38.4	0.15	33
3670	186 2.24	418	5.82	1.87	3.94	29.7	0.17	24
3650	62 2.38	143	5.76	2.42	3.34	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	4.62	1.27	3.35	18.2	0.23	23
3590	6,935 3.17	22,012	7.89	3.38	4.58	41.2	0.88	1,735
3570	81,793 3.88	245,689	9.84	3.96	5.88	51.8	0.18	22,218
3550	121,942 3.84	370,975	8.63	3.96	4.68	55.8	0.12	32,852
3530	166,818 3.85	507,937	8.49	3.98	4.51	58.4	0.14	43,124
3510	199,547 2.97	592,173	8.28	3.53	4.67	52.5	0.13	48,558
3490	278,162 2.99	887,485	8.55	3.55	5.88	46.2	0.89	69,833
3470	318,157 3.88	953,785	9.35	3.92	5.43	48.3	0.87	89,171
3450	269,477 3.89	833,768	8.51	3.56	4.95	42.4	0.87	78,954
3430	15,643 3.18	49,723	8.41	3.34	5.87	38.2	0.88	4,182
3410	45,486 3.31	158,433	6.24	2.53	3.71	26.6	0.88	9,387
3390	18,753 3.24	68,753	6.69	2.71	3.97	25.8	0.84	4,858
3370	0 0.00	0	0.00	0.00	0.00	0.0	0.88	0
3350	0 0.00	0	0.00	0.00	0.00	0.0	0.88	0
3330	0 0.00	0	0.00	0.00	0.00	0.0	0.88	0
3310	0 0.00	0	0.00	0.00	0.00	0.0	0.88	0
Total	1,516,229 3.85	4,617,979	8.57	3.67	4.98	47.99	0.89	395,857

Blasthole Calculation

Period: January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0 0.00	0	0.00	0.00	0.00	0.0	0
3910	0 0.00	0	0.00	0.00	0.00	0.0	0
3890	0 0.00	0	0.00	0.00	0.00	0.0	0
3870	0 0.00	0	0.00	0.00	0.00	0.0	0
3850	0 0.00	0	0.00	0.00	0.00	0.0	0
3830	0 0.00	0	0.00	0.00	0.00	0.0	0
3810	0 0.00	0	0.00	0.00	0.00	0.0	0
3790	0 0.00	0	0.00	0.00	0.00	0.0	0
3770	0 0.00	0	0.00	0.00	0.00	0.0	0
3750	0 0.00	0	0.00	0.00	0.00	0.0	0
3730	0 0.00	0	0.00	0.00	0.00	0.0	0
3710	0 0.00	0	0.00	0.00	0.00	0.0	0
3690	0 0.00	0	0.00	0.00	0.00	0.0	0
3670	0 0.00	0	0.00	0.00	0.00	0.0	0
3650	0 0.00	0	0.00	0.00	0.00	0.0	0
3630	0 0.00	0	0.00	0.00	0.00	0.0	0
3610	0 0.00	0	0.00	0.00	0.00	0.0	0
3590	7,969 3.88	23,986	9.53	5.18	4.43	74.8	2,278
3570	185,844 3.88	315,132	8.45	3.87	4.58	58.8	26,629
3550	149,373 3.88	448,118	8.58	4.89	4.49	62.1	38,449
3530	149,888 3.88	447,824	9.38	4.26	5.84	57.6	41,573
3510	288,414 3.88	625,242	8.99	3.86	5.13	58.1	56,289
3490	288,137 3.88	864,411	9.55	3.99	5.56	52.3	82,551
3470	299,168 3.88	897,481	9.25	3.86	5.39	55.1	83,817
3450	241,268 3.88	723,885	8.62	3.65	4.97	45.8	62,392
3430	0 0.00	0	0.00	0.00	0.00	0.0	0
3410	58,934 3.88	152,881	6.48	2.68	3.88	23.8	9,779
3390	27,112 3.88	81,336	6.65	2.62	4.83	24.8	5,489
3370	0 0.00	0	0.00	0.00	0.00	0.0	0
3350	0 0.00	0	0.00	0.00	0.00	0.0	0
3330	0 0.00	0	0.00	0.00	0.00	0.0	0
3310	0 0.00	0	0.00	0.00	0.00	0.0	0
Total	1,526,419 3.88	4,579,256	8.92	3.86	5.86	53.8	488,286

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

Period: January 1 1988 to December 31 1988

%Pb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0 0.00	0	0.00	0.00	0.00	0.0	0
3910	0 0.00	0	0.00	0.00	0.00	0.0	0
3890	0 0.00	0	0.00	0.00	0.00	0.0	0
3870	0 0.00	0	0.00	0.00	0.00	0.0	0
3850	0 0.00	0	0.00	0.00	0.00	0.0	0
3830	0 0.00	0	0.00	0.00	0.00	0.0	0
3810	0 0.00	0	0.00	0.00	0.00	0.0	0
3790	0 0.00	0	0.00	0.00	0.00	0.0	0
3770	0 0.00	0	0.00	0.00	0.00	0.0	0
3750	0 0.00	0	0.00	0.00	0.00	0.0	0
3730	0 0.00	0	0.00	0.00	0.00	0.0	0
3710	0 0.00	0	0.00	0.00	0.00	0.0	0
3690	0 0.00	0	0.00	0.00	0.00	0.0	0
3670	0 0.00	0	0.00	0.00	0.00	0.0	0
3650	0 0.00	0	0.00	0.00	0.00	0.0	0
3630	0 0.00	0	0.00	0.00	0.00	0.0	0
3610	0 0.00	0	0.00	0.00	0.00	0.0	0
3590	13.8 -5.8	7.9	17.2	35.3	-3.4	44.3	23.9
3570	22.1 -8.1	22.8	-7.8	-2.3	-18.9	13.3	16.6
3550	18.4 -1.4	17.2	-8.6	3.2	-4.2	11.4	16.6
3530	-12.8 -1.5	-13.6	8.7	6.6	18.5	-1.4	-3.7
3510	4.2 1.1	5.3	8.8	8.5	9.8	9.6	13.6
3490	6.2 8.4	6.6	18.5	11.8	18.1	11.7	16.4
3470	-3.7 -2.5	-6.3	-1.1	-1.6	-8.7	12.4	-7.4
3450	-11.7 -3.1	-15.2	1.3	2.5	8.4	5.7	-13.7
3430	0 0.00	0	0.00	0.00	0.00	0.0	0
3410	18.9 -18.4	1.6	2.5	2.7	2.4	-15.8	4.8
3390	38.8 -8.8	25.3	-8.6	-3.4	1.5	-7.5	25.8
3370	0 0.00	0	0.00	0.00	0.00	0.0	0
3350	0 0.00	0	0.00	0.00	0.00	0.0	0
3330	0 0.00	0	0.00	0.00	0.00	0.0	0
3310	0 0.00	0	0.00	0.00	0.00	0.0	0
Total	8.7 -1.5	-8.8	3.9	4.7	3.2	9.5	3.8

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

FB910 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
 - Assays clipped to 95th Percentile By Rock Type

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	1,866	2.44	4,551	6.99	2.96	4.03	45.6	0.17	318
3850	1,835	2.50	4,579	7.63	3.05	4.50	45.4	0.20	349
3830	591	2.36	1,397	5.77	2.15	3.61	37.2	0.19	80
3810	31	2.46	76	5.42	2.23	3.19	39.6	0.18	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	0.29	4
3730	249	2.33	580	5.85	2.00	3.85	33.2	0.20	34
3710	684	3.21	2,195	5.91	2.74	3.17	35.6	0.25	138
3690	217	2.62	578	5.85	2.86	3.79	38.4	0.15	33
3670	186	2.24	418	5.82	1.87	3.94	29.7	0.17	24
3650	62	2.38	143	5.76	2.42	3.34	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	6,749	3.19	21,499	7.97	3.36	4.68	41.9	0.88	1,711
3570	78,558	3.02	237,215	9.19	4.84	5.15	51.9	0.10	21,888
3550	121,586	3.04	369,579	8.65	3.97	4.68	55.1	0.12	31,969
3530	153,681	3.03	465,381	8.86	4.17	4.68	61.5	0.14	41,179
3510	167,285	2.92	487,778	9.81	3.85	5.16	57.8	0.14	43,949
3490	218,785	3.01	659,338	9.47	3.93	5.54	58.4	0.89	62,439
3470	283,567	3.89	874,684	9.79	4.18	5.69	58.1	0.87	85,632
3450	194,497	3.21	624,188	9.85	4.89	5.76	47.2	0.86	61,483
3430	13,683	3.27	44,882	8.86	3.53	5.32	39.4	0.88	3,965
3410	37,258	3.38	125,866	6.54	2.66	3.88	26.8	0.88	8,232
3390	18,753	3.24	60,753	6.69	2.71	3.97	25.8	0.84	4,858
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 1,299,993 3.07 3,985,583 9.22 3.95 5.27 51.24 0.89 367,482

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	3.08	23,986	9.53	5.18	4.43	74.0	2,278
3570	99,488	3.08	298,464	8.65	3.97	4.68	54.1	25,817
3550	139,861	3.08	417,182	8.87	4.23	4.64	64.8	37,884
3530	145,248	3.08	435,745	9.38	4.38	5.88	58.8	48,873
3510	203,845	3.08	609,134	9.88	3.98	5.18	58.8	55,389
3490	278,347	3.88	811,842	9.85	4.11	5.74	53.5	79,888
3470	265,265	3.88	795,795	9.88	4.89	5.71	57.8	77,988
3450	234,325	3.88	782,975	8.73	3.69	5.84	45.1	61,378
3430	0	0.00	0	0.00				0
3410	44,415	3.88	133,245	6.67	2.78	3.97	22.9	8,887
3390	18,898	3.88	56,678	7.28	2.98	4.38	24.8	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 1,428,853 3.88 4,284,158 9.19 3.97 5.21 54.8 393,548

%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	0							
3910	0							
3890	0							
3870	0							
3850	0							
3830	0							
3810	0							
3790	0							
3770	0							
3750	0							
3730	0							
3710	0							
3690	0							
3670	0							
3650	0							
3630	0							
3610	0							
3590	15.3	-6.2	18.1	16.4	34.1	-3.8	43.4	24.9
3570	21.8	-8.7	28.5	-6.2	-1.8	-18.8	4.1	15.6
3550	12.6	-1.4	11.4	2.5	6.1	-8.9	14.8	13.6
3530	-5.8	-1.8	-6.8	5.5	3.8	7.9	-6.8	-8.7
3510	17.6	2.8	19.9	8.8	1.3	8.4	1.6	28.5
3490	19.1	-8.5	18.7	3.9	4.4	3.5	5.7	21.8
3470	-6.9	-2.8	-9.9	8.1	-8.2	8.4	13.3	-9.8
3450	17.8	-7.8	11.2	-12.8	-18.8	-14.3	-4.7	-8.2
3430	0							
3410	16.1	-12.6	5.5	1.9	1.5	2.3	-17.3	7.4
3390	8.7	-8.8	-7.2	8.1	6.6	9.4	-7.5	1.6
3370	0							
3350	0							
3330	0							
3310	0							

Total 9.8 -2.2 7.8 -8.4 8.6 -1.1 5.8 6.6

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

FB910 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
 - Assays clipped to 95th Percentile By Rock Type

Blasthole Calculation

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

Period: January 1 1989 to December 31 1989

Period: January 1 1989 to December 31 1989

Period: January 1 1989 to December 31 1989

%Pb+Zn Cutoff = 4%

%Pb+Zn Cutoff = 4%

%Pb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal	Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal	Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal	%Variance
	bcy	mt/bcy									bcy	mt/bcy									bcy	mt/bcy								
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	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	3910	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	3890	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	684	2.44	1,672	7.83	2.89	4.13	46.1	0.17	117	3870	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	1,213	2.44	2,955	5.77	2.49	3.28	39.0	0.11	170	3850	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3850	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	
3830	288	2.31	646	4.26	1.77	2.58	30.9	0.18	28	3830	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3830	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	
3810	3,732	2.46	9,196	6.25	2.83	3.43	46.7	0.16	576	3810	1,185	3.00	3,556	7.35	3.36	3.99	58.0	0.26	261	3810	-214.9	17.9	-158.6	15.0	15.8	14.0	6.6	-120.3		
3790	6,033	2.42	14,573	5.29	2.32	2.97	39.9	0.17	771	3790	6,443	3.00	19,328	8.58	3.79	4.79	50.4	1,658	3790	6.4	19.5	24.6	38.3	38.8	38.0	20.9	53.5			
3770	653	2.39	1,558	5.12	2.89	3.83	36.8	0.23	80	3770	3,919	3.00	11,756	9.32	3.61	5.71	73.8	1,896	3770	83.3	28.4	86.7	45.1	42.1	46.9	58.7	92.7			
3750	93	2.34	219	5.65	1.82	3.83	36.6	0.29	12	3750	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3750	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	
3730	995	2.73	2,717	5.31	1.97	3.34	29.1	0.28	144	3730	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3730	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	
3710	22,818	2.85	62,833	6.13	2.36	3.77	35.3	0.13	3,852	3710	11,372	3.00	34,117	9.93	3.34	6.59	55.9	3,388	3710	-93.6	4.9	-84.2	38.3	29.3	42.8	36.8	-13.7			
3690	52,217	2.89	150,965	7.58	2.83	4.74	39.4	0.14	11,428	3690	36,819	3.00	108,856	6.92	2.92	4.80	41.1	7,477	3690	-45.8	3.6	-39.7	-9.5	3.1	-18.5	4.2	-52.8			
3670	61,795	2.84	175,513	6.64	2.41	4.23	31.2	0.13	11,654	3670	48,389	3.00	145,167	8.28	3.29	4.91	58.8	11,984	3670	-27.7	5.3	-28.9	19.8	26.7	13.8	38.6	2.1			
3650	54,581	2.95	161,244	6.84	2.75	4.89	31.6	0.15	11,829	3650	63,867	3.00	191,682	8.18	3.22	4.96	33.4	15,673	3650	14.5	1.5	15.8	16.4	14.6	17.5	5.3	29.6			
3630	181,448	2.96	388,362	6.78	2.78	4.81	36.1	0.15	28,395	3630	183,843	3.00	311,538	7.25	2.75	4.58	34.1	22,586	3630	2.3	1.3	3.6	6.5	-1.1	18.9	-5.8	9.7			
3610	132,796	3.05	485,683	8.48	3.42	4.98	47.0	0.14	34,871	3610	129,192	3.00	387,577	8.38	3.31	5.87	45.8	32,479	3610	-2.8	-1.8	-4.7	-8.2	-3.3	1.8	-2.6	-4.9			
3590	123,831	2.96	363,879	9.82	3.62	5.48	47.4	0.15	32,822	3590	142,539	3.00	427,616	7.89	3.18	4.71	48.7	33,739	3590	13.7	1.4	14.9	-14.3	-13.8	-14.6	2.7	2.7			
3570	99,278	2.93	291,128	8.44	3.38	5.86	45.6	0.17	24,571	3570	183,886	3.00	389,817	7.64	3.86	4.58	44.9	23,689	3570	3.6	2.2	5.8	-18.5	-18.5	-18.5	-1.7	-4.1			
3550	74,818	3.16	234,888	7.64	3.15	4.49	38.8	0.13	17,884	3550	75,843	3.00	227,528	6.97	2.89	4.88	36.1	15,859	3550	2.4	-5.4	-2.9	-9.6	-9.8	-18.8	-5.3	-12.8			
3530	45,313	3.14	142,443	7.45	3.89	4.36	38.6	0.13	18,612	3530	61,471	3.00	184,413	7.13	2.83	4.38	38.8	13,149	3530	26.3	-4.8	22.8	-4.5	-9.2	-1.4	-1.6	19.3			
3510	5,668	3.25	18,373	8.49	3.86	5.44	25.1	0.11	1,562	3510	13,327	3.00	39,988	7.29	2.69	4.68	24.6	2,915	3510	57.5	-8.2	54.8	-16.5	-13.8	-18.3	-1.9	46.4			
3490	746	3.49	2,683	9.39	4.49	4.98	53.7	0.88	244	3490	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3490	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	
3470	7,993	3.31	26,486	7.26	3.11	4.15	36.7	0.85	1,923	3470	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3470	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	
3450	38,664	3.38	183,531	6.29	2.88	3.41	35.5	0.86	6,512	3450	28,174	3.00	88,522	5.73	2.39	3.34	23.2	3,468	3450	-52.8	-12.5	-71.1	-9.8	-28.5	-2.1	-53.3	-87.8			
3430	237,663	3.31	785,688	8.49	3.48	5.89	36.2	0.87	66,785	3430	232,848	3.00	696,119	7.87	2.87	4.28	35.5	49,216	3430	-2.4	-18.2	-12.9	-28.1	-18.5	-21.2	-2.1	-35.5			
3410	222,983	3.18	787,982	7.24	2.78	4.45	27.8	0.87	51,181	3410	228,932	3.00	686,797	7.23	2.85	4.38	29.6	49,655	3410	2.6	-5.8	-3.1	-8.1	2.5	-1.6	6.1	-3.1			
3390	177,286	2.98	528,618	6.44	2.48	4.85	26.5	0.86	34,896	3390	155,888	3.00	467,665	7.83	2.88	4.43	32.7	32,877	3390	-13.7	8.6	-13.8	8.4	7.7	8.6	18.9	-3.7			
3370	117,277	3.18	362,995	7.35	2.66	4.69	24.3	0.85	26,688	3370	147,226	3.00	441,679	7.29	2.57	4.72	28.5	32,198	3370	28.3	-3.2	17.8	-8.8	-3.5	8.6	14.8	17.1			
3350	78,962	2.97	234,299	7.56	2.62	4.94	24.1	0.85	17,713	3350	79,195	3.00	237,584	6.67	2.31	4.36	18.8	15,847	3350	8.3	1.1	1.4	-13.3	-13.4	-13.3	-33.7	-11.8			
3330	37,871	2.56	94,915	5.48	1.85	3.63	22.9	0.14	5,281	3330	24,748	3.00	74,245	6.65	2.16	4.49	19.6	4,937	3330	-49.8	14.7	-27.8	17.6	14.4	19.2	-17.1	-5.3			
3310	5,838	2.48	12,183	6.87	2.24	3.83	48.8	0.46	735	3310	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	1,781,432	3.06	5,199,894	7.55	2.96	4.68	34.51	0.18	392,767	Total	1,688,618	3.08	5,865,854	7.38	2.87	4.51	35.8	373,998	Total	-8.8	-1.9	-2.6	-2.3	-2.9	-1.9	3.6	-5.8			

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

F8918 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
 - Assays clipped to 95th Percentile By Rock Type

Period: January 1 1989 to December 31 1989

XPb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	XPb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
	bcy	mt/bcy							
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	497	2.48	1,235	7.81	3.19	4.61	49.5	0.18	96
3850	249	2.94	732	9.60	3.79	5.01	49.2	0.11	78
3830	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3810	2,426	2.52	6,109	7.06	3.19	3.87	51.8	0.17	431
3790	4,812	2.44	9,804	5.59	2.43	3.17	41.2	0.15	549
3770	217	2.45	532	6.25	2.44	3.81	48.3	0.17	33
3750	93	2.34	219	5.65	1.82	3.03	36.6	0.29	12
3730	484	3.45	1,397	6.34	2.42	3.92	28.7	0.12	89
3710	17,589	2.92	51,158	6.47	2.49	3.99	36.8	0.12	3,315
3690	38,532	2.91	112,262	8.59	3.16	5.42	43.8	0.12	9,632
3670	40,888	2.96	118,758	7.64	2.83	4.81	34.2	0.13	9,873
3650	41,923	2.99	125,258	7.49	3.08	4.49	32.9	0.14	9,382
3630	79,585	3.02	240,288	7.35	2.99	4.36	38.2	0.16	17,655
3610	124,888	3.18	384,826	8.62	3.51	5.11	48.1	0.13	33,172
3590	188,943	3.02	570,827	9.51	3.83	5.68	49.7	0.14	51,319
3570	89,971	2.95	265,240	8.83	3.51	5.31	46.6	0.17	23,394
3550	68,824	3.17	218,329	7.87	3.22	4.65	38.4	0.13	17,182
3530	48,461	3.12	151,222	7.82	3.28	4.62	39.7	0.14	9,878
3510	5,668	3.25	18,373	8.49	3.86	5.44	25.1	0.11	1,562
3490	746	3.49	2,603	9.39	4.49	4.98	53.7	0.88	244
3470	5,971	3.28	19,578	8.26	3.49	4.76	39.7	0.85	1,615
3450	17,197	3.38	58,197	7.56	3.38	4.19	48.8	0.85	4,486
3430	217,728	3.36	730,835	8.79	3.53	5.26	36.9	0.87	64,248
3410	188,152	3.31	621,813	7.62	2.95	4.67	27.5	0.86	47,382
3390	155,156	3.84	595,800	6.66	2.47	4.19	26.8	0.86	31,396
3370	94,419	3.27	308,568	7.86	2.84	5.81	23.8	0.84	24,222
3350	74,732	3.88	288,447	7.78	2.67	5.84	24.1	0.84	17,385
3330	15,892	2.85	45,249	6.58	2.28	4.31	21.6	0.86	2,982
3310	4,665	2.41	11,228	6.19	2.28	3.98	41.2	0.45	693

Total 1,438,141 3.13 4,583,988 8.82 3.14 4.88 35.48 0.18 361,331

Blasthole Calculation

Period: January 1 1989 to December 31 1989

XPb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	%Zn	Ag g/mt	Metal
	bcy	mt/bcy						
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	4,148	3.88	12,444	9.72	4.11	5.61	54.8	1,218
3770	3,919	3.88	11,756	9.32	3.61	5.71	73.8	1,896
3750	0	0.00	0	0.00				0
3730	0	0.00	0	0.00				0
3710	11,372	3.88	34,117	9.93	3.34	6.59	55.9	3,388
3690	28,641	3.88	85,923	7.48	3.18	4.38	43.8	6,427
3670	47,516	3.88	142,548	8.28	3.32	4.96	51.2	11,883
3650	61,289	3.88	183,867	8.33	3.28	5.85	33.6	15,316
3630	88,965	3.88	242,894	8.28	3.87	5.13	36.8	19,917
3610	123,539	3.88	378,618	8.57	3.38	5.19	46.7	31,762
3590	122,618	3.88	367,829	8.45	3.39	5.86	58.6	31,882
3570	83,734	3.88	251,281	8.49	3.34	5.15	47.4	21,327
3550	54,319	3.88	162,958	8.26	3.33	4.93	39.1	13,468
3530	52,619	3.88	157,856	7.62	2.99	4.63	39.8	12,829
3510	13,327	3.88	39,988	7.29	2.69	4.68	24.6	2,915
3490	0	0.00	0	0.00				0
3470	0	0.00	0	0.00				0
3450	16,889	3.88	50,668	5.94	2.43	3.51	23.8	3,818
3430	198,944	3.88	572,832	7.62	3.87	4.55	37.4	43,658
3410	284,174	3.88	812,521	7.55	2.96	4.59	38.1	46,245
3390	131,839	3.88	395,517		2.74	4.67	31.9	29,388
3370	132,935	3.88	398,884		2.68	4.88	28.8	38,158
3350	57,886	3.88	173,417		2.63	4.84	17.3	12,954
3330	13,612	3.88	40,835		2.62	5.23	28.8	3,286
3310	0	0.00	0	0.00				0

Total 1,436,195 3.88 4,388,585 7.98 3.86 4.84 37.8 348,252

%VARIANCE (Blasthole-diluted model)/blasthole #188

Period: January 1 1989 to December 31 1989

XPb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	%Zn	Ag g/mt	Metal
	bcy	mt/bcy						
3950								
3910								
3890								
3870								
3850								
3830								
3810								
3790	3.3	18.5	21.2	42.5	48.9	43.5	23.7	54.6
3770	94.5	18.4	95.5	32.9	32.4	33.3	44.8	97.8
3750								
3730								
3710	-54.8	2.6	-49.9	34.8	25.4	39.5	34.2	2.1
3690	-34.5	2.9	-38.7	-14.8	-1.9	-23.7	1.7	-49.9
3670	15.6	1.3	16.7	7.7	14.8	3.8	33.2	23.1
3650	31.6	0.4	31.9	18.1	8.5	11.1	2.2	38.7
3630	1.7	-0.6	1.1	18.4	2.6	15.8	-3.7	11.4
3610	-8.4	-3.4	-3.8	-8.6	-3.8	1.5	-3.8	-4.4
3590	11.1	-8.8	18.5	-12.5	-13.8	-12.3	1.8	-8.8
3570	-7.4	1.7	-5.6	-4.8	-5.1	-3.1	1.6	-9.7
3550	-26.7	-5.7	-34.8	4.7	3.3	5.7	1.9	-27.7
3530	23.1	-4.1	28.8	-2.6	-7.8	8.2	-1.9	17.9
3510	57.5	-8.2	54.8	-16.5	-13.8	-18.3	-1.9	46.4
3490								
3470								
3450	-1.8	-12.8	-14.9	-27.3	-39.1	-19.4	-73.9	-46.4
3430	-14.8	-11.9	-27.6	-15.4	-15.8	-15.6	1.3	-47.2
3410	7.8	-18.2	-1.5	-8.9	8.3	-1.7	8.6	-2.5
3390	-17.7	-1.3	-19.2		9.9	18.3	18.5	-7.1
3370	29.8	-8.9	22.6		-6.8	-2.7	15.1	19.7
3350	-29.3	-8.1	-29.4		-1.5	-4.1	-39.3	-33.6
3330	-16.8	5.1	-18.8		13.8	17.6	-8.8	7.8
3310								

Total -8.1 -4.4 -4.5 -1.6 -2.7 -8.9 4.2 -6.2

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

F8910 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
 - Assays clipped to 95th Percentile By Rock Type

Blasthole Calculation

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

Period: January 1 1986 to December 31 1989

Period: January 1 1986 to December 31 1989

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 4%

%Pb+Zn Cutoff = 4%

%Pb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal	Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal	Bench	Volume bcy	Density mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3950	0	0.00	0					0	3950								
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	3910	0	0.00	0					0	3910								
3890	14,959	0.00	39,197	0.00	0.00	0.00	0.0	0.00	2,791	3890	14,727	3.00	44,180	7.00	3.10	4.70	NA	3,446	3890	-1.6	100.0	11.3	100.0	100.0	100.0		19.0
3870	24,196	0.00	64,059	0.00	0.00	0.00	0.0	0.00	4,405	3870	9,570	3.00	28,711	7.46	2.01	4.65	NA	2,142	3870	-152.0	100.0	-123.1	100.0	100.0	100.0		-109.4
3850	21,730	2.73	59,320	7.70	2.02	4.00	37.0	0.10	4,570	3850	9,850	3.00	29,549	6.24	2.41	3.03	NA	1,044	3850	-120.7	9.0	-100.0	-23.4	-17.1	-27.5		-147.9
3830	29,630	2.46	72,004	6.47	2.39	4.07	35.4	0.17	4,715	3830	33,049	3.00	101,547	6.77	2.66	4.11	NA	6,075	3830	12.4	10.0	20.2	4.4	10.0	0.9		31.4
3810	41,021	2.01	115,102	7.97	2.09	5.00	35.0	0.13	9,176	3810	41,292	3.00	123,076	7.07	2.90	4.09	NA	8,756	3810	0.7	6.5	7.1	-12.0	3.0	-24.3		-4.0
3790	63,560	2.99	190,257	8.61	3.04	5.57	33.6	0.09	16,309	3790	69,003	3.00	209,400	0.31	3.44	4.07	NA	17,397	3790	0.9	0.2	9.1	-3.7	11.5	-14.4		5.0
3770	96,192	2.92	281,172	6.92	2.41	4.51	29.2	0.14	19,457	3770	79,065	3.00	239,596	7.04	2.71	4.33	35.7	16,862	3770	-20.4	2.6	-17.4	1.7	11.0	-4.2	10.0	-15.4
3750	90,097	2.94	290,976	6.70	2.55	4.23	33.4	0.21	19,725	3750	91,354	3.00	274,062	7.00	2.79	4.21	39.2	19,104	3750	-0.3	1.9	-6.2	3.2	0.6	-0.5	14.0	-2.0
3730	103,203	2.92	301,245	6.79	2.63	4.16	36.5	0.15	20,464	3730	136,005	3.00	400,256	7.05	2.00	4.25	41.0	20,702	3730	24.1	2.0	26.2	3.6	6.0	2.1	12.7	20.9
3710	142,490	2.91	414,590	6.40	2.64	3.04	37.5	0.15	26,055	3710	124,762	3.00	374,207	7.11	2.71	4.40	30.6	26,621	3710	-14.2	3.0	-10.0	0.9	2.7	12.0	3.0	-0.9
3690	110,956	2.07	340,955	6.90	2.53	4.37	34.0	0.14	23,527	3690	115,904	3.00	347,711	6.69	2.56	4.12	34.0	23,247	3690	-2.6	4.5	1.9	-3.2	1.3	-6.0	-2.2	-1.2
3670	105,367	2.04	299,136	6.42	2.33	4.10	30.5	0.15	19,210	3670	86,114	3.00	250,342	7.35	2.07	4.47	42.6	10,977	3670	-22.4	5.4	-15.0	12.5	19.0	0.4	20.4	-1.3
3650	07,111	2.97	250,009	6.72	2.75	3.97	33.0	0.15	17,306	3650	66,001	3.00	190,002	0.14	3.19	4.95	33.2	16,122	3650	-32.0	1.0	-30.6	17.4	13.7	19.0	0.6	-7.0
3630	153,945	3.02	465,006	6.63	2.72	3.90	33.0	0.15	30,017	3630	100,141	3.00	540,423	6.90	2.65	4.33	30.2	37,716	3630	14.5	-0.7	14.0	5.0	-2.7	9.0	-9.3	10.3
3610	100,775	3.00	502,160	7.99	3.21	4.70	40.6	0.15	46,524	3610	101,263	3.00	543,709	0.12	3.11	5.02	39.4	44,164	3610	-4.1	-2.0	-7.1	1.6	-3.4	4.7	-3.0	-5.3
3590	206,473	3.02	622,535	0.04	3.15	4.09	30.1	0.14	50,033	3590	233,309	3.00	699,926	7.02	3.10	4.72	42.0	54,747	3590	11.5	-0.5	11.1	-2.0	-1.5	-3.6	11.0	0.6
3570	251,193	3.04	764,437	0.05	3.32	4.73	40.9	0.13	61,500	3570	255,464	3.00	766,392	7.07	3.33	4.54	47.5	60,294	3570	1.7	-1.4	0.3	-2.3	0.3	-4.1	13.9	-2.0
3550	300,509	3.16	975,270	7.95	3.40	4.55	42.1	0.10	77,554	3550	325,065	3.00	975,195	7.96	3.54	4.42	40.0	77,612	3550	5.1	-5.4	-0.0	0.1	4.0	-3.1	13.7	0.1
3530	300,691	3.16	1,203,660	0.09	3.40	4.61	44.3	0.12	97,390	3530	303,429	3.00	1,150,206	0.60	3.64	5.03	44.3	99,010	3530	0.7	-5.4	-4.6	6.0	4.5	0.4	0.0	2.4
3510	424,540	3.05	1,293,976	0.30	3.52	4.06	46.2	0.13	100,416	3510	453,040	3.00	1,359,144	9.07	3.79	5.20	51.1	123,312	3510	6.3	-1.6	4.0	7.7	7.3	7.9	9.6	12.1
3490	459,776	3.03	1,393,945	0.53	3.50	4.95	45.9	0.10	110,971	3490	492,126	3.00	1,476,379	9.30	3.90	5.40	49.6	137,322	3490	6.6	-1.1	5.6	0.2	0.1	0.3	7.5	13.4
3470	475,600	3.05	1,450,105	0.64	3.62	5.02	44.0	0.00	125,310	3470	447,433	3.00	1,342,299	9.01	3.76	5.25	51.1	121,004	3470	-6.3	-1.6	-0.0	4.1	3.0	4.4	12.2	-3.6
3450	397,026	3.13	1,243,204	0.20	3.42	4.70	40.5	0.07	101,945	3450	362,657	3.00	1,007,972	0.29	3.51	4.70	42.5	90,152	3450	-9.7	-4.2	-14.3	1.0	2.6	-0.1	4.0	-13.1
3430	312,052	3.30	1,031,225	0.71	3.40	5.24	30.0	0.07	89,041	3430	290,700	3.00	096,124	7.30	2.90	4.31	35.7	65,376	3430	-4.5	-10.2	-15.1	-19.4	-16.6	-21.4	-6.4	-37.4
3410	269,757	3.20	063,056	7.06	2.74	4.32	27.6	0.07	60,090	3410	201,644	3.00	044,931	7.10	2.02	4.20	20.5	59,970	3410	4.2	-6.6	-2.1	0.6	2.0	-0.9	3.3	-1.5
3390	195,959	3.01	509,371	6.47	2.43	4.04	26.4	0.06	30,154	3390	103,000	3.00	549,001	6.97	2.60	4.37	31.4	30,206	3390	-7.1	-0.3	-7.4	7.2	6.6	7.5	15.0	0.3
3370	117,277	3.10	362,995	7.35	2.66	4.69	24.3	0.05	26,600	3370	147,226	3.00	441,679	7.29	2.57	4.72	20.5	32,190	3370	20.3	-3.2	17.0	-0.0	-3.5	0.6	14.0	17.1
3350	70,062	2.97	234,299	7.56	2.62	4.94	24.1	0.05	17,713	3350	79,195	3.00	237,504	6.67	2.31	4.36	10.0	15,047	3350	0.3	1.1	1.4	-13.3	-13.4	-13.3	-33.7	-11.0
3330	37,071	2.56	94,915	5.40	1.05	3.63	22.9	0.14	5,201	3330	24,740	3.00	74,245	6.65	2.16	4.49	19.6	4,937	3330	-49.0	-14.7	-27.0	-17.6	-14.4	-19.2	-17.1	-5.3
3310	5,030	2.40	12,103	6.07	2.24	3.03	40.0	0.46	735	3310	0	0.00	0					0	3310								
Total	5,210,076	3.05	15,909,926	7.03	3.17	4.66	30.79	0.11	1,246,447	Total	5,207,632	3.00	15,622,096	0.02	3.27	4.75	NA	1,253,010	Total	-0.1	-1.0	-1.0	2.3	3.0	1.9	NA	0.5

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

F8910 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
- Assays clipped to 95th Percentile By Rock Type

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume Density bcy 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	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.00	0
3890	14,959	0.00	39,197	0.00	0.00	0.00	0.00	2,791
3870	16,110	0.00	45,060	0.00	0.00	0.00	0.00	3,600
3850	12,626	2.94	37,060	9.66	3.65	6.01	45.3	3,579
3830	24,537	2.50	61,294	6.80	2.54	4.34	36.5	4,219
3810	34,024	2.80	90,040	8.54	3.07	5.47	36.2	8,372
3790	52,039	3.11	164,312	9.24	3.24	6.00	34.5	15,181
3770	77,097	3.03	233,311	7.40	2.61	4.79	30.3	17,259
3750	81,917	3.02	247,504	7.10	2.71	4.47	33.9	17,766
3730	87,111	3.00	261,374	7.14	2.76	4.39	37.0	18,669
3710	120,791	2.94	354,721	6.77	2.72	4.05	38.7	24,020
3690	80,416	2.89	255,351	7.70	2.81	4.90	37.9	19,670
3670	77,439	2.89	224,010	7.05	2.50	4.47	32.7	15,796
3650	66,243	2.99	197,952	7.30	3.03	4.36	35.4	14,614
3630	114,043	3.05	347,643	7.33	3.01	4.31	36.4	25,477
3610	174,283	3.12	543,163	8.25	3.32	4.93	42.0	44,794
3590	181,282	3.06	555,427	8.47	3.35	5.12	40.4	47,045
3570	230,697	3.06	704,900	8.34	3.45	4.89	42.3	50,770
3550	292,679	3.16	924,873	8.13	3.49	4.64	43.4	75,232
3530	336,436	3.15	1,059,564	8.50	3.70	4.80	47.2	90,879
3510	382,711	3.02	1,157,537	8.05	3.69	5.16	48.4	102,442
3490	379,446	3.06	1,162,000	9.35	3.92	5.43	49.5	108,697
3470	407,966	3.06	1,247,531	9.31	3.90	5.41	47.0	116,179
3450	381,160	3.21	967,330	9.24	3.83	5.42	44.2	89,425
3430	286,831	3.35	960,944	9.02	3.61	5.42	38.9	86,710
3410	226,715	3.32	752,102	7.44	2.90	4.53	27.4	55,933
3390	173,909	3.06	532,171	6.66	2.50	4.16	26.0	35,455
3370	94,419	3.27	300,560	7.85	2.84	5.01	23.0	24,222
3350	74,732	3.00	224,447	7.71	2.67	5.04	24.1	17,305
3330	15,892	2.85	45,249	6.59	2.28	4.31	21.6	2,902
3310	4,665	2.41	11,220	6.10	2.20	3.90	41.2	693

Total 4,431,902 3.10 13,724,023 8.36 3.39 4.97 40.79 0.10 1,147,000

Blasthole Calculation

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench	Volume Density bcy 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	44,100	7.80	3.10	4.70	NA 3,446
3870	6,793	3.00	20,370	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 5,900
3810	33,200	3.00	99,040	7.60	3.19	4.41	NA 7,500
3790	65,500	3.00	196,764	8.40	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	200,249	7.71	3.11	4.60	43.0 16,056
3730	101,530	3.00	304,509	7.60	3.06	4.62	44.3 23,392
3710	102,675	3.00	300,025	7.61	2.95	4.66	40.0 23,430
3690	85,150	3.00	255,450	7.41	2.80	4.61	35.9 10,921
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	8.30	3.32	5.06	45.1 50,555
3570	227,109	3.00	681,320	8.33	3.51	4.82	46.7 56,729
3550	292,054	3.00	876,162	8.40	3.72	4.60	50.0 73,554
3530	359,346	3.00	1,070,039	8.95	3.74	5.20	45.0 96,452
3510	440,072	3.00	1,320,216	9.19	3.84	5.35	51.0 121,375
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	347,560	3.00	1,042,704	8.45	3.57	4.80	42.6 80,002
3430	254,590	3.00	763,770	7.70	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	452,107	7.39	2.76	4.63	30.9 33,433
3370	132,935	3.00	390,004	7.56	2.60	4.80	28.0 30,150
3350	57,006	3.00	173,417	7.47	2.63	4.04	17.3 12,954
3330	13,612	3.00	40,035	7.85	2.62	5.23	20.0 3,206
3310	0	0.00	0				

Total 4,627,755 3.00 13,003,265 8.44 3.44 5.00 NA 1,172,140

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

Period: January 1 1986 to December 31 1989

%Pb+Zn Cutoff = 5%

Bench (Toe)	Volume Density bcy mt/bcy	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Metal
3950							
3910							
3890		11.3	100.0	100.0	100.0		19.0
3870		-121.2	100.0	100.0	100.0		-105.9
3850	-28.2	2.2	-25.4	-54.0	-51.3	-56.9	-94.1
3830	10.1	16.7	25.2	5.7	0.9	3.7	29.4
3810	-2.2	3.9	1.8	-12.4	3.0	-24.1	-10.3
3790	19.4	-3.7	16.5	-0.9	7.2	-20.2	9.1
3770	-9.4	-0.9	-10.3	-0.1	0.0	-5.0	10.0
3750	-10.0	-0.7	-10.0	6.9	12.9	2.0	21.2
3730	14.2	-0.0	14.2	7.0	9.9	5.1	16.4
3710	-17.6	2.1	-15.2	11.0	7.7	13.0	5.2
3690	-3.0	3.7	0.0	-4.0	-0.2	-6.3	-5.6
3670	-6.3	3.6	-2.5	10.3	16.5	6.3	20.9
3650	-4.4	0.4	-4.0	10.9	6.9	13.5	-5.0
3630		-1.6	14.7	6.4	-2.0	12.0	-11.5
3610	-1.2	-3.9	-5.1	0.0	-4.7	4.2	-4.7
3590	9.8	-2.1	7.9	-1.0	-0.0	-1.2	10.2
3570	-1.6	-1.9	-3.5	-0.1	1.6	-1.5	9.3
3550	-0.2	-5.3	-5.6	3.1	6.1	0.7	14.6
3530	6.4	-5.0	1.7	4.1	1.2	6.3	-4.9
3510	13.0	-0.0	12.3	3.7	4.0	3.6	6.5
3490	17.4	-2.1	15.6	2.7	2.4	3.0	2.7
3470	0.5	-1.9	-1.4	0.0	0.4	1.1	9.2
3450	13.3	-7.1	7.2	-9.4	-7.2	-11.0	-3.7
3430	-12.7	-11.7	-25.0	-16.0	-14.1	-17.3	-4.2
3410	9.4	-10.6	-0.1	-0.3	0.9	-1.1	5.4
3390	-15.4	-2.0	-17.7	9.9	9.5	10.1	16.0
3370	29.0	-0.9	22.6	-3.0	-6.0	-2.7	15.1
3350	-29.3	-0.1	-29.4	-3.2	-1.5	-4.1	-39.3
3330	-16.0	5.1	-10.0	16.1	13.0	17.6	-0.0
3310							

Total 4.2 -3.2 1.1 0.9 1.5 0.6 NA 2.1

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

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

F8918 - Undiluted, Bench Composite Reserves
 - Assays clipped to 95th Percentile By Rock Type

F8918 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
 - Assays clipped to 95th Percentile By Rock Type

Period: Remaining as of January 1, 1998

Period: Remaining as of January 1, 1998

%Pb+Zn Cutoff = 5%

%Pb+Zn Cutoff = 5%

Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
	bcy	mt/bcy							
3950	0	0.00							0
3910	0	0.00							0
3090	0	0.00							0
3070	491	2.42	1,190	6.59	2.02	3.77	43.1	0.17	70
3050	0	0.00							0
3030	0	0.00							0
3010	0	0.00							0
3790	327	3.10	1,040	0.90	3.10	5.00	39.6	0.00	93
3770	1,015	3.13	3,100	5.53	2.12	3.41	30.3	0.00	176
3750	051	2.46	2,090	6.32	2.02	4.30	35.6	0.31	132
3730	557	2.32	1,290	5.99	2.02	3.96	32.2	0.04	77
3710	6,351	3.13	19,060	5.55	2.04	2.71	53.3	0.25	1,102
3690	10,730	3.19	34,260	6.21	2.45	3.76	30.6	0.14	2,120
3670	22,064	3.00	66,170	6.56	2.55	4.01	26.6	0.10	4,341
3650	72,151	2.75	198,570	7.00	2.51	4.49	23.3	0.16	13,900
3630	84,526	2.02	230,270	6.06	2.30	4.56	22.3	0.16	16,345
3610	92,939	2.09	260,390	6.96	2.40	4.55	24.6	0.16	10,653
3590	96,737	2.92	282,190	7.14	2.69	4.45	29.1	0.16	20,140
3570	164,926	2.94	485,010	7.33	2.74	4.59	30.4	0.13	35,551
3550	171,473	3.06	523,900	6.60	2.53	4.07	30.4	0.11	34,503
3530	214,325	3.02	646,120	7.59	2.96	4.62	36.0	0.14	40,976
3510	309,131	3.00	927,700	7.50	2.07	4.63	32.2	0.09	71,453
3490	312,535	3.15	904,970	7.69	2.92	4.77	32.0	0.09	75,744
3470	366,059	3.00	1,126,050	0.65	3.24	5.40	33.1	0.09	97,291
3450	202,540	3.13	604,360	0.32	3.09	5.23	31.2	0.09	73,579
3430	201,623	3.21	647,360	7.94	2.94	5.00	27.0	0.07	51,400
3410	135,627	3.15	427,050	7.57	2.79	4.70	27.0	0.00	32,320
3390	97,064	3.15	306,150	7.50	2.60	4.90	20.6	0.05	22,961
3370	107,400	2.91	312,470	0.10	2.79	5.40	22.0	0.07	25,591
3350	104,756	2.56	260,460	0.56	2.03	5.73	27.0	0.06	22,900
3330	72,773	2.51	182,950	9.03	2.94	6.09	20.3	0.04	16,520
3310	42,230	2.41	101,640	7.65	2.65	5.00	37.2	0.17	7,775
Total	2,971,224	3.02	8,965,770	7.74	2.06	4.00	30.2	0.10	693,907

Bench	Volume	Density	Tonnes	%Pb+Zn	%Pb	%Zn	Ag g/mt	Au g/mt	Metal
	bcy	mt/bcy							
3950	0	0.00		0.00	0.00	0.00	0.0	0.00	0
3910	0	0.00		0.00	0.00	0.00	0.0	0.00	0
3090	0	0.00		0.00	0.00	0.00	0.0	0.00	0
3070	467	2.42	1,131	6.59	2.02	3.77	43.1	0.17	74
3050	0	0.00		0.00	0.00	0.00	0.0	0.00	0
3030	0	0.00		0.00	0.00	0.00	0.0	0.00	0
3010	0	0.00		0.00	0.00	0.00	0.0	0.00	0
3790	311	3.10	900	0.90	3.10	5.00	39.6	0.00	89
3770	964	3.13	3,021	5.53	2.12	3.41	30.3	0.00	167
3750	009	2.46	1,906	6.32	2.02	4.30	35.6	0.31	125
3730	529	2.32	1,226	5.99	2.02	3.96	32.2	0.04	73
3710	6,033	3.13	18,067	5.55	2.04	2.71	53.3	0.25	1,047
3690	10,201	3.19	32,547	6.21	2.45	3.76	30.6	0.14	2,021
3670	20,961	3.00	62,062	6.56	2.55	4.01	26.6	0.10	4,124
3650	60,543	2.75	180,642	7.00	2.51	4.49	23.3	0.16	13,205
3630	80,300	2.02	226,357	6.06	2.30	4.56	22.3	0.16	15,520
3610	80,292	2.09	254,971	6.96	2.40	4.55	24.6	0.16	17,720
3590	91,900	2.92	260,001	7.14	2.69	4.45	29.1	0.16	19,141
3570	156,600	2.94	460,760	7.33	2.74	4.59	30.4	0.13	33,774
3550	162,900	3.06	497,701	6.60	2.53	4.07	30.4	0.11	32,054
3530	203,609	3.02	613,014	7.59	2.96	4.62	36.0	0.14	46,527
3510	293,674	3.00	905,065	7.50	2.07	4.63	32.2	0.09	67,000
3490	296,900	3.15	935,722	7.69	2.92	4.77	32.0	0.09	71,957
3470	347,756	3.00	1,069,740	0.65	3.24	5.40	33.1	0.09	92,426
3450	260,420	3.13	840,142	0.32	3.09	5.23	31.2	0.09	69,900
3430	191,541	3.21	614,992	7.94	2.94	5.00	27.0	0.07	40,030
3410	120,046	3.15	405,690	7.57	2.79	4.70	27.0	0.00	30,711
3390	92,211	3.15	290,043	7.50	2.60	4.90	20.6	0.05	21,013
3370	102,030	2.91	296,047	0.10	2.79	5.40	22.0	0.07	24,312
3350	99,510	2.56	255,037	0.56	2.03	5.73	27.0	0.06	21,031
3330	69,134	2.51	173,003	9.03	2.94	6.09	20.3	0.04	15,694
3310	40,119	2.41	96,550	7.65	2.65	5.00	37.2	0.17	7,307
Total	2,022,663	3.02	6,517,402	7.74	2.06	4.00	30.15	0.10	659,211

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

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

F8910 - Undiluted, Bench Composite Reserves
- Assays clipped to 95th Percentile By Rock Type

F8910 - Undiluted, 95% Mining Recovery, Bench Composite Reserves
- Assays clipped to 95th Percentile By Rock Type

Period: Remaining as of January 1, 1990

Period: Remaining as of January 1, 1990

XPb+Zn Cutoff = 4%

XPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	ZZn	Ag	g/mt	Au	g/mt	Metal
	bcy	mt/bcy									
3950	0	0.00									0
3910	0	0.00									0
3890	0	0.00									0
3870	491	2.42	1,190	6.59	2.82	3.77	43.1	0.17			78
3850	0	0.00									0
3830	0	0.00									0
3810	0	0.00									0
3790	327	3.18	1,040	8.98	3.18	5.88	39.6	0.00			93
3770	1,015	3.13	3,180	5.53	2.12	3.41	38.3	0.00			176
3750	1,997	2.52	5,040	5.24	1.84	3.48	34.7	0.26			264
3730	557	2.32	1,290	5.99	2.82	3.96	32.2	0.04			77
3710	10,036	3.11	33,670	5.17	2.64	2.53	46.2	0.26			1,741
3690	19,642	3.22	63,200	5.45	2.34	3.18	34.2	0.17			3,438
3670	30,576	2.96	90,520	6.88	2.38	3.78	25.4	0.18			5,431
3650	88,421	2.73	240,930	6.54	2.31	4.23	21.8	0.14			15,757
3630	111,927	2.79	312,130	6.29	2.11	4.18	21.1	0.14			19,633
3610	124,694	2.86	355,990	6.35	2.14	4.21	21.8	0.14			22,685
3590	135,668	2.86	388,460	6.48	2.38	4.82	26.9	0.15			24,861
3570	214,686	2.91	625,400	6.78	2.52	4.18	28.5	0.13			41,982
3550	246,636	3.02	743,770	5.99	2.27	3.71	27.2	0.18			44,477
3530	267,863	3.08	808,960	6.99	2.74	4.25	34.1	0.13			55,987
3510	369,282	3.05	1,126,590	7.83	2.69	4.34	38.5	0.08			79,199
3490	482,724	3.18	1,249,840	7.82	2.67	4.35	38.6	0.09			87,683
3470	412,821	3.06	1,268,790	8.28	3.89	5.11	32.8	0.08			183,385
3450	324,221	3.11	1,006,920	7.85	2.93	4.93	29.6	0.09			79,144
3430	236,127	3.18	758,830	7.46	2.76	4.71	26.2	0.07			56,887
3410	181,786	3.05	554,430	6.88	2.51	4.37	25.2	0.08			38,145
3390	131,633	3.03	398,960	6.77	2.33	4.44	28.2	0.06			27,818
3370	119,324	2.88	343,250	7.85	2.66	5.19	21.6	0.06			26,945
3350	187,448	2.56	274,870	8.47	2.88	5.68	27.5	0.06			23,389
3330	76,177	2.51	198,930	8.84	2.88	5.96	28.2	0.04			16,878
3310	44,456	2.41	106,980	7.51	2.68	4.91	36.6	0.18			8,828
Total	3,659,637	2.99	10,938,288	7.16	2.65	4.51	28.4	0.18			782,334

Bench	Volume	Density	Tonnes	XPb+Zn	XPb	ZZn	Ag	g/mt	Au	g/mt	Metal
	bcy	mt/bcy									
3950	0	0.00		0	0.00	0.00	0.0	0.00			0
3910	0	0.00		0	0.00	0.00	0.0	0.00			0
3890	0	0.00		0	0.00	0.00	0.0	0.00			0
3870	467	2.42	1,131	6.59	2.82	3.77	43.1	0.17			74
3850	0	0.00		0	0.00	0.00	0.0	0.00			0
3830	0	0.00		0	0.00	0.00	0.0	0.00			0
3810	0	0.00		0	0.00	0.00	0.0	0.00			0
3790	311	3.18	988	8.98	3.18	5.88	39.6	0.00			89
3770	964	3.13	3,021	5.53	2.12	3.41	38.3	0.00			167
3750	1,897	2.52	4,788	5.24	1.84	3.48	34.7	0.26			251
3730	529	2.32	1,226	5.99	2.82	3.96	32.2	0.04			73
3710	10,294	3.11	31,987	5.17	2.64	2.53	46.2	0.26			1,654
3690	18,668	3.22	60,840	5.45	2.34	3.18	34.2	0.17			3,266
3670	29,847	2.96	85,994	6.88	2.38	3.78	25.4	0.18			5,168
3650	84,888	2.73	228,884	6.54	2.31	4.23	21.8	0.14			14,969
3630	106,338	2.79	296,524	6.29	2.11	4.18	21.1	0.14			18,651
3610	118,459	2.86	338,191	6.35	2.14	4.21	21.8	0.14			21,475
3590	128,877	2.86	369,837	6.48	2.38	4.82	26.9	0.15			23,618
3570	203,951	2.91	594,138	6.78	2.52	4.18	28.5	0.13			39,887
3550	234,384	3.02	706,582	5.99	2.27	3.71	27.2	0.18			42,254
3530	253,718	3.08	768,912	6.99	2.74	4.25	34.1	0.13			53,188
3510	358,742	3.05	1,078,261	7.83	2.69	4.34	38.5	0.08			75,239
3490	382,588	3.18	1,186,588	7.82	2.67	4.35	38.6	0.09			83,298
3470	391,428	3.06	1,197,751	8.28	3.89	5.11	32.8	0.08			98,216
3450	388,818	3.11	956,574	7.85	2.93	4.93	29.6	0.09			75,187
3430	224,321	3.18	713,289	7.46	2.76	4.71	26.2	0.07			53,283
3410	172,696	3.05	526,789	6.88	2.51	4.37	25.2	0.08			36,238
3390	125,852	3.03	379,812	6.77	2.33	4.44	28.2	0.06			25,659
3370	113,358	2.88	326,888	7.85	2.66	5.19	21.6	0.06			25,598
3350	182,868	2.56	261,127	8.47	2.88	5.68	27.5	0.06			22,144
3330	72,369	2.51	181,384	8.84	2.88	5.96	28.2	0.04			16,834
3310	42,233	2.41	101,555	7.51	2.68	4.91	36.6	0.18			7,627
Total	3,476,655	2.99	10,383,766	7.16	2.65	4.51	28.41	0.18			743,218

