

KEY MODELLING PARAMETERS  
FOR FARO F8805, F8908, AND F8910  
PCMINE COMPUTER RESERVES

MODEL TYPE: PCMINE 3 DIMENSIONAL BLOCK MODEL

MODEL LIMITS: (LOCAL CO-ORDINATES)

TOP NORTHING:	40,017.68	TOP ELEVATION:	4,270 ft.
BOTTOM NORTHING:	35,492.20	BOTTOM ELEVATION:	3,090 ft.
LEFT EASTING:	20,000.00	NUMBER OF BENCHES:	50
RIGHT EASTING:	23,200.00	BENCH HEIGHT:	20 ft.

BLOCK MODEL DIMENSIONS:

WIDTH OF COLUMN:	25.0 ft.
WIDTH OF ROW:	35.35 ft.
HEIGHT OF BLOCK:	20.0 ft.

GEOLOGICAL INTERPRETATION:

BY S. CHEESEMAN, COMPLETED APRIL, 1988

MODELLING PARAMETERS

Faro F8805, F8908 and F8910 models utilize a block size of 35.36 feet along the deposit, 25 feet across the deposit and 20 feet in height. Rows of blocks are parallel to the geological cross-sections and normal to the structural grain of the deposit.

In cross-section the deposit can be divided into three approximately equal portions, a southwest part that dips  $12^\circ$  to the southwest, a central horizontal section and a northeast section that also dips roughly  $12^\circ$  to the southwest. To incorporate this dip change, each of these sections was interpolated in totally independent computer runs. The following table indicates areas interpolated for each portion of the deposit. Planes dividing the deposit into different parts are oriented vertically parallel to the geological long sections and go roughly along section 18+030 and 22+90.

Model Interpolation

	Row Start	Row End	Col. Start	Col. End	Bench Start	Bench End	Deposit Dip
Southwest	39	73	1	49	1	50	$12^\circ$ SW
Centre	39	73	49	77	1	50	0
Northeast	39	73	78	128	1	50	$12^\circ$ SW

Parameters interpolated into each block were density, %Pb, %Zn, g/t Ag., and g/t Au. The initial interpolation was completed in three passes with the search volume for suitable composites being increased with each pass. In

each succeeding pass only those blocks still containing 00 grade values were interpolated. Strict geology matching of rock types between blocks and composites was maintained for the F8805 model. The F8908 and F8910 models were more loosely defined to match all massive sulphide rock types (rock codes 40-70) and quartzite rock types (rock codes 20-30).

In the southwest and northeast parts of the deposit, the search ellipsoid was tilted 12° to the southwest to follow the layering of the deposit. The following table outlines the lengths of the primary axes for the search ellipsoid in the three passes.

**Search Volume Ellipsoid**

	NW-SE	NE-SW	VERTICAL
Pass 1	225 feet	150 feet	14 feet
Pass 2	225 feet	150 feet	37.5 feet
Pass 3	300 feet	200 feet	37.5 feet

**PCFINE Search Volume Parameters**

	HORIZONTAL FACTOR	VERTICAL FACTOR	MAXIMUM DISTANCE
Pass 1	0.6667	10.7	150 feet
Pass 2	0.6667	4.0	150 feet
Pass 3	0.6667	5.3	200 feet

A minimum of three composites was required to interpolate a block in the F8805 and F8908 models. A minimum of two composites is required to interpolate in the F8910 model. The maximum allowable number of composites is twenty for all models. There was no limit possible on the number of composites from a single drillhole. The flat ellipsoid search volume, however, precluded more than two composites from the same drillhole in the first pass.

Composite values were weighted by the inverse squared distance between the centre of the block and the centre of the composite.

**GRADE COMPOSITE TYPES:**

- F8805: Geology Composites
  - F8908: Bench Composites, Datum elevation = 4,270 ft.  
Bench (Interval) height = 20.0 ft.
  - F8910: Bench Composites, Datum elevation = 4,270 ft.  
Bench (Interval) height = 20.0 ft.
- Original drillhole assays were clipped to the 95th percentile for massive sulphide and quartzose ore types before compositing. Clipping values are included in the table below.

	%Pb	%Zn	Ag (g/mt)	Au (g/mt)	S.G.
<b>Massive Sulphide</b> (rock types 40-70)					
Number of Samples	2305	2308	2284	1177	2297
Mean Value	4.06	5.98	46.8	0.159	4.41
95th Percentile	7.94	12.05	108.0	0.590	5.22
Number of Samples Clipped	115	116	114	59	115
<b>Quartzose Sulphide</b> (rock types 20-30)					
Number of Samples	1900	1902	1864	999	1881
Mean Value	2.51	5.00	35.2	0.238	3.29
95th Percentile	5.87	10.27	84.9	0.832	4.17
Number of Samples Clipped	95	96	93	50	94

The sample population included all samples with %Pb+Zn greater than 3%.

CR\*geb  
February 14, 1990

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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.

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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.

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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**

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

F885 - 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

IPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	IPb+Zn	IPb	IZn	Ag g/mt	As g/mt	Metal
	bcy	mt/bcy							
3950	7,820	2.83	14,244	4.53	1.41	3.12	20.1	0.05	646
3910	1,134	2.84	2,320	5.88	1.49	3.59	22.6	0.09	110
3890	11,847	2.20	25,195	4.81	2.15	2.66	43.6	0.09	1,212
3870	16,381	2.26	37,887	5.88	2.34	2.75	42.8	0.09	1,885
3850	24,893	2.52	60,683	5.25	1.91	3.35	29.7	0.07	3,189
3830	19,332	2.37	45,761	8.37	2.99	5.39	39.6	0.09	3,834
3810	33,537	2.66	89,316	9.81	3.14	5.86	42.3	0.12	8,838
3790	65,418	2.85	186,780	8.92	3.15	5.76	35.8	0.18	16,433
3770	113,813	2.74	311,859	7.38	2.74	4.56	36.3	0.25	22,766
3750	120,345	2.72	327,378	7.93	3.89	4.84	38.5	0.25	25,952
3730	134,886	2.83	381,383	7.87	2.98	4.88	39.5	0.18	29,991
3710	128,886	2.69	346,438	6.45	2.58	3.94	37.4	0.16	22,299
3690	79,989	2.78	215,521	6.95	2.55	4.42	34.8	0.17	15,888
3670	50,362	2.67	134,596	6.86	2.55	4.31	32.6	0.13	9,226
3650	27,837	2.78	75,167	6.45	2.86	3.79	39.8	0.12	5,882
3630	58,876	2.89	147,167	7.81	2.87	4.14	28.3	0.17	18,315
3610	54,922	2.88	157,973	7.24	2.75	4.48	25.1	0.21	11,431
3590	74,948	2.85	213,337	6.93	2.68	4.33	28.8	0.19	14,778
3570	54,378	2.99	162,539	7.69	3.11	4.58	32.8	0.16	12,581
3550	98,542	2.95	298,897	8.46	3.53	4.94	48.5	0.11	24,628
3530	173,138	3.03	523,942	9.84	3.55	5.49	36.6	0.12	47,345
3510	248,899	2.94	707,868	8.85	3.59	5.27	42.3	0.13	62,672
3490	285,425	2.91	597,858	8.42	3.69	4.73	48.5	0.12	58,261
3470	162,493	2.72	441,868	6.85	2.89	3.96	34.2	0.18	38,288
3450	111,342	2.94	327,681	6.99	2.88	4.11	32.5	0.07	22,988
3430	76,867	3.07	233,158	8.78	3.55	5.15	41.8	0.04	28,284
3410	1,638	3.15	5,162	6.95	2.91	4.85	26.3	0.86	339
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	2,137,888	2.84	6,861,582	7.81	3.11	4.78	37.69	0.14	473,542

Blasthole Calculation

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	IPb+Zn	IPb	IZn	Ag g/mt	Metal
	bcy	mt/bcy						
3950	0	0.88	0	0	0	0	0	0
3910	0	0.88	0	0	0	0	0	0
3890	14,727	3.00	44,188	7.88	3.18	4.78	NA	3,446
3870	9,578	3.88	28,711	7.46	2.81	4.65	NA	2,142
3850	9,858	3.88	29,549	6.24	2.41	3.83	NA	1,844
3830	33,849	3.88	101,547	6.77	2.66	4.11	NA	6,875
3810	48,187	3.88	128,328	7.86	2.97	4.89	NA	8,495
3790	63,368	3.88	198,888	8.28	3.48	4.88	NA	15,739
3770	75,947	3.88	227,848	6.92	2.66	4.26	33.7	15,767
3750	91,354	3.88	274,862	7.88	2.79	4.21	39.2	19,184
3730	136,885	3.88	488,256	7.85	2.88	4.25	41.8	28,782
3710	113,398	3.88	348,178	6.83	2.65	4.18	36.9	23,234
3690	79,885	3.88	239,655	6.58	2.48	4.18	38.8	15,769
3670	37,725	3.88	113,175	6.25	2.34	3.91	32.1	7,873
3650	2,133	3.88	6,488	7.81	2.34	4.67	27.8	449
3630	76,298	3.88	228,893	6.41	2.52	4.89	24.9	15,138
3610	52,871	3.88	156,212	7.48	2.68	4.88	23.6	11,685
3590	82,881	3.88	248,484	7.54	2.78	4.76	29.7	18,738
3570	47,414	3.88	142,243	7.87	2.71	4.36	28.8	18,857
3550	99,858	3.88	299,549	7.78	3.21	4.57	38.5	23,385
3530	172,958	3.88	518,849	8.69	3.48	5.29	35.1	45,888
3510	231,387	3.88	693,922	9.25	3.88	5.45	46.4	64,188
3490	283,989	3.88	611,968	8.95	3.77	5.18	45.8	54,771
3470	148,273	3.88	444,818	8.54	3.56	4.98	43.8	37,987
3450	181,215	3.88	383,645	8.88	3.48	4.68	48.5	24,292
3430	66,668	3.88	288,885	8.88	3.37	4.71	36.5	16,168
3410	1,778	3.88	5,333	18.19	4.75	5.44	48.8	543
3390	0	0.88	0	0	0	0	0	0
3370	0	0.88	0	0	0	0	0	0
3350	0	0.88	0	0	0	0	0	0
3330	0	0.88	0	0	0	0	0	0
3310	0	0.88	0	0	0	0	0	0
Total	1,992,595	3.88	5,977,786	7.87	3.16	4.72	NA	478,733

IVARIANCE (Blasthole-diluted model)/blasthole #108

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	IPb+Zn	IPb	IZn	Ag g/mt	Metal
	bcy	mt/bcy						
3950	0	0.88	0	0	0	0	0	0
3910	0	0.88	0	0	0	0	0	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	-44.4
3750	-31.8	9.3	-19.5	-13.2	-18.8	-14.9	1.9	-35.3
3730	8.9	5.7	6.6	-11.7	-6.5	-14.9	5.7	-4.2
3710	-13.7	18.4	-1.8	5.6	5.7	5.8	-1.3	4.8
3690	-8.8	18.1	18.1	-5.7	-6.1	-5.7	-18.4	4.8
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	-1814.9
3630	33.3	3.6	35.7	-6.8	-14.8	-1.1	-13.6	31.8
3610	-5.5	4.1	-1.1	3.3	-5.9	8.2	-6.3	2.2
3590	9.5	5.1	14.1	8.1	6.5	9.1	5.8	21.1
3570	-14.7	8.4	-14.3	-8.8	-14.7	-5.1	-14.3	-24.3
3550	1.3	1.6	2.9	-8.8	-9.9	-8.8	-5.2	-5.6
3530	-8.1	-8.9	-1.8	-4.8	-4.3	-3.8	-4.3	-5.8
3510	-4.1	2.2	-1.9	4.3	5.5	3.3	8.9	2.4
3490	-8.7	3.1	2.4	5.9	2.1	8.7	-6.8	8.2
3470	-9.6	9.4	8.7	19.8	18.8	20.4	28.5	28.3
3450	-18.8	1.9	-7.9	12.6	15.2	18.7	19.7	5.7
3430	-14.1	-2.2	-16.6	-7.7	-5.5	-9.2	-14.7	-25.5
3410	7.8	-5.8	3.2	31.8	38.8	25.6	45.3	33.9
3390	0	0.88	0	0	0	0	0	0
3370	0	0.88	0	0	0	0	0	0
3350	0	0.88	0	0	0	0	0	0
3330	0	0.88	0	0	0	0	0	0
3310	0	0.88	0	0	0	0	0	0
Total	-7.3	5.5	-1.4	8.8	1.4	8.4	NA	-8.6

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 at/bcy

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	Zn	Ag	g/t	Au	g/t	Metal
3950	4,261	2.84	8,684	4.84	1.51	3.34	21.8	0.83		421	
3910	1,136	2.84	2,320	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	33,022	9.97	3.58	6.39	43.9	0.82		3,293	
3810	32,185	2.68	86,129	9.19	3.20	5.99	42.8	0.12		7,916	
3790	64,631	2.86	184,945	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	48.4	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	132,046	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	208,352	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	48.5	0.18		24,373	
3530	178,486	3.03	516,928	9.18	3.57	5.53	36.7	0.12		47,848	
3510	236,541	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	0.09		27,468	
3450	99,479	3.01	299,152	7.27	3.83	4.24	34.8	0.06		21,729	
3430	69,636	3.12	217,381	9.84	3.66	5.36	43.1	0.04		19,624	
3410	1,638	3.15	5,162	6.95	2.91	4.85	26.3	0.06		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

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	Zn	Ag	g/t	Au	g/t	Metal
3950	0	0.88	0	0	0	0	0	0		0	
3910	0	0.88	0	0	0	0	0	0		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	208,249	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	

IVARIANCE (blasthole-diluted model)/blasthole \*100

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	Zn	Ag	g/t	Au	g/t	Metal
3950	0	0.88	0	0	0	0	0	0		0	
3910	0	0.88	0	0	0	0	0	0		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	-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	38.3	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

FB885 - 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

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Au g/mt	Metal
3950	71 2.05	146 4.01	1.24	2.77	18.0	0.00
3910	35 2.07	73 4.81	1.47	3.34	21.5	0.10
3890	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3870	2,292 2.24	5,141 5.03	2.18	2.05	44.2	0.07
3850	2,543 2.24	5,706 6.00	2.50	3.50	55.5	0.36
3830	2,499 2.17	5,424 4.73	1.81	2.92	38.4	0.59
3810	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3790	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3770	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3750	220 2.85	627 9.90	3.74	6.25	53.0	0.30
3730	467 2.31	1,076 6.12	2.20	3.84	30.1	0.20
3710	3,088 2.30	7,116 4.96	1.85	3.11	30.3	0.20
3690	253 2.40	627 5.35	1.90	3.45	31.0	0.27
3670	214 2.15	460 5.59	1.64	3.95	26.5	0.14
3650	71 2.05	146 5.04	2.50	3.35	32.0	0.17
3630	362 2.40	899 4.55	1.35	3.21	12.3	0.00
3610	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3590	12,792 3.06	39,146 10.27	4.35	5.92	63.7	0.01
3570	83,655 2.92	244,091 10.33	4.54	5.79	61.9	0.20
3550	129,320 2.04	367,300 9.55	4.39	5.16	57.7	0.16
3530	101,137 2.05	516,711 0.75	4.05	4.70	60.0	0.15
3510	221,000 2.01	622,235 0.62	3.69	4.93	54.0	0.10
3490	301,503 2.76	831,663 9.20	3.80	5.40	40.3	0.06
3470	310,684 2.01	894,447 9.41	4.00	5.41	49.0	0.06
3450	291,062 2.04	827,974 0.10	3.36	4.73	43.1	0.06
3430	17,477 3.03	52,900 0.22	3.32	4.09	36.9	0.07
3410	51,016 3.07	150,924 6.67	2.63	4.05	26.7	0.06
3390	20,039 2.99	59,983 5.79	2.41	3.39	24.5	0.07
3370	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3350	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3330	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3310	0 0.00	0 0.00	0.00	0.00	0.0	0.00
Total	1,641,495 2.83	4,642,904 0.85	3.79	5.06	50.09	0.09

Blasthole Calculation

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Metal
3950	0 0.00	0 0.00	0	0.00	0
3910	0 0.00	0 0.00	0	0.00	0
3890	0 0.00	0 0.00	0	0.00	0
3870	0 0.00	0 0.00	0	0.00	0
3850	0 0.00	0 0.00	0	0.00	0
3830	0 0.00	0 0.00	0	0.00	0
3810	0 0.00	0 0.00	0	0.00	0
3790	0 0.00	0 0.00	0	0.00	0
3770	0 0.00	0 0.00	0	0.00	0
3750	0 0.00	0 0.00	0	0.00	0
3730	0 0.00	0 0.00	0	0.00	0
3710	0 0.00	0 0.00	0	0.00	0
3690	0 0.00	0 0.00	0	0.00	0
3670	0 0.00	0 0.00	0	0.00	0
3650	0 0.00	0 0.00	0	0.00	0
3630	0 0.00	0 0.00	0	0.00	0
3610	0 0.00	0 0.00	0	0.00	0
3590	7,969 3.00	23,906 9.53	5.10	4.43	74.0
3570	105,044 3.00	315,132 0.45	3.07	4.50	50.0
3550	149,373 3.00	448,110 0.50	4.09	4.49	62.1
3530	149,000 3.00	447,024 9.30	4.26	5.04	57.6
3510	200,414 3.00	625,242 0.99	3.06	5.13	50.1
3490	280,137 3.00	864,411 9.55	3.99	5.56	52.3
3470	299,160 3.00	897,401 9.25	3.06	5.39	55.1
3450	241,260 3.00	723,005 0.62	3.65	4.97	45.0
3430	0 0.00	0 0.00	0	0.00	0
3410	50,934 3.00	152,801 6.40	2.60	3.00	23.0
3390	27,112 3.00	81,336 6.65	2.62	4.03	24.0
3370	0 0.00	0 0.00	0	0.00	0
3350	0 0.00	0 0.00	0	0.00	0
3330	0 0.00	0 0.00	0	0.00	0
3310	0 0.00	0 0.00	0	0.00	0
Total	1,526,419 3.00	4,579,256 0.92	3.06	5.06	53.0

IVARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Metal
3950	0	0	0	0.00	0
3910	0	0	0	0.00	0
3890	0	0	0	0.00	0
3870	0	0	0	0.00	0
3850	0	0	0	0.00	0
3830	0	0	0	0.00	0
3810	0	0	0	0.00	0
3790	0	0	0	0.00	0
3770	0	0	0	0.00	0
3750	0	0	0	0.00	0
3730	0	0	0	0.00	0
3710	0	0	0	0.00	0
3690	0	0	0	0.00	0
3670	0	0	0	0.00	0
3650	0	0	0	0.00	0
3630	0	0	0	0.00	0
3610	0	0	0	0.00	0
3590	-60.5 -2.0	-63.7 -7.0	14.6	-33.6	13.9
3570	20.4 2.7	22.5 -22.2	-17.2	-26.4	-5.3
3550	13.4 5.3	18.0 -11.4	-7.4	-15.0	7.1
3530	-21.6 4.9	-15.6 6.0	5.0	6.7	-0.7
3510	-6.4 6.5	0.5 4.1	4.4	4.0	7.0
3490	-4.7 0.1	3.0 3.7	4.8	2.9	7.3
3470	-6.5 6.4	0.3 -1.7	-3.6	-0.4	9.6
3450	-20.6 5.2	-14.4 6.0	7.0	4.9	4.2
3430	0	0	0	0.00	0
3410	-1.7 -2.2	-4.0 -4.3	-1.0	-6.5	-0.4
3390	26.1 0.2	26.3 12.9	0.0	15.9	-1.9
3370	0	0	0	0.00	0
3350	0	0	0	0.00	0
3330	0	0	0	0.00	0
3310	0	0	0	0.00	0
Total	-7.5 5.7	-1.4 0.0	1.7 0.1	5.6	-0.6

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 at/bcy

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy-at/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Au g/mt	Metal
3950	0 0.00	0 0.00	0.00	0.00	0.0	0
3910	35 2.07	73 4.81	1.47	3.34	21.5	0.10
3890	0 0.00	0 0.00	0.00	0.00	0.0	0
3870	1,539 2.22	3,417 5.56	2.43	3.13	58.5	0.03
3850	2,115 2.26	4,786 6.39	2.56	3.83	58.3	0.42
3830	787 2.23	1,756 5.81	2.28	3.53	49.2	0.45
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	220 2.05	627 9.98	3.74	6.25	53.0	0.38
3730	467 2.31	1,076 6.12	2.28	3.84	38.1	0.28
3710	2,518 2.35	5,925 5.12	1.97	3.15	31.6	0.28
3690	253 2.48	627 5.35	1.98	3.45	31.8	0.27
3670	214 2.15	468 5.59	1.64	3.95	26.5	0.14
3650	71 2.05	146 5.84	2.58	3.35	32.8	0.17
3630	145 2.46	355 4.79	1.38	3.41	13.2	0.00
3610	0 0.00	0 0.00	0.00	0.00	0.0	0
3590	12,792 3.06	39,146 18.27	4.35	5.92	63.7	0.81
3570	81,525 2.94	239,754 18.45	4.68	5.85	62.6	0.28
3550	126,368 2.85	368,188 9.66	4.45	5.22	58.3	0.16
3530	179,515 2.86	512,834 8.78	4.86	4.72	68.3	0.15
3510	228,375 2.81	619,827 8.64	3.78	4.95	54.1	0.18
3490	283,732 2.77	785,265 9.58	3.93	5.57	49.5	0.86
3470	298,488 2.82	841,486 9.75	4.14	5.68	51.4	0.87
3450	235,471 2.98	781,268 8.83	3.72	5.18	46.3	0.87
3430	16,546 3.87	58,829 8.38	3.48	4.98	37.2	0.87
3410	46,888 3.14	146,778 6.89	2.73	4.16	26.9	0.86
3390	17,633 3.89	54,413 5.97	2.52	3.45	24.1	0.88
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	1,527,618 2.86	4,378,221 9.14	3.93	5.21	51.59	0.18

Blasthole Calculation

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy-at/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Metal
3950	0 0.00	0	0	0	0
3910	0 0.00	0	0	0	0
3890	0 0.00	0 0.00	0	0	0
3870	0 0.00	0 0.00	0	0	0
3850	0 0.00	0 0.00	0	0	0
3830	0 0.00	0 0.00	0	0	0
3810	0 0.00	0 0.00	0	0	0
3790	0 0.00	0 0.00	0	0	0
3770	0 0.00	0 0.00	0	0	0
3750	0 0.00	0 0.00	0	0	0
3730	0 0.00	0 0.00	0	0	0
3710	0 0.00	0 0.00	0	0	0
3690	0 0.00	0 0.00	0	0	0
3670	0 0.00	0 0.00	0	0	0
3650	0 0.00	0 0.00	0	0	0
3630	0 0.00	0 0.00	0	0	0
3610	0 0.00	0 0.00	0	0	0
3590	7,969 3.08	23,986 9.53	5.18	4.43	74.8
3570	99,488 3.08	298,464 8.65	3.97	4.68	54.1
3550	139,861 3.08	417,182 8.87	4.23	4.64	64.8
3530	145,248 3.08	435,745 9.38	4.38	5.88	58.8
3510	283,845 3.08	689,134 9.88	3.98	5.18	58.8
3490	278,347 3.08	811,842 9.85	4.11	5.74	53.5
3470	265,265 3.08	795,795 9.88	4.89	5.71	57.8
3450	234,325 3.08	782,975 8.73	3.69	5.84	45.1
3430	0 0.00	0 0.00	0	0	0
3410	44,415 3.08	133,245 6.67	2.78	3.97	22.9
3390	18,898 3.08	56,678 7.28	2.98	4.38	24.8
3370	0 0.00	0 0.00	0	0	0
3350	0 0.00	0 0.00	0	0	0
3330	0 0.00	0 0.00	0	0	0
3310	0 0.00	0 0.00	0	0	0
Total	1,428,853 3.08	4,284,158 9.19	3.97	5.21	54.8

IVARIANCE (Blasthole-diluted model)/blasthole \*100

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy-at/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Metal
3950	0	0	0	0	0
3910	0	0	0	0	0
3890	0	0	0	0	0
3870	0	0	0	0	0
3850	0	0	0	0	0
3830	0	0	0	0	0
3810	0	0	0	0	0
3790	0	0	0	0	0
3770	0	0	0	0	0
3750	0	0	0	0	0
3730	0	0	0	0	0
3710	0	0	0	0	0
3690	0	0	0	0	0
3670	0	0	0	0	0
3650	0	0	0	0	0
3630	0	0	0	0	0
3610	0	0	0	0	0
3590	-68.5	-2.8	-63.7	-7.8	14.6
3570	18.1	2.8	19.7	-28.8	-15.9
3550	9.1	5.8	13.7	-8.9	-5.1
3530	-23.6	4.8	-17.7	6.4	5.5
3510	-8.5	6.4	-1.6	4.9	5.1
3490	-5.8	7.7	3.2	3.6	4.4
3470	-12.5	6.8	-5.7	8.6	-1.1
3450	-8.5	8.7	8.2	-1.1	-8.8
3430	0	0	0	0	0
3410	-5.4	-4.5	-18.2	-3.3	-1.8
3390	6.7	-2.9	4.8	18.8	13.2
3370	0	0	0	0	0
3350	0	0	0	0	0
3330	0	0	0	0	0
3310	0	0	0	0	0
Total	-7.8	4.6	-2.8	8.5	1.1

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 at/bcy

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes	IPb+Zn	IPb	Zn	Ag g/at	Au g/at	Metal
3950	0 0.00	0	0.00	0.00	0.00	0.00	0.00	0
3910	0 0.00	0	0.00	0.00	0.00	0.00	0.00	0
3890	0 0.00	0	0.00	0.00	0.00	0.00	0.00	0
3870	251 2.21	554	4.20	1.91	2.36	37.0	0.17	24
3850	2,932 2.21	6,479	4.90	2.10	2.71	38.4	0.23	317
3830	142 2.06	293	4.33	1.71	2.61	36.6	0.82	13
3810	1,741 2.06	3,584	5.05	2.10	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	4.04	32.0	0.36	28
3730	4,410 2.51	11,887	4.71	1.76	2.95	25.0	0.14	522
3710	38,129 2.65	79,828	6.73	2.41	4.31	34.2	0.12	5,363
3690	52,075 2.87	149,425	9.48	3.60	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	74,530 2.75	285,154	6.58	2.57	4.01	29.2	0.19	13,583
3630	108,983 2.98	316,123	8.53	3.32	5.21	43.3	0.23	26,957
3610	158,720 2.95	443,885	9.87	3.80	5.27	53.0	0.13	48,272
3590	122,841 2.85	358,159	10.25	4.36	5.88	56.5	0.25	35,875
3570	183,792 2.83	293,791	9.54	3.89	5.65	47.5	0.25	28,817
3550	81,576 2.99	243,663	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	28,822	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 3.07	23,941	7.85	3.83	4.82	33.6	0.85	1,687
3450	33,486 3.06	182,556	6.25	2.76	3.49	34.8	0.85	1,414
3430	276,866 3.89	856,451	8.10	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	44,355
3390	186,499 2.79	528,838	6.61	2.44	4.17	26.6	0.14	34,423
3370	146,676 2.81	412,639	7.26	2.67	4.49	24.3	0.89	29,973
3350	91,482 2.84	259,191	6.88	2.34	4.56	20.9	0.85	17,625
3330	31,199 2.58	88,413	5.88	1.94	3.85	19.5	0.18	4,657
3310	6,883 2.22	13,522	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

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes	IPb+Zn	IPb	Zn	Ag g/at	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	0 0.00	0	0.00	0.00	0.00	0.00	0
3870	0 0.00	0	0.00	0.00	0.00	0.00	0
3850	0 0.00	0	0.00	0.00	0.00	0.00	0
3830	0 0.00	0	0.00	0.00	0.00	0.00	0
3810	1,185 3.00	3,556	7.35	3.36	3.99	58.0	261
3790	6,443 3.00	19,328	8.58	3.79	4.79	58.4	1,458
3770	3,919 3.00	11,756	9.32	3.61	5.71	73.0	1,896
3750	0 0.00	0	0.00	0.00	0.00	0.00	0
3730	0 0.00	0	0.00	0.00	0.00	0.00	0
3710	11,372 3.00	34,117	9.93	3.34	6.59	55.9	3,388
3690	36,819 3.00	188,856	6.92	2.92	4.88	41.1	7,477
3670	48,389 3.00	145,167	8.28	3.29	4.91	58.8	11,984
3650	63,867 3.00	191,682	8.18	3.22	4.96	33.4	15,673
3630	183,843 3.00	311,538	7.25	2.75	4.58	34.1	22,586
3610	129,192 3.00	387,577	8.38	3.31	5.87	45.8	32,479
3590	142,539 3.00	427,616	7.89	3.18	4.71	48.7	33,739
3570	183,886 3.00	389,817	7.64	3.86	4.58	44.9	23,689
3550	75,843 3.00	227,528	6.97	2.89	4.88	36.1	15,859
3530	61,471 3.00	184,413	7.13	2.83	4.38	38.8	13,149
3510	13,327 3.00	39,988	7.29	2.69	4.68	24.6	2,915
3490	0 0.00	0	0.00	0.00	0.00	0.00	0
3470	0 0.00	0	0.00	0.00	0.00	0.00	0
3450	28,174 3.00	88,522	5.73	2.39	3.34	23.2	3,468
3430	232,848 3.88	696,119	7.87	2.87	4.28	35.5	49,216
3410	228,932 3.88	686,797	7.23	2.85	4.38	29.6	49,655
3390	155,888 3.88	467,665	7.83	2.68	4.43	32.7	32,877
3370	147,226 3.88	461,679	7.29	2.57	4.72	28.5	32,198
3350	79,195 3.88	237,584	6.67	2.31	4.36	18.8	15,847
3330	24,748 3.88	74,245	6.65	2.16	4.49	19.6	4,937
3310	0 0.00	0	0.00	0.00	0.00	0.00	0
Total	1,688,618 3.00	5,845,854	7.38	2.87	4.51	35.8	373,998

IVARIANCE (Blasthole-diluted model)/blasthole \*100

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes	IPb+Zn	IPb	Zn	Ag g/at	Metal	
3950								
3910								
3890								
3870								
3850								
3830								
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								
3730								
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	-20.7	-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								
3470								
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								
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

FB885 - Diluted 10% with material grading 8% Pb+Zn, 95% Mining Recovery  
Geology Composites, Dilution Density = 2.5 at/bcy

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	Izn Ag g/at	Au g/at	Metal		
3950	0	0.00	0.00	0.00	0.00	0		
3910	0	0.00	0.00	0.00	0.00	0		
3890	0	0.00	0.00	0.00	0.00	0		
3870	0	0.00	0.00	0.00	0.00	0		
3850	2,290	5,110	5.23	2.24	2.99	38.5	0.27	267
3830	35	73	4.56	1.86	2.78	37.5	0.57	3
3810	997	2,100	6.03	2.40	3.63	43.7	0.15	127
3790	2,211	4,734	6.32	2.55	3.77	45.9	0.15	380
3770	143	314	7.52	2.94	4.57	52.0	0.21	24
3750	144	345	5.92	1.88	4.04	32.0	0.36	28
3730	731	2,086	7.10	2.91	4.19	38.5	0.21	142
3710	27,193	73,255	6.95	2.51	4.44	34.9	0.12	5,080
3690	47,159	139,027	9.91	3.79	6.12	50.9	0.15	13,776
3670	49,224	144,231	8.70	3.00	5.62	35.5	0.15	12,540
3650	57,972	167,482	7.16	2.85	4.33	30.5	0.20	12,013
3630	185,330	388,386	8.64	3.36	5.27	43.0	0.23	26,626
3610	147,637	436,894	9.15	3.04	5.32	53.4	0.13	39,996
3590	117,130	337,995	10.47	4.47	6.00	57.0	0.24	35,397
3570	183,872	292,098	9.57	3.91	5.66	47.6	0.25	27,962
3550	81,576	243,663	8.25	3.37	4.80	37.7	0.14	20,113
3530	51,273	152,434	7.17	2.95	4.23	31.6	0.15	10,934
3510	6,650	19,792	7.95	2.90	5.05	24.7	0.19	1,574
3490	898	2,947	9.47	4.40	5.07	49.7	0.00	279
3470	6,378	19,510	7.75	3.28	4.48	35.0	0.06	1,515
3450	29,108	89,734	6.52	2.89	3.63	36.0	0.05	5,849
3430	263,271	822,007	8.26	3.37	4.09	35.1	0.06	67,920
3410	194,308	597,395	7.48	2.94	4.55	27.5	0.07	44,750
3390	168,482	488,794	6.81	2.50	4.30	25.9	0.13	32,694
3370	126,610	368,425	7.68	2.79	4.01	23.0	0.09	28,000
3350	72,419	217,391	7.32	2.53	4.78	19.7	0.05	15,889
3330	17,680	50,526	6.83	2.32	4.51	17.4	0.05	3,450
3310	6,847	13,449	5.88	2.28	3.52	44.5	0.46	780
Total	1,685,898	4,992,838	8.17	3.24	4.94	36.32	0.13	400,045

Blasthole Calculation

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	Izn Ag g/at	Metal		
3950	0	0.00	0	0	0		
3910	0	0.00	0	0	0		
3890	0	0.00	0	0.00	0		
3870	0	0.00	0	0.00	0		
3850	0	0.00	0	0.00	0		
3830	0	0.00	0	0.00	0		
3810	0	0.00	0	0.00	0		
3790	4,148	12,444	9.72	4.11	5.61	54.0	1,210
3770	3,919	11,756	9.32	3.61	5.71	73.0	1,896
3750	0	0.00	0	0.00	0	0	0
3730	0	0.00	0	0.00	0	0	0
3710	11,372	34,117	9.93	3.34	6.59	55.9	3,380
3690	20,641	85,923	7.48	3.10	4.30	43.0	6,427
3670	47,516	142,548	8.28	3.32	4.96	51.2	11,803
3650	61,209	183,867	8.33	3.20	5.05	33.6	15,316
3630	80,965	242,894	8.20	3.07	5.13	36.0	19,917
3610	123,539	370,610	8.57	3.38	5.19	46.7	31,762
3590	122,610	367,829	8.45	3.39	5.06	50.6	31,082
3570	83,734	251,201	8.49	3.34	5.15	47.4	21,327
3550	54,319	162,958	8.26	3.33	4.93	39.1	13,460
3530	52,619	157,856	7.62	3.99	4.63	39.0	12,029
3510	13,327	39,980	7.29	2.69	4.60	24.6	2,915
3490	0	0.00	0	0.00	0	0	0
3470	0	0.00	0	0.00	0	0	0
3450	16,889	50,660	5.94	2.43	3.51	23.0	3,010
3430	190,944	572,832	7.62	3.07	4.55	37.4	43,650
3410	204,174	612,521	7.55	2.96	4.59	30.1	46,245
3390	131,039	395,517	7.41	2.74	4.67	31.9	29,380
3370	132,935	398,884	7.56	2.68	4.89	28.0	30,150
3350	57,086	173,417	7.47	2.63	4.84	17.3	12,954
3330	13,612	40,835	7.85	2.62	5.23	20.0	3,206
3310	0	0.00	0	0.00	0	0	0
Total	1,436,195	4,308,585	7.90	3.06	4.84	37.0	340,252

IVARIANCE (Blasthole-diluted model)/blasthole \*100

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	Izn Ag g/at	Metal			
3950	0	0.00	0	0	0			
3910	0	0.00	0	0	0			
3890	0	0.00	0	0	0			
3870	0	0.00	0	0	0			
3850	0	0.00	0	0	0			
3830	0	0.00	0	0	0			
3810	0	0.00	0	0	0			
3790	46.7	28.6	62.0	35.0	37.0	32.7	15.0	75.2
3770	96.4	26.8	97.3	19.3	18.7	19.9	27.6	97.9
3750	0	0.00	0	0	0	0	0	0
3730	0	0.00	0	0	0	0	0	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	8.9	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	3.8	8.1	-23.9	-31.9	-10.6	-14.2	-13.9
3570	-23.1	5.5	-16.3	-12.0	-17.0	-10.0	-8.6	-31.1
3550	-50.2	8.4	-49.5	0.1	-1.3	1.0	3.6	-49.4
3530	2.6	0.9	3.4	5.9	1.5	8.7	18.0	9.1
3510	50.1	0.8	50.5	-9.1	-7.0	-9.9	-8.4	46.0
3490	0	0.00	0	0	0	0	0	0
3470	0	0.00	0	0	0	0	0	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	4.8	-2.5	2.5	0.9	0.0	0.0	0.5	3.2
3390	-27.7	4.0	-21.6	8.1	8.0	7.9	18.0	-11.6
3370	4.0	3.0	7.6	-0.5	-4.1	1.5	18.0	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	0.00	0	0	0	0	0	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

FB885 - Diluted 102 with material grading 01 Pb+Zn, 951 Mining Recovery  
Geology Composites, Dilution Density = 2.5 mt/bcy

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	As g/mt	Metal		
3950	7,899	2.83	14,411	4.52	1.41	3.11	28.1	0.85	652
3910	1,172	2.84	2,393	5.87	1.49	3.58	22.6	0.89	121
3890	11,847	2.28	25,195	4.81	2.15	2.66	43.6	0.89	1,212
3870	18,923	2.26	42,782	5.86	2.31	2.75	42.2	0.89	2,167
3850	29,568	2.46	72,868	5.28	1.98	3.38	32.5	0.11	3,848
3830	21,972	2.34	51,477	7.97	2.86	5.11	39.5	0.15	4,185
3810	35,278	2.63	92,981	8.85	3.18	5.75	42.1	0.12	8,228
3790	78,192	2.79	195,958	8.73	3.18	5.63	36.8	0.18	17,114
3770	114,696	2.73	313,552	7.29	2.73	4.55	36.3	0.25	22,848
3750	128,729	2.72	328,349	7.93	3.89	4.84	38.5	0.25	24,835
3730	139,691	2.82	393,547	7.77	2.95	4.82	39.8	0.18	38,579
3710	162,183	2.67	433,382	6.46	2.47	3.99	36.7	0.15	28,814
3690	132,237	2.76	365,572	7.99	2.98	5.01	48.2	0.16	29,218
3670	189,891	2.73	388,828	7.55	2.71	4.83	33.5	0.14	22,644
3650	181,646	2.76	288,468	6.68	2.65	3.95	31.8	0.17	18,513
3630	168,141	2.98	464,189	8.84	3.17	4.87	38.5	0.21	37,313
3610	285,643	2.93	681,857	8.59	3.53	5.87	45.7	0.15	51,784
3590	218,582	2.86	682,641	9.87	3.74	5.33	46.9	0.21	54,675
3570	241,824	2.98	788,422	9.38	3.93	5.45	48.9	0.21	65,726
3550	389,446	2.91	981,948	8.85	3.84	5.81	46.8	0.14	79,835
3530	488,764	2.94	1,282,988	8.63	3.67	4.96	46.8	0.14	103,847
3510	469,431	2.87	1,349,325	8.74	3.63	5.11	47.4	0.12	117,883
3490	587,986	2.82	1,431,688	8.87	3.76	5.12	48.4	0.89	127,853
3470	488,968	2.78	1,368,256	8.54	3.62	4.92	44.5	0.88	116,134
3450	435,898	2.89	1,258,211	7.65	3.19	4.47	39.7	0.86	94,313
3430	378,489	3.88	1,142,589	8.22	3.35	4.87	36.3	0.86	93,922
3410	264,887	3.83	882,267	7.14	2.88	4.35	27.3	0.88	57,319
3390	286,539	2.81	588,821	6.53	2.43	4.89	26.4	0.13	37,982
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	88,413	5.79	1.94	3.85	19.5	0.18	4,657
3310	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

IPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Metal		
3950	0	0.00	0			0		
3910	0	0.00	0			0		
3890	14,727	3.88	44,188	7.88	3.18	4.78	NA	3,446
3870	9,578	3.88	28,711	7.46	2.81	4.65	NA	2,142
3850	9,858	3.88	29,549	6.24	2.41	3.83	NA	1,844
3830	33,849	3.88	181,547	6.77	2.66	4.11	NA	6,875
3810	41,292	3.88	123,876	7.87	2.98	4.89	NA	8,756
3790	69,883	3.88	289,488	8.31	3.44	4.87	NA	17,397
3770	79,865	3.88	239,596	7.84	2.71	4.33	35.7	16,862
3750	91,354	3.88	274,862	7.88	2.79	4.21	39.2	19,184
3730	136,885	3.88	488,256	7.85	2.88	4.25	41.8	28,782
3710	124,762	3.88	374,287	7.11	2.71	4.48	38.6	26,621
3690	115,984	3.88	347,711	6.69	2.56	4.12	34.8	23,247
3670	86,114	3.88	258,342	7.35	2.87	4.47	42.6	18,977
3650	66,881	3.88	198,882	8.14	3.19	4.95	33.2	16,122
3630	188,141	3.88	548,423	6.98	2.65	4.33	38.2	37,716
3610	181,263	3.88	543,789	8.12	3.11	5.82	39.4	44,164
3590	233,389	3.88	699,926	7.82	3.18	4.72	42.8	54,747
3570	255,464	3.88	766,392	7.87	3.33	4.54	47.5	68,294
3550	325,865	3.88	975,195	7.96	3.54	4.42	48.8	77,612
3530	383,429	3.88	1,158,286	8.68	3.64	5.83	44.3	99,818
3510	453,848	3.88	1,359,144	9.87	3.79	5.28	51.1	123,312
3490	492,126	3.88	1,476,379	9.38	3.98	5.48	49.6	137,322
3470	447,433	3.88	1,342,299	9.81	3.76	5.25	51.1	121,884
3450	362,657	3.88	1,087,972	8.29	3.51	4.78	42.5	98,152
3430	298,788	3.88	896,124	7.38	2.98	4.31	35.7	65,376
3410	281,644	3.88	844,931	7.18	2.82	4.28	28.5	59,978
3390	183,888	3.88	549,881	6.97	2.68	4.37	31.4	38,286
3370	147,226	3.88	441,679	7.29	2.57	4.72	28.5	32,198
3350	79,195	3.88	237,584	6.67	2.31	4.36	18.8	15,847
3330	24,748	3.88	74,245	6.65	2.16	4.49	19.6	4,937
3310	0	0.00	0					0
Total	5,287,632	3.88	15,622,896	8.82	3.27	4.75	NA	1,253,818

IVARIANCE (Blasthole-diluted model)/blasthole #188

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume bcy	Density mt/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Metal		
3950								
3910								
3890	25.8	24.8	43.8	38.3	38.8	43.3	64.8	
3870	-97.7	24.6	-49.8	32.1	17.7	48.8	-1.2	
3850	-288.2	17.9	-146.6	15.4	17.9	13.8	-188.7	
3830	35.1	21.9	49.3	-17.8	-7.5	-24.4	48.3	
3810	14.6	12.2	25.8	-25.2	-3.9	-48.7	6.1	
3790	-8.6	6.9	6.4	-5.1	9.8	-15.6	1.6	
3770	-43.6	8.9	-38.9	-3.5	-8.9	-5.2	-1.7	-35.5
3750	-32.2	9.3	-19.8	-13.3	-18.8	-14.9	1.8	-35.7
3730	-2.6	6.1	3.6	-18.2	-5.2	-13.5	6.6	-6.2
3710	-29.9	18.9	-15.8	9.1	8.9	9.3	5.1	-5.2
3690	-14.1	7.8	-5.1	-19.5	-16.2	-21.6	-18.2	-25.7
3670	-27.6	9.8	-16.1	-2.7	5.6	-8.1	21.5	-19.3
3650	-54.8	8.8	-41.6	18.9	16.9	28.2	4.1	-14.8
3630	11.1	3.4	14.1	-15.2	-19.6	-12.5	-27.3	1.1
3610	-13.4	2.4	-18.7	-5.8	-13.5	-1.8	-15.9	-17.1
3590	9.7	4.6	13.9	-16.8	-28.5	-13.8	-9.5	8.1
3570	5.3	3.5	8.6	-19.3	-18.2	-28.1	-3.8	-9.8
3550	4.8	2.8	7.5	-11.2	-8.4	-13.5	4.1	-2.9
3530	-6.6	1.9	-4.6	8.5	-8.8	1.4	-3.8	-4.8
3510	-3.6	4.2	8.7	3.7	4.4	3.2	7.2	4.4
3490	-3.2	6.8	3.8	4.6	3.7	5.3	2.5	7.5
3470	-9.3	7.3	-1.3	5.3	3.7	6.5	13.8	4.8
3450	-28.2	3.8	-15.6	7.6	9.1	6.5	6.7	-6.8
3430	-24.8	-2.8	-27.5	-12.7	-12.2	-13.8	-1.6	-43.7
3410	6.8	-1.8	5.8	-8.6	8.8	-3.6	4.3	4.4
3390	-12.9	6.3	-5.8	6.4	6.5	6.4	15.8	1.8
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	12.9	18.4	14.2	8.8	5.7
3310								
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

F8805 - 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

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Au g/mt	Metal			
3950	4,261	2.04	8,684	4.85	1.51	3.34	21.8	0.03	421
3910	1,172	2.04	2,393	5.07	1.49	3.50	22.6	0.09	121
3890	7,640	2.28	17,431	5.85	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	3.18	5.93	42.8	0.12	8,843
3790	66,842	2.84	189,699	8.98	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	186,181	2.77	294,282	8.36	3.27	5.88	39.7	0.24	24,588
3730	123,854	2.87	355,258	8.17	3.11	5.05	40.3	0.17	29,823
3710	158,374	2.78	486,638	6.62	2.55	4.07	37.4	0.15	26,914
3690	113,797	2.85	324,264	8.49	3.19	5.30	42.1	0.16	27,521
3670	98,786	2.88	276,737	7.84	2.84	5.88	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	50.1	0.08	123,556
3470	438,459	2.82	1,236,348	8.97	3.82	5.15	46.5	0.08	110,913
3450	364,858	2.99	1,098,154	8.28	3.46	4.74	42.1	0.06	89,417
3430	349,453	3.12	1,098,217	8.42	3.43	4.99	36.8	0.06	91,812
3410	242,746	3.09	749,328	7.37	2.98	4.47	27.4	0.07	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	23.0	0.09	28,888
3350	72,419	3.08	217,391	7.31	2.53	4.78	19.7	0.05	15,889
3330	17,688	2.86	58,526	6.83	2.32	4.51	17.4	0.05	3,458
3310	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

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Metal			
3950	0	0.00	0	0	0			
3910	0	0.00	0	0	0			
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	58,553
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	1,878,839	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	4.02	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	1,842,784	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	258,346	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	2.68	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	0.00	0	0	0	0	0	0

Total 4,427,755 3.88 13,883,265 8.44 3.44 5.88 NA 1,172,148

IVARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 5%

Bench (Toe)	Volume Density bcy mt/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Metal			
3950								
3910								
3890		68.5	35.3	27.9	48.2	74.5		
3870		-31.8	34.6	28.9	43.1	14.3		
3850	-13.3	13.6	2.1	-18.6	-18.6	-18.6		
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
3310								

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 at/bcy

Period: Remaining as of January 1, 1990

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	IZn	Ag g/at	Au g/at	Metal		
3950	0	0.00	0.00	0.00	0.0	0.00	0		
3910	0	0.00	0.00	0.00	0.0	0.00	0		
3890	0	0.00	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	2.87	3,271	10.23	4.07	6.15	63.7	0.52	335
3750	3,760	2.70	10,137	8.39	2.87	5.51	36.1	0.34	850
3730	5,847	2.87	16,762	6.66	3.21	3.45	51.6	0.28	1,117
3710	13,874	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	2.98	4.19	40.7	0.34	2,588
3670	6,816	2.70	18,977	6.59	2.75	3.84	35.8	0.32	1,251
3650	64,721	2.38	153,960	5.48	1.76	3.72	18.1	0.12	8,440
3630	77,863	2.54	197,975	6.72	2.83	4.68	21.5	0.17	13,282
3610	112,681	2.69	303,667	7.75	2.60	5.15	27.9	0.17	23,548
3590	97,649	2.71	264,155	7.95	2.82	5.14	24.5	0.13	21,812
3570	134,893	2.63	355,415	7.69	2.86	4.83	31.5	0.13	27,335
3550	145,628	2.76	402,388	7.83	3.00	4.82	33.7	0.11	31,459
3530	202,482	2.80	566,839	7.55	3.01	4.55	35.6	0.13	42,822
3510	275,826	2.84	781,869	8.13	3.15	4.97	37.2	0.13	63,545
3490	314,852	2.94	922,254	8.17	3.13	5.05	34.1	0.09	75,373
3470	364,584	2.88	1,021,979	8.36	3.04	5.33	32.5	0.09	85,475
3450	388,889	2.93	984,531	8.38	3.15	5.24	33.9	0.09	75,816
3430	289,281	2.97	622,141	8.08	2.97	5.83	27.4	0.08	49,771
3410	155,594	2.98	451,583	7.61	2.81	4.88	26.2	0.09	34,355
3390	184,186	3.01	313,521	9.39	3.25	6.15	24.6	0.08	29,442
3370	125,668	2.88	351,388	9.52	3.18	6.42	23.6	0.18	33,438
3350	183,438	2.44	252,854	8.82	2.85	5.97	27.5	0.18	22,249
3330	75,951	2.39	181,378	9.65	3.82	6.63	28.2	0.85	17,494
3310	58,618	2.28	115,661	7.45	2.58	4.96	38.5	0.28	8,632
Total	2,966,474	2.79	8,289,713	8.11	2.97	5.14	31.18	0.11	672,218

## 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 at/bcy

Period: Remaining as of January 1, 1990

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	IZn	Ag g/at	Au g/at	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	2.87	3,271	10.23	4.07	6.15	63.7	0.52	335
3750	4,976	2.58	12,833	7.48	2.56	4.92	35.9	0.32	968
3730	6,613	2.84	18,888	6.36	3.82	3.35	48.5	0.25	1,196
3710	14,727	2.95	43,583	6.16	2.85	3.31	51.5	0.21	2,681
3690	11,680	3.85	35,363	7.89	2.90	4.19	40.7	0.34	2,588
3670	12,138	2.45	29,738	5.64	2.21	3.43	28.2	0.25	1,676
3650	183,397	2.44	252,691	4.91	1.61	3.31	17.8	0.11	12,428
3630	114,696	2.51	287,898	5.87	1.78	4.89	28.1	0.13	16,987
3610	128,333	2.67	343,185	7.33	2.47	4.85	27.3	0.18	25,148
3590	146,851	2.68	393,296	6.68	2.42	4.26	24.8	0.14	26,279
3570	188,785	2.64	498,455	6.64	2.48	4.15	27.8	0.13	33,879
3550	211,213	2.74	578,873	6.67	2.53	4.15	28.2	0.12	38,573
3530	228,929	2.77	612,189	7.38	2.89	4.41	34.4	0.12	44,684
3510	319,889	2.78	888,762	7.64	2.94	4.78	35.3	0.12	67,869
3490	338,328	2.89	977,462	7.94	3.83	4.91	33.7	0.09	77,575
3470	399,579	2.78	1,110,919	8.82	2.98	5.12	31.2	0.09	89,875
3450	329,848	2.98	954,618	8.16	3.86	5.89	33.3	0.09	77,845
3430	223,458	2.94	655,947	7.88	2.89	4.91	26.9	0.08	51,164
3410	167,258	2.85	476,572	7.43	2.74	4.69	26.4	0.09	35,396
3390	142,528	2.78	395,686	8.32	2.84	5.48	25.2	0.13	32,987
3370	141,588	2.74	387,128	9.83	2.94	6.89	23.5	0.18	34,946
3350	119,451	2.41	288,896	8.23	2.63	5.59	26.2	0.89	23,676
3330	83,884	2.37	198,769	9.16	2.87	6.29	28.1	0.85	18,215
3310	52,812	2.28	118,722	7.38	2.47	4.91	38.5	0.28	8,764
Total	3,482,648	2.75	9,562,596	7.57	2.76	4.81	29.69	0.11	723,933

**F8908 PREDICTED RESERVES VS BLASTHOLES**

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

FB988 - Undiluted, Uncut, Bench Composite Reserves  
- 95% Mining Recovery

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	Zn	Ag g/mt	Au g/mt	Metal	
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	
3890	0	0.00	0.00	0.00	0.00	0.0	0.00	0	
3870	0	0.00	0.00	0.00	0.00	0.0	0.00	0	
3850	14,920	2.44	36,347	6.68	2.39	4.21	37.1	0.16	2,399
3830	26,831	2.44	63,555	6.97	2.52	4.45	36.4	0.20	4,438
3810	36,418	2.04	103,265	0.10	2.90	5.20	35.0	0.19	0,447
3790	57,535	3.04	176,054	0.97	3.15	5.03	33.4	0.10	15,810
3770	96,783	2.95	285,684	0.35	2.99	5.36	30.1	0.14	23,055
3750	103,220	2.97	306,432	7.65	2.04	4.00	35.4	0.20	23,411
3730	104,713	2.92	305,844	6.06	2.63	4.24	36.4	0.10	20,990
3710	122,160	2.90	354,512	4.65	2.70	3.07	40.6	0.13	23,575
3690	67,766	2.05	193,012	6.39	2.31	4.00	31.7	0.12	12,333
3670	43,384	2.03	122,845	6.13	2.21	3.92	29.6	0.10	7,530
3650	32,531	2.99	97,394	6.50	2.78	3.00	36.0	0.05	6,409
3630	53,740	3.15	169,243	6.41	2.65	3.76	27.9	0.09	10,040
3610	55,794	3.17	176,710	7.20	2.04	4.44	26.0	0.09	12,064
3590	76,505	3.10	236,949	6.65	2.45	4.20	23.7	0.07	15,757
3570	68,885	3.25	223,060	6.49	2.53	3.96	22.7	0.06	14,529
3550	100,196	3.30	356,507	7.35	2.07	4.47	31.3	0.04	26,160
3530	167,970	3.27	549,070	7.76	2.93	4.03	32.0	0.06	42,670
3510	219,096	3.11	681,977	0.67	3.56	5.11	41.9	0.07	59,127
3490	100,215	3.10	502,073	0.54	3.70	4.03	47.5	0.04	49,719
3470	160,568	2.97	477,575	7.29	3.06	4.23	39.7	0.04	34,015
3450	95,726	3.16	302,262	0.22	3.37	4.05	40.9	0.21	24,046
3430	59,244	3.34	197,971	9.66	3.82	5.03	50.9	0.74	19,104
3410	1,430	3.39	4,055	6.95	2.06	4.00	26.2	0.04	337
3390	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3370	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3350	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3330	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
3310	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
Total	1,960,039	3.06	6,005,397	7.66	3.03	4.63	36.30	0.12	459,901

Blasthole Calculation

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	Zn	Ag g/mt	Metal	
3950	0	0.00	0	0	0	0	0	
3910	0	0.00	0	0	0	0	0	
3890	14,727	3.00	44,100	7.00	3.10	4.70	NA	3,446
3870	9,570	3.00	28,711	7.46	2.81	4.65	NA	2,142
3850	9,050	3.00	29,549	6.24	2.41	3.03	NA	1,044
3830	33,849	3.00	101,547	6.77	2.66	4.11	NA	6,075
3810	40,107	3.00	120,320	7.06	2.97	4.09	NA	8,495
3790	63,360	3.00	190,000	0.20	3.40	4.00	NA	15,739
3770	75,947	3.00	227,040	6.92	2.66	4.26	33.7	15,767
3750	91,354	3.00	274,062	7.00	2.79	4.21	39.2	19,104
3730	136,005	3.00	400,256	7.05	2.00	4.25	41.0	20,702
3710	113,390	3.00	340,170	6.03	2.65	4.10	36.9	23,234
3690	79,005	3.00	239,655	6.50	2.40	4.10	30.0	15,769
3670	37,725	3.00	113,175	6.25	2.34	3.91	32.1	7,073
3650	2,133	3.00	6,400	7.01	2.34	4.67	27.0	449
3630	76,290	3.00	228,893	6.61	2.52	4.09	24.9	15,130
3610	52,071	3.00	156,212	7.40	2.60	4.00	23.6	11,605
3590	82,001	3.00	248,404	7.54	2.70	4.76	29.7	18,730
3570	47,414	3.00	142,243	7.07	2.71	4.36	20.0	10,057
3550	99,050	3.00	299,549	7.70	3.21	4.57	30.5	23,305
3530	172,950	3.00	510,049	0.69	3.40	5.29	35.1	45,000
3510	231,307	3.00	693,922	9.25	3.00	5.45	46.4	64,100
3490	203,909	3.00	611,960	0.95	3.77	5.10	45.0	54,771
3470	140,273	3.00	444,010	0.54	3.56	4.90	43.0	37,907
3450	101,215	3.00	303,645	0.00	3.40	4.60	40.5	24,292
3430	66,660	3.00	200,005	0.00	3.37	4.71	36.5	16,160
3410	1,770	3.00	5,333	10.19	4.75	5.44	40.0	543
3390	0	0.00	0	0	0	0	0	0
3370	0	0.00	0	0	0	0	0	0
3350	0	0.00	0	0	0	0	0	0
3330	0	0.00	0	0	0	0	0	0
3310	0	0.00	0	0	0	0	0	0
Total	1,992,595	3.00	5,977,706	7.07	3.16	4.72	NA	470,733

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

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	Zn	Ag g/mt	Metal	
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
3890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3870	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3850	-51.6	10.0	-23.0	-5.0	0.0	-9.9	-30.1	-30.1
3830	23.1	18.6	37.4	-3.0	5.3	-0.3	35.6	35.6
3810	9.2	5.5	14.2	-15.9	2.4	-29.1	0.6	0.6
3790	9.2	-2.0	7.4	-0.3	7.4	-19.5	-0.5	-0.5
3770	-27.4	1.6	-25.4	-20.7	-12.4	-25.0	10.0	-51.3
3750	-13.0	1.0	-11.0	-9.3	-1.0	-14.0	9.7	-22.0
3730	23.1	2.7	25.1	2.7	6.1	0.2	13.0	27.0
3710	-7.7	3.3	-4.2	2.6	-4.9	7.4	-10.0	-1.5
3690	15.2	5.1	19.5	2.9	3.7	2.4	-2.9	21.0
3670	-15.0	5.6	-0.5	1.9	5.6	-0.3	7.0	-6.5
3650	-1424.9	0.2	-1421.0	6.1	-10.0	10.6	-33.3	-1320.4
3630	29.6	-5.0	26.1	3.0	-5.2	0.1	-12.1	20.3
3610	-7.1	-5.6	-13.1	2.7	-9.2	9.0	-10.2	-10.1
3590	7.6	-3.2	4.6	11.0	11.9	11.0	20.3	15.9
3570	-45.3	-0.3	-57.4	0.2	6.6	9.2	10.9	-44.5
3550	-0.4	-9.8	-19.0	5.5	10.6	2.2	10.0	-12.3
3530	2.9	-9.1	-6.0	10.7	13.0	0.7	6.6	5.4
3510	5.3	-3.0	1.7	6.3	6.3	6.2	9.7	7.9
3490	7.7	-3.2	4.0	4.6	1.9	6.0	-3.7	9.2
3470	-0.3	0.9	-7.4	14.6	14.0	15.1	7.6	0.4
3450	5.4	-5.3	0.5	-2.0	0.9	-5.4	-0.9	-2.3
3430	11.1	-11.4	1.0	-19.6	-13.4	-23.0	-39.6	-10.2
3410	19.5	-13.1	9.0	31.0	39.0	25.0	45.4	30.0
3390	0	0.00	0	0	0	0	0	0
3370	0	0.00	0	0	0	0	0	0
3350	0	0.00	0	0	0	0	0	0
3330	0	0.00	0	0	0	0	0	0
3310	0	0.00	0	0	0	0	0	0
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

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

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 5X

Bench	Volume Density bcy at/bcy	Tonnes	IPb+Zn	IPb	Zn Ag g/at	Au g/at	Metal		
3950	0	0.00	0	0.00	0.00	0.0	0		
3910	0	0.00	0	0.00	0.00	0.0	0		
3890	0	0.00	0	0.00	0.00	0.0	0		
3870	0	0.00	0	0.00	0.00	0.0	0		
3850	14,920	2.44	36,347	6.60	2.39	4.21	37.1	0.16	2,399
3830	22,793	2.47	56,022	7.33	2.65	4.68	37.2	0.20	4,106
3810	30,020	2.91	89,528	8.71	3.07	5.64	35.0	0.21	7,798
3790	50,693	3.15	159,619	9.42	3.29	6.14	33.6	0.10	15,052
3770	83,721	3.03	253,603	8.02	3.19	5.63	30.0	0.13	22,368
3750	89,163	3.05	272,052	8.05	3.00	5.05	36.0	0.20	21,980
3730	90,656	2.97	269,525	7.17	2.73	4.44	36.9	0.10	19,325
3710	107,729	2.92	314,735	6.90	2.85	4.05	41.5	0.13	21,717
3690	50,200	2.87	144,267	7.09	2.57	4.51	34.6	0.13	10,214
3670	37,164	2.81	104,472	6.40	2.32	4.00	31.0	0.11	6,686
3650	24,250	2.99	72,405	7.27	3.09	4.10	40.2	0.04	5,270
3630	37,560	3.12	117,240	7.27	3.03	4.25	32.0	0.07	8,535
3610	50,010	3.17	160,902	7.54	2.96	4.50	27.0	0.09	12,132
3590	66,211	3.12	206,606	6.95	2.62	4.34	25.4	0.07	14,300
3570	62,160	3.26	202,616	6.70	2.64	4.06	24.0	0.06	13,575
3550	99,239	3.30	327,142	7.60	3.00	4.59	33.2	0.04	24,830
3530	143,090	3.28	460,939	8.32	3.13	5.10	35.0	0.05	30,969
3510	209,510	3.10	649,010	8.09	3.64	5.25	42.6	0.06	57,760
3490	150,670	3.13	496,679	9.23	3.99	5.24	50.0	0.04	45,043
3470	123,404	2.96	365,209	8.15	3.42	4.72	44.0	0.05	29,720
3450	80,052	3.20	284,639	8.45	3.40	4.96	42.4	0.22	24,024
3430	55,419	3.35	185,706	10.00	3.94	6.05	52.7	0.79	10,552
3410	1,360	3.39	4,636	7.05	2.91	4.15	26.4	0.04	327
3390	0	0.00	0	0.00	0.00	0.0	0	0.00	0
3370	0	0.00	0	0.00	0.00	0.0	0	0.00	0
3350	0	0.00	0	0.00	0.00	0.0	0	0.00	0
3330	0	0.00	0	0.00	0.00	0.0	0	0.00	0
3310	0	0.00	0	0.00	0.00	0.0	0	0.00	0
Total	1,690,450	3.09	5,242,775	8.12	3.21	4.91	30.19	0.12	425,490

Blasthole Calculation

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 5X

Bench	Volume Density bcy at/bcy	Tonnes	IPb+Zn	IPb	Zn Ag g/at	Au g/at	Metal	
3950	0	0.00	0	0.00	0.0	0	0	
3910	0	0.00	0	0.00	0.0	0	0	
3890	14,727	3.00	44,100	7.00	3.1	4.7	NA	3,446
3870	6,793	3.00	20,370	8.60	3.3	5.3	NA	1,753
3850	9,050	3.00	29,549	6.24	2.41	3.03	NA	1,044
3830	27,307	3.00	81,920	7.30	2.79	4.51	NA	5,900
3810	33,200	3.00	99,840	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	7.20	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	304,509	7.68	3.06	4.62	44.3	23,392
3710	91,303	3.00	273,908	7.32	2.9	4.42	30.9	20,050
3690	56,509	3.00	169,527	7.37	2.65	4.72	31.9	12,494
3670	25,320	3.00	75,983	7.07	2.67	4.4	36.2	5,372
3650	2,133	3.00	6,400	7.01	2.34	4.67	27.0	449
3630	54,946	3.00	164,830	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	90,674	3.00	296,022	7.00	3.21	4.59	30.6	23,000
3530	161,479	3.00	484,430	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	100,003	3.00	300,009	9.20	3.09	5.39	47.2	52,563
3470	144,939	3.00	434,010	8.64	3.59	5.05	43.2	37,560
3450	90,354	3.00	289,061	8.20	3.47	4.73	40.0	23,703
3430	63,646	3.00	190,930	8.25	3.43	4.82	37.0	15,752
3410	1,770	3.00	5,333	10.19	4.75	5.44	40.0	543
3390	0	0.00	0	0.00	0.0	0	0	0
3370	0	0.00	0	0.00	0.0	0	0	0
3350	0	0.00	0	0.00	0.0	0	0	0
3330	0	0.00	0	0.00	0.0	0	0	0
3310	0	0.00	0	0.00	0.0	0	0	0
Total	1,763,507	3.00	5,290,522	8.29	3.32	4.96	NA	430,355

IVARIANCE (Blasthole-diluted model)/blasthole \*100

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 5X

Bench	Volume Density bcy at/bcy	Tonnes	IPb+Zn	IPb	Zn Ag g/at	Au g/at	Metal
3950	0	0.00	0	0.00	0.0	0	0
3910	0	0.00	0	0.00	0.0	0	0
3890	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3870	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3850	-51.6	10.0	-23.0	-5.0	0.0	-9.9	-30.1
3830	16.9	17.7	31.6	-0.4	5.0	-3.0	31.3
3810	7.4	3.2	10.3	-14.6	3.0	-27.9	-2.0
3790	17.5	-5.0	13.4	-12.1	4.6	-24.0	2.0
3770	-25.8	-1.0	-27.0	-21.2	-14.3	-25.4	12.6
3750	-28.4	-1.7	-30.6	-4.4	3.5	-9.8	16.3
3730	10.7	0.9	11.5	6.6	10.0	3.9	16.0
3710	-10.0	2.6	-14.9	5.7	1.7	0.4	-6.7
3690	11.0	4.4	14.9	3.9	3.0	4.4	-0.5
3670	-46.7	6.3	-37.5	9.5	13.1	7.3	14.2
3650	-1037.1	0.4	-1032.6	-3.7	-32.1	10.5	-40.9
3630	31.6	-4.0	20.9	0.3	-11.0	6.0	-21.2
3610	-4.3	-5.5	-10.1	1.6	-12.1	0.0	-15.9
3590	6.0	-4.0	2.2	14.6	13.0	15.4	20.9
3570	-41.7	-0.6	-53.9	0.0	5.0	9.0	15.7
3550	-0.6	-9.9	-10.5	2.6	6.5	0.0	13.9
3530	11.4	-9.2	3.2	7.5	10.3	5.0	1.0
3510	6.3	-3.4	3.2	5.5	5.7	5.4	9.5
3490	16.0	-4.3	12.3	0.5	-2.6	2.0	-7.6
3470	14.9	1.4	16.0	5.7	4.7	6.5	-1.9
3450	7.0	-6.0	1.5	-5.0	-0.3	-4.9	-6.0
3430	12.9	-11.7	2.7	-21.2	-14.9	-25.5	-42.4
3410	23.0	-13.0	13.1	30.0	30.7	23.7	45.0
3390	0	0.00	0	0.00	0.0	0	0
3370	0	0.00	0	0.00	0.0	0	0
3350	0	0.00	0	0.00	0.0	0	0
3330	0	0.00	0	0.00	0.0	0	0
3310	0	0.00	0	0.00	0.0	0	0
Total	3.7	-2.9	0.9	2.0	3.4	1.1	NA

Faro Computer Model Ore Predictions vs Actual Blasthole Results By Bench

F8988 - Undiluted  
- 95% Mining Recovery

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Au g/mt	Metal
3950	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3910	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3890	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3870	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3850	2,395 2.38	5,691 5.12	1.04	3.28	32.0	0.14 291
3830	982 2.28	2,052 4.60	1.67	2.93	31.0	0.30 94
3810	124 2.45	304 4.84	1.75	3.09	34.0	0.16 15
3790	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3770	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3750	31 2.46	76 5.65	1.82	3.83	36.6	0.22 4
3730	373 2.37	884 5.80	2.05	3.75	37.2	0.07 51
3710	2,412 2.50	6,527 5.34	1.96	3.37	29.6	0.17 348
3690	217 2.62	570 5.90	2.09	3.81	30.8	0.12 34
3670	186 2.24	418 5.82	1.91	3.91	29.4	0.17 24
3650	62 2.15	133 6.04	2.62	3.42	35.8	0.72 0
3630	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3610	186 2.65	494 4.61	1.27	3.35	10.2	0.01 23
3590	6,313 2.99	10,896 6.26	2.19	4.07	34.2	0.03 1,183
3570	81,792 2.98	243,865 8.78	3.69	5.09	49.6	0.10 21,411
3550	120,697 3.04	367,099 8.19	3.55	4.64	55.2	0.07 30,865
3530	169,360 3.05	516,943 8.24	3.61	4.63	60.0	0.09 42,596
3510	210,078 2.99	628,625 8.14	3.50	4.64	52.4	0.06 51,170
3490	255,017 3.01	760,531 8.84	3.60	5.16	40.0	0.04 67,930
3470	311,617 3.07	957,980 9.55	4.02	5.53	44.0	0.03 91,407
3450	277,191 3.08	853,281 8.53	3.60	4.93	42.0	0.03 72,785
3430	15,269 3.10	48,583 8.12	3.28	4.04	39.3	0.21 3,945
3410	45,406 3.34	151,468 6.25	2.53	3.72	26.7	0.03 9,467
3390	10,753 3.25	60,962 6.73	2.72	4.02	25.9	0.03 4,109
3370	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3350	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3330	0 0.00	0 0.00	0.00	0.00	0.0	0.00
3310	0 0.00	0 0.00	0.00	0.00	0.0	0.00
Total	1,518,591 3.05	4,633,378 8.57	3.63	4.94	47.86	0.05 397,049

Blasthole Calculation

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Metal
3950	0 0.00	0 0.00	0.00	0.00	0
3910	0 0.00	0 0.00	0.00	0.00	0
3890	0 0.00	0 0.00	0.00	0.00	0
3870	0 0.00	0 0.00	0.00	0.00	0
3850	0 0.00	0 0.00	0.00	0.00	0
3830	0 0.00	0 0.00	0.00	0.00	0
3810	0 0.00	0 0.00	0.00	0.00	0
3790	0 0.00	0 0.00	0.00	0.00	0
3770	0 0.00	0 0.00	0.00	0.00	0
3750	0 0.00	0 0.00	0.00	0.00	0
3730	0 0.00	0 0.00	0.00	0.00	0
3710	0 0.00	0 0.00	0.00	0.00	0
3690	0 0.00	0 0.00	0.00	0.00	0
3670	0 0.00	0 0.00	0.00	0.00	0
3650	0 0.00	0 0.00	0.00	0.00	0
3630	0 0.00	0 0.00	0.00	0.00	0
3610	0 0.00	0 0.00	0.00	0.00	0
3590	7,969 3.00	23,906 9.33	5.10	4.43	74.0 2,270
3570	105,044 3.00	315,132 8.45	3.07	4.50	58.0 26,629
3550	149,373 3.00	448,110 8.50	4.09	4.49	62.1 38,449
3530	149,080 3.00	447,024 9.30	4.26	5.04	57.6 41,573
3510	200,414 3.00	625,242 8.99	3.86	5.13	50.1 56,209
3490	280,137 3.00	864,411 9.55	3.99	5.56	52.3 82,551
3470	299,160 3.00	897,401 9.25	3.86	5.39	55.1 83,017
3450	241,268 3.00	723,005 8.62	3.65	4.97	45.0 62,392
3430	0 0.00	0 0.00	0.00	0.00	0
3410	50,934 3.00	152,001 6.40	2.60	3.80	23.0 9,779
3390	27,112 3.00	81,336 6.65	2.62	4.03	24.0 5,409
3370	0 0.00	0 0.00	0.00	0.00	0
3350	0 0.00	0 0.00	0.00	0.00	0
3330	0 0.00	0 0.00	0.00	0.00	0
3310	0 0.00	0 0.00	0.00	0.00	0
Total	1,526,419 3.00	4,579,256 8.92	3.86	5.06	53.0 488,206

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

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Metal
3950	0 0.00	0 0.00	0.00	0.00	0
3910	0 0.00	0 0.00	0.00	0.00	0
3890	0 0.00	0 0.00	0.00	0.00	0
3870	0 0.00	0 0.00	0.00	0.00	0
3850	0 0.00	0 0.00	0.00	0.00	0
3830	0 0.00	0 0.00	0.00	0.00	0
3810	0 0.00	0 0.00	0.00	0.00	0
3790	0 0.00	0 0.00	0.00	0.00	0
3770	0 0.00	0 0.00	0.00	0.00	0
3750	0 0.00	0 0.00	0.00	0.00	0
3730	0 0.00	0 0.00	0.00	0.00	0
3710	0 0.00	0 0.00	0.00	0.00	0
3690	0 0.00	0 0.00	0.00	0.00	0
3670	0 0.00	0 0.00	0.00	0.00	0
3650	0 0.00	0 0.00	0.00	0.00	0
3630	0 0.00	0 0.00	0.00	0.00	0
3610	0 0.00	0 0.00	0.00	0.00	0
3590	20.8 0.2	21.8 34.3	57.1 0.1	53.8 40.1	40.1
3570	22.1 -0.6	22.6 -3.9	4.7 -11.1	15.7 19.6	19.6
3550	19.2 -1.4	18.1 4.5	13.2 -3.3	11.1 21.8	21.8
3530	-13.7 -1.7	-15.6 11.4	15.3 0.1	-5.6 -2.5	-2.5
3510	-0.0 0.3	-0.5 9.5	9.3 9.6	9.8 9.8	9.8
3490	11.5 -0.5	11.1 7.4	7.0 7.2	8.3 17.7	17.7
3470	-4.2 -2.5	-6.7 -3.2	-4.1 -2.6	10.7 -10.2	-10.2
3450	-14.9 -2.6	-17.9 1.0	1.4 0.0	4.0 -16.7	-16.7
3430	0 0.00	0 0.00	0.00	0.00	0
3410	10.9 -11.2	0.9 2.3	2.7 2.1	-16.2 3.2	3.2
3390	30.0 -0.4	25.0 -1.2	-3.0 0.2	-7.9 24.0	24.0
3370	0 0.00	0 0.00	0.00	0.00	0
3350	0 0.00	0 0.00	0.00	0.00	0
3330	0 0.00	0 0.00	0.00	0.00	0
3310	0 0.00	0 0.00	0.00	0.00	0
Total	0.5 -1.7	-1.2 3.9	6.0 2.3	9.0 2.0	2.0

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

IPb+Zn Cutoff = 51

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	I Zn Ag g/mt	As g/mt	Metal		
3950	0	0	0.00	0.00	0.00	0.0	0.00		
3910	0	0	0.00	0.00	0.00	0.0	0.00		
3890	0	0	0.00	0.00	0.00	0.0	0.00		
3870	0	0	0.00	0.00	0.00	0.0	0.00		
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	2.28	779	5.95	2.04	3.91	36.8	0.06	46
3710	2,239	2.54	5,681	5.45	2.83	3.42	38.2	0.17	310
3690	217	2.62	570	5.90	2.09	3.81	38.8	0.12	34
3670	186	2.24	410	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	9
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	3.84	12,968	6.98	2.48	4.42	38.1	0.03	895
3570	79,180	2.99	236,978	8.98	3.74	5.15	58.2	0.18	21,867
3550	128,448	3.84	366,328	8.19	3.55	4.64	55.3	0.07	38,882
3530	161,984	3.84	492,589	8.42	3.69	4.73	62.6	0.09	41,469
3510	169,493	2.95	508,413	9.89	3.86	5.23	58.3	0.07	45,487
3490	212,668	3.85	648,423	9.66	4.81	5.65	51.7	0.05	62,638
3470	287,359	3.88	884,517	9.96	4.19	5.78	46.3	0.03	88,186
3450	199,225	3.28	636,888	9.91	4.17	5.74	48.7	0.03	63,115
3430	12,968	3.28	42,484	8.65	3.51	5.14	48.9	0.22	3,675
3410	37,258	3.48	126,673	6.55	2.67	3.89	26.8	0.04	8,310
3390	18,388	3.25	59,668	6.77	2.72	4.85	25.9	0.03	4,839
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	1,387,829	3.87	4,819,374	9.19	3.88	5.31	51.85	0.05	369,524

Blasthole Calculation

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 51

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	I Zn Ag g/mt	Metal		
3950	0	0.00	0	0.00	0	0		
3910	0	0.00	0	0.00	0	0		
3890	0	0.00	0	0.00	0	0		
3870	0	0.00	0	0.00	0	0		
3850	0	0.00	0	0.00	0	0		
3830	0	0.00	0	0.00	0	0		
3810	0	0.00	0	0.00	0	0		
3790	0	0.00	0	0.00	0	0		
3770	0	0.00	0	0.00	0	0		
3750	0	0.00	0	0.00	0	0		
3730	0	0.00	0	0.00	0	0		
3710	0	0.00	0	0.00	0	0		
3690	0	0.00	0	0.00	0	0		
3670	0	0.00	0	0.00	0	0		
3650	0	0.00	0	0.00	0	0		
3630	0	0.00	0	0.00	0	0		
3610	0	0.00	0	0.00	0	0		
3590	7,969	3.88	23,986	9.53	5.18	4.43	74.8	2,278
3570	99,488	3.88	298,464	8.65	3.97	4.68	54.1	25,817
3550	139,861	3.88	417,182	8.87	4.23	4.64	64.8	37,884
3530	145,248	3.88	435,745	9.38	4.38	5.88	58.8	48,873
3510	283,845	3.88	689,134	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	0	0	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	0	0	0
3350	0	0.00	0	0.00	0	0	0	0
3330	0	0.00	0	0.00	0	0	0	0
3310	0	0.00	0	0.00	0	0	0	0
Total	1,428,853	3.88	4,284,158	9.19	3.97	5.21	54.8	393,548

IVARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 51

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	I Zn Ag g/mt	Metal		
3950	0	0.00	0	0.00	0	0		
3910	0	0.00	0	0.00	0	0		
3890	0	0.00	0	0.00	0	0		
3870	0	0.00	0	0.00	0	0		
3850	0	0.00	0	0.00	0	0		
3830	0	0.00	0	0.00	0	0		
3810	0	0.00	0	0.00	0	0		
3790	0	0.00	0	0.00	0	0		
3770	0	0.00	0	0.00	0	0		
3750	0	0.00	0	0.00	0	0		
3730	0	0.00	0	0.00	0	0		
3710	0	0.00	0	0.00	0	0		
3690	0	0.00	0	0.00	0	0		
3670	0	0.00	0	0.00	0	0		
3650	0	0.00	0	0.00	0	0		
3630	0	0.00	0	0.00	0	0		
3610	0	0.00	0	0.00	0	0		
3590	46.5	-1.5	45.8	27.6	51.4	0.2	48.5	68.7
3570	28.4	8.2	28.6	-2.9	5.8	-18.8	7.2	18.4
3550	13.4	-1.4	12.2	7.7	16.1	8.8	13.6	18.9
3530	-11.5	-1.4	-13.8	18.2	14.2	6.9	-7.9	-1.5
3510	16.5	1.6	17.8	-8.1	1.8	-1.8	8.8	17.8
3490	21.3	-1.6	28.1	1.9	2.4	1.6	3.3	21.6
3470	-8.3	-2.6	-11.1	-1.6	-2.4	-1.2	19.9	-13.1
3450	15.8	-6.6	9.4	-13.5	-13.8	-13.9	-8.8	-2.8
3430	0	0.00	0	0.00	0	0	0	0
3410	16.1	-13.3	4.9	1.8	1.1	2.8	-17.3	6.5
3390	2.7	-8.2	-5.3	7.8	6.2	7.5	-7.9	2.1
3370	0	0.00	0	0.00	0	0	0	0
3350	0	0.00	0	0.00	0	0	0	0
3330	0	0.00	0	0.00	0	0	0	0
3310	0	0.00	0	0.00	0	0	0	0
Total	8.4	-2.4	6.2	-8.1	2.3	-1.9	5.4	6.1

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

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

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 4%

Blasthole Calculation

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 4%

ZVARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/at	Ag g/at	Metal
3950	0	0.00	0.00	0.00	0.00	0
3910	0	0.00	0.00	0.00	0.00	0
3890	0	0.00	0.00	0.00	0.00	0
3870	0	0.00	0.00	0.00	0.00	0
3850	2,332	5,453	4.70	1.69	3.01	29.7
3830	186	418	4.34	1.85	2.49	34.7
3810	3,670	8,493	5.57	2.59	2.99	51.0
3790	6,033	13,870	5.41	2.31	3.10	46.6
3770	591	1,387	5.36	2.80	3.29	42.0
3750	93	219	5.65	1.82	3.83	36.6
3730	1,120	3,882	5.33	1.93	3.40	28.9
3710	22,783	64,386	6.18	2.37	3.81	35.7
3690	51,595	158,898	7.88	2.95	4.93	41.5
3670	61,328	173,755	6.86	2.43	4.43	31.5
3650	55,877	161,966	7.80	2.79	4.22	31.5
3630	101,449	380,267	6.85	2.79	4.06	36.3
3610	132,795	486,733	8.27	3.46	4.81	47.9
3590	119,921	355,272	8.82	3.78	5.86	49.6
3570	96,898	283,727	8.75	3.55	5.21	49.2
3550	72,680	231,202	7.93	3.25	4.88	38.5
3530	45,313	142,472	7.52	3.18	4.42	38.7
3510	5,660	18,354	8.56	3.86	5.51	25.2
3490	746	2,565	18.51	4.98	5.54	68.0
3470	7,868	26,848	7.31	3.17	4.13	37.3
3450	38,695	103,873	6.41	2.99	3.42	34.5
3430	232,563	769,652	8.88	3.36	4.64	35.1
3410	223,481	789,983	7.21	2.79	4.42	28.0
3390	176,583	528,839	6.45	2.41	4.84	28.1
3370	113,824	353,784	7.84	2.69	4.35	24.7
3350	78,962	234,669	7.58	2.67	4.83	24.8
3330	38,488	96,492	5.58	1.89	3.78	25.1
3310	5,839	12,217	6.58	2.68	3.89	52.8
Total	1,686,813	5,159,823	7.49	2.99	4.58	35.17

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/at	Ag g/at	Metal
3950	0	0.00	0	0.00	0.00	0
3910	0	0.00	0	0.00	0.00	0
3890	0	0.00	0	0.00	0.00	0
3870	0	0.00	0	0.00	0.00	0
3850	0	0.00	0	0.00	0.00	0
3830	0	0.00	0	0.00	0.00	0
3810	1,185	3,556	7.35	3.36	3.99	58.0
3790	6,443	19,328	8.58	3.79	4.79	58.4
3770	3,919	11,756	9.32	3.61	5.71	73.8
3750	0	0.00	0	0.00	0.00	0
3730	0	0.00	0	0.00	0.00	0
3710	11,372	34,117	9.93	3.34	6.59	55.9
3690	36,819	188,856	6.92	2.92	4.88	41.1
3670	48,389	145,167	8.28	3.29	4.91	58.8
3650	63,867	191,682	8.18	3.22	4.96	33.4
3630	103,843	311,538	7.25	2.75	4.58	34.1
3610	129,192	387,577	8.38	3.31	5.87	45.8
3590	142,539	427,616	7.89	3.18	4.71	48.7
3570	183,886	589,817	7.64	3.86	4.58	44.9
3550	75,843	227,528	6.97	2.89	4.88	36.1
3530	61,471	184,413	7.13	2.83	4.38	38.8
3510	13,327	39,988	7.29	2.69	4.68	24.6
3490	0	0.00	0	0.00	0.00	0
3470	0	0.00	0	0.00	0.00	0
3450	28,174	88,522	5.73	2.39	3.34	23.2
3430	232,848	696,119	7.87	2.87	4.28	35.5
3410	228,932	686,797	7.23	2.85	4.38	29.6
3390	155,888	467,665	7.83	2.68	4.43	32.7
3370	147,226	441,679	7.29	2.57	4.72	28.5
3350	79,195	237,584	6.67	2.31	4.36	18.8
3330	24,748	74,245	6.65	2.16	4.49	19.6
3310	0	0.00	0	0.00	0.00	0
Total	1,688,618	5,865,854	7.38	2.87	4.51	35.8

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/at	Metal
3950					
3910					
3890					
3870					
3850					
3830					
3810	-289.6	22.9	-138.8	24.2	22.9
3790	6.4	23.4	28.2	36.9	39.1
3770	84.9	21.7	88.2	42.5	42.4
3750					
3730					
3710	-99.6	5.6	-88.5	37.8	29.8
3690	-43.2	2.5	-39.6	-13.9	-1.8
3670	-26.7	5.6	-19.7	16.3	26.1
3650	13.8	2.8	15.5	14.4	13.4
3630	2.3	1.3	3.6	5.5	-1.5
3610	-2.8	-2.1	-4.9	1.3	-4.5
3590	15.9	1.2	16.9	-11.8	-18.2
3570	6.7	1.6	8.2	-14.5	-16.8
3550	4.2	-6.8	-1.6	-13.8	-12.5
3530	26.3	-4.8	22.7	-5.5	-9.5
3510	57.5	-8.1	54.1	-17.4	-13.8
3490					
3470					
3450	-52.1	-12.8	-71.6	-11.9	-25.1
3430	-8.2	-18.3	-10.6	-13.2	-17.1
3410	2.4	-5.9	-3.4	8.3	2.1
3390	-13.3	8.3	-12.9	8.3	7.3
3370	22.7	-3.6	19.9	3.4	-4.7
3350	8.3	8.9	1.2	-12.4	-15.6
3330	-55.2	16.3	-38.8	16.1	12.5
3310					
Total	0.1	-1.9	-1.8	-1.4	-4.1



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

FB988 - Undiluted, Uncut, Bench Composite Reserves  
- 95% Mining Recovery

Blasthole Calculation

IVARIANCE (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

ZPb+Zn Cutoff = 5%

ZPb+Zn Cutoff = 5%

ZPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes IPb+Zn	ZPb	Zn	Ag g/mt	Au g/mt	Metal	Bench	Volume bcy	Density at/bcy	Tonnes ZPb+Zn	ZPb	Zn	Ag g/mt	Metal	Bench	Volume bcy	Density at/bcy	Tonnes IPb+Zn	ZPb	Zn	Ag g/mt	Metal			
3950	0	0.00	0	0.00	0.00	0.00	0.00	0	3950	0	0.00	0				0	3950										
3910	0	0.00	0	0.00	0.00	0.00	0.00	0	3910	0	0.00	0				0	3910										
3890	0	0.00	0	0.00	0.00	0.00	0.00	0	3890	0	0.00	0	0.00			0	3890										
3870	0	0.00	0	0.00	0.00	0.00	0.00	0	3870	0	0.00	0	0.00			0	3870										
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	3850										
3830	0	0.00	0	0.00	0.00	0.00	0.00	0	3830	0	0.00	0	0.00			0	3830										
3810	2,115	2.37	5,007	6.10	2.93	3.25	50.3	0.37	309	3810	0	0.00	0	0.00		0	3810										
3790	4,012	2.30	9,234	5.90	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	3.3	23.3	25.0	39.3	30.2	40.1	0.5	55.0	
3770	217	2.40	523	6.00	2.60	4.20	49.0	0.24	36	3770	3,919	3.00	11,756	9.32	3.61	5.71	73.0	1,096	94.5	19.9	95.6	26.2	25.0	26.4	31.0	96.7	
3750	93	2.34	219	5.65	1.02	3.03	36.6	0.22	12	3750	0	0.00	0	0.00		0	3750										
3730	467	3.30	1,539	6.23	2.36	3.07	29.1	0.20	96	3730	0	0.00	0	0.00		0	3730										
3710	10,704	2.00	54,046	6.40	2.40	4.00	37.1	0.14	3,502	3710	11,372	3.00	34,117	9.93	3.34	6.59	55.9	3,300	3710	-65.2	4.1	-50.4	34.7	25.7	39.3	33.6	-3.4
3690	39,154	2.90	113,502	0.97	3.29	5.67	45.0	0.11	10,177	3690	20,641	3.00	85,923	7.40	3.10	4.30	43.0	6,427	3690	-36.7	3.3	-32.2	-19.9	-4.1	-29.5	-4.7	-50.3
3670	30,564	2.90	114,017	0.03	2.07	5.36	34.9	0.12	9,220	3670	47,516	3.00	142,540	8.20	3.32	4.96	51.2	11,003	3670	10.0	0.0	19.5	3.0	13.6	-4.0	31.0	21.9
3650	41,922	2.90	124,703	7.73	3.05	4.60	32.9	0.14	9,646	3650	61,209	3.00	183,067	0.33	3.20	5.05	33.6	15,316	3650	31.6	0.0	32.1	7.2	7.0	7.3	2.2	37.0
3630	79,505	3.02	240,010	7.43	3.00	4.42	30.5	0.19	17,009	3630	80,965	3.00	242,094	0.20	3.07	5.13	36.0	19,917	3630	1.7	-0.5	1.2	9.4	2.3	13.0	-4.5	10.6
3610	124,007	3.11	305,976	0.49	3.56	4.93	49.1	0.12	32,769	3610	123,539	3.00	370,610	0.57	3.30	5.19	46.7	31,762	3610	-0.4	-3.7	-4.1	0.9	-5.3	5.0	-5.1	-3.2
3590	97,125	3.03	294,506	9.72	4.05	5.67	52.0	0.10	20,634	3590	122,610	3.00	367,029	0.45	3.39	5.06	50.6	31,002	3590	20.0	-1.1	19.9	-15.0	-19.5	-12.1	-2.7	7.9
3570	86,004	2.90	256,099	9.20	3.69	5.51	50.6	0.31	23,635	3570	83,734	3.00	251,201	0.49	3.34	5.15	47.4	21,327	3570	-2.0	0.5	-2.3	-0.4	-10.5	-7.0	-6.9	-10.0
3550	69,010	3.10	219,127	0.12	3.30	4.02	30.7	0.16	17,793	3550	54,319	3.00	162,950	0.26	3.33	4.93	39.1	13,460	3550	-27.0	-5.0	-34.5	1.7	0.9	2.2	1.1	-32.2
3530	40,430	3.12	126,246	7.91	3.21	4.70	39.9	0.17	9,906	3530	52,619	3.00	157,056	7.62	2.99	4.63	39.0	12,029	3530	23.2	-4.1	20.0	-3.0	-7.4	-1.5	-2.4	17.0
3510	5,660	3.24	10,354	0.56	3.06	5.51	25.2	0.10	1,573	3510	13,327	3.00	39,900	7.29	2.69	4.60	24.6	2,915	3510	57.5	-0.1	54.1	-17.4	-13.0	-19.0	-2.4	46.0
3490	746	3.44	2,565	10.51	4.90	5.54	60.0	0.00	270	3490	0	0.00	0	0.00		0	3490										
3470	5,753	3.26	10,763	0.41	3.60	4.00	40.7	0.02	1,576	3470	0	0.00	0	0.00		0	3470										
3450	19,623	3.40	66,730	7.39	3.42	3.97	30.5	0.02	4,932	3450	16,009	3.00	50,660	5.94	2.43	3.51	23.0	3,010	3450	-16.2	-13.4	-31.7	-24.4	-40.7	-13.1	-67.4	-63.9
3430	209,736	3.36	704,929	0.32	3.51	4.01	35.9	0.07	50,650	3430	190,944	3.00	572,032	7.62	3.07	4.55	37.4	43,650	3430	-9.0	-12.0	-23.1	-9.2	-14.3	-5.7	4.0	-34.4
3410	109,031	3.30	626,497	7.57	2.95	4.62	27.7	0.02	47,426	3410	204,174	3.00	612,521	7.55	2.96	4.59	30.1	46,245	3410	7.0	-10.0	-2.3	-0.3	0.3	-0.7	0.0	-2.6
3390	155,529	3.04	472,072	6.66	2.40	4.17	27.5	0.06	31,446	3390	131,039	3.00	395,517	2.74	4.67	31.9	29,300	3390	-10.0	-1.3	-19.6		9.5	10.7	13.0	-7.3	
3370	92,552	3.27	302,233	7.47	2.05	4.62	23.9	0.02	22,577	3370	132,935	3.00	390,004	2.60	4.00	20.0	30,150	3370	30.4	-0.9	24.2		-6.3	5.3	14.0	25.1	
3350	74,732	3.01	224,700	7.43	2.71	4.92	24.0	0.02	17,151	3350	57,006	3.00	173,417	2.63	4.04	17.3	12,954	3350	-29.3	-0.3	-29.6		-3.0	-1.7	-43.4	-32.4	
3330	19,717	2.73	53,913	6.44	2.22	4.21	23.5	0.03	3,467	3330	13,612	3.00	40,035	2.62	5.23	20.0	3,206	3330	-44.9	0.9	-32.0		15.3	19.5	-17.5	-0.1	
3310	4,665	2.43	11,334	6.62	2.66	3.97	53.7	0.34	751	3310	0	0.00	0			0	3310										
Total	1,420,755	3.13	4,450,912	7.95	3.17	4.79	36.06	0.10	354,061	Total	1,436,195	3.00	4,300,505	7.90	3.06	4.04	37.0	340,252	Total	1.1	-4.4	-3.3	-0.7	-3.7	1.2	2.6	-4.1

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

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

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	IPb+Zn	IPb	Zn	Ag	g/at	Au	g/at	Metal
	bcy	at/bcy									
3950	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0	0
3910	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0	0
3890	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0	0
3870	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0	0	0
3850	19,655	2.42	47,491	6.20	2.24	3.96	35.6	0.15	2,947		
3830	27,119	2.43	66,025	6.80	2.49	4.39	36.2	0.20	4,542		
3810	40,212	2.79	112,062	7.97	2.87	5.10	36.9	0.28	8,934		
3790	63,568	2.99	189,924	8.72	3.09	5.63	34.4	0.11	16,560		
3770	97,374	2.95	287,071	8.34	2.99	5.35	38.2	0.14	23,929		
3750	183,344	2.97	536,727	7.64	2.84	4.88	35.4	0.20	23,428		
3730	186,206	2.91	539,529	6.85	2.62	4.23	36.3	0.18	21,289		
3710	147,474	2.88	425,344	6.56	2.71	3.85	39.7	0.13	27,897		
3690	119,578	2.88	344,488	7.84	2.59	4.45	36.8	0.12	24,258		
3670	184,899	2.83	521,018	6.56	2.34	4.22	38.7	0.11	19,474		
3650	87,671	2.96	259,493	6.85	2.79	4.86	33.2	0.11	17,770		
3630	155,189	3.03	469,589	6.69	2.74	3.95	33.3	0.14	31,417		
3610	188,775	3.09	583,937	7.97	3.27	4.70	41.2	0.11	46,524		
3590	282,748	3.01	850,076	7.98	3.28	4.70	39.1	0.14	48,275		
3570	246,775	3.05	751,468	8.89	3.29	4.88	41.4	0.16	60,795		
3550	381,574	3.17	954,897	7.81	3.22	4.59	42.2	0.08	74,567		
3530	382,651	3.16	1,209,284	7.94	3.24	4.70	45.5	0.08	95,988		
3510	434,834	3.06	1,328,955	8.42	3.52	4.89	46.6	0.06	111,878		
3490	443,979	3.05	1,353,969	8.71	3.69	5.02	47.8	0.04	117,927		
3470	488,854	3.84	1,461,594	8.77	3.69	5.08	43.8	0.03	128,283		
3450	483,611	3.12	1,259,415	8.28	3.49	4.79	41.7	0.07	184,289		
3430	387,877	3.31	1,016,286	8.33	3.45	4.88	38.4	0.21	84,621		
3410	278,317	3.28	866,385	7.84	2.74	4.38	27.8	0.03	68,993		
3390	195,337	3.82	589,888	6.48	2.44	4.84	27.9	0.06	38,167		
3370	113,824	3.11	353,784	7.84	2.69	4.35	24.7	0.03	24,981		
3350	78,982	2.97	234,669	7.58	2.67	4.83	24.8	0.02	17,688		
3330	38,488	2.51	96,492	5.59	1.89	3.78	25.1	0.06	5,394		
3310	5,838	2.42	12,217	6.49	2.68	3.89	52.8	0.33	793		
Total	5,166,243	3.06	15,797,797	7.87	3.19	4.68	39.35	0.09	1,243,267		

Blasthole Calculation

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	IPb+Zn	IPb	Zn	Ag	g/at	Metal
	bcy	at/bcy							
3950	0	0.00	0	0.00	0	0	0	0.00	0
3910	0	0.00	0	0.00	0	0	0	0.00	0
3890	14,727	3.00	44,188	7.88	3.18	4.78	NA	3,446	
3870	9,578	3.00	28,711	7.46	2.81	4.65	NA	2,142	
3850	9,858	3.00	29,549	6.24	2.41	3.83	NA	1,844	
3830	33,849	3.00	101,547	6.77	2.66	4.11	NA	6,875	
3810	41,292	3.00	123,876	7.87	2.98	4.89	NA	8,756	
3790	69,883	3.00	209,488	8.31	3.44	4.87	NA	17,397	
3770	79,865	3.00	239,596	7.84	2.71	4.33	35.7	16,862	
3750	91,354	3.00	274,862	7.88	2.79	4.21	39.2	19,184	
3730	136,885	3.00	408,256	7.85	2.88	4.25	41.8	28,782	
3710	124,762	3.00	374,287	7.11	2.71	4.48	38.6	26,621	
3690	115,984	3.00	347,711	6.69	2.56	4.12	34.8	23,247	
3670	86,114	3.00	258,342	7.35	2.87	4.47	42.6	18,977	
3650	66,881	3.00	198,882	8.14	3.19	4.95	33.2	16,122	
3630	188,141	3.00	564,423	6.98	2.65	4.33	38.2	37,716	
3610	181,263	3.00	543,789	8.12	3.11	5.02	39.4	44,164	
3590	233,389	3.00	699,926	7.82	3.18	4.72	42.8	54,747	
3570	255,464	3.00	766,392	7.87	3.33	4.54	47.5	68,294	
3550	325,865	3.00	975,195	7.96	3.54	4.42	48.8	77,612	
3530	383,429	3.00	1,150,286	8.68	3.64	5.83	44.3	99,818	
3510	453,848	3.00	1,359,144	9.87	3.79	5.28	51.1	123,312	
3490	492,126	3.00	1,476,379	9.38	3.98	5.48	49.6	137,322	
3470	447,433	3.88	1,342,299	9.81	3.76	5.25	51.1	121,884	
3450	362,657	3.00	1,087,972	8.29	3.51	4.78	42.5	98,152	
3430	298,788	3.00	896,124	7.38	2.98	4.31	35.7	65,376	
3410	281,644	3.00	844,931	7.18	2.82	4.28	28.5	59,978	
3390	183,888	3.00	549,881	6.97	2.88	4.37	31.4	38,286	
3370	147,226	3.00	441,679	7.29	2.57	4.72	28.5	32,198	
3350	79,195	3.00	237,584	6.67	2.31	4.36	18.8	15,847	
3330	24,748	3.00	74,245	6.65	2.16	4.49	19.6	4,937	
3310	0	0.00	0	0	0	0	0	0	
Total	5,287,632	3.00	15,422,896	8.02	3.27	4.75	NA	1,253,818	

IVARIANCE (Blasthole-diluted model)/blasthole \*100

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume	Density	Tonnes	IPb+Zn	IPb	Zn	Ag	g/at	Metal
	bcy	at/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	188.0	188.0	188.0	188.0	188.0	188.0	188.0	188.0	188.0
3870	188.0	188.0	188.0	188.0	188.0	188.0	188.0	188.0	188.0
3850	-99.6	19.5	-68.7	8.6	6.9	-3.4			-59.8
3830	19.9	18.8	35.8	-1.6	6.4	-6.8			33.9
3810	2.6	7.1	9.5	-12.8	3.6	-24.8			-2.1
3790	8.9	8.4	9.3	-5.8	18.1	-15.6			4.8
3770	-21.9	1.7	-19.8	-18.4	-18.3	-23.5	15.4		-41.9
3750	-13.1	1.1	-11.9	-9.1	-1.8	-14.8	9.7		-22.1
3730	22.8	2.9	24.2	2.8	6.4	8.5	13.1		26.3
3710	-18.2	3.9	-13.6	7.8	8.3	12.4	-2.7		-4.8
3690	-3.2	4.8	8.9	-5.3	-1.1	-7.9	-5.8		-4.3
3670	-21.8	5.6	-15.8	18.7	18.6	5.7	27.9		-2.6
3650	-32.8	1.3	-31.1	15.9	12.7	18.8	-8.1		-18.2
3630	13.9	-8.8	13.1	4.1	-3.3	8.7	-18.1		16.7
3610	-4.1	-3.1	-7.4	1.9	-5.3	6.4	-4.6		-5.3
3590	13.1	-8.5	12.7	-1.8	-3.2	8.5	8.8		11.8
3570	3.4	-1.5	1.9	-2.8	1.1	-5.7	12.7		-8.8
3550	7.2	-5.5	2.1	1.9	8.9	-3.8	13.5		3.9
3530	8.2	-5.3	-5.1	8.5	11.8	6.7	-2.6		3.8
3510	4.8	-1.9	2.2	7.2	7.1	7.3	8.8		9.3
3490	9.8	-1.7	8.3	6.4	5.3	7.1	3.7		14.1
3470	-7.3	-1.5	-8.9	2.7	1.8	3.3	15.9		-5.9
3450	-11.3	-4.8	-15.8	8.1	8.4	-8.2	2.8		-15.7
3430	-2.8	-18.3	-13.4	-14.1	-15.6	-13.2	-7.5		-29.4
3410	4.8	-6.8	-2.5	9.8	2.6	-8.3	2.7		-1.7
3390	-6.7	-8.5	-7.3	7.1	6.2	7.6	11.2		8.3
3370	22.7	-3.6	19.9	3.4	-4.7	7.8	13.4		22.7
3350	8.3	8.9	1.2	-12.4	-15.6	-18.8	-37.5		-11.1
3330	-55.2	16.3	-38.8	15.9	12.5	17.6	-28.4		-9.2
3310	0	0.00	0	0.00	0.00	0.00	0.0	0.00	0
Total	8.8	-1.9	-1.1	1.9	2.4	1.5	NA	8.8	

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

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

Period: January 1 1986 to December 31 1989

ZPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes ZPb+Zn	ZPb	ZZn	Ag g/at	Au g/at	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	0	0.00	0	0.00	0.00	0.0	0.00	0
3850	16,794	2.43	40,831	6.48	2.35	4.14	36.8	0.16 2,647
3830	22,983	2.47	56,696	7.31	2.64	4.67	37.2	0.19 4,143
3810	32,966	2.87	94,611	8.57	3.06	5.51	37.0	0.21 8,111
3790	54,785	3.09	168,853	9.24	3.25	5.99	34.5	0.11 15,597
3770	83,938	3.03	254,125	8.82	3.19	5.63	30.8	0.13 22,484
3750	89,287	3.05	272,346	8.85	3.00	5.05	36.8	0.28 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	48.7	0.13 25,528
3690	89,668	2.88	258,419	7.98	2.89	5.82	39.5	0.12 28,425
3670	75,915	2.89	219,787	7.25	2.61	4.64	33.0	0.12 15,938
3650	66,242	2.98	197,481	7.56	3.06	4.58	35.6	0.18 14,923
3630	117,154	3.05	357,257	7.37	3.01	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	41.0	0.13 43,988
3570	227,431	3.06	696,493	8.37	3.40	4.97	42.7	0.17 50,277
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	3.04	1,168,576	8.97	3.73	5.25	49.0	0.07 104,828
3490	372,876	3.08	1,147,647	9.48	4.00	5.47	51.3	0.04 188,751
3470	416,516	3.05	1,268,488	9.42	3.96	5.44	45.6	0.03 119,498
3450	387,788	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	0.02 56,863
3390	173,989	3.06	532,532	6.66	2.51	4.16	27.3	0.05 35,485
3370	92,552	3.27	302,233	7.47	2.85	4.62	23.9	0.02 22,577
3350	74,732	3.01	224,788	7.63	2.71	4.92	24.8	0.02 17,151
3330	19,717	2.73	53,913	6.43	2.22	4.21	23.5	0.05 3,467
3310	4,665	2.43	11,334	6.63	2.66	3.97	53.7	0.34 751
Total	4,427,834	3.18	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

ZPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes ZPb+Zn	ZPb	ZZn	Ag g/at	Metal
3950	0	0.00	0				
3910	0	0.00	0				
3890	14,727	3.00	44,188	7.88	3.18	4.78	NA 3,446
3870	6,793	3.00	20,378	8.68	3.38	5.38	NA 1,753
3850	9,858	3.00	29,549	6.24	2.41	3.83	NA 1,844
3830	27,387	3.00	81,928	7.38	2.79	4.51	NA 5,988
3810	33,288	3.00	99,848	7.68	3.19	4.41	NA 7,588
3790	65,588	3.00	196,764	8.48	3.49	4.99	NA 16,692
3770	78,479	3.00	235,436	7.39	2.84	4.56	37.3 15,632
3750	69,416	3.00	208,249	7.71	3.11	4.68	43.8 16,856
3730	181,538	3.00	544,589	7.68	3.86	4.62	44.3 23,392
3710	182,675	3.00	548,025	7.61	2.95	4.66	48.8 23,438
3690	85,158	3.00	255,458	7.41	2.88	4.61	35.9 18,921
3670	72,844	3.00	218,531	7.86	3.89	4.77	46.8 17,175
3650	63,422	3.00	190,267	8.29	3.25	5.84	33.4 15,765
3630	135,911	3.00	407,732	7.83	2.93	4.98	32.6 31,934
3610	172,251	3.00	516,752	8.31	3.17	5.14	48.1 42,956
3590	288,993	3.00	862,979	8.38	3.32	5.86	45.1 58,555
3570	227,189	3.00	681,328	8.33	3.51	4.82	46.7 56,729
3550	292,854	3.00	878,162	8.48	3.72	4.68	58.8 73,554
3530	359,346	3.00	1,078,039	8.95	3.74	5.28	45.8 96,452
3510	448,872	3.00	1,346,616	9.19	3.84	5.35	51.8 121,375
3490	459,158	3.00	1,377,458	9.62	4.82	5.68	58.9 132,458
3470	418,284	3.00	1,254,852	9.39	3.91	5.48	52.6 115,556
3450	347,568	3.00	1,042,704	8.45	3.57	4.88	42.6 88,882
3430	254,598	3.00	763,798	7.78	3.16	4.62	37.3 59,482
3410	258,366	3.00	775,098	7.41	2.93	4.49	28.9 55,676
3390	158,729	3.00	476,187	7.39	2.76	4.63	38.9 33,433
3370	132,935	3.00	398,804	7.56	2.88	4.88	28.8 38,158
3350	57,886	3.00	173,658	7.47	2.83	4.84	17.3 12,954
3330	13,612	3.00	40,835	7.85	2.62	5.23	28.8 3,286
3310	0	0.00	0				
Total	4,627,755	3.00	13,883,265	8.44	3.44	5.08	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 bcy	Density at/bcy	Tonnes ZPb+Zn	ZPb	ZZn	Ag g/at	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 -43.3
3750	-28.6	-1.7	-38.8	-4.4	3.6	-9.8	16.3 -36.5
3730	9.9	8.9	18.8	6.8	18.9	4.8	16.9 16.8
3710	-25.4	3.1	-21.6	18.4	5.6	13.5	8.2 -8.9
3690	-5.3	3.9	-1.2	-6.7	-3.8	-9.8	-18.1 -7.9
3670	-4.2	3.5	-8.5	7.7	15.8	2.5	28.1 -7.2
3650	-4.4	8.7	-3.7	8.8	5.7	18.8	-6.5 5.3
3630	13.8	-1.6	12.4	5.8	-2.6	18.9	-11.5 17.5
3610	-1.5	-4.2	-5.8	1.2	-6.7	6.1	-6.3 -4.5
3590	16.6	-2.3	14.7	-1.9	-3.3	-8.9	9.1 13.1
3570	-8.1	-2.1	-2.2	-8.5	3.8	-3.1	8.4 -2.7
3550	1.1	-5.4	-4.2	5.2	11.4	8.3	14.6 1.3
3530	3.9	-5.8	-8.9	7.1	9.4	5.4	-6.7 6.3
3510	12.6	-1.3	11.5	2.4	3.1	2.8	5.3 13.6
3490	19.8	-2.8	16.7	1.5	8.4	2.2	-8.9 17.9
3470	-1.5	-1.5	-3.1	-8.3	-1.2	8.3	13.4 -3.4
3450	11.5	-7.1	5.2	-18.3	-9.9	-18.6	-8.4 -4.5
3430	-9.2	-11.8	-22.2	-11.4	-13.8	-9.8	-5.9 -36.2
3410	8.8	-18.6	-8.9	8.2	8.8	-8.2	4.8 -8.7
3390	-15.4	-2.1	-17.8	9.9	9.2	18.3	11.6 -6.1
3370	38.4	-8.9	24.2	1.2	-6.3	5.3	14.8 25.1
3350	-29.3	-8.3	-29.6	-2.1	-3.8	-1.7	-43.4 -32.4
3330	-44.9	8.9	-32.8	18.1	15.3	19.5	-17.5 -8.1
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

Periods Remaining as of January 1, 1990

IPb+Zn Cutoff = 4%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	Izn	Ag g/at	Au g/at	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3890	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3870	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3850	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3830	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3810	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3790	311	3.21	998	9.90	3.52	6.37	42.1	0.12	99
3770	964	3.41	3,287	8.46	3.10	5.36	35.2	0.37	278
3750	3,048	2.74	8,360	5.28	1.94	3.34	33.4	0.18	441
3730	1,431	2.90	4,152	4.93	2.10	2.83	39.7	0.09	205
3710	18,294	3.11	31,968	5.27	2.68	2.59	58.1	0.28	1,685
3690	18,660	3.25	60,544	5.83	2.33	3.50	34.1	0.17	3,530
3670	28,954	2.96	85,789	6.88	2.32	3.77	25.4	0.15	5,220
3650	84,683	2.72	230,788	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	0.10	18,915
3610	118,459	2.86	338,488	6.48	2.15	4.26	22.0	0.12	21,691
3590	128,254	2.85	365,798	6.38	2.33	4.85	26.5	0.16	23,330
3570	284,636	2.91	595,242	6.71	2.54	4.16	27.8	0.13	39,881
3550	222,331	3.03	673,256	6.10	2.28	3.82	27.7	0.10	41,869
3530	243,843	2.99	727,491	7.07	2.74	4.33	35.0	0.11	51,434
3510	336,893	3.05	1,026,285	7.19	2.73	4.46	31.3	0.07	73,798
3490	377,860	3.11	1,175,321	7.08	2.69	4.39	31.4	0.08	83,213
3470	392,477	3.07	1,205,488	6.48	3.14	5.26	33.3	0.07	181,254
3450	384,318	3.12	949,240	7.98	2.75	5.15	32.4	0.08	74,990
3430	219,811	3.18	698,986	7.25	2.56	4.69	26.7	0.06	58,671
3410	187,833	3.08	575,187	6.68	2.41	4.27	24.6	0.04	38,422
3390	135,159	3.07	414,922	7.07	2.40	4.67	21.2	0.05	29,335
3370	112,954	2.88	324,976	8.78	2.86	5.84	22.8	0.08	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	10.82	3.33	7.49	31.0	0.05	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	10,342,223	7.33	2.65	4.68	29.23	0.09	758,814

## 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

Periods Remaining as of January 1, 1990

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	Izn	Ag g/at	Au g/at	Metal
3950	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3890	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3870	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3850	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3830	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3810	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3790	311	3.21	998	9.90	3.52	6.37	42.1	0.12	99
3770	964	3.41	3,287	8.46	3.10	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	0.05	76
3710	4,158	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	3.01	86,197	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	2.90	259,865	7.14	2.64	4.58	28.1	0.19	18,497
3570	148,758	2.96	440,282	7.47	2.81	4.66	29.3	0.15	32,883
3550	161,985	3.06	495,182	6.65	2.56	4.11	31.1	0.11	32,924
3530	189,823	3.08	567,426	7.81	3.05	4.76	38.6	0.13	44,316
3510	277,488	3.09	857,648	7.74	2.93	4.88	33.8	0.07	66,297
3490	294,327	3.16	938,288	7.76	2.94	4.82	33.3	0.08	72,198
3470	346,419	3.88	1,868,876	8.92	3.31	5.61	34.5	0.07	95,272
3450	269,812	3.13	842,346	6.35	2.88	5.47	33.8	0.08	78,336
3430	172,882	3.19	551,829	8.88	2.84	5.16	28.8	0.06	44,882
3410	135,688	3.14	425,481	7.48	2.69	4.71	24.6	0.07	31,488
3390	186,285	3.19	339,188	7.68	2.62	5.85	21.4	0.04	26,816
3370	186,889	2.91	318,688	8.88	2.94	5.96	22.9	0.08	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	0.04	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	3.02	8,424,847	7.98	2.88	5.89	31.88	0.09	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

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	Zn Ag g/mt	Au g/mt	Metal		
3950	0	0	0.00	0.00	0.00	0.00	0		
3910	0	0	0.00	0.00	0.00	0.00	0		
3890	14,959	2.62	39,197	7.12	3.89	4.03	47.6	0.04	2,791
3870	21,140	2.68	56,668	7.05	2.97	4.00	43.4	0.10	3,995
3850	18,691	2.77	51,794	7.03	2.82	5.00	36.1	0.09	4,050
3830	27,275	2.48	67,517	6.61	2.44	4.17	35.7	0.17	4,463
3810	37,165	2.84	105,602	8.12	2.90	5.23	34.9	0.13	8,585
3790	57,535	3.85	175,604	8.88	3.10	5.79	33.1	0.08	15,618
3770	95,539	2.93	279,614	6.94	2.41	4.52	29.2	0.14	19,377
3750	98,773	2.94	290,681	6.70	2.55	4.23	33.4	0.21	19,700
3730	101,946	2.92	297,740	6.81	2.64	4.17	36.6	0.15	20,276
3710	118,334	2.93	346,161	6.55	2.70	3.86	38.0	0.15	22,700
3690	66,522	2.85	189,421	6.37	2.29	4.00	31.1	0.15	12,866
3670	43,385	2.84	123,286	6.12	2.21	3.91	29.5	0.17	7,540
3650	32,469	2.99	97,223	6.53	2.76	3.77	35.2	0.15	6,349
3630	52,496	3.14	164,645	6.33	2.62	3.71	27.4	0.16	10,422
3610	55,793	3.16	176,864	7.06	2.74	4.32	26.0	0.17	12,430
3590	76,586	3.09	236,645	6.54	2.41	4.13	23.6	0.13	15,477
3570	70,130	3.25	227,620	6.47	2.55	3.92	23.9	0.11	14,727
3550	112,550	3.29	370,215	7.46	2.99	4.47	31.0	0.07	27,610
3530	168,560	3.28	553,280	7.89	3.12	4.77	32.0	0.10	43,454
3510	219,313	3.12	683,430	8.53	3.52	5.01	41.3	0.13	50,297
3490	188,860	3.09	583,937	8.52	3.62	4.89	45.5	0.11	49,693
3470	157,459	2.99	469,994	7.20	3.03	4.25	38.3	0.09	34,216
3450	97,685	3.13	305,986	8.00	3.21	4.79	37.0	0.08	24,479
3430	50,747	3.33	195,814	9.60	3.82	5.86	45.1	0.08	18,955
3410	1,360	3.45	4,722	6.98	2.84	4.14	25.9	0.08	330
3390	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3370	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3350	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3330	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3310	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
Total	1,993,215	3.06	6,092,854	7.51	2.98	4.54	35.47	0.12	457,023

Blasthole Calculation

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	Zn Ag g/mt	Metal		
3950	0	0	0.00					
3910	0	0	0.00					
3890	14,727	3.00	44,180	7.80	3.10	4.70	NA	3,446
3870	9,570	3.00	28,711	7.46	2.81	4.65	NA	2,142
3850	9,850	3.00	29,549	6.24	2.41	3.83	NA	1,844
3830	33,849	3.00	101,547	6.77	2.66	4.11	NA	6,075
3810	40,107	3.00	120,320	7.06	2.97	4.09	NA	8,495
3790	63,360	3.00	190,080	8.28	3.40	4.80	NA	15,739
3770	75,947	3.00	227,840	6.92	2.66	4.26	33.7	15,767
3750	91,354	3.00	274,062	7.00	2.79	4.21	39.2	19,184
3730	136,885	3.00	408,256	7.05	2.80	4.25	41.8	28,782
3710	113,390	3.00	340,170	6.83	2.65	4.10	36.9	23,234
3690	79,885	3.00	239,655	6.50	2.40	4.10	30.0	15,769
3670	37,725	3.00	113,175	6.25	2.34	3.91	32.1	7,073
3650	2,133	3.00	6,400	7.01	2.34	4.67	27.0	449
3630	76,298	3.00	228,893	6.61	2.52	4.09	24.9	15,130
3610	52,071	3.00	156,212	7.48	2.60	4.80	23.6	11,685
3590	82,801	3.00	248,404	7.54	2.70	4.76	29.7	18,730
3570	47,414	3.00	142,243	7.07	2.71	4.36	28.0	10,057
3550	99,850	3.00	299,549	7.70	3.21	4.57	30.5	23,305
3530	172,950	3.00	518,849	8.69	3.40	5.29	35.1	45,000
3510	231,307	3.00	693,922	9.25	3.80	5.45	46.4	64,180
3490	203,989	3.00	611,960	8.95	3.77	5.10	45.0	54,771
3470	148,273	3.00	444,810	8.54	3.56	4.90	43.0	37,987
3450	101,215	3.00	303,645	8.00	3.40	4.60	40.5	24,292
3430	66,660	3.00	200,005	8.00	3.37	4.71	36.5	16,160
3410	1,770	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	1,992,595	3.00	5,977,786	7.87	3.16	4.72	NA	470,733

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

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	Zn Ag g/mt	Metal		
3950	0	0						
3910	0	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	-89.8	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	8.0	-18.6	0.0	
3770	-25.0	2.4	-22.7	-0.3	9.4	-6.1	13.4	-22.9
3750	-8.1	1.9	-6.1	3.1	0.6	-0.5	14.0	-2.7
3730	25.1	2.6	27.1	3.4	5.7	1.9	12.5	29.6
3710	-4.4	2.5	-1.0	4.1	-1.9	7.7	-3.0	2.3
3690	16.7	5.1	21.0	3.2	4.6	2.4	-1.0	23.5
3670	-15.0	5.3	-8.9	2.1	5.6	0.0	8.1	-6.6
3650	-1422.0	0.2	-1419.1	6.8	-17.9	19.3	-30.4	-1315.1
3630	31.2	-4.5	20.1	4.2	-4.0	9.3	-10.1	31.1
3610	-7.1	-5.2	-12.7	5.6	-5.4	11.5	-10.2	-6.4
3590	7.6	-3.1	4.7	13.3	13.3	13.2	20.6	17.4
3570	-47.9	-8.2	-60.0	8.5	5.9	10.1	14.6	-46.4
3550	-12.7	-9.6	-23.6	4.1	6.9	2.2	17.5	-18.5
3530	2.5	-9.4	-6.6	9.2	8.2	9.0	6.6	3.2
3510	5.2	-3.9	1.5	7.0	7.4	8.1	11.0	9.2
3490	7.4	-3.1	4.6	4.0	4.0	5.6	0.7	9.3
3470	-6.2	0.5	-5.7	14.0	14.9	14.7	10.9	9.9
3450	3.5	-4.4	-0.8	0.0	5.6	-4.1	0.7	-0.0
3430	11.9	-11.1	2.1	-19.0	-13.4	-24.4	-23.7	-17.3
3410	23.0	-15.0	11.5	31.5	40.2	23.9	46.0	39.4
3390	0							0
3370	0							0
3350	0							0
3330	0							0
3310	0							0
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

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

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	IZn	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	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	0.14	3.41	4.72	47.1	0.11	3,194
3850	18,543	3.01	31,749	9.95	3.73	6.22	45.2	0.09	3,159
3830	23,947	2.50	59,898	6.92	2.55	4.36	36.5	0.16	4,139
3810	31,567	2.91	91,856	0.64	3.06	5.50	35.2	0.13	7,936
3790	48,827	3.16	154,500	9.47	3.29	6.18	34.1	0.07	14,632
3770	76,879	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	86,450	3.00	259,398	7.15	2.76	4.39	37.1	0.15	10,547
3710	102,598	2.94	301,369	6.03	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	4.00	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	7.20	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	6.05	2.50	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	0.51	3.37	5.14	35.1	0.10	39,022
3510	209,766	3.11	651,307	0.73	3.59	5.15	42.0	0.13	56,931
3490	159,914	3.13	500,147	9.19	3.91	5.29	40.3	0.11	46,013
3470	110,420	2.98	323,277	0.19	3.42	4.77	42.5	0.08	20,933
3450	89,474	3.19	284,953	0.26	3.34	4.92	30.4	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	7.00	2.00	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	1,693,040	3.09	5,234,453	0.01	3.10	4.03	37.40	0.12	419,076

Blasthole Calculation

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	IZn	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	14,727	3.00	44,180	7.00	3.1	4.7	NA	3,446
3870	6,793	3.00	20,370	0.00	3.3	5.3	NA	1,753
3850	9,850	3.00	29,549	6.24	2.41	3.03	NA	1,044
3830	27,307	3.00	81,920	7.30	2.79	4.51	NA	5,900
3810	33,200	3.00	99,600	7.60	3.19	4.41	NA	7,500
3790	61,440	3.00	184,320	0.40	3.45	4.95	NA	15,403
3770	66,560	3.00	199,680	7.20	2.79	4.49	35.2	14,537
3750	69,416	3.00	208,249	7.71	3.11	4.6	43.0	16,856
3730	101,530	3.00	304,589	7.60	3.06	4.62	44.3	23,392
3710	91,303	3.00	273,900	7.32	2.9	4.42	30.9	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	164,830	7.29	2.73	4.56	26.4	12,017
3610	40,711	3.00	122,134	7.66	2.64	5.02	23.3	11,194
3590	70,415	3.00	211,244	0.14	3.01	5.13	32.1	17,195
3570	43,000	3.00	131,663	7.20	2.78	4.5	28.5	9,505
3550	90,674	3.00	272,022	7.00	3.21	4.59	30.6	23,000
3530	161,479	3.00	484,430	0.99	3.49	5.5	35.3	43,551
3510	223,701	3.00	671,102	9.41	3.06	5.55	47.1	63,151
3490	100,003	3.00	300,009	9.20	3.09	5.39	47.2	52,563
3470	144,939	3.00	434,810	0.44	3.59	5.05	43.2	37,560
3450	96,354	3.00	289,061	0.20	3.47	4.73	40.0	23,703
3430	63,646	3.00	190,938	0.25	3.43	4.82	37.0	15,752
3410	1,770	3.00	5,313	10.19	4.75	5.44	40.0	543
3390	0	0.00	0	0.00	0.00	0.00	0.0	0
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	1,763,507	3.00	5,290,522	0.29	3.32	4.96	NA	430,355

IVARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1986 to December 31 1987

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	IZn	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	-1.6	12.7	11.3	0.7	0.3	14.3		19.0
3870	-102.4	4.7	-92.8	5.3	-3.3	10.9		-82.2
3850	-7.0	-0.4	-7.4	-59.5	-54.8	-62.4		-71.3
3830	12.3	16.6	26.9	5.2	0.6	3.3		30.0
3810	5.1	3.0	0.0	-13.7	4.1	-26.5		-4.6
3790	20.5	-5.5	16.2	-12.7	4.6	-24.8		5.5
3770	-15.5	-0.9	-16.6	-1.6	6.5	-6.7	14.0	-10.5
3750	-17.0	-0.7	-18.7	6.9	12.9	2.0	21.2	-10.5
3730	14.0	0.0	14.0	6.9	9.0	5.0	16.3	20.7
3710	-12.4	2.1	-10.0	6.7	4.0	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	-38.0	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	18.5
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	0.6
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	-17.5	
3410	26.5	-15.0	15.6	30.5	39.4	22.0	45.0	41.3
3390	0	0.00	0	0.00	0.00	0.00	0.0	0
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	4.0	-3.0	1.1	3.4	4.2	2.0	NA	4.1

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

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	IZn 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	0 0.00	0 0.00	0.00	0.00	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	4.50	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	384 4.89	1.81	3.09	33.3	0.14 15
3790	0 0.00	0 0.00	0.00	0.00	0.00	0
3770	0 0.00	0 0.00	0.00	0.00	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	30.1	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 2.30	143 5.76	2.42	3.34	35.8	0.22 8
3630	0 0.00	0 0.00	0.00	0.00	0.00	0
3610	186 2.65	494 4.62	1.27	3.35	18.2	0.23 23
3590	6,935 3.17	22,812 7.89	3.30	4.58	41.2	0.09 1,735
3570	81,793 3.80	245,689 9.84	3.96	5.88	51.0	0.18 22,210
3550	121,942 3.84	378,975 8.63	3.96	4.68	55.0	0.12 32,852
3530	166,818 3.85	587,937 8.49	3.98	4.51	58.4	0.14 43,124
3510	199,567 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	0.09 69,833
3470	318,157 3.88	953,785 9.35	3.92	5.43	48.3	0.07 89,171
3450	269,477 3.89	833,768 8.51	3.56	4.95	42.4	0.07 78,954
3430	15,443 3.18	49,723 8.41	3.34	5.87	38.2	0.08 4,182
3410	45,486 3.31	158,433 6.24	2.53	3.71	26.6	0.08 9,387
3390	18,753 3.24	68,753 6.69	2.71	3.97	25.8	0.04 4,858
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
Total	1,516,229 3.85	4,617,979 8.57	3.67	4.98	47.99	0.09 395,857

Blasthole Calculation

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Metal
3950	0 0.00	0 0.00	0	0	0
3910	0 0.00	0 0.00	0	0	0
3890	0 0.00	0 0.00	0	0	0
3870	0 0.00	0 0.00	0	0	0
3850	0 0.00	0 0.00	0	0	0
3830	0 0.00	0 0.00	0	0	0
3810	0 0.00	0 0.00	0	0	0
3790	0 0.00	0 0.00	0	0	0
3770	0 0.00	0 0.00	0	0	0
3750	0 0.00	0 0.00	0	0	0
3730	0 0.00	0 0.00	0	0	0
3710	0 0.00	0 0.00	0	0	0
3690	0 0.00	0 0.00	0	0	0
3670	0 0.00	0 0.00	0	0	0
3650	0 0.00	0 0.00	0	0	0
3630	0 0.00	0 0.00	0	0	0
3610	0 0.00	0 0.00	0	0	0
3590	7,969 3.00	23,986 9.53	5.10	4.43	74.0 2,278
3570	105,844 3.80	315,132 8.45	3.87	4.58	58.8 26,629
3550	149,373 3.80	448,118 8.58	4.09	4.49	62.1 38,449
3530	149,888 3.80	447,824 9.38	4.26	5.04	57.6 41,573
3510	208,414 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	45.0 62,392
3430	0 0.00	0 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	0	0
3350	0 0.00	0 0.00	0	0	0
3330	0 0.00	0 0.00	0	0	0
3310	0 0.00	0 0.00	0	0	0
Total	1,526,419 3.89	4,579,256 8.92	3.86	5.86	53.8 488,286

IVARIANCE (Blasthole-diluted model)/blasthole +100

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Metal
3950	0 0.00	0 0.00	0	0	0
3910	0 0.00	0 0.00	0	0	0
3890	0 0.00	0 0.00	0	0	0
3870	0 0.00	0 0.00	0	0	0
3850	0 0.00	0 0.00	0	0	0
3830	0 0.00	0 0.00	0	0	0
3810	0 0.00	0 0.00	0	0	0
3790	0 0.00	0 0.00	0	0	0
3770	0 0.00	0 0.00	0	0	0
3750	0 0.00	0 0.00	0	0	0
3730	0 0.00	0 0.00	0	0	0
3710	0 0.00	0 0.00	0	0	0
3690	0 0.00	0 0.00	0	0	0
3670	0 0.00	0 0.00	0	0	0
3650	0 0.00	0 0.00	0	0	0
3630	0 0.00	0 0.00	0	0	0
3610	0 0.00	0 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	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	0	0
3350	0 0.00	0 0.00	0	0	0
3330	0 0.00	0 0.00	0	0	0
3310	0 0.00	0 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

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

Period: January 1 1988 to December 31 1988

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	Izn	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	0	0.00	0	0.00	0.00	0.00	0.00	0	
3870	1,866	2.44	4,551	6.99	2.96	4.83	45.6	0.17	318
3850	1,835	2.50	4,579	7.63	3.05	4.58	45.4	0.28	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	0.00	0.00	0
3770	0	0.00	0	0.00	0.00	0.00	0.00	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	2.80	3.85	33.2	0.29	34
3710	684	3.21	2,195	5.91	2.74	3.17	35.6	0.25	130
3690	217	2.62	570	5.85	2.86	3.79	30.4	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	0.00	0.00	0
3610	0	0.00	0	0.00	0.00	0.00	0.00	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	0.18	21,880
3550	121,586	3.84	369,579	8.65	3.97	4.68	55.1	0.12	31,969
3530	153,681	3.83	465,381	8.86	4.17	4.68	61.5	0.14	41,179
3510	167,285	2.92	487,778	9.01	3.85	5.16	57.8	0.14	43,949
3490	218,785	3.81	659,338	9.47	3.93	5.54	58.4	0.09	62,439
3470	283,567	3.89	874,684	9.79	4.18	5.69	58.1	0.07	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	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	0.00	0.00	0
3350	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3330	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
3310	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0
Total	1,299,993	3.87	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

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	Izn	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	3.88	23,986	9.53	5.18	4.43	74.8	2,278
3570	99,488	3.88	298,464	8.65	3.97	4.68	54.1	25,817
3550	139,861	3.88	417,182	8.87	4.23	4.64	64.8	37,884
3530	145,248	3.88	435,745	9.38	4.38	5.88	58.8	48,873
3510	283,845	3.88	889,134	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	61,370
3430	0	0.00	0	0.00			0	0
3410	44,415	3.88	133,245	6.67	2.78	3.97	22.9	8,887
3390	18,890	3.88	56,678	7.28	2.90	4.38	24.8	4,126
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	1,428,853	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

IPb+Zn Cutoff = 5%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	Izn	Ag g/mt	Metal	
3950								
3910								
3890								
3870								
3850								
3830								
3810								
3790								
3770								
3750								
3730								
3710								
3690								
3670								
3650								
3630								
3610								
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	-18.3	-4.7	-8.2	
3430								
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								
3350								
3330								
3310								
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

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Au 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	684	1,672	7.83	2.89	4.13	117
3850	1,213	2,955	5.77	2.49	3.20	39.0
3830	200	646	4.26	1.77	2.50	38.9
3810	3,732	9,196	6.25	2.83	3.43	46.7
3790	6,833	14,573	5.29	2.32	2.97	39.9
3770	653	1,558	5.12	2.89	3.83	36.0
3750	93	219	5.65	1.82	3.83	36.6
3730	995	2,717	5.31	1.97	3.34	29.1
3710	22,810	62,833	6.13	2.36	3.77	35.3
3690	52,217	150,965	7.58	2.83	4.74	39.4
3670	61,795	175,513	6.64	2.41	4.23	31.2
3650	54,581	161,244	6.84	2.75	4.89	31.6
3630	181,440	388,362	6.78	2.78	4.81	36.1
3610	132,796	485,683	8.40	3.42	4.90	47.0
3590	123,831	363,879	9.82	3.62	5.48	47.4
3570	99,270	291,128	8.44	3.38	5.86	45.6
3550	74,818	234,888	7.64	3.15	4.49	38.0
3530	45,313	142,443	7.45	3.89	4.36	38.6
3510	5,668	18,373	8.49	3.86	5.44	25.1
3490	746	2,683	9.39	4.49	4.98	53.7
3470	7,993	26,486	7.26	3.11	4.15	36.7
3450	38,664	103,531	6.29	2.88	3.41	35.5
3430	237,663	785,688	8.49	3.40	5.89	36.2
3410	222,983	787,982	7.24	2.78	4.45	27.8
3390	177,286	528,618	6.44	2.48	4.85	26.5
3370	117,277	362,995	7.55	2.66	4.69	24.3
3350	78,962	234,299	7.36	2.62	4.94	24.1
3330	37,871	94,915	5.48	1.85	3.63	22.9
3310	5,838	12,183	6.87	2.24	3.83	48.8
Total	1,781,432	5,199,894	7.55	2.96	4.68	34.51

Blasthole Calculation

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Metal
3950	0	0	0.00	0.00	0
3910	0	0	0.00	0.00	0
3890	0	0	0.00	0.00	0
3870	0	0	0.00	0.00	0
3850	0	0	0.00	0.00	0
3830	0	0	0.00	0.00	0
3810	1,185	3,556	7.35	3.36	3.99
3790	6,443	19,328	8.58	3.79	4.79
3770	3,919	11,756	9.32	3.61	5.71
3750	0	0	0.00	0.00	0
3730	0	0	0.00	0.00	0
3710	11,372	34,117	9.93	3.34	6.59
3690	36,819	108,856	6.92	2.92	4.88
3670	48,389	145,167	8.28	3.29	4.91
3650	63,867	191,682	8.18	3.22	4.96
3630	183,843	311,538	7.25	2.75	4.58
3610	129,192	387,577	8.38	3.31	5.87
3590	142,539	427,616	7.89	3.18	4.71
3570	183,886	389,817	7.64	3.86	4.58
3550	75,843	227,528	6.97	2.89	4.88
3530	61,471	184,413	7.13	2.83	4.38
3510	13,327	39,988	7.29	2.69	4.68
3490	0	0	0.00	0.00	0
3470	0	0	0.00	0.00	0
3450	28,174	68,522	5.73	2.39	3.34
3430	232,848	696,119	7.87	2.87	4.28
3410	228,932	686,797	7.23	2.85	4.38
3390	155,888	467,665	7.83	2.88	4.43
3370	147,226	441,679	7.29	2.57	4.72
3350	79,195	237,584	6.67	2.31	4.36
3330	24,748	74,245	6.65	2.16	4.49
3310	0	0	0.00	0.00	0
Total	1,688,618	5,065,854	7.38	2.87	4.51

IVARIANCE (Blasthole-diluted model)/blasthole \*100

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	IZn Ag g/mt	Metal
3950					
3910					
3890					
3870					
3850					
3830					
3810	-214.9	17.9	-158.6	15.8	15.8
3790	6.4	19.5	24.6	38.3	38.8
3770	83.3	28.4	86.7	45.1	42.1
3750					
3730					
3710	-93.6	4.9	-84.2	38.3	29.3
3690	-45.8	3.6	-39.7	-9.5	3.1
3670	-27.7	5.3	-28.9	19.8	26.7
3650	14.5	1.5	15.8	16.4	14.6
3630	2.3	1.3	3.6	6.5	-1.1
3610	-2.8	-1.8	-4.7	-8.2	-3.3
3590	13.7	1.4	14.9	-14.3	-13.8
3570	3.6	2.2	5.8	-10.5	-10.5
3550	2.4	-5.4	-2.9	-9.6	-9.8
3530	26.3	-4.8	22.8	-4.5	-9.2
3510	57.5	-8.2	54.8	-16.5	-13.8
3490					
3470					
3450	-52.8	-12.5	-71.1	-9.8	-28.5
3430	-2.4	-18.2	-12.9	-28.1	-18.5
3410	2.6	-5.8	-3.1	-8.1	2.5
3390	-13.7	8.6	-13.8	8.4	7.7
3370	28.3	-3.2	17.8	-8.8	-3.5
3350	8.3	1.1	1.4	-13.3	-13.3
3330	-49.8	14.7	-27.8	17.6	14.4
3310					
Total	-8.8	-1.9	-2.6	-2.3	-2.9

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 1989 to December 31 1989

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.0	0
3910	0	0.00	0	0.00	0.00	0.0	0
3890	0	0.00	0	0.00	0.00	0.0	0
3870	497	2.48	1,235	7.01	3.19	4.61	96
3850	249	2.94	732	9.60	3.79	5.01	70
3830	0	0.00	0	0.00	0.00	0.0	0
3810	2,426	2.52	6,199	7.86	3.19	3.07	431
3790	4,012	2.44	9,804	5.59	2.43	3.17	549
3770	217	2.45	532	6.25	2.44	3.01	33
3750	93	2.34	219	5.65	1.82	3.03	12
3730	404	3.45	1,397	6.34	2.42	3.92	89
3710	17,589	2.92	51,158	6.47	2.49	3.99	3,315
3690	38,532	2.91	112,262	8.59	3.16	5.42	9,632
3670	40,880	2.96	118,750	7.64	2.83	4.01	9,873
3650	41,923	2.99	125,250	7.49	3.00	4.49	9,382
3630	79,585	3.02	240,200	7.35	2.99	4.36	17,655
3610	124,880	3.10	384,826	8.62	3.51	5.11	33,172
3590	188,943	3.02	570,327	9.51	3.03	5.68	51,319
3570	89,971	2.95	265,240	8.03	3.51	5.31	23,394
3550	68,824	3.17	218,329	7.07	3.22	4.65	17,102
3530	48,461	3.12	151,322	7.02	3.20	4.62	9,070
3510	5,660	3.25	18,373	8.49	3.06	5.44	1,562
3490	746	3.49	2,603	9.39	4.49	4.90	244
3470	5,971	3.28	19,570	8.26	3.49	4.76	1,615
3450	17,197	3.38	58,197	7.56	3.38	4.19	4,406
3430	217,720	3.36	730,835	8.79	3.53	5.26	64,240
3410	188,152	3.31	621,813	7.62	2.95	4.67	47,302
3390	155,156	3.04	471,419	6.66	2.47	4.19	31,396
3370	94,419	3.27	308,560	7.06	2.84	5.01	24,222
3350	74,732	3.00	224,447	7.70	2.67	5.04	17,305
3330	15,092	2.85	45,249	6.50	2.28	4.31	2,982
3310	4,665	2.41	11,220	6.19	2.28	3.90	693
Total	1,438,141	3.13	4,503,988	8.02	3.14	4.88	361,331

Blasthole Calculation

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.0	0
3910	0	0.00	0	0.00	0.00	0.0	0
3890	0	0.00	0	0.00	0.00	0.0	0
3870	0	0.00	0	0.00	0.00	0.0	0
3850	0	0.00	0	0.00	0.00	0.0	0
3830	0	0.00	0	0.00	0.00	0.0	0
3810	0	0.00	0	0.00	0.00	0.0	0
3790	4,148	3.00	12,444	9.72	4.11	5.61	54.0
3770	3,919	3.00	11,756	9.32	3.61	5.71	73.0
3750	0	0.00	0	0.00	0.00	0.0	0
3730	0	0.00	0	0.00	0.00	0.0	0
3710	11,372	3.00	34,117	9.93	3.34	6.59	55.9
3690	20,641	3.00	61,923	7.48	3.10	4.38	43.0
3670	47,516	3.00	142,548	8.20	3.32	4.96	51.2
3650	61,289	3.00	183,867	8.33	3.20	5.05	33.6
3630	80,965	3.00	242,894	8.20	3.07	5.13	36.0
3610	123,539	3.00	370,618	8.57	3.30	5.19	46.7
3590	122,610	3.00	367,829	8.45	3.39	5.06	50.6
3570	83,734	3.00	251,201	8.49	3.34	5.15	47.4
3550	54,319	3.00	162,950	8.26	3.33	4.93	39.1
3530	52,619	3.00	157,856	7.62	2.99	4.63	39.0
3510	13,327	3.00	39,980	7.29	2.89	4.60	24.6
3490	0	0.00	0	0.00	0.00	0.0	0
3470	0	0.00	0	0.00	0.00	0.0	0
3450	16,809	3.00	50,668	5.94	2.43	3.51	23.0
3430	190,944	3.00	572,832	7.62	3.07	4.55	37.4
3410	204,174	3.00	612,521	7.55	2.96	4.59	30.1
3390	131,039	3.00	393,517	7.74	4.67	5.19	29,300
3370	132,935	3.00	398,804	7.60	4.00	5.00	30,150
3350	57,006	3.00	171,017	7.63	4.04	4.73	12,954
3330	13,612	3.00	40,835	7.62	5.23	5.00	3,206
3310	0	0.00	0	0.00	0.00	0.0	0
Total	1,436,195	3.00	4,380,585	7.90	3.06	4.84	340,252

ZVARIANCE (Blasthole-diluted model)/blasthole \*100

Period: January 1 1989 to December 31 1989

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.0	0
3910	0	0.00	0	0.00	0.00	0.0	0
3890	0	0.00	0	0.00	0.00	0.0	0
3870	0	0.00	0	0.00	0.00	0.0	0
3850	0	0.00	0	0.00	0.00	0.0	0
3830	0	0.00	0	0.00	0.00	0.0	0
3810	0	0.00	0	0.00	0.00	0.0	0
3790	3.3	18.5	21.2	42.5	40.9	43.5	23.7
3770	94.5	18.4	95.5	32.9	32.4	33.3	44.0
3750	0	0.00	0	0.00	0.00	0.0	0
3730	0	0.00	0	0.00	0.00	0.0	0
3710	-54.0	2.6	-49.9	34.8	25.4	39.5	34.2
3690	-34.5	2.9	-30.7	-14.0	-1.9	-23.7	1.7
3670	15.6	1.3	16.7	7.7	14.0	3.0	33.2
3650	31.6	0.4	31.9	10.1	8.5	11.1	2.2
3630	1.7	-0.6	1.1	10.4	2.6	15.0	-3.7
3610	-0.4	-3.4	-3.0	-0.6	-3.0	1.5	-3.0
3590	11.1	-0.8	10.5	-12.5	-13.0	-12.3	1.0
3570	-7.4	1.7	-5.6	-4.0	-5.1	-3.1	1.6
3550	-26.7	-5.7	-34.0	4.7	3.3	5.7	1.9
3530	23.1	-4.1	20.0	-2.6	-7.0	0.2	-1.9
3510	57.5	-0.2	54.0	-16.5	-13.0	-18.3	-1.9
3490	0	0.00	0	0.00	0.00	0.0	0
3470	0	0.00	0	0.00	0.00	0.0	0
3450	-1.0	-12.0	-14.9	-27.3	-39.1	-19.4	-73.9
3430	-14.0	-11.9	-27.6	-15.4	-15.0	-15.6	1.3
3410	7.0	-10.2	-1.5	-0.9	0.3	-1.7	0.6
3390	-17.7	-1.3	-19.2	9.9	10.3	10.5	-7.1
3370	29.0	-0.9	22.6	-6.0	-2.7	15.1	19.7
3350	-29.3	-0.1	-29.4	-1.5	-4.1	-39.3	-33.6
3330	-16.0	5.1	-10.0	13.0	17.6	-0.0	7.0
3310	0	0.00	0	0.00	0.00	0.0	0
Total	-0.1	-4.4	-4.5	-1.6	-2.7	-0.9	4.2

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

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume bcy	Density at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Au g/mt	Metal
3950	0	0.00	0	0.00	0.00	0.00	0
3910	0	0.00	0	0.00	0.00	0.00	0
3890	14,959	0.00	39,197	0.00	0.00	0.00	2,791
3870	24,196	0.00	64,859	0.00	0.00	0.00	4,485
3850	21,738	2.73	59,328	7.70	2.82	4.88	37.0
3830	29,638	2.46	72,884	6.47	2.39	4.07	35.4
3810	41,021	2.81	115,182	7.97	2.89	5.08	35.8
3790	63,568	2.99	190,257	8.61	3.04	5.57	33.6
3770	96,192	2.92	281,172	6.92	2.41	4.51	29.2
3750	98,897	2.94	290,976	6.78	2.55	4.23	33.4
3730	103,263	2.92	301,245	6.79	2.63	4.16	36.5
3710	142,498	2.91	414,590	6.48	2.64	3.84	37.5
3690	118,956	2.87	340,955	6.90	2.53	4.37	34.8
3670	185,367	2.84	299,136	6.42	2.33	4.10	30.5
3650	87,111	2.97	258,689	6.72	2.75	3.97	33.0
3630	153,945	3.02	465,886	6.63	2.72	3.98	33.0
3610	189,775	3.08	582,168	7.99	3.21	4.78	40.6
3590	286,473	3.02	622,535	8.04	3.15	4.89	38.1
3570	251,193	3.04	764,437	8.85	3.32	4.73	40.9
3550	388,589	3.16	975,278	7.95	3.40	4.55	42.1
3530	388,691	3.16	1,293,660	8.09	3.48	4.61	44.3
3510	424,540	3.05	1,293,976	8.38	3.52	4.86	46.2
3490	459,776	3.03	1,393,945	8.53	3.58	4.95	45.9
3470	475,688	3.05	1,458,185	8.64	3.62	5.02	44.8
3450	397,826	3.13	1,243,284	8.28	3.42	4.78	40.5
3430	312,852	3.30	1,031,225	8.71	3.48	5.24	38.0
3410	269,757	3.28	863,856	7.86	2.74	4.32	27.6
3390	195,959	3.01	589,371	6.47	2.43	4.84	26.4
3370	117,277	3.18	362,995	7.35	2.66	4.69	24.3
3350	78,962	2.97	234,299	7.56	2.62	4.94	24.1
3330	37,871	2.56	94,915	5.48	1.85	3.63	22.9
3310	5,838	2.48	12,183	6.87	2.24	3.83	40.0
Total	5,218,876	3.05	15,989,926	7.83	3.17	4.66	38.79

Blasthole Calculation

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume bcy	Density at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Metal
3950	0	0.00	0	0.00	0.00	0
3910	0	0.00	0	0.00	0.00	0
3890	14,727	3.00	44,188	7.80	3.10	4.70
3870	9,570	3.00	28,711	7.46	2.81	4.65
3850	9,858	3.00	29,549	6.24	2.41	3.83
3830	33,849	3.00	101,547	6.77	2.66	4.11
3810	41,292	3.00	123,876	7.87	2.98	4.89
3790	69,803	3.00	209,488	8.31	3.44	4.87
3770	79,865	3.00	239,596	7.84	2.71	4.33
3750	91,354	3.00	274,862	7.80	2.79	4.21
3730	136,885	3.00	408,256	7.85	2.88	4.25
3710	124,762	3.00	374,287	7.11	2.71	4.48
3690	115,904	3.00	347,711	6.69	2.56	4.12
3670	86,114	3.00	258,342	7.35	2.87	4.47
3650	66,881	3.00	198,882	8.14	3.19	4.95
3630	188,141	3.00	548,423	6.98	2.65	4.33
3610	181,263	3.00	543,789	8.12	3.11	5.02
3590	233,389	3.00	699,926	7.82	3.10	4.72
3570	255,464	3.00	766,392	7.87	3.33	4.54
3550	325,865	3.00	975,195	7.96	3.54	4.42
3530	383,429	3.00	1,158,286	8.68	3.84	5.03
3510	453,848	3.00	1,359,144	9.87	3.79	5.28
3490	492,126	3.00	1,476,379	9.38	3.98	5.48
3470	447,433	3.00	1,342,299	9.81	3.76	5.25
3450	362,657	3.00	1,087,972	8.29	3.51	4.78
3430	298,788	3.00	896,124	7.38	2.98	4.31
3410	281,644	3.00	844,931	7.18	2.82	4.28
3390	183,888	3.00	549,881	6.97	2.68	4.37
3370	147,226	3.00	441,679	7.29	2.57	4.72
3350	79,195	3.00	237,584	6.67	2.31	4.36
3330	24,748	3.00	74,245	6.65	2.16	4.49
3310	0	0.00	0	0.00	0.00	0
Total	5,287,632	3.00	15,622,896	8.02	3.27	4.75

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

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 4%

Bench	Volume bcy	Density at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Metal
3950	0	0.00	0	0.00	0.00	0
3910	0	0.00	0	0.00	0.00	0
3890	-1.6	188.0	11.3	188.0	188.0	188.0
3870	-152.8	188.0	-123.1	188.0	188.0	188.0
3850	-128.7	9.0	-188.8	-23.4	-17.1	-27.5
3830	-12.4	18.0	28.2	4.4	18.0	8.9
3810	8.7	6.5	7.1	-12.8	3.0	-24.3
3790	8.9	8.2	9.1	-3.7	11.5	-14.4
3770	-28.4	2.6	-17.4	1.7	11.0	-4.2
3750	-8.3	1.9	-6.2	3.2	8.6	-8.5
3730	24.1	2.8	26.2	3.6	6.8	2.1
3710	-14.2	3.0	-18.8	8.9	2.7	12.8
3690	-2.6	4.5	1.9	-3.2	1.3	-6.8
3670	-22.4	5.4	-15.8	12.5	19.8	8.4
3650	-32.8	1.8	-38.6	17.4	13.7	19.8
3630	14.5	-8.7	14.8	5.8	-2.7	9.8
3610	-4.1	-2.8	-7.1	1.6	-3.4	-4.7
3590	11.5	-8.5	11.1	-2.8	-1.5	-3.6
3570	1.7	-1.4	8.3	-2.3	8.3	-4.1
3550	5.1	-5.4	-8.8	8.1	4.8	-3.1
3530	8.7	-5.4	-4.6	6.8	4.5	8.4
3510	6.3	-1.6	4.8	7.7	7.3	7.9
3490	6.6	-1.1	5.6	8.2	8.1	8.3
3470	-6.3	-1.6	-8.8	4.1	3.8	4.4
3450	-9.7	-4.2	-14.3	1.8	2.6	-8.1
3430	-4.5	-18.2	-15.1	-19.4	-16.6	-21.4
3410	4.2	-6.6	-2.1	8.6	2.8	-8.9
3390	-7.1	-8.3	-7.4	7.2	6.6	7.5
3370	28.3	-3.2	17.8	-8.8	-3.5	8.6
3350	8.3	1.1	1.4	-13.3	-13.4	-33.7
3330	-49.8	14.7	-27.8	17.6	14.4	19.2
3310	0	0.00	0	0.00	0.00	0
Total	-8.1	-1.8	-1.8	2.3	3.8	1.9

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

ZPb+Zn Cutoff = 5%

Bench	Volume Density bcy at/bcy	Tonnes ZPb+Zn	ZPb	Zn Ag g/mt	Au g/mt	Metal
3950	0	0	0.00	0.00	0.00	0
3910	0	0	0.00	0.00	0.00	0
3890	14,959	39,197	0.00	0.00	0.00	2,791
3870	16,110	45,868	0.00	0.00	0.00	3,688
3850	12,626	37,860	9.66	3.65	6.81	45.3
3830	24,537	61,294	6.88	2.54	4.34	36.5
3810	34,824	98,840	8.54	3.07	5.47	36.2
3790	52,839	164,312	9.24	3.24	6.88	34.5
3770	77,897	233,311	7.48	2.61	4.79	38.3
3750	81,917	247,584	7.18	2.71	4.47	33.9
3730	87,111	261,374	7.14	2.76	4.39	37.8
3710	128,791	354,721	6.77	2.72	4.85	38.7
3690	88,416	255,351	7.70	2.81	4.98	37.9
3670	77,439	224,818	7.85	2.58	4.47	32.7
3650	66,243	197,952	7.38	3.03	4.36	35.4
3630	114,843	347,643	7.33	3.81	4.31	36.4
3610	174,283	543,163	8.25	3.32	4.93	42.8
3590	181,282	555,427	8.47	3.35	5.12	48.4
3570	238,697	784,988	8.34	3.45	4.89	42.3
3550	292,679	924,873	8.13	3.49	4.64	43.4
3530	336,436	1,059,564	8.58	3.78	4.88	47.2
3510	382,711	1,157,537	8.85	3.69	5.16	48.4
3490	379,446	1,162,888	9.35	3.92	5.43	49.5
3470	487,966	1,247,531	9.31	3.98	5.41	47.8
3450	381,168	967,338	9.24	3.83	5.42	44.2
3430	286,831	968,944	9.82	3.61	5.42	38.9
3410	226,715	752,182	7.44	2.98	4.53	27.4
3390	173,989	532,171	6.66	2.58	4.16	26.8
3370	94,419	388,568	7.85	2.84	5.01	23.8
3350	74,732	224,447	7.71	2.67	5.84	24.1
3330	15,892	45,249	6.59	2.28	4.31	21.6
3310	4,665	11,220	6.18	2.28	3.98	41.2
Total	4,431,982	13,724,823	8.36	3.39	4.97	48.79

Blasthole Calculation

Period: January 1 1986 to December 31 1989

ZPb+Zn Cutoff = 5%

Bench	Volume Density bcy at/bcy	Tonnes ZPb+Zn	ZPb	Zn Ag g/mt	Metal
3950	0	0			
3910	0	0			
3890	14,727	44,188	7.88	3.18	4.78
3870	6,793	28,378	8.68	3.38	5.38
3850	9,850	29,549	6.24	2.41	3.83
3830	27,387	81,920	7.38	2.79	4.51
3810	33,280	99,840	7.68	3.19	4.41
3790	65,588	196,764	8.48	3.49	4.99
3770	78,479	211,436	7.39	2.84	4.56
3750	69,416	288,249	7.71	3.11	4.68
3730	101,538	384,589	7.68	3.86	4.62
3710	182,675	388,825	7.61	2.95	4.66
3690	85,158	255,458	7.41	2.88	4.61
3670	72,844	218,531	7.86	3.89	4.77
3650	63,422	198,267	8.29	3.25	5.84
3630	135,911	487,732	7.83	2.93	4.98
3610	172,251	516,752	8.31	3.17	5.14
3590	288,993	682,979	8.38	3.32	5.86
3570	227,189	681,328	8.33	3.51	4.82
3550	292,854	876,162	8.48	3.72	4.68
3530	359,346	1,878,839	8.95	3.74	5.28
3510	448,872	1,328,216	9.19	3.84	5.35
3490	459,158	1,377,458	9.62	4.82	5.68
3470	418,284	1,238,613	9.39	3.91	5.48
3450	347,568	1,842,784	8.45	3.57	4.88
3430	254,598	763,778	7.78	3.16	4.62
3410	258,366	751,899	7.41	2.93	4.49
3390	158,729	452,187	7.39	2.76	4.63
3370	132,935	398,884	7.56	2.68	4.88
3350	57,886	173,417	7.47	2.63	4.84
3330	13,612	48,835	7.85	2.62	5.23
3310	0	0			
Total	4,627,755	13,883,265	8.44	3.44	5.88

ZVARIANCE (Blasthole-diluted model)/blasthole #100

Period: January 1 1986 to December 31 1989

IPb+Zn Cutoff = 5%

Bench (Toe)	Volume Density bcy at/bcy	Tonnes IPb+Zn	IPb	Zn Ag g/mt	Metal
3950					
3910					
3890		11.3	188.8	188.8	188.8
3870		-121.2	188.8	188.8	188.8
3850	-28.2	2.2	-25.4	-54.8	-51.3
3830	18.1	16.7	25.2	5.7	8.9
3810	-2.2	3.9	1.8	-12.4	3.8
3790	19.4	-3.7	16.5	-8.9	7.2
3770	-9.4	-8.9	-18.3	-8.1	8.8
3750	-18.8	-8.7	-18.8	6.9	12.9
3730	-14.2	-8.8	-14.2	7.8	9.9
3710	-17.6	2.1	-15.2	11.8	7.7
3690	-3.8	-3.7	8.8	-4.8	-8.2
3670	-6.3	3.6	-2.5	18.3	16.5
3650	-4.4	8.4	-4.8	18.9	6.9
3630		-1.6	14.7	6.4	-2.8
3610	-1.2	-3.9	-5.1	8.8	-4.7
3590	9.8	-2.1	7.9	-1.8	-8.8
3570	-1.6	-1.9	-3.5	-8.1	1.6
3550	-8.2	-5.3	-5.6	3.1	6.1
3530	6.4	-5.8	1.7	4.1	1.2
3510	13.8	-8.8	12.3	3.7	4.8
3490	17.4	-2.1	15.6	2.7	2.4
3470	8.5	-1.9	-1.4	8.8	8.4
3450	13.3	-7.1	7.2	-9.4	-7.2
3430	-12.7	-11.7	-25.8	-16.8	-14.1
3410	9.4	-18.6	-8.1	-8.3	8.9
3390	-15.4	-2.8	-17.7	9.9	9.5
3370	29.8	-8.9	22.6	-3.8	-6.8
3350	-29.3	-8.1	-29.4	-3.2	-1.5
3330	-16.8	5.1	-18.8	16.1	13.8
3310					
Total	4.2	-3.2	1.1	8.9	1.5

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

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

Period: Remaining as of January 1, 1990

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	IZn	Ag g/mt	Au g/mt	Metal
3950	0	0.00							0
3910	0	0.00							0
3890	0	0.00							0
3870	491	2.42	1,190	6.59	2.02	3.77	43.1	0.17	78
3850	0	0.00							0
3830	0	0.00							0
3810	0	0.00							0
3790	327	3.10	1,040	0.98	3.10	5.00	39.6	0.00	93
3770	1,015	3.13	3,180	5.53	2.12	3.41	30.3	0.00	176
3750	851	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	19,860	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	199,570	7.00	2.51	4.49	23.3	0.16	13,900
3630	84,526	2.82	238,270	6.06	2.30	4.56	22.3	0.16	16,345
3610	92,939	2.89	268,390	6.96	2.40	4.55	24.6	0.16	18,653
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	523,980	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	48,976
3510	309,131	3.00	927,390	7.50	2.07	4.63	32.2	0.09	71,453
3490	312,535	3.15	984,970	7.69	2.92	4.77	32.0	0.09	75,744
3470	366,059	3.00	1,098,180	8.65	3.24	5.40	33.1	0.09	97,291
3450	202,540	3.13	634,360	8.32	3.09	5.23	31.2	0.09	73,579
3430	281,623	3.21	907,660	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	305,150	7.50	2.60	4.90	20.6	0.05	22,961
3370	107,400	2.91	312,470	8.10	2.79	5.40	22.0	0.07	25,591
3350	104,756	2.56	268,460	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	2.86	4.80	30.2	0.10	693,907

## 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: Remaining as of January 1, 1990

IPb+Zn Cutoff = 5%

Bench	Volume bcy	Density at/bcy	Tonnes	IPb+Zn	IPb	IZn	Ag g/mt	Au g/mt	Metal
3950	0	0.00							0
3910	0	0.00							0
3890	0	0.00							0
3870	467	2.42	1,131	6.59	2.02	3.77	43.1	0.17	74
3850	0	0.00							0
3830	0	0.00							0
3810	0	0.00							0
3790	311	3.10	980	0.98	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	809	2.46	1,986	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	18,867	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	62,862	6.56	2.55	4.01	26.6	0.10	4,124
3650	60,543	2.75	168,642	7.00	2.51	4.49	23.3	0.16	13,205
3630	80,300	2.82	226,357	6.06	2.30	4.56	22.3	0.16	15,520
3610	80,292	2.89	234,971	6.96	2.40	4.55	24.6	0.16	17,720
3590	91,900	2.92	268,081	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	880,065	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	1,043,270	8.65	3.24	5.40	33.1	0.09	92,426
3450	260,420	3.13	815,142	8.32	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	48,030
3410	120,046	3.15	378,140	7.57	2.79	4.70	27.0	0.00	30,711
3390	92,211	3.15	290,843	7.50	2.60	4.90	20.6	0.05	21,813
3370	102,030	2.91	296,847	8.10	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	173,803	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	2,822,663	3.02	8,517,402	7.74	2.86	4.80	30.15	0.10	659,211

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

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

Period: Remaining as of January 1, 1990

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	IZn Ag g/mt	Au g/mt	Metal
3950	0	0	0.00				0
3910	0	0	0.00				0
3890	0	0	0.00				0
3870	491	1,190	6.59	2.82	3.77	43.1	0.17
3850	0	0	0.00				0
3830	0	0	0.00				0
3810	0	0	0.00				0
3790	327	1,040	8.98	3.18	5.80	39.6	0.80
3770	1,015	3,180	5.53	2.12	3.41	30.3	0.80
3750	1,997	5,040	5.24	1.84	3.40	34.7	0.26
3730	557	1,290	5.99	2.82	3.96	32.2	0.84
3710	10,836	33,670	5.17	2.64	2.53	46.2	0.26
3690	19,642	63,200	5.45	2.34	3.10	34.2	0.17
3670	30,576	90,520	6.80	2.38	3.70	25.4	0.18
3650	80,421	240,930	6.54	2.31	4.23	21.8	0.14
3630	111,927	312,130	6.29	2.11	4.18	21.1	0.14
3610	124,694	355,990	6.35	2.14	4.21	21.8	0.14
3590	135,660	388,460	6.48	2.38	4.82	26.9	0.15
3570	214,686	625,480	6.78	2.52	4.18	28.5	0.13
3550	246,636	743,770	5.99	2.27	3.71	27.2	0.18
3530	267,863	800,960	6.99	2.74	4.25	34.1	0.13
3510	369,282	1,126,590	7.83	2.69	4.34	38.5	0.88
3490	482,724	1,249,840	7.82	2.67	4.35	38.6	0.89
3470	412,821	1,260,790	8.28	3.89	5.11	32.8	0.88
3450	324,221	1,006,920	7.85	2.93	4.93	29.6	0.89
3430	236,127	750,830	7.46	2.76	4.71	26.2	0.87
3410	181,786	554,430	6.88	2.51	4.37	25.2	0.88
3390	131,633	398,960	6.77	2.33	4.44	28.2	0.86
3370	119,324	343,250	7.85	2.66	5.19	21.6	0.86
3350	187,440	274,870	8.47	2.88	5.68	27.5	0.86
3330	76,177	190,930	8.84	2.88	5.96	28.2	0.84
3310	44,456	106,980	7.51	2.68	4.91	36.6	0.18
Total	3,659,637	10,930,280	7.16	2.65	4.51	28.4	0.18

## 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: Remaining as of January 1, 1990

IPb+Zn Cutoff = 4%

Bench	Volume Density bcy mt/bcy	Tonnes	IPb+Zn	IPb	IZn Ag g/mt	Au g/mt	Metal
3950	0	0	0.00	0.00	0.00	0.00	0
3910	0	0	0.00	0.00	0.00	0.00	0
3890	0	0	0.00	0.00	0.00	0.00	0
3870	467	1,131	6.59	2.82	3.77	43.1	0.17
3850	0	0	0.00	0.00	0.00	0.00	0
3830	0	0	0.00	0.00	0.00	0.00	0
3810	0	0	0.00	0.00	0.00	0.00	0
3790	311	988	8.98	3.18	5.80	39.6	0.80
3770	964	3,021	5.53	2.12	3.41	30.3	0.80
3750	1,897	4,789	5.24	1.84	3.40	34.7	0.26
3730	529	1,226	5.99	2.82	3.96	32.2	0.84
3710	10,294	31,987	5.17	2.64	2.53	46.2	0.26
3690	18,660	60,840	5.45	2.34	3.10	34.2	0.17
3670	29,847	85,994	6.80	2.38	3.70	25.4	0.18
3650	84,800	228,884	6.54	2.31	4.23	21.8	0.14
3630	106,330	296,524	6.29	2.11	4.18	21.1	0.14
3610	118,459	338,191	6.35	2.14	4.21	21.8	0.14
3590	128,877	369,837	6.48	2.38	4.82	26.9	0.15
3570	203,951	594,138	6.78	2.52	4.18	28.5	0.13
3550	234,384	786,582	5.99	2.27	3.71	27.2	0.18
3530	253,710	760,912	6.99	2.74	4.25	34.1	0.13
3510	358,742	1,070,261	7.83	2.69	4.34	38.5	0.88
3490	382,588	1,186,588	7.82	2.67	4.35	38.6	0.89
3470	391,428	1,197,751	8.28	3.89	5.11	32.8	0.88
3450	308,810	956,574	7.85	2.93	4.93	29.6	0.89
3430	224,321	713,289	7.46	2.76	4.71	26.2	0.87
3410	172,696	526,789	6.88	2.51	4.37	25.2	0.88
3390	125,852	379,812	6.77	2.33	4.44	28.2	0.86
3370	113,350	326,888	7.85	2.66	5.19	21.6	0.86
3350	182,868	261,127	8.47	2.88	5.68	27.5	0.86
3330	72,369	181,384	8.84	2.88	5.96	28.2	0.84
3310	42,233	101,555	7.51	2.68	4.91	36.6	0.18
Total	3,476,655	10,383,766	7.16	2.65	4.51	28.41	0.18

