



July + August
1989

Hand Calculation
S Comparison of ~~to~~
PCMINI to MAXIPIAI

Files \approx Test case. WRI

maps \approx Sections 124-130
benches

CURRAGH RESOURCES INC. - FARO MINE

29-Jul-89

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COMPARISON OF MAXIPLAN AND PCMINE CALCULATION OF JULY AND AUGUST MINING RESERVES

MAXIPLAN RESERVES FOR SOUTH PHASE ONLY AND CORRESPOND TO PLAN FLR-6

FOR COMPARISON
IN JULY 1989

ALL BUT BLASTHOLES DILUTED BY 10% AT ZERO GRADE WITH 95% MINING RECOVERY

		TONNES	LEAD	ZINC	Pb METAL	Zn METAL	TOTAL METAL
	5% TO 7%	8,888	1.74	3.66	155	325	
	PLUS 7%	163,967	3.43	5.74	5,624	9,412	
MAXIPLAN	PLUS 5%	172,855	3.34	5.63	5,779	9,737	15,516
PCMINE	PLUS 5%	178,229	3.20	5.40	5,709	9,623	15,333
HAND CALC OF HI GRADE		180,917	2.44	5.27	4,414	9,534	13,949
BLASTHOLES PLUS 5%		178,616	3.77	5.66	6,734	10,110	16,843
	(TO 27-JULY-89 ONLY)						

FOR COMPARISON
IN AUGUST 1989

ALL DILUTED BY 10% AT ZERO GRADE WITH 95% MINING RECOVERY

		TONNES	LEAD	ZINC	Pb METAL	Zn METAL	TOTAL METAL
	5% TO 7%	5,503	1.87	3.68	103	203	
	PLUS 7%	360,150	3.84	5.75	13,830	20,709	
MAXIPLAN	PLUS 5%	365,653	3.81	5.72	13,933	20,911	34,844
PCMINE	PLUS 5%	361,514	3.84	5.74	13,874	20,739	34,612
HAND CALC OF HI GRADE		336,736	3.77	6.06	12,695	20,406	33,101

HAND CALCULATION OF JULY AND AUGUST MINING RESERVES - *South Phase Only*

!-----POLYGON-----!															
PERIOD	BENCH	MAXIPLAN POLYGON	GEOLOGY SECTION	GEOLOGY POLYGON	SECTION LENGTH (ft)	HEIGHT (ft)	STRIKE LENGTH (ft)	VOLUME BCF	ORE DENSITY	ORE TONNES	LEAD	ZINC	METAL LEAD	METAL ZINC	
JULY	3670	FS6705	128	128-06	92	20	115	211,600	0.111	23,488	1.11	5.2	260.7	1,221.4	
JULY	3670	FS6705	128	128-09	12	20	105	25,200	0.111	2,797	1.11	5.2	31.0	145.5	
JULY	3670	FS6706	129	129-06	23	12	70	19,320	0.111	2,145	3.03	4.77	65.1	102.4	
JULY	3670	FS6706	128	128-10	77	20	140	215,600	0.111	23,932	2.88	5.76	690.2	1,378.5	
JULY	3690	FS6905	129	129-05	15	6	70	6,300	0.111	699	2.09	5.00	14.6	35.0	
JULY	3670	FS6707	129	129-07	20	20	70	28,000	0.111	3,108	1.75	4.78	54.4	148.6	
JULY	3650	FS6504	128	128-03	86	20	140	240,800	0.111	26,729	2.87	5.71	767.1	1,526.2	
JULY	3650	FS6504	129	129-03a	43	20	108	92,880	0.111	10,310	2.553	5.296	263.2	546.1	
JULY	3650	FS6504	129	129-03b	47	20	140	131,600	0.111	14,608	4.055	4.55	592.3	664.6	
JULY	3650	FS6504	129	129-03c	36	20	105	75,600	0.111	8,392	2.97	4.35	249.2	365.0	
JULY	3650	FS6504	128	128-04	85	20	116	197,200	0.111	21,889	1.11	5.2	243.0	1,138.2	
JULY	3650	FS6505						0	0.111	0			0.0	0.0	
JULY	3690	FS6902						0	0.111	0			0.0	0.0	
JULY	3690	FS6903						0	0.111	0			0.0	0.0	
JULY	3670	FS6703						0	0.111	0			0.0	0.0	
JULY	3670	FS6702	129	129-04	50	10	95	47,500	0.111	5,273	3.03	4.77	159.9	251.7	
JULY	3650	FS6501	128	128-05	53	20	105	111,300	0.111	12,354	1.14	5.20	140.8	642.4	
JULY	3650	FS6502	126	126-10	56	20	140	156,800	0.111	17,405	5.24	8.26	912.0	1,437.6	
JULY	3650	FS6503						0	0.111	0			0.0	0.0	
									1,559,700		173,127	2.57	5.55	4,444	9,603
											180,917	2.44	5.27	4,221	9,123

CURRAGH RESOURCES INC. - FARD MINE
 COMPARISON OF MAXIPLAN AND PCMINE CALCULATION OF JULY AND AUGUST MINING RESERVES

29-Jul-89

MAXIPLAN RESERVES FOR SOUTH PHASE ONLY AND CORRESPOND TO PLAN FLR-6

PERIOD	POLYGON SPECS		RAW MODEL DATA FOR FULL POLYGON				UNDILUTED PARTIAL POLYGON DATA FOR MONTH				DILUTED ESTIMATE FOR MONTH						
	BENCH	POLYGON	HEIGHT FACTOR	PLUS 5% VOLUME	PLUS 5% TONNES	LEAD	ZINC	MONTH HG VOLUME	MONTH HG TONNES	MONTH METAL LEAD	MONTH METAL ZINC	MONTH HG VOLUME	MONTH HG TONNES	MONTH METAL LEAD	MONTH METAL ZINC		
JULY	3690	FS6904	100	1	81320	9930	4.777	7.794	81,320	9,930	474.4	773.9	94,386	10,377	450.6	735.2	
JULY	3670	FS6705	100	1	160870	18980	4.161	8.562	160,870	18,980	789.8	1,625.1	185,844	19,834	750.3	1,543.8	
JULY	3670	FS6706	100	1	291680	33860	3.699	6.616	291,680	33,860	1,252.5	2,240.2	336,233	35,384	1,189.9	2,128.2	
JULY	3690	FS6905	100	0.5	34470	4010	2.598	4.568	17,235	2,005	52.1	91.6	19,873	2,095	49.5	87.0	
JULY	3670	FS6707	100	1	17680	1490	1.579	4.137	17,680	1,490	23.5	61.6	19,641	1,557	22.4	58.6	
JULY	3650	FS6504	100	1	601040	72330	3.256	4.994	601,040	72,330	2,355.1	3,612.2	696,211	75,585	2,237.3	3,431.6	
JULY	3650	FS6505	7.9	1	35360	4230	3.357	6.886	2,793	334	11.2	23.0	3,233	349	10.7	21.9	
JULY	3690	FS6902	100	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0	
JULY	3690	FS6903	100	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0	
JULY	3670	FS6703	100	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0	
JULY	3670	FS6704	100	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0	
JULY	3670	FS6702	100	0.5	223620	26600	3.429	6.436	111,810	13,300	456.1	856.0	129,310	13,899	433.3	813.2	
JULY	3650	FS6501	50	1	123740	13610	1.881	4.61	61,870	6,805	128.0	313.7	70,824	7,111	121.6	298.0	
JULY	3650	FS6502	100	1	88390	11520	4.055	4.623	88,390	11,520	467.1	532.6	103,548	12,038	443.8	505.9	
JULY	3650	FS6503	48	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0	
												1,659,102	178,229	5,709	9,623		
												DILUTED GRADE:		3.20	5.40		

FOR COMPARISON
 IN JULY 1989

ALL BUT BLASTHOLES DILUTED BY 10% AT ZERO GRADE WITH 95% MINING RECOVERY

	TONNES	LEAD	ZINC	Pb METAL	Zn METAL	TOTAL METAL
5% TO 7%	8,888	1.74	3.66	155	325	
PLUS 7%	163,967	3.43	5.74	5,624	9,412	
MAXIPLAN PLUS 5%	172,855	3.34	5.63	5,779	9,737	15,516
PCMINE PLUS 5%	178,229	3.20	5.40	5,709	9,623	15,333
HAND CALC OF HI GRADE	180,917	2.44	5.27	4,414	9,534	13,949
BLASTHOLES PLUS 5% (TO 27-JULY-89 ONLY)	178,616	3.77	5.66	6,734	10,110	16,843

CURRAGH RESOURCES INC. - FARD MINE
 COMPARISON OF MAXIPLAN AND PCMINE CALCULATION OF JULY AND AUGUST MINING RESERVES

29-Jul-89

MAXIPLAN RESERVES FOR SOUTH PHASE ONLY AND CORRESPOND TO PLAN FLR-6

POLYGON SPECS				RAW MODEL DATA FOR FULL POLYGON				DILUTED PARTIAL POLYGON DATA FOR MONTH				DILUTED ESTIMATE FOR MONTH				
PERIOD	BENCH	POLYGON	FRACT	HEIGHT	PLUS 5% VOLUME	PLUS 5% TONNES	LEAD	ZINC	MONTH HG VOLUME	MONTH HG TONNES	MONTH METAL LEAD	MONTH METAL ZINC	MONTH HG VOLUME	MONTH HG TONNES	MONTH METAL LEAD	MONTH METAL ZINC
AUGUST	3650	FS6505	92.1	1	35360	4230	3.357	6.886	32,567	3,896	130.8	268.3	37,693	4,071	124.2	254.9
AUGUST	3630	FS6305	100	1	1096010	133100	3.909	5.8	1,096,010	133,100	5,202.9	7,719.8	1,271,142	139,090	4,942.7	7,333.8
AUGUST	3630	FS6304	100	1	371230	46350	4.561	7.577	371,230	46,350	2,114.0	3,511.9	432,217	48,436	2,008.3	3,336.3
AUGUST	3610	FS6103	100	1	194450	24280	4.828	7.307	194,450	24,280	1,172.2	1,774.1	226,397	25,373	1,113.6	1,685.4
AUGUST	3610	FS6104	100	1	954590	116160	4.373	6.313	954,590	116,160	5,079.7	7,333.2	1,107,432	121,387	4,825.7	6,966.5
AUGUST	3610	FS6105	14	1	530330	64040	4.817	5.848	74,246	8,966	431.9	524.3	86,043	9,369	410.3	498.1
AUGUST	3650	FS6503	52	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0
AUGUST	3630	FS6302	50	1	212130	26390	3.579	5.295	106,065	13,195	472.2	698.7	123,427	13,789	448.6	663.7
AUGUST	3630	FS6303	100	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0
AUGUST	3610	FS6101	50	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0
AUGUST	3610	FS6102	100	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0
AUGUST	3590	FS5901	50	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0
AUGUST	3590	FS5902	100	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0
AUGUST	3570	FS5701	50	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0
AUGUST	3570	FS5702	100	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0
AUGUST	3550	FS5501	50	1	0	0	0	0	0	0	0.0	0.0	0	0	0.0	0.0

3,284,350 361,514 13,874 20,739

DILUTED GRADE: 3.84 5.74

FOR COMPARISON
 IN AUGUST 1989

ALL DILUTED BY 10% AT ZERO GRADE WITH 95% MINING RECOVERY

	TONNES	LEAD	ZINC	Pb METAL	Zn METAL	TOTAL METAL
5% TO 7%	5,503	1.87	3.68	103	203	
PLUS 7%	360,150	3.84	5.75	13,830	20,709	
MAXIPLAN PLUS 5%	365,653	3.81	5.72	13,933	20,911	34,844
PCMINE PLUS 5%	361,514	3.84	5.74	13,874	20,739	34,612
HAND CALC OF HI GRADE	336,736	3.77	6.06	12,695	20,406	33,101

POLYGON SPECS				RAW MODEL DATA FOR FULL POLYGON				UNDILUTED PARTIAL POLYGON DATA FOR MONTH				DILUTED ESTIMATE FOR MONTH				
PERIOD	BENCH	POLYGON	FRACT	HEIGHT FACTOR	PLUS 5% VOLUME	PLUS 5% TONNES	LEAD	ZINC	MONTH HG VOLUME	MONTH HG TONNES	MONTH METAL LEAD	MONTH METAL ZINC	MONTH HG VOLUME	MONTH HG TONNES	MONTH METAL LEAD	MONTH METAL ZINC
SEPT	3690	FS69R1	100	0.5	235600	26151.6	2.82	3.70	117,800	13,076	369	484	135,005	13,664	350	460
SEPT	3670	FS67R1	100	0.5	112000	12432	1.75	4.78	56,000	6,216	109	297	64,179	6,496	103	282
SEPT	3670	FS6701	100	1	201600	22377.6	2.54	4.2	201,600	22,378	568	940	231,044	23,385	540	893
SEPT	3610	FS6105	86	1	352800	39160.8	5.97	6.45	303,408	33,678	2,011	2,172	347,722	35,194	1,910	2,064
SEPT	3590	FS5903	100	1	1304800	144832.8	5.82	7.55	1,304,800	144,833	8,429	10,935	1,495,369	151,350	8,008	10,388
SEPT	3590	FS5904	100	1	169400	18803.4	5.14	8.37	169,400	18,803	966	1,574	194,141	19,650	918	1,495
SEPT	3570	FS5703	49	1	1957200	217249.2	3.75	6.49	959,028	106,452	3,992	6,909	1,099,097	111,242	3,792	6,563
													3,566,557	360,981	15,622	22,145
													DILUTED GRADE:		4.33	6.13

FOR COMPARISON
IN SEPTEMBER 1989

ALL DILUTED BY 10% AT ZERO GRADE WITH 95% MINING RECOVERY

		TONNES	LEAD	ZINC	Pb METAL	Zn METAL	TOTAL METAL
	5% TO 7%	42,558	2.1	3.74	894	1,592	2,485
	PLUS 7%	332,951	4.78	6.23	15,915	20,743	36,658
MAXIPLAN	PLUS 5%	375,509	4.48	5.95	16,809	22,335	39,143
PCMINE	PLUS 5%	NA	NA	NA	NA	NA	NA
HAND CALC OF HI GRADE		360,981	4.33	6.13	15,622	22,145	37,767

HAND CALCULATION OF JULY AND AUGUST MINING RESERVES

PERIOD	BENCH	POLYGON			STRIKE	VOLUME BCF	DRE DENSITY	DRE TONNES	LEAD	ZINC	METAL LEAD	METAL ZINC
		MAXIPLAN POLYGON	GEOLOGY SECTION	GEOLOGY POLYGON								
SEPT	FE8302					0	0.111	0			0.0	0.0
SEPT	FE7901					0	0.111	0			0.0	0.0
SEPT	FE7902					0	0.111	0			0.0	0.0
SEPT	FS6105	127	127-01	✓	92	20	120	0.86	189,888	0.111	21,078	5.63 5.05 1,186.7 1,064.4
SEPT	FS6105	127	127-01a	✓	55	20	120	0.86	113,520	0.111	12,601	6.55 8.79 825.3 1,107.6
SEPT	FS5903	127	127-10	✓	103	20	140	1	288,400	0.111	32,012	7.80 10.68 2,497.0 3,418.9
		126	126-11	✓	68	20	140	1	470,400	0.111	52,214	7.13 7.01 3,722.9 3,660.2
		128	128-11	✓	195	20	140	1	546,000	0.111	60,606	3.65 6.36 2,212.1 3,854.5
FS5904	126	126-14	✓	34	15	140	1	71,400	0.111	7,925	5.01 8.56 397.1 578.4	
		126	126-15	✓	35	20	140	1	98,000	0.111	10,878	5.24 8.26 570.0 898.5
FS5703	126	126-12	✓	46	20	140	0.49	63,112	0.111	7,005	5.2 4.49 364.3 314.5	
		126	126-13	✓	138	20	140	0.49	189,336	0.111	21,016	5.01 8.56 1,052.9 1,799.0
		126	126-14	✓	110	20	140	0.49	150,920	0.111	16,752	2.58 4.46 432.2 747.1
		127	127-11	✓	298	20	140	0.49	408,856	0.111	45,383	3.52 6.73 1,597.5 3,054.3
		127	127-12	✓	45	20	140	0.49	61,740	0.111	6,853	2.94 5.79 201.5 396.8
		128	128-12	✓	62	20	140	0.49	85,064	0.111	9,442	3.65 6.36 344.6 600.5
	FS69R1	128	129-10	✓	124	10	95	1	117,800	0.111	13,076	2.82 3.70 368.7 483.8
	FS67R1	129	129-11	✓	40	10	140	1	56,000	0.111	6,216	1.75 4.78 108.8 297.1
SEPT	FS6701	130	130-01		126	20	80	1	201,600	0.111	22,378	2.54 4.20 568.4 939.9
SEPT	FS5904							0	0.111	0	0.0	0.0
								345,436	4.76	6.75	16,450	23,316
								379,980	4.33	6.14		

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HAND CALCULATION OF JULY AND AUGUST MINING RESERVES

!-----POLYGON-----!															
PERIOD	BENCH	MAXIPLAN POLYGON	GEOLOGY SECTION	GEOLOGY POLYGON	SECTION LENGTH	STRIKE HEIGHT	STRIKE LENGTH	VOLUME BCF	ORE DENSITY	ORE TONNES	ORE LEAD	ORE ZINC	METAL LEAD	METAL ZINC	
				(ft)		(ft)									
AUGUST	3650	FS6505	127	127-03	120	20	140	336,000	0.111	37,296	2.33	5.25	867.1	1,956.2	
AUGUST	3630	FS6305	128	128-02	90	20	140	252,000	0.111	27,972	2.28	5.76	638.9	1,611.2	
AUGUST	3630	FS6305	128	128-02a	36	20	104	74,880	0.111	8,312	1.95	4.29	161.9	356.6	
AUGUST	3630	FS6305	127	127-06	75	20	82	123,000	0.111	13,653	5.97	9.48	814.4	1,294.3	
AUGUST	3630	FS6304	127	127-06	75	20	58	87,000	0.111	9,657	5.97	9.48	576.0	915.5	
AUGUST	3630	FS6305	129	129-02	130	20	110	286,000	0.111	31,746	4.04	4.21	1,282.5	1,336.5	
AUGUST	3630	FS6305	127	127-07	24	20	75	36,000	0.111	3,996	5.37	9.25	214.6	369.6	
AUGUST	3630	FS6304	127	127-07	24	20	70	33,600	0.111	3,730	5.37	9.25	200.3	345.0	
		FS6304	126	126-04	58	20	140	162,400	0.111	18,026	5.24	8.26	944.6	1,489.0	
AUGUST	3610	FS6103	126	126-02	20	20	140	56,000	0.111	6,216	5.24	8.26	325.7	513.4	
AUGUST	3610	FS6103	126	126-02a	9	20	140	25,200	0.111	2,797	0.18	0.21	5.0	5.9	
AUGUST	3610	FS6103	126	126-07	18	20	80	28,800	0.111	3,197	3.57	5.06	114.0	161.8	
AUGUST	3610	FS6103	126	126-08	17	20	140	47,600	0.111	5,284	5.01	8.56	264.7	452.3	
AUGUST	3610	FS6103	126	126-01	83	20	80	132,800	0.111	14,741	4.15	8.69	611.7	1,281.0	
AUGUST	3610	FS6103	126	126-09	22	20	92	40,480	0.111	4,493	2.56	5.50	115.0	247.1	
AUGUST	3610	FS6104	127	127-02	77	20	103	158,620	0.111	17,607	5.64	9.16	993.0	1,612.8	
AUGUST			128	128-01	172	20	106	364,640	0.111	40,475	2.70	5.96	1,092.8	2,412.3	
AUGUST			128	128-01a	18	20	140	50,400	0.111	5,594	2.08	4.23	116.4	236.6	
AUGUST	3610	FS6104	127	127-08	7	20	80	11,200	0.111	1,243	6.55	8.79	81.4	109.3	
AUGUST	3610	FS6105	127	127-01	92	20	120	220,800	0.111	24,509	5.63	5.05	1,379.8	1,237.7	
AUGUST	3610	FS6105	127	127-01a	55	20	120	132,000	0.111	14,652	6.55	8.79	959.7	1,287.9	
AUGUST	3650	FS6503						0	0.111	0			0.0	0.0	
AUGUST	3630	FS6302	126	126-05	87	20	140	243,600	0.111	27,040	3.78	4.86	1,021.2	1,315.0	
AUGUST	3630	FS6303						0	0.111	0			0.0	0.0	
AUGUST	3610	FS6101						0	0.111	0			0.0	0.0	
AUGUST	3610	FS6102						0	0.111	0			0.0	0.0	
AUGUST	3590	FS5901						0	0.111	0			0.0	0.0	
AUGUST	3590	FS5902						0	0.111	0			0.0	0.0	
AUGUST	3570	FS5701						0	0.111	0			0.0	0.0	
AUGUST	3570	FS5702						0	0.111	0			0.0	0.0	
AUGUST	3550	FS5501						0	0.111	0			0.0	0.0	
								2,567,020		322,235	3.97	6.38	12,781	20,547	
								Diluted:		336,736	3.77	6.06	12,142	19,520	