

Empire Mine Cash Flow Summary

PRODUCTION			
0.325% Cu cut-off	tons	12,794,000	
	% copper	0.60	
	% zinc	0.21	
0.20 % to 0.325% Cu cut-off	tons	5,181,000	
	% copper	0.27	
	% zinc	0.14	
Total ore	tons	17,975,000	
Total Tons ore & waste	tons	53,235,000	
Contained copper	lbs	180,363,000	
Contained zinc	lbs	66,181,000	
Contained copper	tons	90,182	
Contained zinc	tons	33,091	
Copper Recovery	%	76	
Zinc Recovery	%	50	
Scheduled Ore Production	per day	4,400	
Scheduled Ore Production	per year	1,600,000	
Mine life	years	11	
Average annual copper production years 1-9	tons	7,000	
Average annual zinc production years 1-9	tons	1,600	
Plus leaching low grade stockpile	years	9 to 11	
LOM copper cathode produced *	tons	68,500	
LOM zinc produced	tons	16,500	
REVENUE			
LOM average Cu price	\$/lb	3.25	
LOM average Zn price	\$/lb	1.35	
LOM net revenue after royalties, freight, insurance & TC	\$	461,346,000	
Revenue	\$/ton ore	26.11	
OPERATING COSTS			
LOM operating costs	\$	259,253,000	
LOM ave operating cost	\$/ton ore	14.69	
LOM ave operating cost	\$/lb Cu Equ	1.72	
LOM EBITDA	\$	202,093,000	
CAPITAL COSTS			
Pre production capital costs	\$	50,578,000	
LOM Sustaining capital costs	\$	25,306,000	
PROFIT AFTER TAX			
LOM Federal & State tax	\$	24,757,000	
LOM profit after tax	\$	177,336,000	
Ave annual after tax profit in years 1 to 5	\$	21,940,000	
Ave annual after tax profit in years 6 to 11	\$	11,273,000	
RESULTS			
	Cu \$/lb	NPV (7%) US\$	IRR %
	3.75	85,444,479	45%
	3.50	70,450,899	40%
	3.25	55,457,319	33%
	3.00	40,463,738	27%
	2.75	25,470,158	20%

LOM = life of mine