SYNOPSIS OF THE ECONOMIC POTENTIAL OF THE SIWASH MINE BASED ON PRELIMINARY ANALYSIS OF THE 1995 DRILL PROGRAM

The 1995 drilling program has effectively completed testing of the Mother Shoot vein on 10 meter by 10 meter centres to the 1500 meter level.

Analysis of the results to date has identified a drill indicated diluted mineable reserve using underground techniques of 14,538 tons at a grade of 0.93 oz/ton in four stoping blocks accessible with minimal development from the existing underground workings. Three of the proposed mining blocks occur as flatter lying (<45°) zones at the eastern end of the underground workings between the 1520 and 1600 meter levels. The fourth block is located in the steeper dipping structure below the "hinge" centred on the 2200E Section. A program to develop and subsequently extract the reserve has been costed assuming contracted mining services. The program could be completed in 6 months for an expenditure of \$5.2 million and could generate gross revenues of \$6.15 million. A development program designed only to "prove" the reserve would take about 2 months at a cost of \$1.2 million.

13,3200

Preliminary analysis of the drilling results has indicated a resource in excess of 25,000 ozs may be recoverable by open pit mining below and to the east of the existing pit.

The potential open pittable resource includes two of the stoping blocks included in the underground reserve. A preliminary pit design has been developed to exploit the resource primarily located in the "flat" zones between 2250E and 2380E section to the 1570 elevation. Assuming a mining recovery of 85%, an average grade of 1.5 oz/ton, an open pit would generate revenues of \$9.72 million at a cost of \$8.25 million.

Estimate Prehimiray

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An underground resource estimated at 6,770 ounces would remain to be extracted once the pit was complete, however, at projected costs these reserves would not be economic on a stand-alone basis with gross revenues of \$3.09 million against costs of \$3.17 million.

witten as the no more or will ever be found.

The high grade zone indicated by deep surface drilling at the west end of the Mother Shoot Zone continues to intrigue and additional surface drilling is recommended to test grade continuity before making any decision on future work. To access the deep zone with underground workings from the present face of the ramp will require an expenditure of \$2.0 million not inclusive of drilling costs.

At 100-120 tons per day production costs, excluding main ramp and level development, would not be less than \$285 per ton based on a 1.20 meter average mining width and 15% dilution assuming contract mining and custom milling. The economic cut-off grade is 0.60 oz/ton over 1.2 meters or 0.72 oz-meters/ton

Conclusions

Insufficient reserves have been generated to justify major expenditure on mining plant or processing equipment. The project must be continued to be considered primarily as an exploration bet using contract mining services or involving a joint venture partner with suitable equipment to salvage the economic zones outlined to date. The potential open pit option should be fully investigated prior to further decisions.

The Mother Shoot remains open to depth but additional surface drilling to assess grade continuity should be carried out before embarking on further development.

Jim McCormack. leccommends. "Salvage" OF OPEN PIT.

J. McCormack

Proposed Underground Production Program Drill Indicated Mineable Reserves

Reserve Block		1570-2365	1520-2330	1570-2305	1550-2200	Tota
Undiluted Block Reserve		4005	4 400	507	070	4004
Total Vein Area Krieged	sq.m.		1430	537	672	4624
Undiluted Avg Thickness	m.		0.81	0.61	0.63	
Tons		2561	2957	836	1069	7424
Grade - Oz/Ton		2.30		1.00	3.01	1.82
Oz - Gold		5883	3555	834	3218	13490
Diluted Block Reserve						
Diluted Tons					•	
Development		858	585	475	492	2411
Flat Dip Raises		2043	1415	451	0	3909
Flat Dip Resue		2461	2732	656	0	5849
C&F Stoping		0	0	0	2370	2370
Subtotal		5361	4732	1583	2862	14538
Ounces - Gold						
Development		417	379	201	553	1550
Flat Dip Raises		1421	826	165	0	2412
Flat Dip Resue		4045	2350	468	0	6864
C&F Stoping		0	0	0	2665	2665
Subtotal		5883	3555	834	3218	13490
Grade - Au- oz/ton				-		
Development		0.49	0.65	0.42	1.12	0.64
Flat Dip Raises		0.70	0.58	0.36		0.62
Flat Dip Resue		1.64	0.86	0.71		1.17
C&F Stoping			2.32	•	1.12	1.12
Subtotal		1.10	0.75	0.53	1.12	0.93

Proposed Underground Mining Program Project Cashflow Summary Developing and Stoping Currently Outlined Reserves

	Period		2	3	4	5	6		Total
pject Costs	Op Days	28	28	28	28	28	28	14	18
iject costs									
Access Development - Waste - 3.6 x 3.6									
Access Development - 3,06x2.8		\$56,448	\$67,880	\$22,865					\$147,19
Timber Drift - 2.4 x 2.4		\$14,231	\$37,951	\$18,975	,				\$71,15
Timber Drift - Resued		\$38,555	\$40,758						\$79,31
Open Raise - 1.2 x1.2			A 550 440						
Two Compartment Raise - 2.1 x 12. Subdrifting 1.5 x 2.1		\$15,771	\$52,418 \$5,405	64 724					\$52,41
Flat Dip Stope Raise - including strapping side wall		\$15,771	\$5,125 \$57,526	\$4,731					\$25,62 \$57,52
Resue Stoping - Flat Dip			\$37,320	\$313,556	\$350,502	\$289,140	\$180,552		\$1,133,78
Cut & Fill Stoping				\$30,685	\$40,913	\$40,913	\$40,913	\$3,653	\$157,07
Haulage includes loading from d/p's and muckbays		\$4,272	\$6,502	\$5,033	\$3,866	\$3,322	\$2,360	\$68	\$25,4
Mine Services - pumping compressed air, fans, electrical	dist., power generati		\$102,574	\$102,574	\$102,574	\$102,574	\$102,574	\$51,287	\$666,72
Contractor's Overhead	.,	\$42,050	\$42,050	\$42,050	\$42,050	\$42,050	\$42,050	\$21,025	\$273,32
Mining Equipment Lease Package		\$77,933	\$77,933	\$77,933	\$77,933	\$77,933	\$77,933	\$38,967	\$506,56
Contactors Fee &Profit 13%		\$35,607	\$53,662	\$70,261	\$70,188	\$62,140	\$47,898	\$9,884	\$349,64
Company Overhead		\$38,220	\$38,220	\$38,220	\$38,220	\$38,220	\$38,220	\$19,110	\$248,4
Maintenance Shop/Washbay		\$15,000	\$35,000						\$50,00
Sandfill Installations		0.440.000	\$50,000	0700 004	0700 040	4050 000	0500 500	A440 004	\$50,00
Subtotal Mining Costs Other Charges		\$440,662	\$667,601	\$726,884	\$726,246	\$656,293	\$532,500	\$143,994	\$3,894,17
Ore Shipping/Stockpiling 14540 ton	s 60 \$25					*.			\$363,50
Custom Milling 14540 ton	s @ \$50								\$727.00
Contingency @	5%								\$249,23
tal Project Costs									\$5,233,9
									\$359.9
venue Tons Milled	14540								
Head Grade	0.928								
Ounces of Gold in Heads	13490								
Overall Mill Recovery	95.0%								
% Gold to Flot Con	50.0%								
% Gold to Gravity	50.0%								
Ounces - Au Flot @ 10 oz/			•						
Ounces - Au Gravity @ 2000 oz/									
Total Ounces Recovered	12816								
Gold Price @ \$380.00 \$U	S/oz								
exchange @ \$0.74									
NSR - Flot Con @ \$471.00 \$C									
NSR - Gravity Con @ \$490.00 \$C	an per oż								\$6,157,84
oss Revenue at Profit before Taxes						سميست كنسويت			\$923,93

Preliminary Economic - Open Pit Mining Program Project Cashflow Summary Mining from Present Pit Wall to Section 2380E to !570 Elevation

			Period	Total
			Op Days	182
Assumptions				
Geologic Reserve	25000	ounces		
Estimated Mining Recovery	85%			
Recovered Grade	1.50	ounces/ton		
Tons of Ore	14167	tons		
Project Costs			,	
Contractor Mobilization and Demob.	,		lump	\$50,000
Overburden and Waste Stripping	1,100,000	cu. m. @	\$4.50	\$4,950,000
Ore and Waste Separation Mining		cu. m. @	\$15.00	\$1,500,000
Waste Dump Rehabilitation	7	days @	\$10,000	\$70,000
Sample Plant/ Ore Rehandling Operations	120	days @	\$500	\$60,000
On Site Management	182	days @	\$1,150	\$209,300
Subtotal Mining Costs	· .		• • • • • • • • • • • • • • • • • • • •	\$6,889,300
Other Charges		'''. '' 		
Ore Shipping/Stockpiling	14200	tons @	\$25	\$355,000
Custom Milling	14200	tons @	\$50	\$710,000
Contingency		@	5%	\$397,715
Total Project Costs				\$8,352,015
				\$588.17
Revenue				
Tons Milled			14167	
Head Grade - oz/ton			1.500	
Ounces of Gold in Heads		man and the same of the same o	21300	
Overall Mill Recovery			95.0%	
% Gold to Flot Con			50.0%	•
% Gold to Gravity			50.0%	
Ounces - Au Flot @		oz/ton	10118	
Ounces - Au Gravity @	2000	oz/ton	10118	
Total Ounces Recovered	4555 55	<u> </u>	20235	
Gold Price @	\$380.00	\$US/oz		
exchange @	\$0.74	00		· .
NSR - Flot Con @	\$471.00		per oz	
NSR - Gravity Con @	\$490.00	\$Can	per oz	60 700 040
Gross Revenue				\$9,722,918
Net Profit before Taxes				\$1,370,903
		<u> </u>		

Proposed Underground Mining Program Direct Project Costs by Type - excluding Contractors Fee and Profit, Capital Installations and, Ore Processing Costs

Summa	ry	Period	1	2	3	4	5	6	71	Total
	Work Units	operating days	28	28	28	28	28	28	14	182
	Distributed Labour Cost		\$164,794	\$237,193	\$308,064	\$311.660	\$279.238	\$221,863	\$54,306	\$1,577,11
	Material Cost		\$79,535	\$141,696	\$197,891	\$195,325	\$167,290	\$117,680	\$10,893	\$910,30
	Contracted Services		\$100,103	\$100,103	\$101,926	\$102,533	\$102,533	\$102,533	\$50,269	\$660,00
	Distributed Equipment Cost		\$45,622	\$49,947	\$48.742	\$46,540	\$45.091	\$42,527	\$18,642	\$297,11
otal	Cost		\$390,054	\$528,938	\$656,623	\$656,058	\$594,153	\$484,602	\$134,109	
	Unit Cost		\$13,931	\$18,891	\$23,451	\$23,431	\$21,220	\$17,307	\$9,579	\$3,444,536 \$18,926
bour	Detail	ms/unit Cost/ms Unit Cost	410,001	\$10,001	420,701	Ψ20, 1 01	981,220	\$17,307	\$9,579	\$10,92
	Manshifts									
	Proj. Management Project Supt	\$360.00	56	56	56	56	56	56	28	36
	Shift Foreman	\$306.00	28	28	28	28	28	28	14	18
	Geologist	\$250.00	28	28	28	28	28	28	14	18
	Eng/Surveyor	\$250.00	28	28	- 28	28	28	28	14	18
	Site Clerk/F.A.	\$180.00	28	28	28	28	28	28	14	18
	Operations Miner I	\$278.18	138	303	466	474	400	268	4	205
	Miner II	\$253.32				•	.50	230	.]	200
	Utilityman	\$278.18	56	56	56	56	56	56	28	36
	Support Crew	\$253.32	56	56	56	56	56	56	28	36
	Maintenance L.H. Journeyman	\$339.43	28	28	28	28	28	28	14	18
	Journeyman	\$315.15	28	28	28	28	28	28	14	18
	L.H. Surface	\$253.32					2.5	20	ןדי.	10
	Eq. Op I	\$203.06]	
	Labour Total	,,, ,, ,, ,, ,, ,, ,,, ,,								
	Manshifts Worked		474	639	802	810	736	604	172	423
	Wages & Fringes		\$134,132	\$180,263	\$225,421	\$227,712	\$207,053	\$170,495	\$49,167	423
	Bonus		\$30,663	\$56,930	\$82,644	\$83,948	\$72,185	\$51,368	\$5,139	
	Total Distributed Labour \$		\$164,794	\$237,193	\$308,064	\$311,660	\$279,238	\$221,863	\$54,306	\$1,577,11
terial	Detail	\$/			, , , , , , , , , , , , , , , , , , ,	35111550	72,0,250	42×1,000	407,000	ΨιστιΙΙ
		W.Unit							ł	
	Drill String		\$9,819	\$17,860	\$26,558	\$25,619	\$21,342	\$13,773	\$106	\$115.07
	Explosives		\$24,728	\$51,814	\$102,195	\$104,183	\$86.530	\$55,291	\$299	\$425,04
	Rockbolt Supplies		\$5,041	\$9,423	\$7,942	\$7,073	\$6,080	\$4,322	\$700	\$40.58
	Construction Material		\$11,321	\$22,957	\$22,770	\$22,078	\$19,664	\$15,392	\$1,315	\$115,49
	Pipe/Hose/Ducting		\$10,768	\$18,128	\$12,475	\$10,011	\$8,974	\$7,139	\$940	\$68,43
	Fuel/Lubricants	•				1	+2,0, 1	Ţ.,.OO	45.40	400,40
	Electrical/Mechanical Parts		\$5,782	\$5,819	\$6,514	\$6,720	\$6,720	\$6,720	\$2,900	\$41,17
	Tires/Tracks]	, , , , , , , , , , , , , , , , , , ,	4-,	75,514	40,, 20	40,1.20	40,120	¥2,500	Ψ-71,17
	Small Tools/Consumables		\$7,596	\$11,216	\$14,956	\$15,159	\$13,500	\$10,563	\$2,393	\$75,38
	Safety Supplies		\$1,680	\$1,680	\$1,680	\$1,680	\$1,680	\$1,680	\$840	\$10,92
	Office Supplies		\$2,800	\$2,800	\$2,800	\$2,800	\$2,800	\$2,800	\$1,400	\$18,20
	Reagents/Chemicals	,	7-,-30	42,000	42,500	42,000	45,000	Ψ2,000	¥1,+00	₩ 10,20
	Wear Components/Grinding Media						•		1	
	Total Material \$		\$79,535	\$141,696	\$197,891	\$195,325	\$167,290	\$117,680	\$10,893	\$910,30
ntrac	ed Services Detail									
	Consultants								1	
	Contractors				\$1,823	\$2,430	\$2,430	\$2,430	\$217	\$9,32
	Power Charges		1		•			1		+-102
	Telephone/Radio Charges		\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$1,750	\$22,75
	Insurance		\$5,370	\$5,370	\$5,370	\$5,370	\$5,370	\$5,370	\$2,685	\$34,90
	Assay/Testing		\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$1,750	\$22,75
	Accommodation				,	,		+ 5,000	÷ 1,1 55	Ψ& ~ , (\
	Transport/Fares									
	Freight/Carrier Charges		\$4,200	\$4,200	\$4,200	\$4,200	\$4,200	\$4,200	\$2,100	\$27,30
	Medical		Ţ., ,,,,,,,	+ 1,200	÷ 1,200	÷ 1,200	4-1,200	₩ -1,200	Ψ2,100	#21,3U
	Rents/Leases		\$83,533	\$83,533	\$83,533	\$83,533	\$83,533	\$83,533	\$41,767	\$ 542,96
	Licences/Fees		110,000	113,000	400,000	400,000	 ,	Ψ00,000	. 47,707	≠04 ∠,90
•	Taxes								l	
	I GLAGIO	1								

Proposed Underground Mining Program Project Cashflow Summary Mining Only 1520-2330 & 1550-2200 Reserve Blocks

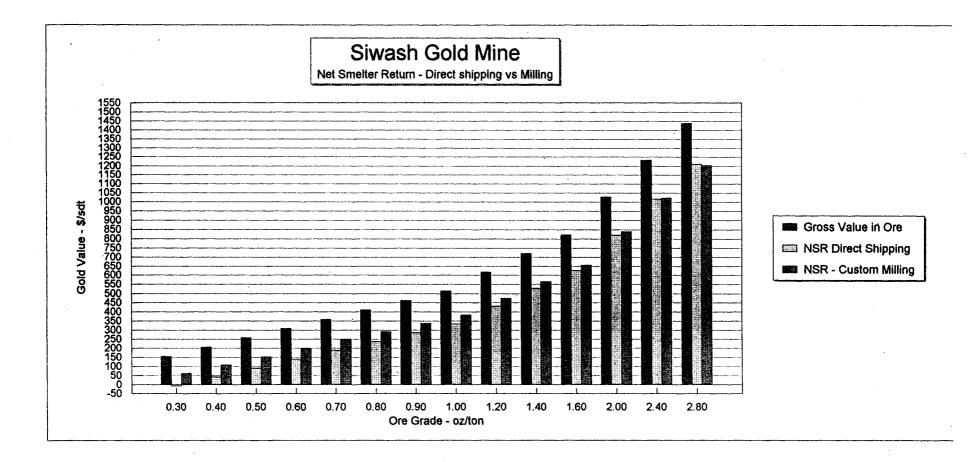
Project Costs Access Development - Waste - 3.6 x 3.6 Access Development - 3.05x2.8 Access Development - 3.05x2.8 Timber Drift - 2.4 x 2.4 Timber	otal
Access Development - Waste - 3.6 x 3.6	16
Access Development - 3.05x2.8 Timber Drift - 2.4 x 2.4 Timber Drift - 2	
Timber Drift - 2 4 x 2 4 Timber Drift - 2 8 x 2 4 Timber Drift - Resued Open Raise - 1 2 x 1 2 Two Compartment Raise - 2 1 x 12. Subdritting 1.5 x 2.1 Flat Dip Stope Raise - Including strapping side wall Resue Stoping - Flat Dip Cut & Fill Stoping Haulage includes loading from d/p's and muckbays Haulage includes loading from d/p's and muckbays Mine Services - pumping compressed air, fans, electrical dist, power generat Contractor's Overhead Mining Equipment Lease Package Contractor's Fee &Profit 13% Social Stoping Social Raise - Including strapping side wall Resue Stoping - Flat Dip Social Raise - Includes loading from d/p's and muckbays Mine Services - pumping compressed air, fans, electrical dist, power generat Social Raise - Includes loading from d/p's and muckbays Mining Equipment Lease Package Social Raise - Includes loading from d/p's and muckbays Mining Equipment Lease Package Social Raise - Includes loading from d/p's and muckbays Social Raise - Includes loadi	
Timber Drift - 2 & x 2 &	\$58,59
Timber Drift - Resued Open Raise - 12 x 1 2 Two Compartment Raise - 2 1 x 12. Two Compartment Raise - 2 1 x 12. Subdrifting 1.5 x 2.1 Flat Dip Stope Raise - including strapping side wall Resue Stoping - Flat Dip Cut & Fill Stoping Haulage Includes loading from d/p's and muckbays Mine Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Mining Equipment Lease Package Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Mining Equipment Lease Package Services - pumping compressed air, fans, electrical dist., power generat Company Overhead Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pumping compressed air, fans, electrical dist., power generat Services - pum	\$42,69
Two Compartment Raise - 2.1 x 12. Subdrifting 1.5 x 2.1 Flat Dip Stope Raise - including strapping side wall Resue Stoping - Flat Dip Cut & Fill Stoping Haulage includes loading from d/p's and muckbays Haulage includes loading from d/p's 420,500 \$42,050	V
Subdriffing 1.5 x 2.1 Flat Dip Stope Raise - including strapping side wall Resue Stoping - Flat Dip Cut & Fill Stoping Haulage includes loading from dip's and muckbays Mine Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Mining Equipment Lease Package Contractors Fee & Profit Company Overhead Maintenance Shop/Washbay Sandfill Installations Subtotal Mining Costs Other Charges Ore Shipping/Stockpiling Custom Milling Custom Milling Custom Milling Custom Milling Custom Milling Contractors Contingency Ore Shipping/Stockpiling Custom Milling Contractors Contingency Ore Shipping/Stockpiling Custom Milling Costs Ocher Charges Ore Shipping/Stockpiling Custom Milling Counces of Gold in Heads Ounces of Gold in Heads Ounces - Au Gravity Ounces - Au Gravity Ounces - Au Gravity Custom Stopy Custom Milling Costs Overall Mill Recovery Stopy Custom S	
Subdriffing 1.5 x 2.1 \$5,125 \$4,731 \$36,608 \$112,443 \$112,443 \$41,122 \$36,608 \$112,443 \$112,443 \$41,122 \$34,0913 \$40,913	\$52,4°
Flat Dip Stope Raise - including strapping side wall Resue Stoping - Flat Dip Stope Raise to Dip Stope Raise	\$9,8
Resue Stoping - Flat Dip Cut & Fill Stoping Haulage includes loading from d/p's and muckbays Haulage includes loading from d/p's and muckbays Mine Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Mining Equipment Lease Package Contactors Fee & Profit 13% Sandfall Installations Sandfall Installations Subtotal Mining Costs Contactors Overhead Maintenance Shop/Washbay Sandfall Installations Subtotal Mining Costs Contactors Overhead Maintenance Shop/Washbay Sandfall Installations Subtotal Mining Costs Contactors Overhead Contactors Overhead Maintenance Shop/Washbay Sandfall Installations Subtotal Mining Costs Contactors Overhead Tons Milled Head Grade Ounces of Gold in Heads Ounces of Gold in Heads Ounces - Au Flot @ 10 oz/ton 3217 Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered Gold Price @ \$380.00 \$471.00 \$can per oz NSR - Gravity Con @ \$490.00 \$can per oz	\$36,60
Haulage includes loading from d/p's and muckbays Mine Services - pumping compressed air, fans, electrical dist., power generat Mine Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Mining Equipment Lease Package Contactor's Gverhead Mining Equipment Lease Package Contactor's Fee &Profit 13% \$26,748 \$3,174 \$1,872 \$1,749 \$1,756 \$1,766 \$1,766 \$1,766 \$1,766 \$1,124 \$42,050 \$42,000 \$42,000 \$42,000 \$42,000 \$42,000 \$42,000 \$42,0	\$378,4
Haulage includes loading from d/p's and muckbays Mine Services - pumping compressed air, fans, electrical dist., power generat Mine Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead Mining Equipment Lease Peckage Contactor's Coverhead Mining Equipment Lease Peckage Contactor's Fee &Profit 13% \$26,748 \$3,748 \$3,748 \$3,748 \$3,748 \$3,768 \$37,768 \$37,768 \$37,768 \$37,768 \$37,768 \$37,768 \$37,768 \$37,768 \$37,769 \$37,029 \$342,050 \$342,00 \$34,000 \$35,000 \$35,000 \$35,000 \$35,000 \$34,000,000 \$35,000 \$34,000,000 \$35,000 \$34,000,000 \$35,000 \$34,000,000 \$35,000 \$34,000	\$157,07
Mine Services - pumping compressed air, fans, electrical dist., power generat Contractor's Overhead \$47,050 \$42,050 \$4	\$11,4
Contractor's Overhead Mining Equipment Lease Package Contactors Fee &Profit 13% See, 133 See, 120 See, 130 See, 120 See, 130 See, 120 See, 130 See, 120 See, 130 See, 120 See,	\$526,0
Mining Equipment Lease Package Contactors Fee &Profit 13% \$68,133 \$68,	\$252,30
Contactors Fee &Profit Company Overhead Maintenance Shop/Washbay Sandfill Installations Subtotal Mining Costs Other Charges Ore Shipping/Stockpiling Custom Milling Custom Milling Contingency Otal Project Costs evenue Tons Milled Head Grade Ounces of Gold in Heads Overall Mill Recovery % Gold to Gravity Ounces - Au Flot & 10 oz/ton % Gold Price & \$380.00 \$US/oz exchange @ \$17.00 \$Can NSR - Flot Con & \$449.00 \$Can NSR - Gravity Con & \$449.00 \$Can Per oz Sandfill Installations \$36,20 \$36,820 \$36	\$408.80
Company Overhead \$36,820 \$	\$198,3
Maintenance Shop/Weshbay \$15,000 \$35,000 \$50,000 \$50,000	\$220.9
Sandfill Installations \$50,000 Subtotal Mining Costs \$352,423 \$477,216 \$424,733 \$426,824 \$426,824 \$345,516	\$50,0
Subtotel Mining Costs \$352,423 \$477,216 \$424,733 \$426,824 \$426,824 \$345,516	\$50,00
Other Charges Ore Shipping/Stockpiling 7600 tons @ \$25 Custorn Milling 7600 tons @ \$50 cotal Project Costs 5% evenue Tons Milled 7600 Head Grade 0.891 Ounces of Gold in Heads 6773 Overall Mill Recovery 95.0% % Gold to Flot Con 50.0% % Gold to Gravity 50.0% Ounces - Au Flot @ 10 oz/ton 3217 Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered 6434 Gold Price @ \$380.00 \$US/oz exchange @ \$471.00 \$Can per oz NSR - Flot Con @ \$490.00 \$Can per oz	\$2,453,53
Custor Milling	
Custor Milling	\$190,00
Contingency	\$380,0
evenue Tons Milled Head Grade Ounces of Gold in Heads Overall Mill Recovery % Gold to Flot Con % Gold to Gravity Ounces - Au Flot @ 10 oz/ton Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered Gold Price @ \$380.00 \$US/oz exchange @ \$0.74 NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	\$151.1
Tons Milled 7600 Head Grade 0.891 Ounces of Gold in Heads 6773 Overall Mill Recovery 95.0% % Gold to Flot Con 50.0% % Gold to Gravity 50.0% Ounces - Au Flot @ 10 oz/ton 3217 Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered 6434 Gold Price @ \$380.00 \$US/oz exchange @ \$0.74 NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	\$3,174,7
Tons Milled 7600 Head Grade 0.891 Ounces of Gold in Heads 6773 Overall Mill Recovery 95.0% % Gold to Flot Con 50.0% % Gold to Gravity 50.0% Ounces - Au Flot @ 10 oz/ton 3217 Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered 6434 Gold Price @ \$380.00 \$US/oz exchange @ \$0.74 NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	\$417.
Head Grade 0.891 Ounces of Gold in Heads 6773 Overall Mill Recovery 95.0% % Gold to Flot Con 50.0% % Gold to Gravity 50.0% Ounces - Au Flot @ 10 oz/ton 3217 Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered 6434 Gold Price @ \$380.00 \$US/oz exchange @ \$0.74 NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	
Ounces of Gold in Heads 6773 Overall Mill Recovery 95.0% % Gold to Flot Con 50.0% % Gold to Gravity 50.0% Ounces - Au Flot @ 10 oz/ton 3217 Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered 6434 Gold Price @ \$380.00 \$US/oz exchange @ NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	
Overall Mill Recovery 95.0% % Gold to Flot Con 50.0% % Gold to Gravity 50.0% Ounces - Au Flot @ 10 oz/ton 3217 Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered 6434 Gold Price @ \$380.00 \$US/oz exchange @ exchange @ \$0.74 NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	
% Gold to Flot Con 50.0% % Gold to Gravity 50.0% Ounces - Au Flot @ 10 oz/ton 3217 Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered 6434 Gold Price @ \$380.00 \$US/oz exchange @ NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	
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Ounces - Au Gravity @ 2000 oz/ton 3217 Total Ounces Recovered 6434 Gold Price @ \$380.00 \$US/oz exchange @ \$0.74 NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	
Total Ounces Recovered 6434 Gold Price @ \$380.00 \$US/oz \$380.00 \$US/oz exchange @ \$0.74 \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz \$490.00 \$Can per oz	
Gold Price @ \$380.00 \$US/oz exchange @ \$0.74 NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	
exchange @ \$0.74 NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	
NSR - Flot Con @ \$471.00 \$Can per oz NSR - Gravity Con @ \$490.00 \$Can per oz	
NSR - Gravity Con @ \$490.00 \$Can per oz	
	\$3,091,70
Net Profit before Taxes	(\$83,00

Proposed Development - Current Stoping Blocks

Stoping Block	Access Drifts		Cut Drifts	Subdrifts	Ra	aises	Total
	& X/Cuts	Resued	Timber		Open	Timbered	
1570-2365							
Top Acc.	95		40				J
Bottom	27	5	40	40	26	•	ł
Remuck	10	_		70	20	•	
1570-2305							243
Top Acc	32						l
Bottom		37	20		18		
1550-2200							107
Top Acc			10				
Bottom	10		.0	25		57	
Remuck	10			20		57	
1520-2330		•	,				112
Bottom	22		35		77		
Remuck	10				77		
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			144
otal	216	42	105	65	121	57	606

Proposed Underground Mining Program Project Cashflow Summary Extending Current Ramp from 1510 to 1425

Perio	od	1	2	3	4	5	6	Total	\$/Meter
Op [Days	28	28	28	28	28		140	1
Project Costs meter	ers	84	168	168	258	.118		796	
Access Development - Waste - 3.6 x 3.6		\$56,065	\$112,130	\$112,130	\$97,446			\$377,771	\$474.59
Access Development - 3.06x2.8			• • • • • • • • • • • • • • • • • • • •	,	\$15,720	\$41,443		\$57,162	
Timber Drift - 2.4 x 2.4		•				,			1
Timber Drift - Resued									l:
Open Raise - 1.2 x1.2	1				\$38,217	\$25,478		\$63,695	\$80.02
Two Compartment Raise - 2.1 x 12.	1								Į.
Subdrifting 1.5 x 2.1	.								1
Flat Dip Stope Raise - including strapping side wall									•
Resue Stoping - Flat Dip									
Cut & Fill Stoping	1								
Haulage includes loading from d/p's and muckbays		\$4,021	\$8,041	\$8,041	\$8,283	\$2,356		\$30,742	
Mine Services - pumping compressed air, fans, electrical dist., power (generati	\$87,678	\$87,678	\$87,678	\$87,678	\$87,678		\$438,392	
Contractor's Overhead		\$42,050	\$42,050	\$42,050	\$42,050	\$42,050		\$210,252	
Mining Equipment Lease Package		\$77,933	\$77,933	\$77,933	\$77,933	\$77,933		\$389,667	
Contactors Fee &Profit 13%	}	\$24,676	\$32,487	\$32,487	\$37,621	\$25,871		\$153,142	\$192.39
Company Overhead	}	\$38,220	\$38,220	\$38,220	\$38,220	\$38,220		\$191,100	
Maintenance Shop/Washbay		\$15,000	\$35,000					\$50,000	\$62.81
Sandfill Installations	<u> </u>					****			
Subtotal Mining Costs		\$345,644	\$433,540	\$398,540	\$443,169	\$341,029		\$1,961,923	\$2,464.73
Other Charges									
]
Contingency @	5%							\$98,096	
Total Project Costs			··· · · · · · · · · · · · · · · · · ·					\$2,062,484	
									l



Ex Mine Net Smelter Return Calculations - Direct Shipping Ore versus Custom Milling at Greenwood

Grade of Ore	oz/sdt		0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.20	1.40	1.60	2.00	2.40	2.80
Gold Price	\$380.00 \$US/oz @	\$0.74 exchange														
	\$513.51															
Gross Value at Portal	\$/sdt		\$154.05	\$205.41	\$256.76	\$308.11	\$359.46	\$410.81	\$462.16	\$513.51	\$616.22	\$718.92	\$821.62	\$1,027.03	\$1,232,43	\$1,437.84
Direct Shipping Ore - C Costs	Current Asarco Terms							. •								
	Stockpile/Rehandle Trucking to Ashcroft Rail Transport to Helena Treatment Charge	\$5.00 \$/sdt \$13.00 \$/sdt \$33.76 \$/sdt \$101.35 \$/sdt														
1	Gold Deduction	4.0% of contained gold	\$6,16	\$8.22	\$10,27	\$12.32	\$14,38	\$16.43	\$18.49	\$20.54	\$24.65	\$28.76	\$32.86	\$41.08	\$49.30	\$57.51
	Refining Charge	\$6.50 per accountable oz	\$1.87	\$2.50	\$3.12	\$3.74	\$4.37	\$4.99	\$5.62	\$6.24	\$7.49	\$8.74	\$9.98	\$12.48	\$14,98	\$17.47
	Sub total	\$/sdt	\$161.17	\$163.85	\$166.53	\$169.20	\$171.88	\$174.56	\$177.24	\$179.92	\$185.27	\$190.63	\$195.98	\$206.70	\$217.41	\$228.12
	edt ex Portal	\$/sdt	(\$7.12)	\$41.56	\$90.23	\$138.90	\$187.58	\$236.25	\$284.92	\$333.60	\$430.94	\$528.29	\$625.64	\$820.33		
NSR as p	ercent of contained gold in ore	ex- portal	-5%	20%	35%	45%	52%	58%	62%	65%	70%	73%	76%	80%	82%	84%
	Mines Mill at Greenwood very Overall Gold to Flot Gold to Gravity Flot Con Grade Gravity Con Grade	95% 50% . 50% 10 oz/ton 2000 oz/ton														
Gold in Fla Gold in G			0.143 0.143 \$67,16	0.190 0.190 \$89.55	0.238 0.238 \$111.93	0.285 0.285 \$134.32	0.333 0.333 \$156,71	0.380 0.380 \$179.10	0.428 0.428 \$201.48	0.475 0.475 \$223.87	0.570 0.570 \$268.64	0.665 0.665 \$313.42	0.760 0.760 \$358.19	0.950 0.950 \$447.74	1.140 1.140 \$537.29	1.330 1.330 \$626.83
	avity Con ex mill		\$69.87	\$93.16	\$116.46	\$139.75	\$163.04	\$186.33	\$209.62	\$232.91	\$279.49	\$313.42 \$326.08	\$372.66	\$465.82	\$558.99	
NSR Tota			\$137.03	\$182.71	\$228.39	\$274.07	\$319.75	\$365.42	\$411.10	\$456.78	\$548.14	\$639.49	\$730.85	\$913.58		
less	Custom Milling Trucking Ore Stockpiling/Rehandle Subtotal	\$50.00 \$/sdt \$20.00 \$/sdt \$5.00 \$/sdt \$75.00 \$/sdt	4. 37.03	\$102.71	\$220.00	42.4.0 1	\$0.13.10	\$000.4 <u>2</u>	\$ -11.10	\$-100.70	\$ 0-0.14	\$ 000.40	<i>\$1.50.00</i>	4010.00	\$1,050.27	φι,ε10. 55
NSR ex P	ortai		\$62.03	\$107.71	\$153.39	\$199.07	\$244.75	\$290.42	\$336.10	\$381.78	\$473.14	\$564.49	\$655.85	\$838.56	\$1,021.27	\$1,203.99
NSR as p	ercent of contained gold in ore	ex- portal	40%	52%	80%	65%	68%	71%	73%	74%	77%	79%	80%	82%	83%	84%

	Value of	Flot Con per sdt		\$5,135.1
		Payable 97.0%		\$4,981.0
	iess	Con Beg cost per sdt		\$30.0
	1000	Freight cost per sot		\$50.0
		Treatment cost per sot		\$125.0

		Refining Charge per Oz @	\$6.50	\$63.0
		Net Smelter Return per sdt of	Flot Con	\$4,713.0
		All A Constitute Continue and a second lead	Flat Oca	\$471.3
		Net Smelter Return per oz in i	riot Con	\$ 971. 3
Gr avity (Con Net Sme	Net Smetter Return per oz in i		4471. 0
Gravity (•		\$1,027,02
Gravity (Value of	elter Return Calculation - Johnson I		•
Gravity (Value of	elter Return Calculation - Johnson (Gravity Con per sdt Payable 96.5%	Matthey	\$1,027,02 \$991,08
Gravity (Value of % Gold	etter Return Calculation - Johnson (Gravity Con per sdt Payable 96.5% Con Pails cost per sdt		\$1,027,02 \$991,08 \$1,000.0
Gravity (Value of % Gold	eiter Return Calculation - Johnson i Gravity Con per sdt Payable 96.5% Con Pails cost per sdt Freight & Insurance per sdt	Matthey	\$1,027,02 \$991,08 \$1,000.0 \$2,500.0
Gravity (Value of % Gold	etter Return Calculation - Johnson (Gravity Con per sdt Payable 96.5% Con Pails cost per sdt	Matthey	\$1,027,02 \$991,08 \$1,000.0
Gravity (Value of % Gold less	etter Return Calculation - Johnson i Gravity Con per sdt Payable 96.5% Con Pails cost per sdt Freight & insurancet Treatment cost per sdt	Matthey	\$1,027,02 \$991,08 \$1,000.0 \$2,500.0 \$6,900.0

Equipment Package - Underground Program

Description	Units	Estimated	Units x	Monthly
ļ		New Value	Value	Lease @
				4.50%
Dry/Office on lease from ATCO	1			\$2,850
125 kw Gen set	1	\$30,000	\$30,000	\$1,350
275 kw Gen set	1	\$75,000	\$75,000	\$3,375
900 cfm Compressor	2	\$75,000	\$150,000	\$6,750
2 cy Scooptram	1	\$225,000	\$225,000	\$10,125
1 cy Scooptram	2	\$171,000	\$342,000	\$15,390
1/2 cy Scooptram		\$55,000	\$0	\$0
13 ton Truck	1	\$260,000	\$260,000	\$11,700
Jacklegs/Stopers	20	\$3,500	\$70,000	\$3,150
Slushers	5	\$10,000	\$50,000	\$2,250
Shop/Warehouse	1	\$150,000	\$150,000	\$6,750
Initial Small Tool/Equipment Package	1	\$50,000	\$50,000	\$2,250
Fuel Tanks	2	\$2,500	\$5,000	\$225
Fans	4	\$7,500	\$30,000	\$1,350
Pumps	6	\$15,000	\$90,000	\$4,050
Pickups - fully licenced	4	\$30,000	\$120,000	\$5,400
966 FEL	1	\$200,000	\$200,000	\$9,000
Total Lease Package			\$1,847,000	\$83,115