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Vulture Metalurgical

PAY DIRT MAGAZINES
P. O. DRAWER 48
BISBEE, AZ 85603

INVOICE # 21805
12/19/90

Budge, A. F. Mining
4301 N. 75th St. Suite 105
Scottsdale, AZ 85251-3504

ORDER #

AD #	KEYLINE	COL IN.			CHARGE
703	GOLD RECOVERY PLANT	10.00	DEC SW Y	RM Y	$333.20

MISC CHARGES

12/20/90	21805	$333.20

$333.20

VULTURE MINE PROJECT
VOLUME & GRADE CALCULATION
FOR STAMP MILL TAILINGS

MH 3/84

Polygon (Hole No.)	Reading(sq in) 1st	2nd	Avg.	Depth Ft	Vol CuFt	Assay(opt) Au	Ag
T- 1	0.59	1.20	0.60	25.0	150,000	0.053	
T- 2	0.49	0.96	0.48	20.0	96,000	0.044	
T- 3	0.44	0.92	0.46	17.0	78,200	0.034	
T- 4	0.32	0.64	0.32	15.0	48,000	0.035	
T- 5	0.65	1.30	0.65	17.0	110,500	0.023	
T- 6	1.12	2.22	1.11	17.0	188,700	0.031	
T- 7	0.76	1.54	0.77	20.0	154,000	0.048	
T- 8	0.87	1.72	0.86	15.0	129,000	0.040	
T- 9	1.14	2.30	1.15	15.0	172,500	0.037	
T-10	1.23	2.44	1.22	7.0	85,400	0.041	
T-11	1.06	2.14	1.07	5.0	53,500	0.055	
T-12	1.04	2.10	1.05	5.0	52,500	0.035	
T-13	0.95	1.88	0.94	15.0	141,000	0.052	
T-14	0.84	1.64	0.82	10.0	82,000	0.048	
T-15	0.50	0.98	0.49	9.0	44,100	0.048	
T-16	0.93	1.84	0.92	11.0	101,200	0.037	
T-17	1.03	2.04	1.02	4.0	40,800	0.020	
T-18	1.60	3.16	1.58	5.0	79,000	0.040	
T-19	1.45	2.88	1.44	10.0	144,000	0.043	
T-20	1.65	3.28	1.64	10.0	164,000	0.035	
T-21	1.01	2.04	1.02	17.0	173,400	0.035	
T-22	0.99	1.96	0.98	20.0	196,000	0.026	
T-23	1.65	3.26	1.63	14.0	228,200	0.022	
T-24	0.98	1.98	0.99	17.0	168,300	0.011	
T-25	0.94	1.88	0.94	17.0	159,800	0.016	
T-26	0.96	1.94	0.97	9.0	87,300	0.020	
T-27	0.98	1.94	0.97	17.5	169,750	0.020	
T-28	1.04	2.10	1.05	15.0	157,500	0.013	
T-29	1.03	2.06	1.03	17.0	175,100	0.017	
T-30	0.97	1.92	0.96	8.0	76,800	0.021	
T-31	1.12	2.26	1.13	13.0	146,900	0.016	
T-32	1.00	2.00	1.00	5.0	50,000	0.030	
T-33	0.89	1.78	0.89	5.0	44,500	0.035	
T-34	0.84	1.70	0.85	5.0	42,500	0.035	
T-35	1.00	1.96	0.98	5.0	49,000	0.035	
T-36	0.96	1.94	0.97	5.0	48,500	0.040	
T-37	1.09	2.20	1.09	8.0	87,200	0.029	
T-38	0.90	1.78	0.89	8.0	71,200	0.037	
T-39	0.95	1.92	0.96	3.0	28,800	0.010	
T-40	1.38	2.80	1.40	8.0	112,000	0.016	

VULTURE MINE PROJECT
VOLUME & GRADE CALCULATIONS
FOR STAMP MILL TAILINGS (cont)

Polygon (Hole No.)	Readings (sq in) 1st	2nd	Avg	Depth Ft	Vol CuFt	Assay(opt) Au	Ag
T-41	0.65	1.32	0.66	8.5	56,100	0.064	
T-42	1.08	2.12	1.06	4.0	42,400	0.050	
T-43	1.01	2.00	1.00	3.0	30,000	0.025	
T-44	0.85	1.72	0.86	8.0	68,800	0.051	
T-45	1.20	2.38	1.19	4.0	47,600	0.025	
T-46	1.12	2.28	1.14	2.0	22,800	0.020	
T-47	1.38	2.72	1.36	8.0	108,800	0.046	
T-48	1.36	2.70	1.35	5.0	67,500	0.040	
T-49	-.--	-.--	-.--	1.0	--.---	0.018	
T-50	0.40	0.80	0.40	9.0	36,000	0.044	
T-51	0.55	1.08	0.54	20.0	108,000	0.038	
T-52	0.98	1.98	0.99	18.0	178,200	0.051	
T-53	2.10	4.20	2.10	13.0	273,000	0.043	
T-54	0.45	0.92	0.46	10.0	46,000	0.048	
T-55	0.47	0.94	0.47	18.0	84,600	0.042	
T-56	1.20	2.42	1.21	17.0	205,700	0.014	
T-57	1.62	3.22	1.61	17.0	273,700	0.012	
Totals			55.69	11.3	6,036,350	0.032	
Totals @ 0.020 Cutoff					4,608,550	0.038	
Totals @ 0.025 Cutoff					3,872,400	0.041	
Mat'l bet. 0.020-0.0249					736,150	0.021	
Mat'l -0.020					1,427,800	0.014	

Tonnages @ 20.47 CuFt/Ton

Volume(CuFt)	Grade Au (opt)	Tons	Ounces
6,036,350	0.032	294,900	9,436
4,608,550	0.038	225,100	8,554
3,872,400	0.041	189,200	7,757
736,150	0.021	35,900	754
1,427,800	0.014	69,700	976

Carrera-O'Brien

Completed

11-05 1) hole H-1 (130') deepened to 300' (+170)
open stope/workings 181-202; lost 202-211; qd rx to EOH

11-05 2) H-15 26,375 N - 21,555 E vertical to 200'
370'

11-06 3) H-16 26,375 N - 21,060 E angled @ 60°S to 160'
workings 68-74; h.w. mineralized

11-06 4) H-17 26,375 N - 20,990 E " " "
workings 50-55; py. qtz @ 125-130

11-06 5) H-18 (in wash) 26,300 N - 20,850 E " " "
qtz w/py 60-65; py 135-140; possible fault 80-100 mylonite?
calcareous interval
480'

11-07 6) H-19 (") 26,420 N - 20,850 E " to 140'

11-07 7) H-20 (") 26,300 N - 20,785 E " to 160'
5-10% py in interval 110-130

11-07 8) H-21 (") 26,420 N - 20,785 E " "
460'

sub-total 1,310 ft.

11-08 9) H-22 26,370 N - 20,665 E -60°S 160'
qd. looking qtz 50-60; 65-70 w/tr. py

11-08 10) H-23 26,240 N - 20,200 E -60°S 100'
porphyry intrusive

11-08 11) H-24 26,300 N - 20,385 E vertical 200'

11-08 12) deepened H-12 to 250' vertical (+130)

11-09	H-25	26,300 N	20,465 E	-60° S	140'
11-09	H-26	26,420 N	20,465 E	-60° S	150'
11-09	H-27	26,420 N	20,385 E	vertical	180'
11-09	H-28	26,540 N	20,400 E	-60° S	120'
11-10	H-29	60' n.15°e. from 84-16		-60° S	55'
		gd. qtz 35-40 no obvious sulfide			
11-10	H-30	150' s.65° w from 84-4		-60° S	140'
		70-75 w/qtz + Fe			
11-10	H-31	25' se of P-8		vertical to 340'	
		gravel to 20'; 2% py @ 295'-300'; 300-340 trace py			
11-11	H-32	26,375 N	21,415 E	-60° S	150'
		Fe stain 20-60; 100-150			
11-11	H-33	26,580 N	21,000 E	-60° S	120'
		Fe stain 10-15; 35-45; 75-80; 110-115			
11-11	H-34	26,580 N	20,800 E	-60° S	120'
		qtz + iron 45-70'			
11-11	H-35	26,360 N	20,580 E	vertical	100'.
		porphyry intrusive; 45-70 poss. min.			

dozer hd
16 hrs
$1200

Total vertical holes	7	1320	× 6.75	$ 8,910
" angle holes	16	2195'	7.76	17,033.20
	23	3515		25,943.20
			+	1,000 mob'n
680 samples @ $8			+	1,955 move
$5,440.00				$ 28,898.20

all units assumed to dip 50° N

On vertical holes:

h = depth × .839

true width on vertical

t.w. = interval × .766

depth to zone

on angled holes

h = depth × 1.227

on angled holes

t.w. = interval × .940

depth × .866

Block A

~~16.1' 0.046~~

200' X 10 X 100 ÷ 12

= 16,000 t.

9.4	0.03	23.5	0.383
9.6	0.06	19.3	043
23.5	0.074		

0.057

3.338

11.569 .174

150 X 20 X 100 ÷ 12

25,000 t.

BLOCK A 20,000 t 0.070

				23.5	055
23.5	08	14.1	035	14.1	048
18.8	06	37.6	061	14.1	.155
18.8	048	18.8	.855	18.8	078

BLOCK

B	3.910	18.861	4.329	5.621
B1	0.064	0.268	.092	0.080
B2				

3 [250 X 15 X 100 ÷ 12]

31,250

93,750 tons 0.141

14.1	0.067	16.1	045	9.4	055
9.4	0.039	18.8	055	19	027
7.7	0.046	9.6	030	16.1	092
32.9	0.031	14.1	032	32.9	048

2.685	2.498	3.992
0.042	0.043	0.052

25,000

10' 15' 37,500 15'

300' X 10 X 100 ÷ 12

100,000

947-5584

SOUTHWESTERN

PAY DIRT

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The BFGoodrich Company.

ENVIRONMENTAL SOLUTIONS

McCutchan questions suggestion to cut mine inspector's post

Power failure causes toxic cloud to escape Kennecott plant