

# **Faosimile** TRANSMISSION

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**to:** Paula Spencer  
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**from:** Stephen Schultz

**date:** June 10, 1999

**subject:** Volume of Arsenic Bearing Dust

**pages:** three

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Hi Paula,

On the second table attached, I originally thought that the volumes listed were the volumes of the chambers themselves, so I started to calculate the total volume of stored dust based on the average bulk density for the material and the tonnage of arsenic delivered to each chamber (this is calculated by mass balance).

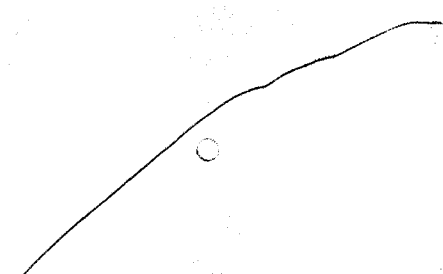
The volume I came up with actually exceeds the total volume listed for all of the previously and currently used chambers. I guess the volume numbers listed must actually refer to the dust volume rather than the chamber volume.

Anyway, to cut a long story short, and for our purposes, let's go with 8 million cubic feet.

What about comparing this volume with the Explorer Hotel building? It seems to be a simple shape. Perhaps you could get the outer dimensions from the hotel management or the architectural firm.

Regards,

*Stephen*



# Table 5

## Summary of Conditions of Arsenic Chambers - Geocon Test in 1981

Chamber	Geocon Hole #	Density (range) (lb./cu.ft.) <i>AVG.</i>	Specific Gravity	Angle of Repose	Moisture Content
B 230	#5	48.3 - 77.3 <i>62.8</i>	3.17	47.7	6.4% (wet on bottom)
B 233	#6	50.7 - 82.3 <i>66.5</i>	3.15	46.7	2-6% (wet on bottom)
B 234	#7	55.6 - 85.3 <i>70.5</i>	3.23	46.1	1-4% (moister on top)
B 235 / 236	#8	53.3 - 84.2 <i>68.8</i>	2.59	46.7	<2%
	#9	41.6 - 74.6 <i>58.1</i>	3.79	48.7	<1%
B 208	#4	39.7 - 69.1 <i>54.4</i>	3.22	46.4	2.8% (wet on bottom)
C 9	#11	55.1 - 91.1 <i>73.1</i>	3.06	48.0	1-2%
	<i>TOTAL</i>	<i>AVERAGE 64.9</i>			

Table 2

## Underground Arsenic Trioxide Inventory - December 31, 1997

Stope	Date Filled	Volume cu. ft.	Tons Dust	Percent Arsenic	Tons Arsenic	Tons Equiv. As <sub>2</sub> O <sub>3</sub>	opt Gold	Ounces Gold
B 230	Oct. 28/51-Dec. 15/52	100,000	3,125	45.31%	1,416	1,869	0.724	2,263
B 233	Dec. 16/52-Mar. 1/56	434,626	12,595	36.93%	4,651	6,139	1.671	21,046
B 234	Mar. 2/56-July 10/58	425,000	13,281	36.10%	4,794	6,328	2.332	30,971
B 235/236	July 11/58-Mar. 15/62	1,125,000	35,156	53.37%	18,763	25,852	0.790	27,773
B 235	Aug. 22/88-Nov. 29/88		1,160	60.78%	705		0.142	165
B 236	Dec. 12/88-Dec. 30/88		184	63.59%	117		0.228	42
B 208	Mar. 16/62-Dec. 31/64	806,840	25,033	65.75%	16,458	28,055	0.381	9,526
	Jan. 1/72-Sept. 1/72		4,704	64.86%	3,051		0.330	1,600
	July 1/75-July 31/75		394	63.71%	251		0.120	48
	Dec. 17/75-Jan. 9/76		355	65.92%	234		1.950	69
	Mar. 11/86-Sept. 26/86		1,882	66.95%	1,260		0.120	225
B 212/213/214	Jan. 1/65-Dec. 31/71	1,920,000	60,410	61.48%	37,141	53,269	0.468	28,273
	Sept. 1/72-June 14/73		4,945	64.99%	3,214		0.262	1,294
C 212	June 14/73-June 30/75	638,139	10,243	64.23%	6,579	16,175	0.217	2,224
	Aug. 1/75-Dec. 17/75		1,794	65.44%	1,174		0.130	234
	Jan. 10/76-May 21/76		1,875	65.12%	1,221		0.140	258
	June 1/80-Jan. 9/82		3,757	69.68%	2,618		0.101	378
	May 22/85-Mar. 1/86		1,011	65.48%	662		0.120	121
C 9	May 21/76-May 31/80	471,000	20,276	67.48%	13,683	18,062	0.124	2,512
C 10	Apr. 1/82-May 22/85	200,000	10,548	66.83%	7,049	9,305	0.134	1,408
B 11	Sept. 26/86-Aug. 22/88	347,250	6,331	67.52%	4,275	5,747	0.137	867
	Nov. 30/88-Dec. 12/88		128	61.72%	79		0.227	29
B 12	Dec. 30/88-Dec. 31/94	900,000	27,417	69.78%	18,048	23,823	0.174	4,769
	Nov. 15/97-Dec. 31/97		353	68.72%	243	321	0.133	47
B 14	Jan. 1/95-Nov. 14/97	424,000	10,036	65.48%	6,572	8,675	0.159	1,597
	Jan. 98 ==> active							
Total:	Oct. 28/51 - Dec. 31/96	7,791,855	256,993	60.02%	154,258	203,620	0.536	137,739
			Eq. % As <sub>2</sub> O <sub>3</sub> :	79.2%				

\* data compiled from historic, daily mill reports

256,993 tons at Dec. 31, 1997  
 + 2,851 tons 1998  
 + ~ 1,133 tons to May 31, 1999  
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 260,977 short tons "to date"  
 @ avg. 64.9 lb/ft<sup>3</sup>  
 = 8,042,446 ft<sup>3</sup> \* see note \*

03/29/98

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