

ORE BENCH 4065

002021

31/7/71

PORTION OF BENCH MINED TO JULY 31/71

ORIGINAL D.D. HOLE DATA

BLAST HOLE DATA

EST. % OF BLOCK MINED  
~~EST. TONNAGE~~

ORE BLOCK	Pb	Zn	COMB	TONNAGE	Pb	Zn	COMB	EST. % OF BLOCK MINED
✓ 65-1	1.6 (2.4)	3.9 (4.9)	5.5 (7.3)	21,247.1	3.8	5.6	9.4	100
* 66-1	3.7 (4.3)	7.4 (8.0)	11.1 (12.3)	11,944.2	5.1	7.3	12.4	67
✓ 66-25	4.9	6.7	11.6	87,688	3.9	5.3	9.2	83
✓ 66-44	4.5 (4.2)	3.3 (3.1)	7.8 (7.3)	20,580.0	3.5	5.2	8.7	100
* 66-24	4.3	7.8	12.1	16,314.1	2.7	5.4	8.1	? 57
OUTSIDE 1/2 BENCH	-	-	-	-	3.9	4.7	8.6	-
				78,854.2				

DO NOT USE AS  
< 25% IN ORE  
ZONES.

TONNAGE x.      2,839,167      4,250,657      7,090,824

TONNAGE MINED 346,060

AVG GRADE.      3.6      5.4      9.0      4.2      6.0      10.2

FOR BLOCK TONNAGE COMPARISON. LET 66-24 HAVE 50% WEIGHT.

66-24	4.3	7.8	12.1	8,157.0
66-44				
66-25				
66-1				
65-1				
	<u>2,668,313</u>	<u>3,858,380</u>	<u>6,526,693</u>	<u>7,069,71</u>

(3.8)      (5.4)      (9.2)      REVISED D.D. HOLE DATA

ORE ~~COMPARISON~~ SHEET

total

4065 Bench

Date 3/7/71

D.D. Hole 65-1 | 66-24  
66-1 | 70-10  
~~66-25~~  
66-44

Grade Pb 3.6? Zn 5.4? Comb. 9.0? Tons 788,542

Blast Hole	Pb	Zn
<del>5681</del>	<del>4.4</del>	<del>4.3</del>
<del>85</del>	<del>4.0</del>	<del>4.6</del>
<del>87</del>	<del>4.3</del>	<del>5.2</del>
<del>5950</del>	<del>6.9</del>	<del>3.8</del>
<del>51</del>	<del>3.9</del>	<del>4.9</del>
<del>6166</del>	<del>2.2</del>	<del>3.8</del>
<del>67</del>	<del>2.4</del>	<del>3.2</del>
<del>6302</del>	<del>3.9</del>	<del>7.0</del>
<del>05</del>	<del>3.1</del>	<del>5.4</del>
OUTSIDE 1/2 BENCH		
9	35.1	42.2
<b>Sub-Totals</b>	<b>Holes</b>	
1	9	35.1 42.2

Blast Hole	Pb	Zn
Σ 65-1	21	80.3 116.8
Σ 66-1	45	229.5 328.8
Σ 66-25	39	152.5 207.6
Σ 66-44	19	67.0 99.0
Σ 66-24	4	10.6 21.7
Σ 70-10	0	
<b>Sub-Totals</b>	<b>Holes</b>	
2	128	539.9 773.9

Blast Hole	Pb	Zn
<b>Sub-Totals</b>	<b>Holes</b>	
3	0	
1	9	35.1 42.2
2	128	539.9 773.9
<b>Page Total</b>	137	575.0 816.1

Average Pb 4.2 Zn 6.0 Combined 10.2

Actual Tons Ore Mined \_\_\_\_\_

Page Total

Remarks:

4065 BENCH. CALCULATIONS.

ORIGINAL TONNAGE & GRADE ESTIMATES.

Dr. Hole

	<u>Pb</u>		<u>Zn</u>	<u>Fe</u>	<u>Ton.</u>	
65-1	1.6 ?	<u>guess</u>	3.9 ?	5.5	212,471	
66-1	3.7 ?	<u>guess</u>	7.4 ?	11.1	119,442	
66-25	4.9		6.7	11.6	87,688	
66-44	4.5		3.3	7.8	205,800	
66-24	4.3		7.8	12.1	163,141	
<del>70-10 (not included in original Ton. Calc.)</del>					<del>10.2</del>	<del>92,894</del>

	<u>Σ Pb x T.</u>	<u>Σ Zn x T.</u>	
<u>Totals</u>	2,839,166.5	4,251,657.1	788,542
			7090,823.6
<u>Ave.</u>	<u>3.6 ?</u>	<u>5.4 ?</u>	<u>9.0</u>

USING FT. WT. AVE'S.

65-1	2.4	4.9	7.3	Same as above
66-1	4.3	8.0	12.3	
66-25	4.9	6.7	11.6	
-44	4.2	3.1	7.3	
-24	4.3	7.8	12.1	
				7,513,701.8
	3,019,068.5	4,494,633.3		
	<u>3.8</u>	<u>5.7</u>		9.5



ORE BLOCK COMPARISON SHEET

4065 Bench

Date 31/7/71

D.D. Hole 66-1

Grade Pb 3.7? Zn 7.4? Comb. 11.1? Tons 119,442

Blast	Hole	Pb	Zn
	5712	6.6	9.1
	26	5.5	8.0
	27	7.8	9.0
	30	5.2	7.4
	31	5.3	6.6
	32	8.0	8.7
	34	10.2	10.4
	35	6.7	11.3
	36	5.4	6.9
	37	5.2	6.2
	38	7.0	7.3
	40	3.4	4.7
	<del>39</del>	<del>5.5</del>	<del>8.0</del>
	41	3.8	5.6
	42	8.9	9.1
	43	7.4	8.4
	45	7.9	8.8
	46	8.6	9.4
	47	5.5	7.4
	48	2.0	4.0
	49	5.7	8.5
	50	5.9	8.3
	51	5.6	8.6
<b>Sub-Totals</b>	<b>1</b> Holes	22	137.6 173.7

Blast	Hole	Pb	Zn
	5788	6.0	9.1
	89	5.0	7.5
	90	5.7	10.1
	91	3.0	6.0
	92	2.4	5.3
	93	3.4	6.6
	94	6.0	9.2
	96	4.8	7.5
	97	5.9	8.6
	98	3.5	6.2
	99	1.8	4.1
	5800	5.5	9.5
	01	6.9	10.4
	02	3.1	6.2
	5803	3.5	6.3
	04	1.7	4.2
	<del>5807</del>	<del>3.9</del>	<del>3.5</del>
	5838	2.7	4.9
	<del>5840</del>	<del>5.7</del>	<del>8.9</del>
	5840	5.7	8.9
<b>Sub-Totals</b>	<b>2</b> Holes	18	76.6 130.6

Blast	Hole	Pb	Zn
	6199	2.0	3.2
	6200	4.7	6.8
	04	1.8	4.1
	05	3.0	4.2
	06	3.8	6.2
	<del>07</del>	<del>4.3</del>	<del>5.5</del>
	<del>08</del>	<del>2.3</del>	<del>4.7</del>
		15.3	24.5
		6.6	9.7
<b>Sub-Totals</b>	<b>3</b> Holes	5	15.3 24.5
<b>1</b>	22	137.6	173.7
<b>2</b>	18	76.6	130.6
<b>Page Total</b>	<del>47</del>	<del>236.1</del>	<del>338.5</del>
	45	229.5	328.8

Average Pb 5.4 Zn 7.3 Combined ~~11.1~~ 12.4

Actual Tons Ore Mined \_\_\_\_\_

Page Total ---

Remarks:

ORE BLOCK COMPARISON SHEET

4065 Bench

Date 3/7/71

D.D. Hole 66-25

Grade Pb 4.9 Zn 6.7 Comb. 11.6 Tons 87,688

Blast	Hole	Pb	Zn
	5597	2.9	4.6
	5627	2.8	3.4
	<del>   </del>	<del>   </del>	<del>   </del>
	33	2.5	2.5
	37	2.6	2.5
	43	3.9	4.1
	5632	5.7	5.5
	5689	2.5	2.9
	90	8.2	1.6
	91	4.9	7.0
	92	6.4	6.7
	95	2.7	4.2
	96	4.3	6.2
	97	2.7	4.2
	98	2.8	5.3
	99	4.4	5.9
	5700	4.1	5.5
	01	2.8	3.4
	04	2.6	3.1
	05	3.4	3.7
	06	4.0	5.4
	08	2.7	4.3
	09	5.2	8.5
<b>Sub-Totals</b>	<b>1</b>	<b>22</b>	<b>84.1 100.5</b>

Blast	Hole	Pb	Zn
	5710	4.2	7.6
	<del>   </del>	<del>   </del>	<del>   </del>
	11	5.0	7.8
	13	5.8	7.8
	14	5.7	8.4
	15	4.8	6.8
	16	2.4	5.3
	17	3.5	4.4
	24	5.1	7.0
	25	3.9	4.7
	<del>   </del>	<del>   </del>	<del>   </del>
	28	2.7	3.3
	<del>   </del>	<del>   </del>	<del>   </del>
	29	5.0	5.8
	5823	2.6	5.2
	28	3.6	5.7
	5810	2.6	4.8
	11	4.8	9.0
	12	4.4	9.7
	13	2.3	3.8
<b>Sub-Totals</b>	<b>2</b>	<b>17</b>	<b>68.4 107.1</b>

Blast	Hole	Pb	Zn
<b>3</b>	<b>0</b>		
<b>1</b>	<b>22</b>	<b>84.1</b>	<b>100.5</b>
<b>2</b>	<b>17</b>	<b>68.4</b>	<b>107.1</b>
<b>Page Total</b>	<b>39</b>	<b>152.5</b>	<b>207.6</b>

Average Pb 3.9 Zn 5.3 Combined 9.2

Actual Tons Ore Mined \_\_\_\_\_

Remarks:

ORE BLOCK COMPARISON SHEET

4065 Bench

Date 3/7/71

D.D. Hole 66-44

Grade Pb 4.5 Zn 3.3 Comb. 7.8 ? Tons 205,800

Blast Hole	Pb	Zn
5599	3.3	3.2
5629	3.4	4.5
42	5.2	4.8
48	5.6	5.1
49	<del>6.8</del> 6.0	6.0
50	2.7	3.7
52	2.5	2.9
53	2.4	3.1
56	3.1	4.1
55	4.1	8.1
5920	5.4	7.0
21	4.4	6.4
22	5.9	10.9
5827	2.1	3.1
6136	2.3	4.6
38	2.3	6.2
39	1.9	5.1
40	1.8	6.4
41	1.8	3.8
<b>Sub-Totals</b>	<b>19</b>	<b>99.0</b>

Blast Hole	Pb	Zn
<b>2</b>	<b>Holes</b>	

Blast Hole	Pb	Zn
<b>3</b>	<b>Holes</b>	
1		
2		

Average Pb 3.5 Zn 5.2 Combined 8.7

Actual Tons Ore Mined \_\_\_\_\_

Page Total ---

Remarks:



DDH

66-25

4321.2

4065  
256.2

15' Comp

11.6

4100  
221.2

<sup>21.2</sup>  
~~220~~ - 25

30  
35  
40  
45  
50  
55  
60  
~~65~~  
~~70~~

<sup>3.8</sup>  
~~5.0~~  
5.0  
5.0

5.9

6.7

2.2

TR

TR

TR

TR

0.1

~~4.1~~

$\frac{669.2}{13.8} = 4.8$

6.9

9.8

3.4

TR

TR

TR

TR

0.1

~~7.1~~

$\frac{922.2}{13.8} = 6.7$

$\frac{20.1}{3} = 6.7$

11.6

66-44

4298.6

4065  
233.6

35' Comp

7.8

4100  
198.6

<sup>98.6</sup>  
195 - 200

05

10

15

20

25

30

~~35~~

~~40~~

<sup>1.4</sup>  
~~5.0~~

5.0

3.6

.5

.5

3.4

3.3

9.5

2.1

5.3

7.4

$\frac{315}{7} = 4.5$

$\frac{1478.4}{35.0} = 4.2$

TR

.1

3.7

2.8

0.1

2.7

8.6

5.3

$\frac{23.3}{7} = 3.3$

$\frac{1090.8}{35.0} = 3.1$

7.8

~~DATA~~ 66-24

$$\begin{array}{r} 4308.9 \\ 4065. \\ \hline 243.9 \end{array}$$

$$\begin{array}{r} 4100 \\ \hline 208.9 \end{array}$$

35' 12.1

089	
205 - 0	115.0
15	5.0
20	
25	
30	
35	
40	
43.9	3.9
45	

3.7
3.8
5.3
4.5
3.9
4.7
3.4
5.1

6.5
9.8
7.5
9.5
8.0
8.0
5.3
6.3

$$\frac{1514.6}{35.0} = 43$$

$$\frac{2722.2}{35.0} = 7.8$$

~~DATA~~ 70-10

$$\begin{array}{r} 4259 \\ 4065 \\ \hline 194 \end{array}$$

$$\begin{array}{r} 4259 \\ 4100 \\ \hline 159 \end{array} \quad 35' \quad 10.2$$

NOT INCLUDED IN ORIGINAL  
TOWARDS CALC.

FROM

$$\frac{111.9}{35} = 3.2$$

$$\frac{115.9}{35} = 3.3$$

$$\frac{116.2}{35} = 3.3$$

$$\frac{213.0}{7} = 3.0$$

$$\frac{273.5}{35} = 7.8$$

$$\frac{296.5}{35} = 8.2$$

$$\frac{52.1}{7} = 7.4$$

$$\frac{5.2}{11.0}$$

$$\frac{7.3}{2.9} = 2.5$$

ADH      65-1      GND. FL.      4304.1      4304.1      35' COMB. 5.5

4065  
239.1      4100  
204.1

INT.

~~04.1~~  
~~203.5~~ - 09.5      5.4 ~~6.0~~

14.8      5.3

20.2      5.4

23.1      2.9

27.2      4.1

29.7      2.5

32.7      3.0

34.9      2.2

38.0      3.1

~~39.1~~  
~~41.1~~

~~18.9~~ = 2.4      ~~39.7~~ = 5.0

~~8.0~~  
~~2.0~~

1.8      0.5

0.2      1.8

0.4      ~~3.5~~

0.6      4.5

2.3      5.1

6.1      11.0

3.5      6.5

4.0      6.8

7.1      11.5

4.5      7.8

Guess  
1.6-3.9-5.5

59.74  
31.4

1213.6 = 4.1  
31.4

Fr. WT. CALC. Ave.      35.0

856.2 = 2.4  
35.0

1712.9 = 4.9  
35.0

COMB  
7.3

ADH      66-1      GND.      4329.0      4300      35' COMB 11.1

4065  
264      4100  
229

Guess  
3.7 7.4

~~29.0~~  
~~225.2~~ - 30.0      1.0 ~~4.8~~

35.0      5.0      6.4      9.5

40.0      5.0      4.9      8.1

44.8      4.8      5.7      11.1

49.7      4.9      4.5      6.3

52.5      2.8      4.8      8.6

54.5      2.0      7.2      17.5

59.5      5.0      2.2      4.7

63.2      3.7      2.2      5.1

64.0  
~~68.0~~      ~~0.8~~  
4.8      2.6      3.7

2.2      5.1

1538.6 = 4.0  
38.0

2917.1  
38.0      7.7

Fr. WT. CALC. Ave

1514.6 = 4.3  
35.0

2795.5 = 8.0  
35.0

COMB  
12.3

