

002010

31/7/71

ORE BENCH

4170

PORTION OF BENCH MINED TO JULY 31/71

ORIGINAL D.D. HOLE DATA

ORE BENCHPbZnCOALTONNAGEPbZnCOALEST % OF  
BLOCK MINED

66-48

3.0 (2.4) 4.1 (3.9) 7.1 (6.3)

69,835

3.0

4.9

7.9

55 (100% ORE MINED OUT)

66-19

4.2 (4.3) 8.1 (8.2) 12.3 (12.5)

122,212

3.7

5.9

9.6

89

66-1

4.8 (3.6) 7.9 (6.2) 12.7 (9.8)

81,859

3.9

7.1

11.0

100

66-24

2.2 (2.1) 6.9 (7.2) 9.1 (9.3)

100,541

3.0

5.5

8.5

100

OUTSIDE BLOCK

2.7

4.8

7.5

1,198,944

2,505,916

TONNAGE

1,336,909

2,616,660

370,860

374,447

TONNAGE MINED

146,240

Ave

3.67.010.63.25.48.6

(3.2)

(6.7)

(9.9)

REVISED D.D. HOLE DATA

ORE BLOCK COMPARISON SHEET

TOTAL

4170

Perch

D.D. Hole \_\_\_\_\_

Grade Pb \_\_\_\_\_

Zn \_\_\_\_\_

Comb \_\_\_\_\_

Blast Hole	Pb	Zn
DD Hole 66-48 9	27.2	44.0
66-1 7	27.1	49.5
66-19 26	95.9	152.5
66-24 13	38.9	71.5
<b>Sub-Totals</b> 1 Holes 82	261.6	446.3

OUTSIDE  
Block

Blast Hole	Pb	Zn
2 Holes		

Average Pb 3.2 Zn 5.4 Combined 8.6

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

Page Total \_\_\_\_\_

Remarks:

BENCH AVG. ASSAYS.

USING ORIGINAL AVGS

D.D. Hole	Ton.	Pb.	$\frac{\Sigma}{Pb \times Ton}$	Zn	$\frac{\Sigma}{Zn \times Ton}$
66-48	69,835	3.0	209,505.0	4.1	286,323.5
66-19	122,212	4.2	513,290.4	8.1	989,917.2
66-24	100,541	2.2	221,190.2	6.9	693,732.9
66-1	81,559	4.8	<del>426,523.2</del> 392,923.2	7.9	646,686.1
<hr/>			<hr/>		<hr/>
	374,447		1,336,908.8		2,616,659.7

AVG. OF 4.

3.6

~~7.0~~ 7.0

$\Sigma$

~~10.6~~ 10.6

ORE BLOCK COMPARISON SHEET

4170 Bench

Date 20/7/71

D.D. Hole 66-48

<sup>20'</sup> Grade Pb 3.0 Zn 4.1 Comb. 7.1

Tons 69,835

Blast Hole	Pb	Zn	
✓ 5332	3.5	4.9	
33	3.3	4.6	
37	2.4	4.4	
38	3.6	6.0	
39	2.9	4.1	
41	2.5	4.6	
5390	3.0	4.9	
91	3.8	6.1	
92	2.2	4.4	
/			
<b>Sub-Totals</b> 1	<b>Holes</b> 9	27.2	44.0

Blast Hole	Pb	Zn	
/			
<b>Sub-Totals</b> 2	<b>Holes</b>		

Blast Hole	Pb	Zn	
/			
<b>Sub-Totals</b> 3	<b>Holes</b>		
1			
2			
<b>Page Total</b>	---		

Average Pb 3.0 Zn 4.9 Combined 7.9

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

Page Total ---

Remarks:

ORE BLOCK COMPARISON SHEET

4170 Bench

Date 20/7/71

D.D. Hole 66-19

<sup>35'</sup> Grade Pb 4.2 Zn 8.1 Comb. 12.3 Tons 122,212

Blast Hole	Pb	Zn	
5167	4.5	8.3	
70	2.8	4.9	
5304	3.7	5.9	
05	2.7	4.1	
08	2.8	4.8	
9	5.2	6.8	
10	3.7	5.5	
11	5.3	8.0	
12	2.8	4.2	
13	3.6	5.6	
14	3.0	5.1	
15	2.1	3.6	
21	4.3	6.7	
53 27	2.9	4.8	
28	3.0	4.9	
29	4.5	7.0	
30	5.0	8.0	
36	5.2	9.4	
5275	4.9	7.3	
78	2.6	4.7	
80	5.0	5.2	
81	2.4	4.1	
82	1.6	3.4	
83	3.0	5.4	
84	5.2	7.4	
85	4.1	7.4	
<b>Sub-Totals</b> 1	<b>Holes</b> 26	95.9	152.5

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

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

Average Pb 3.7 Zn 5.9 Combined 9.6

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

Remarks:

ORE BLOCK COMPARISON SHEET

4170 Bench

Date 20/7/71

D.D. Hole 66-24

<sup>35'</sup> Grade Pb 2.2 Zn 6.9 Comb. 9.1

Tons 100,541

Blast Hole	Pb	Zn
5755	2.0	4.0
56	3.4	5.1
57	4.4	7.2
58	2.5	4.6
59	2.7	4.1
60	3.1	5.8
61	3.0	4.6
62	3.8	6.8
63	3.0	3.3
67	<del>3.3</del>	<del>6.0</del>
68	2.5	6.5
70	1.8	3.5
77	3.4	10.0
<b>Sub-Totals</b>	<b>13</b>	<b>71.5</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 3.0 Zn 5.5 Combined 8.5

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

Page Total ---

Remarks:

ORE BLOCK COMPARISON SHEET

4170 Bench

Date 5/7/71

D.D. Hole 66-1

<sup>35'</sup> Grade Pb 4.8 Zn 7.9 Comb. 12.7% Tons 31,359

Blast Hole	Pb	Zn		
5268	2.9	7.1		
69	4.2	7.4		
71	2.1	6.1		
72	4.4	6.2		
73	7.1	10.0		
74	5.4	7.5		
5296	1.0	5.2		
↘				
<b>Sub-Totals</b>	<b>1</b>	<b>7</b>	<b>27.1</b>	<b>49.5</b>

Blast Hole	Pb	Zn
2		
Holes		

Blast Hole	Pb	Zn
3		
Holes		

Average Pb 3.9 Zn 7.1 Combined 11.0

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

Page Total ---

Remarks:

ORE ~~BOOK~~ <sup>BENCH</sup> COMPARISON SHEET

4170 Bench

Date <sup>31</sup> ~~20~~/7/71

D.D. Hole

Grade Pb 3.6 Zn 7.0 Comb. 10.6

Tons 374,447

OUTSIDE BLOCK

Blast Hole	Pb	Zn			
5346	1.7	5.0			
18	1.9	4.0			
5373	2.6	3.7			
74	4.6	1.1			
75	3.5	4.8			
5286	2.5	4.3			
5292	3.4	4.2			
93	1.2	4.3			
5298	3.2	5.4			
99	1.3	3.4			
5300	2.7	3.3			
5766	3.7	3.2			
75	3.6	4.4			
5834	2.6	5.2			
33	2.2	6.0			
32	2.2	4.7			
31	1.8	4.2			
8240	3.7	7.1			
81	1.7	3.8			
84	2.8	6.6			
85	3.0	7.8			
86	2.7	5.3			
87	1.6	4.9			
<b>Sub-Totals</b>	<b>1</b>	<b>Holes</b>	<b>23</b>	<b>60.2</b>	<b>106.7</b>

Blast Hole	Pb	Zn			
<del>EDD. Hole 66-48</del>					
<del>9</del>	<del>27.2</del>	<del>44.0</del>			
<del>EDD. Hole 66-1</del>					
<del>7</del>	<del>27.1</del>	<del>49.5</del>			
<del>EDD. Hole 66-19</del>					
<del>26</del>	<del>95.9</del>	<del>152.5</del>			
<del>EDD. Hole 66-24</del>					
<del>13</del>	<del>38.9</del>	<del>71.5</del>			
<b>Sub-Totals</b>	<b>2</b>	<b>Holes</b>	<b>55</b>	<b>189.1</b>	<b>317.5</b>

Blast Hole	Pb	Zn			
5	8324	2.0	4.0		
25	4.3	6.7			
89	3.2	6.8			
90	2.8	4.6			
<b>Sub-Totals</b>	<b>3</b>	<b>Holes</b>	<b>4</b>	<b>12.3</b>	<b>22.1</b>
<b>Page Total</b>	<b>1</b>	<b>23</b>	<b>60.2</b>	<b>106.7</b>	
	<b>2</b>	<b>55</b>	<b>189.1</b>	<b>317.5</b>	
	<b>78</b>	<b>249.3</b>	<b>424.2</b>		
	<b>82</b>	<b>261.6</b>	<b>446.3</b>		
	<b>27</b>	<b>72.5</b>	<b>128.8</b>		

Average Pb ~~3.2~~ <sup>2.7</sup> Zn ~~5.4~~ <sup>4.8</sup>

Combined ~~8.6~~ <sup>7.5</sup>

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

Remarks:

DATA COMPLETE TO July <sup>31</sup> 15/71 279

7.1

DD 66-48

GND 4331.4 4331.4

4170 4205

161.4 126.4

15-20  
20-25  
125 - 30  
35  
40  
45  
50  
Σ

	3.5	4.5
PB	3.3	4.8
	2.1	2.0
	2.1	3.6
	5.4	3.9
	1.8	4.2
	1.6	5.1
		2.7

4.5  
4.8  
3.6  
3.9  
4.2  
5.1  
26.9  
6 = 4.5

$\frac{13.0}{5} = 2.6$

$\frac{13.0}{6.8} = 19.8$   
 $\frac{19.8}{7} = 2.8$

$\frac{18.2}{6} = 3.0$

$\frac{19.5}{5} = 3.9$   
 $\frac{2.6}{6.5}$

$\frac{19.5}{2.3} = 28.8$   
 $\frac{28.8}{7} = 4.1$   
 $\frac{2.8}{6.9}$

$\frac{26.9}{6} = 4.5$   
4.1





BDH 66-24

Revenue 4170

INT.

END 4308.9

4308.9

4205

4170

103.9

- 138.9

Fr.	INT	Pb	Zn.
105-110	5.0	6.7	3.7
115	5	2.9	8.6
20	5	2.8	7.6
25	5	2.7	7.9
30	5	2.8	8.1
35	5	3.4	7.8
40	5.39	1.6	6.7
45		.4	4.8

$$\frac{17.3}{8} = 2.2$$

105-45

A.E  
#

$$\frac{55.2}{8} = \frac{6.9}{9.1}$$

$$\frac{16.9}{7} = 2.4$$

$$\frac{50.4}{7} = 7.2$$

$$\frac{2.4}{9.6}$$

$$\frac{15.3}{6} = 2.55$$

$$\frac{43.7}{6} = 7.3$$

$$\frac{83.5}{35} = 2.4$$

$$\frac{24870}{35} = 7.1$$

~~2.4  
7.1  
9.5~~

$$\frac{24870}{4.1} = 2482.9$$

$$\frac{8273}{35} = 2.4$$

3.7  
3.7  
4.1  
4.1  
9.5

3 4 5 6 7 8 9 10 11 12 13 14 15 16

15/1/71

# BENCH 4170

SHOWING 1/2 & FULL BENCH  
 ARE CALC. AREAS OF INFLUENCE (TRACED)  
 OFF ORIGINAL BENCH ORE  
 CALC. PLAN.)  
 approximate  
 limit of mine  
 work as of March 1971  
 SCALE 1" = 100'

Jul 31/71

E 13,000

N 10,500

