

## Rocha Detonle Ore Reserves.

## PROPERTY FILE

Ore Shoot.

#1	1202W - W. of Winge	17,000 Tons	of 2.68% Cu
#2	1202W. at Winge	5,060 Tons	of 2.10% Cu
	Total on 1202W of	22,000 T	of 2.55% Cu

#3	1002W.	2,280 T	1.52%
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#4	1002W.	1,380 T	1.43%
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#5		7,350 T	2.52%
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#6		1,110 T	2.50%
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Rocha Dyke separates #5 & #6 if combined to allow  
a equivalent  $k_2$  for vertical dimension T is

	3,560 T	2.51%
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#7.	<u>10,400 T</u> fin	2.32%
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#8.	ed less sloped area =	( 25,000 T 20,000 T )	( 2.46% 2.46% )
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PROPERTY FILE

# Rocher Débouli

250 ft.

# 8

	A.W.	W.	A	WA
A 87 - 53	71	36	0.51	18
		35	3.70	129
	48	44	7.48	329
-	53	53	3.24	171
-	64	30	2.63	78
		34	2.60	88
-	50	50	8.36	417
48		38	3.33	127
48		33	4.84	160
48		33	2.32	76
48		30	5.66	170
48		28	3.32	93
48		36	2.09	75
48		48	3.20	187
48		32	3.22	103
48		12	9.23	111
48		34	3.36	114
48		26	0.86	22
48		24	1.98	48
48		24	1.82	44
-	51	51	0.66	34
-	56	56	3.26	182
-	80	80	2.24	179
	48	44	1.40	62
-	60	60	3.06	183
-	80	56	2.70	151
		24	2.83	68
-	90	30	1.32	39
		60	1.47	88
-	92	70	1.32	92
		22	3.11	68
-	60	60	1.37	82
	<u>1537</u>			

± = 250  
H could = 250

~~$\frac{250 \times 250 \times 4.6}{11.5} = 25,000$~~

~~$(12) \quad 23,900$~~

less. old stopped  
area 100 x 100

hence  $250 \times 250 - 10,000$

$= 62,500 - 10,000$

$= 52,500 \times 4.6$

$\frac{11.5}{(12)}$

$= 21,000 \bar{T}$

$= (20,100)$

48  
15  
240  
48  
720  
817  
1537

20  
163  
158  
3788

Av. Assay =  $\frac{3788}{1537}$

$\boxed{2.46\% \text{ Cu}}$

Av. W = 56.8"

=  $\boxed{4'6''}$

27 cuts

#7 12-5W # 10-7W Raises 190'

43 W.	48	8	x 4.10	= 33
"	"	13	7.90	103
"	"	32	5.15	165
"	"	20	0.60	12
"	"	20	8.00	160
"	"	40	2.00	80
"	"	22	7.00	154

14  
19

"	16		8.84	141
"	38		6.13	232
"	46		4.05	186
"	46		3.48	160
"	42		2.08	87
"	18		1.71	31
"	26		4.57	119
"	34		3.01	102
"	35		7.80	273
"	21		1.04	22
	816			

48  
17  

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336  
48  

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816

Nb cuts = 17

Av. W = 48

13  
71  

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50  
2060

Av. Assay =  $\frac{2060}{816} = 2.52\% \text{ Cu}$

Hence block of ore  $135 \times 5.4 \left( \begin{matrix} = 729 \\ = 760 \end{matrix} \right) \times 2.13 = 1550$   
 $190 \times 4. \left( \begin{matrix} = 760 \\ = 760 \end{matrix} \right) \times 2.52 = 1910$   


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1489 3460

Av. Assay block  $\frac{3460}{1489} = 2.32\% \text{ Cu}$

Tonnage =  $\frac{135 \times 190 \times 4.68}{11.5 (12)} = 10,900 \text{ T}$   
(10,000 T)



# Rocher Déboulé

#7 m 1002 w.

A63.	60	60	x 1.68	= 101.
	78	44	2.34	103
	}	34	2.18	74
		78	62	2.02
	}	16	11.90	191
		100	60	3.10
	}	40	1.63	65
		60	60	1.56
	48	34	2.04	69
	}	59	1.64	80
		56	0.45	15
	48	48	1.63	78
	48	27	2.54	69
	48	42	3.06	125
	48	38	2.07	79
	48	32	3.16	101
	48	31	2.70	84
	}	81	3.78	170
		36	2.78	97
	}	76	1.78	107
		18	0.30	54
	<hr/>			
	979			9

48	120
7	210
336	156
<u>643</u>	<u>157</u>
979	643

15 cuts. Avg. W = 65.2"  
= 5.4'

9
108
<u>104</u>
2084

Av. Assay =  $\frac{2084}{979} = 2.13\%$

Rocher Debonle

1002 w.

55' long

#6

M.W.	w.	A	WA
149 48	20	15.45	309
48	30	4.11	123
48	40	3.21	129
48	45	3.51	158
48	44	0.86	38
48 {	38	1.37	52
	9	8.72	78
48	17	2.27	39
48	24	4.77	114
70 {	30	2.73	82
	40	0.38	14

48  
 8  
 320  
 64  
 70  
 454

9 | 454  
 50.8 = 4.2'

7  
 37  
 64  
 1134

No. cuts 9. Av. width = 4.2'

Av. Assay =  $\frac{1134}{454} = 2.50\% \text{ Cu.}$

Tonnage  $\frac{55' \times 55' \times 4.2}{11.5 (12)} = 1110 \text{ T.}$   
 (1060) T

Combined #5 & #6

$\frac{100 \times 100 \times 4.1}{11.5 (12)} = 3560 \text{ T.}$   
 (3420)

Rocha Dibouli

1002W

#5

46'

A38	48	32	x 2.64 =	83
	48	36	x 4.23	152
	48	45	x 0.60	27
	48	26	x 3.75	96
	48	30	x 3.41	105
	48	24	x 4.10	98
	48	36	x 3.52	127
	50	50	x 5.72	286
	48	44	x 3.00	132

48  
8  
 384  
30

9/434

6  
 46  
46  
 106

9cuts.

Av. W. = 48

Av. Assay. 2.52% Cu

Tonnage

$$\frac{46 \times 46 \times 4}{11.5 (12)} =$$

735 T  
 (705)



# Rocha Dabouli

Ore shoot #4 - 1002w.

60' long.

A26.	48	27	x	1.88	<del>7</del>	51
	48	18		1.22	v	22
	48	48		0.35		17
	58	27		0.38		10
		31		3.87		120
	72	30		1.68		50
		16		2.98		48
		26		2.85		125
	48	26		1.42		37
A34	<u>48</u>	15		<u>3.28</u>		<u>49</u>

7 cuts.  $7 \overline{) 370}$   
 $\underline{53''}$

$\begin{array}{r} 2 \\ 29 \\ 39 \\ \hline 529 \end{array}$

Av. w. = 4.4'

Av.

Assay. =  $\frac{529}{370} = \boxed{1.43\% \text{ Cu}}$

Tonnage.  $\frac{60 \times 60 \times 4.4}{11.5(12)} = \boxed{1380 \text{ T}}$   
 (1320)

240	
58	
72	
<u>370</u>	3600

Rocher Deboile.

Ore shoot #3 - 1002 W.

80' long.

Sample No.	Mining W.	W.	Assay	W A.
A 12	60	60 x	1.61	= 96.5
	48	42	1.53	= 61.2
	48	33	4.33	143
	48	32	0.76	24
	48	19	2.23	42
	48	38	2.60	99
	48	26	1.83	48
A 19	48	24	1.27	30.
	8   360			51
	49.5			36
				546

Width = 49.5"

Av. Assay =  $\frac{546}{360} = 1.52\%$  Cu.

$80 \times 80 \times 41 = 26240 \text{ cu ft} = \frac{26240}{11.5} = \boxed{2280} \text{ T.}$

2,190 (2)

6400  
 4.1  
 6400  
 25600  
 26240



# Rocha Deboule.

W nize to 1302W.

	stoping w.	assay width	assay	wxa.	#2
120W.	48	41	3.60	148.	
	48	21	2.70	57	
	48	19	2.40	34	
	48	27	2.10	50	
	48	18	0.60	11	
	48	18	2.40	43	
	48	25	3.80	95	
	48	18	2.40	43	
	48	48	2.35	113	
{	48	19	2.35	45	
		27	2.20	59	
	48	24	3.05	73	
	48	12	1.80	22	
	576			2	
				54	
				53	
				793	

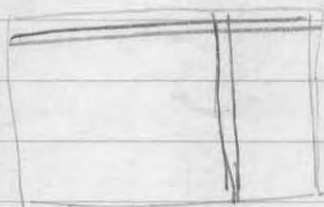
Av. width 48"      Av. Assay  $\frac{793}{576} = 1.38\% \text{ Cu.}$

Ht. = 100 ft.

Grade & Tonnage of #2 ore shoot on 1202W.

$$\begin{aligned} \text{is. } 130 \times 4.8 \times 2.57 &= 1600 \\ \frac{100 \times 4}{1024} \times 1.38 &= \frac{550}{2150} \end{aligned}$$

624  
400



Av. assay =  $\frac{2150}{1024} = \boxed{2.1} \% \text{ Cu}$

Tonnage =  $\frac{624}{400} \times 4.8 = 2.92$

4.8

$$\begin{array}{r} 13000 \\ \times 4.4 \\ \hline 52000 \\ \times 52 \\ \hline 57,200.0 \text{ cuft.} \end{array}$$

$\frac{400}{1024} \times 4 = 1.56$

4.48



13000 area x weighted average thickness = 58,200 cuft

Tonnage =  $\frac{58,200}{11.5} = \boxed{5,060 \text{ tons}}$  (4850 T at 1204 = 11)

Rocky Dismale, 1202 W. - Wolfwings #2

	Min. Strip W.	W.	A.	WA.
159 W.	48	40	5.20	408
	50	50	2.45	122
	48	48	2.35	113
	48	33	5.10	168
	48	26	3.25	65
	48	28	2.10	59
	98	26	10.10	262
	98	72	1.10	70 ←
	76	36	4.53	163
	40	40	0.91	36
	48	24	0.30	7
	24	24	8.00	194
	104	78	0.3	23
		26	6.66	173
	48	42	5.00	210
N. 12	48	18	2.55	46
	48	21	2.39	50
	67	16	2.34	37
	67	15	1.93	29
		36	0.65	23
	48	40	2.44	97
147 W	48	30	1.00	30

16. 923

14  
89  
95  

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2385

No. cuts = 16

$$\frac{923}{16} = 57.6875$$

No. cuts = 16

Av. width = 57.5"

Av. assay =  $\frac{2385}{923} = 2.57\% \text{ Cu}$

Length 130

# Rocher D'Boulé Ore Reserves.

1202 W. - W of Winge #1

	192W.	Grain	W x a.		
	28 *	4.25	190	7.60	2.65
	30 *	4.25	274	3.8	
{	22	2.65	583	<u>Note assays</u> 128W not averaged in 29" x 10.25" = 297.	
	18	9.56	172		
	44	3.8	167		
	30 *	0.4	152		
	55	4.25	234		as it is in small slope.
{	42	0.25	10.5		
	<del>84</del>	2.10	178		also W.U.8 should have been included for even dist.
{	72	0.95	32.3		8" of 4.4 = <del>35</del>
	51	1.51	77.2		
{	62	2.00	124		
	40	1.70	308		
{	15	NIL	0		
	48	3.95	190		Hence
	50	2.80	140	3168.	
	31 *	0.25	52	+ W.S. 297	
	40 *	2.80	112	35	<u>3500</u>
	70	0.50	35		
	72	3.05	219	1249	
	72	2.70	194	\$ W. 59.	<u>1308</u>
	72	2.35	169		
	72	1.35	97.1		Av. width = 68.8"
	36 *	1.15	16.2		Av. gr. = $\frac{3500}{1308} = 2.68\%$

19 | 1154 | 3016.0

Av. Width 1249  
 + 95 to bring \* up to 48" slope width

20.  
106  
106.  
20  
3168.0

Cu ft = 195082.5  
 $T_{12} = 16200 T.$   
 $T_{11.5} = 17000 T.$

Av. assay. 65.7 inches  $\frac{3168}{1249} = 2.54\% Cu$

185 ft. x 65.7 in. x 2.54% Cu

40000  
200,000

Say 185' in height also, hence  $185 \times 185 \times 5.5 = 188,237.5$  cu ft  
 or 12 cu ft / ton. prob.  
 Prob. been there = 15,700 Tons  
 17,000 Tons. 2.54% Cu