

77c.

April 12, 1938

Mr. Errol MacBoyle

OLD BRUNSWICK MINE DEVELOPMENT WORK

Dear Sir:

In response to your request, I hereby submit a summary of development work that can be done at the Old Brunswick unit.

900 Level:

2D-4R is now approximately 75 feet above the 900 level. It was planned to drive to the 550 level and from that horizon drift over to the old anticline and prospect all structure adjacent. The raise, at present, is in waste but is on the 2 vein structure and may develop quartz.

6 XC is a heading that can be driven to pick up new vein found by diamond drilling to the north of north face of 4D.

8 XC: A heading from 21D in the footwall of 4 vein to be driven north to intersect extensive stringer zone picked up by diamond drilling.

4 XC: Extend present crosscut as previously planned to cut 18 vein.

12D: Extend a distance of at least two hundred feet east to develop ore.

670 LEVEL:

1D should be driven approximately four hundred feet east, probably in ore.

601D: Some drifting should be done to prove or disprove ore in this section. About twenty feet of vein here showed colors but was then cut out by thin bedding and has not been thoroughly prospected.

580 LEVEL:

1 XC: This heading could be driven from the present face to 16 vein, a distance of approximately 275 feet.

Mr. Errol MacBoyle,  
Grass Valley, California.

April 12, 1938.

The development as shown would require twenty-four men and supplies as follows:

- 3 SAR stopers
- 6 DA-30 drifters
- 12 Sets air hose
- 12 Sets water hose
- 15 cars (10 on 900, 3 on 670 and 2 on 580)
- 1 Locomotive (has been ordered)
- 1 Ton drill steel

It would be necessary to use the Old Brunswick dry, as the New Brunswick dry is full at the present time. Two watchmen and a topman would be necessary on the surface and two bosses and one nipper in the mine.

Yours very truly,

J. F. Cowley,  
Mine Superintendent

JFC/m

cc to H.M.W.  
R.F.



# YEARLY DEVELOPMENT SUMMARY

MINE: Brunswick

YEAR OF 1938

| LEVEL | LOCATION | DRIFT | RAISE | X-CUT | SIDING | RECAP | CU.FT | TOT.FTG. | NORTH | EAST |
|-------|----------|-------|-------|-------|--------|-------|-------|----------|-------|------|
| 580   | 1XC      |       |       | 334   |        | 200   |       |          |       |      |
|       | 16D      | 129½  |       |       | 20     |       |       |          |       |      |
|       | 616D     | 41    |       |       |        |       |       |          |       |      |
| 800   | 16D      | 159½  |       |       |        |       |       |          |       |      |
|       | 616D     | 420   |       |       |        |       |       |          |       |      |
| 900   | 16D      | 472   |       |       | 81     |       | 1050  |          |       |      |
|       | 116D     | 72½   |       |       |        |       |       |          |       |      |
|       | 216D     | 134½  |       |       | 12     |       |       |          |       |      |
|       | 316D     | 95½   |       |       |        |       |       |          |       |      |
|       | 616D     | 544½  |       |       |        |       |       |          |       |      |
|       | 4D       | 67½   |       |       |        |       |       |          |       |      |
|       | 16D-1R   |       | 239   |       |        |       |       |          |       |      |
|       | -2R      |       | 364   |       |        |       |       |          |       |      |
|       | -3R      |       | 382½  |       |        |       |       |          |       |      |
|       | -4R      |       | 146   |       |        |       |       |          |       |      |
|       | 28D      | 85½   |       |       | 10     |       |       |          |       |      |
|       | 628D     | 194   |       |       |        |       |       |          |       |      |
|       | 28D-1R   | 5     |       |       |        |       |       |          |       |      |
|       | 4XC      |       |       | 13    |        |       |       |          |       |      |
| 1000  | 4D-9R    | 99    |       |       |        |       |       |          |       |      |
|       | 12D      | 29    |       |       |        |       |       |          |       |      |
|       | 112D     | 121½  |       |       |        |       |       |          |       |      |
|       | 12D-1R   |       | 57½   |       |        |       |       |          |       |      |
|       | 16D      | 341½  |       |       |        |       | 65    |          |       |      |
|       | 216D     | 221½  |       |       |        |       |       |          |       |      |
|       | 616D     | 228   |       |       |        |       |       |          |       |      |
|       | 28D      | 48½   |       |       |        |       |       |          |       |      |
|       | 628D     | 95½   |       |       | 4      |       |       |          |       |      |
|       | 2XC      |       |       | 50½   | 4      |       |       |          |       |      |
|       | 6XC      |       |       | 74    | 22     |       |       |          |       |      |
|       | 8XC      |       |       | 55½   |        |       |       |          |       |      |
|       | 32D-4R   |       | 92½   |       |        |       |       |          |       |      |
|       | 32D-5R   |       | 79½   |       |        |       |       |          |       |      |
| 1030  | 4D       | 80    |       |       | 6      |       |       |          |       |      |
| 1080  | 4D-1R    |       | 10    |       |        |       |       |          |       |      |
| 1100  | 4D       | 70½   |       |       |        |       |       |          |       |      |
|       | 4D-4R    |       | 76½   |       |        |       |       |          |       |      |
|       | 104D     | 40    |       |       | 6      |       |       |          |       |      |
|       | 7D-2R    |       | 95½   |       |        |       |       |          |       |      |
|       | 8D       | 20    |       |       |        |       |       |          |       |      |
|       | 608D     | 67    |       |       |        |       |       |          |       |      |
|       | 9D       | 43½   |       |       |        |       |       |          |       |      |
|       | 16D      | 20    |       |       |        |       |       |          |       |      |
|       | 116D     | 89    |       |       |        |       |       |          |       |      |
|       | 216D     | 76½   |       |       |        |       |       |          |       |      |
|       | 616D     | 39    |       |       |        |       | 65    |          |       |      |
|       | 16-4R    |       | 119½  |       |        |       |       |          |       |      |
|       | 5R       |       | 233½  |       |        |       |       |          |       |      |
|       | 6R       |       | 256   |       |        |       |       |          |       |      |
|       | 7R       |       | 320   |       |        |       |       |          |       |      |
|       | 12D-1R   |       | 22½   |       |        |       |       |          |       |      |
|       | 28D      | 91½   |       |       | 25     |       |       |          |       |      |



## YEARLY DEVELOPMENT SUMMARY

MINE: Brunswick

YEAR OF: 1938

| LEVEL | LOCATION | DRIFT             | RAISE             | X-CUT             | SIDING | RECAP | CU.FT. | TOT.FTG. | NORTH | EAST |
|-------|----------|-------------------|-------------------|-------------------|--------|-------|--------|----------|-------|------|
|       | 628D     | 208               |                   |                   | 46     |       |        |          |       |      |
|       | 32D-7R   |                   | 92                |                   |        |       |        |          |       |      |
|       | 1XC      |                   |                   | 126               |        |       |        |          |       |      |
|       | 8XC      |                   |                   | 515 $\frac{1}{2}$ | 10     |       |        |          |       |      |
|       | 10XC     |                   |                   | 66                |        |       |        |          |       |      |
| 1200  | 602D     | 14                |                   |                   |        |       |        |          |       |      |
|       | 6D       | 255 $\frac{1}{2}$ |                   |                   |        |       |        |          |       |      |
|       | 106D     | 44                |                   |                   |        |       |        |          |       |      |
|       | 206D     | 136               |                   |                   | 34     |       |        |          |       |      |
|       | 606D     | 466 $\frac{1}{2}$ |                   |                   |        |       |        |          |       |      |
|       | 16D      | 397 $\frac{1}{2}$ |                   |                   |        |       |        |          |       |      |
|       | 116D     | 79                |                   |                   | 12     |       |        |          |       |      |
|       | 216D     | 45                |                   |                   |        |       |        |          |       |      |
|       | 416D     | 29                |                   |                   | 5      |       |        |          |       |      |
|       | 616D     | 408 $\frac{1}{2}$ |                   |                   | 5      |       |        |          |       |      |
|       | 16D-6R   |                   | 98 $\frac{1}{2}$  |                   |        |       |        |          |       |      |
| 1300  | 6D-1R    |                   | 113               |                   |        |       |        |          |       |      |
|       | 6D-3R    |                   | 91 $\frac{1}{2}$  |                   |        |       |        |          |       |      |
|       | 6D-4R    |                   | 86                |                   |        |       |        |          |       |      |
|       | 616D     | 38                |                   |                   |        |       |        |          |       |      |
|       | 16D-6R   |                   | 93                |                   |        |       |        |          |       |      |
|       | 10D-1R   |                   | 10                |                   |        |       |        |          |       |      |
|       | 18D-1R   |                   | 37                |                   |        |       |        |          |       |      |
|       | 19D      | 387               |                   |                   |        |       |        |          |       |      |
|       | 20D      | 207               |                   |                   |        |       |        |          |       |      |
|       | 26D      | 390               |                   |                   | 26     |       |        |          |       |      |
|       | 27D      | 413 $\frac{1}{2}$ |                   |                   |        |       |        |          |       |      |
|       | 127D     | 57                |                   |                   |        |       |        |          |       |      |
|       | 227D     | 94 $\frac{1}{2}$  |                   | 44                | 29     |       |        |          |       |      |
|       | 627D     | 573               |                   |                   | 25     |       |        |          |       |      |
|       | 27D-1R   |                   | 144               |                   |        |       |        |          |       |      |
|       | 27D-2R   |                   | 309 $\frac{1}{2}$ |                   |        |       |        |          |       |      |
|       | 28D      | 526               |                   |                   | 6      |       |        |          |       |      |
|       | 128D     | 60                |                   |                   |        |       |        |          |       |      |
|       | 628D     | 540 $\frac{1}{2}$ |                   | 5                 | 81     |       |        |          |       |      |
|       | 630D     | 252               |                   |                   | 20     |       |        |          |       |      |
|       | 28D-1R   |                   | 182               |                   |        |       |        |          |       |      |
|       | 2R       |                   | 102 $\frac{1}{2}$ |                   |        |       |        |          |       |      |
|       | 3R       |                   | 197 $\frac{1}{2}$ |                   | 10     |       |        |          |       |      |
|       | 6XC      |                   |                   | 211 $\frac{1}{2}$ |        |       |        |          |       |      |
| 1450  | 1D       | 230 $\frac{1}{2}$ |                   |                   |        |       |        |          |       |      |
|       | 601D     | 965               |                   |                   |        |       |        |          |       |      |
|       | 606D     | 119               |                   |                   |        |       |        |          |       |      |
|       | 16D      | 273               |                   |                   |        |       | 95     |          |       |      |
|       | 616D     | 255               |                   |                   |        |       |        |          |       |      |
|       | 16D-1R   |                   | 210 $\frac{1}{2}$ |                   |        |       |        |          |       |      |
|       | 2R       |                   | 186               |                   |        |       |        |          |       |      |
|       | 32D      | 133               |                   |                   |        |       |        |          |       |      |
|       | 132D     | 36                |                   |                   |        |       |        |          |       |      |
|       | 632D     | 643               |                   |                   |        |       | 155    |          |       |      |
|       | 32-1R    |                   | 78                |                   |        |       |        |          |       |      |
|       | Sta. XC  |                   |                   | 123 $\frac{1}{2}$ |        |       | 10,974 |          |       |      |
|       | 1XC      |                   |                   | 412 $\frac{1}{2}$ |        |       |        |          |       |      |







Grass Valley, California.

November 29, 1938

Mr. Albert Crase, General Manager,  
Idaho Maryland Mines Corporation,  
Grass Valley, California.

Dear Sir:

The following is a revised report of possible operations  
through the Old Brunswick Shaft.

SUMMARY:

Ship 324 tons per day to Idaho Mill; 60% of ore to come from  
stoping operations and 40% to come from development.

Recovery value of \$7.00 plus per ton.

STOPING

|               | <u>Tons</u> | <u>Miners</u> | <u>Muckers</u> | <u>Timbermen</u> | <u>SAR</u> | <u>N-75</u> |
|---------------|-------------|---------------|----------------|------------------|------------|-------------|
| (6 day basis) | 222         | 38            | 7              | 2                | 15         | 4           |

DEVELOPMENT

|               |     |                     |                 |          |          |    |
|---------------|-----|---------------------|-----------------|----------|----------|----|
| (6 day basis) | 208 | 17                  | 9               |          | 8        | 6  |
| <u>Misc.</u>  |     | <u>29 Misc. men</u> | <u>(Spares)</u> | <u>7</u> | <u>4</u> |    |
|               | 430 | 84                  | 16              | 2        | 30       | 14 |
|               |     | (102 plus 7% off)   |                 |          |          |    |

Assume 25% of development is shipped as waste:

208 less 52 = 156 tons per day, 6 days per week.

222 stope tons/day " " "

378 tons per day " " " "

324 tons per day, 7 day basis.

EQUIPMENT NECESSARY

|                        | <u>COST</u> |
|------------------------|-------------|
| 2 Motors               | \$1000.00   |
| Mancha (Forbestown)    |             |
| Small collecting motor | 300.00      |



Equipment, Cont.Cost

|                                  |                 |           |
|----------------------------------|-----------------|-----------|
| 25 Cars                          | 1 ton mine cars | \$4900.00 |
| 30 SAR Stopers                   | @ \$400         | 12000.00  |
| 14 N-75 Leyners                  | @ \$415         | 5800.00   |
| 60 Sets air hose,                | 3600 ft.        | 1250.00   |
| 60 Sets water hose,              | 4200 ft.        | 700.00    |
| 5 tons drill steel               |                 | 1250.00   |
| 8 - 6' Aluminum bars             | )               |           |
| 6 Assorted length "              | )               |           |
| 12 Single arms                   | )               | 600.00    |
| 12 Saddle clamps                 | )               |           |
| 10 Tugger hoists                 | @ \$325         | 3250.00   |
| 1 Compressor (Forbestown)        |                 | 5000.00   |
| 1 Mucking Machine (Forbestown)   |                 | 2000.00   |
| addition to compressed air lines |                 | 2000.00   |

## Shop Equipment at New Brunswick:

|                         |         |
|-------------------------|---------|
| 1 Lathe 16" x 10'       | 1300.00 |
| 1 Shaper (used)         | 800.00  |
| 1 Bit tempering furnace | 2200.00 |
| 1 Hot Miller            | 1400.00 |
| 1 Swing Saw             | 300.00  |
| 1 Power Hack Saw        | 200.00  |

## Small Tools:

|                      |   |        |
|----------------------|---|--------|
| 60 picks             | } |        |
| 60 shovels           |   |        |
| 60 pinch bars        |   |        |
| 60 Stillson wrenches |   |        |
| 24 Double jacks      |   |        |
| 60 Single jacks      |   |        |
| 10 4' saws           |   |        |
| 10 hand saws         |   |        |
| 5 Jim crows          |   | 750.00 |

TOTAL

47000.00

Less Forbestown

8000.00

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\$39000.00



MONTHLY BUDGET:

|                                                                               |          |          |
|-------------------------------------------------------------------------------|----------|----------|
| Cr. 10,000 tons @ \$7.00                                                      |          | \$70,000 |
| Labor 2652 Shifts @ \$7.00                                                    | \$18,564 |          |
| Supplies @ \$0.75 ton                                                         | 7,500    |          |
| Mill @ \$1.00 per ton                                                         | 10,000   |          |
| Shops                                                                         | 1,800    |          |
| Power                                                                         | 1,000    |          |
| Overhead (already written off)                                                |          |          |
|                                                                               | \$38,864 |          |
| Surface Trucking                                                              | 2,250    |          |
|                                                                               | \$41,114 |          |
| Profit per month (before depreciation<br>depletion and State and Fed. taxes.) |          | \$28,886 |

In examining the individual working places attached, you will note that no provision has been made for purely waste development, a report of which was sent to Mr. MacBoyle, April 12, 1938.

This included 900-2D-4 Raise to the anticline.

900-8Xc to stringer zone north of the 21 Drift.

900-12 Drift to known ore west of present face.

900-4Xc to 18 Vein.

670-601 Drift to explore west section of Brunswick vein.

670-1 Drift over known ore of doubtful grade on 900.

Additional waste headings would be the 300 - 1Xc to the 16 vein on that level, for which a skip pocket on the Old Brunswick shaft would have to be made.

580 - 2Xc from present face to the 28 Vein on that horizon, for which facilities for waste disposal are available. — *Wait for 900-28-1R*

Equipment for above and cost of operation have not been included in estimate.



During the past three months we have worked an average of 548 man shifts per month on the O.B. levels and the ore extraction averaged 2878 tons per month, or on a 26 day basis we averaged  $22\frac{1}{2}$  men per day and the extraction was 110 tons per day. By moving these same men to the N.B. levels with their equipment it will be possible to continue the N.B. at its average tonnage and hoist thru the N.B. shaft. The total tons from both shafts should average about 950 per day.

Some provision for change house and garages should be considered.

Yours very truly,

J. F. Cowley  
Mine Superintendent

JFC/ b



STOPING

| <u>Place</u>      | <u>Daily<br/>Tons</u> | <u>Miners</u> | <u>Muckers</u> | <u>T &amp; H</u> | <u>SAR 120</u> | <u>N-75</u> |
|-------------------|-----------------------|---------------|----------------|------------------|----------------|-------------|
| 670 Level 1 Stope | 18                    | 4             | 1              |                  | 2              |             |
| 670 " 2 Stope     | 18                    | 4             | 1              |                  | 2              |             |
| 900 - 4D - 4S     | 18                    | 2             | 1              |                  |                | 1           |
| 4D - 5S           | 18                    | 2             | 1              |                  |                | 1           |
| 6D-- 2S           | 20                    | 4             |                |                  | 2              |             |
| 7D - 1S           | 15                    | 2             | 1              |                  |                | 1           |
| 7D - 2S           | 20                    | 4             |                |                  | 2              |             |
| 32D - 2S          | 20                    | 4             |                |                  | 2              |             |
| 32D - 3S          | 25                    | 4             | 2              | 2                | 1              | 1           |
| 16D - 1S          | 20                    | 4             |                |                  | 2              |             |
| 16D - 2S          | <u>20</u>             | <u>4</u>      | <u>—</u>       | <u>—</u>         | <u>2</u>       | <u>—</u>    |
|                   | 222                   | 38            | 7              | 2                | 15             | 4           |

DEVELOPMENT

|                |           |          |          |          |          |          |
|----------------|-----------|----------|----------|----------|----------|----------|
| 58 Level 16D   | 12        | 1        | 1        |          |          | 1        |
| 616D           | 12        | 1        | 1        |          |          |          |
| 800 Level 17D  | 12        | 1        | 1        |          |          | 1        |
| 4D             | 12        | 1        | 1        |          |          | 1        |
| 616D           | 12        | 1        | 1        |          |          | 1        |
| 900 Level 616D | 12        | 1        | 1        |          |          | 1        |
| 216D           | 12        | 1        | 1        |          |          |          |
| 28D            | 12        | 1        | 1        |          |          | 1        |
| 628D           | 12        | 1        | 1        |          |          |          |
| 580L -16D - 1R | 25        | 2        |          |          | 2        |          |
| 900L -16D -4R  | 25        | 2        |          |          | 2        |          |
| 900L -28D - 1R | 25        | 2        |          |          | 2        |          |
| 1D - 6R        | <u>25</u> | <u>2</u> | <u>—</u> | <u>—</u> | <u>2</u> | <u>—</u> |
|                | 208       | 17       | 9        |          | 8        | 6        |
| <u>TOTALS</u>  | 430       | 55       | 16       | 1        | 23       | 10       |



Misc. Men

2 Supply Men

8 Motor Men

1 Pipe Man

1 Top Man

2 Skip Tenders

6 Timbermen & Helpers

2 Crushermen

2 Watchmen

5 Bosses.



IDAHO MARYLAND MINES CORPORATION  
1939 ANNUAL SUMMARY OF DIAMOND DRILLING

IDAHO UNIT:

| <u>Runner</u> | <u>Feet Drilled</u> | <u>Av. ft. / shift</u> | <u>Av. ft. / pull.</u> |
|---------------|---------------------|------------------------|------------------------|
| Owen          | 4,608               | 27.9                   | 4.98                   |
| Hunt          | 6,395               | 26.22                  | 5.19                   |
| H. Hawk       | 3,321               | 25.45                  | 5.07                   |
| C. Hawk       | <u>29</u>           | <u>-</u>               | <u>-</u>               |
|               | 14,353              | 26.52                  | 5.08                   |

BRUNSWICK UNIT:

|         |              |             |            |
|---------|--------------|-------------|------------|
| Owen    | 2,942        | 31.1        | 7.6        |
| H. Hawk | 3,660        | 28.1        | 6.1        |
| C. Hawk | <u>8,300</u> | <u>30.9</u> | <u>5.7</u> |
|         | 14,902       | 30.0        | 6.5        |

TOTAL DRILLING:

|         |              |             |            | <u>Av. ft./bit</u> |
|---------|--------------|-------------|------------|--------------------|
| Owen    | 7,550        | 29.1        | 5.9        | 128.3              |
| Hunt    | 6,395        | 26.2        | 5.2        | 52.0               |
| H. Hawk | 6,981        | 26.8        | 5.6        | 54.8               |
| C. Hawk | <u>8,329</u> | <u>30.9</u> | <u>5.7</u> | <u>61.1</u>        |
|         | 29,255       | 28.2        | 5.6        | 66.7               |



BRUNSWICK  
DEVELOPMENT WASTE 1938

| VEIN                         | WASTE HOISTED | WASTE GOBBED | TOTAL |
|------------------------------|---------------|--------------|-------|
| 1                            | 2171          | 41           | 2212  |
| 4                            | 326           | 417          | 743   |
| 5                            | 71            |              | 71    |
| 6                            | 325           | 6            | 331   |
| 7                            |               | 38           | 38    |
| 8                            |               | 18           | 18    |
| 9                            | 82            |              | 82    |
| 12                           | 208           | 148          | 356   |
| 16                           | 3198          | 1915         | 5113  |
| 19                           | 827           |              | 827   |
| 20                           | 412           |              | 412   |
| 26                           | 803           |              | 803   |
| 27                           | 3119          |              | 3119  |
| 28                           | 322           | 275          | 597   |
| 29                           | 468           |              | 468   |
| 32                           | 1517          |              | 1517  |
| Stations<br>and<br>Pockets   | 1584          |              | 1584  |
| Shaft<br>(Vert)              | 4648          |              | 4648  |
| X-C                          | 9216          | 3905         | 13121 |
| Total                        | 29297         | 6763         | 36060 |
| Total Waste)<br>from stopes) | 30<br>29327   | 538<br>7301  | 568   |



UNDER GROUND RATES EFFECTIVE APRIL 1, 1937  
UNDERGROUND RATES EFFECTIVE APRIL 1, 1937

| <u>Occupation</u> | <u>1 Hour</u>     | <u>8 Hours</u> |
|-------------------|-------------------|----------------|
| Diamond Drill     | .87 $\frac{1}{2}$ | 6.98           |
| Jigger Boss       | .81               | 6.48           |
| Shaft Miner       | .81               | 6.48           |
| " Hoistman        | .81               | 6.48           |
| UG Hoistman       | .74 $\frac{3}{4}$ | 5.98           |
| Timberman         | .74 $\frac{3}{4}$ | 5.98           |
| " Helper          | .68 $\frac{1}{2}$ | 5.48           |
| Miner             | .72               | 5.76           |
| Motorman          | .72               | 5.76           |
| " (Idaho)         | .74 $\frac{3}{4}$ | 5.98           |
| " Swamper         | .68 $\frac{1}{2}$ | 5.48           |
| Mucker            | .65 $\frac{1}{2}$ | 5.24           |



MILL RATES EFFECTIVE APRIL 1, 1937

| <u>Occupation</u> | <u>1 Hour</u> | <u>8 Hours</u> |
|-------------------|---------------|----------------|
| Mill Boss         | .81           | 6.48           |
| " Mechanic        | .81           | 6.48           |
| " Operator        | .74 3/4       | 5.98           |
| "Mechanic         | .71 5/8       | 5.73           |
| "Mechanic         | .68 1/2       | 5.48           |
| "Helpers          | .62 1/2       | 4.98           |
| Assayer Chief     | .74 3/4       | 5.98           |
| Assayer           | .65 1/2       | 5.24           |



SURFACE RATES EFFECTIVE APRIL 1, 1937

| <u>Occupation</u> | <u>1 Hour</u> | <u>8 Hours</u> |
|-------------------|---------------|----------------|
| Foreman           | .87½          | 6.98           |
| Draftsman         | .81           | 6.48           |
| Mechanic          | .74 ¾         | 5.98           |
| Machinist         | .78           | 6.24           |
| Blacksmith        | .81           | 6.48           |
| Blacksmith        | .74 ¾         | 5.98           |
| Electrician       | .74 ¾         | 5.98           |
| Electrician       | .81           | 6.48           |
| Truck Driver      | .68½          | 5.48           |
| Semi-Skilled      | .65½          | 5.24           |
| Semi-Skilled      | .62½          | 4.98           |
| Unskilled         | .56           | 4.48           |
| "                 | .49 ¾         | 3.98           |
| "                 | .43½          | 3.48           |
| "                 | .37½          | 2.98           |



# IDAHO MARYLAND MINES

## PROPERTY - - ORIGIN

|                            |   |                    |   |
|----------------------------|---|--------------------|---|
| Idaho Maryland             | 1 | Underground        | 1 |
| A.V. Bullion Mine & Alaska | 2 | Surface            | 2 |
| Forbestown                 | 3 | Mills              | 3 |
|                            | 4 | Cyanide Plant      | 4 |
|                            | 5 | Commisary          | 5 |
| Brunswick Mine             | 6 | Engineering        | 6 |
|                            | 7 | Mine Office        | 7 |
| Fruit and Stock Ranches    | 8 | Idaho Shaft #2     | 8 |
| Misc. Accts. Rec.          | 9 | Distribution Cards | 9 |

## RANCHES

|                           |   |
|---------------------------|---|
| Loma Rica                 | 1 |
| Brunswick, Parson, Hopper | 2 |
| Macari, Mitchell, Conti   | 3 |
|                           | 4 |
|                           | 5 |
|                           | 6 |
| Airport                   | 7 |
|                           | 8 |
|                           | 9 |

## TRUCKS

|                 |   |
|-----------------|---|
| M & R and Misc. | 7 |
| Driving         | 8 |
| Load & Unload   | 9 |

## CODING OF LOCATIONS

### DESCRIPTION OF LOCATIONS

|                |                    |
|----------------|--------------------|
| 1st Column     | Ore Body           |
| Next 2 Columns | Level              |
| Next 1 Column  | Sub-Level          |
| Next 3 Columns | Drift or X Cut     |
| Next 1 Column  | Description        |
| Next 2 Columns | No. of Description |
| Next 1 Column  | Station            |

### STATIONS

|   |               |
|---|---------------|
| 4 | Transformers  |
| 5 | Shafts        |
| 6 | Sumps         |
| 7 | Ore Pockets   |
| 8 | Waste Pockets |
| 9 | Pump Stations |

### DESCRIPTION

|   |                |
|---|----------------|
| 1 | Raises         |
| 2 | Winzes         |
| 3 | Stopes         |
| 4 | D. Drill Holes |
| 5 | Shafts         |
| 6 | Tunnels        |

### DRIFT OR X CUT NUMBERS

|     |                                          |
|-----|------------------------------------------|
| 000 | East Drifts                              |
| 600 | West Drifts                              |
| 700 | X Cuts                                   |
| 800 |                                          |
| 900 | Used when more than two drifts are oper. |

### SHAFTS

|      |            |
|------|------------|
| 5-01 | Idaho Main |
| 5-02 | Idaho #2   |
| 5-03 | N Bruns.   |
| 5-04 | O Bruns.   |
| 5-05 | Bullions   |
| 5-06 | Alaska     |

### TENTHS OF HOURS

|       |     |
|-------|-----|
| 1/8   | .13 |
| 1/4   | .25 |
| 3/8   | .38 |
| 5/8   | .62 |
| 7/8   | .87 |
| 1/16  | .06 |
| 3/16  | .19 |
| 5/16  | .31 |
| 7/16  | .44 |
| 9/16  | .56 |
| 11/16 | .69 |
| 13/16 | .81 |
| 15/16 | .94 |

### CLASS OF LABOR

|   |                                                     |
|---|-----------------------------------------------------|
| 1 | Development & Extraction Oper.                      |
| 2 | Development Maintenance & Repairs                   |
| 3 | Development prior to Oper. Period                   |
| 4 | Capitalized Dev. During and after Oper. (Recapture) |

### SHIFTS

|   |           |              |
|---|-----------|--------------|
| 1 | Day       | 7:00 - 3:30  |
| 2 | Afternoon | 3:30 - 11:00 |
| 3 | Night     | 11:00 - 7:00 |



BRUNSWICK NUMBERING SYSTEM

VEINS



| Vein | Type Location                                              | Vein | Type Location                          |
|------|------------------------------------------------------------|------|----------------------------------------|
| 1    | 900-2XC HW & FW Vn.                                        | 26   | 1300-1XC FW of 27 Vn.                  |
| 2    | 580-1XC HW & FW Vn.                                        | 27   | 1300-1XC                               |
| 3    | Idaho 25 Vn. & 35 Vn. (2000L)                              | 28   | 1300-6XC FW of 18 Vn.                  |
| 4    | 6-3 (Idaho 63 Vn.)                                         | 29   | 1600-1XC N15W.                         |
| 5    | 900-2XC                                                    | 30   | 1300-6XC <sup>links</sup> 28 to 31 Vn. |
| 6    | Betascon 1K & 16 Vn.                                       | 31   | 1600L-428D 900L-8XC                    |
| 7    | 900L-2P FW of 32 Vn.                                       | 32   | 900L-2P FW of 1 Vn. S. of 2 Vn.        |
| 8    | 900-1000-1100-1300 FW of 9 Vn.                             | 33   | 1600L-31D HW split FW of 10 Vn.        |
| 9    | 1100-3XC FW of 6 Vn.                                       | 34   | 580-1XC FW of 18 Vn.                   |
| 10   | 1100-6XC FW of 9 Vn.                                       | 35   | 1450-4XC, 2000L-1D i.e. 2 Vn.          |
| 11   | Rev. dip.                                                  | 36   | 580-4XC, 600L Anticline                |
| 12   | 990L - FW of 1 Vn N of 2 Vn                                | 37   | 1100-10XC FW of 28 Vn.                 |
| 13   | 900L-42D                                                   | 38   | 1200-4P FW of 18 Vn above 4 Vn.        |
| 14   | 1300L-4XC FW of 32 Vn                                      | 39   | 2300 (2000, 1D)                        |
| 15   | <sup>1300-4W &amp; 14 Vn.</sup><br>1300L HW of 6-3         | 40   | 1450-6XC FW of 28 Vn.                  |
| 16   | 1300L-1XC-FW of 19 Vn                                      | 41   | 1450-6XC-8XC FW of 40 Vn.              |
| 17   | 900L-4D FW of 7 Vn + 4 Vn.                                 | 42   | 900-2XC FW of 1 Vn N of 2 Vn           |
| 18   | 1100L-6XC FW of 10 Vn                                      | 43   |                                        |
| 19   | 900L-3XC FW of 1124 Vn. Until "Georgia"                    | 44   |                                        |
| 20   | 1300-830D, 1600L-20D                                       | 45   |                                        |
| 21   | <del>900L-17D FW of 11</del> 2300L-32D (2000-1D)           | 46   |                                        |
| 22   | 1300L-1XC 900L-42D                                         | 47   |                                        |
| 23   | <del>900L-4D HW</del><br><sup>1100-31D</sup>               | 48   |                                        |
| 24   | 1300L-1XC FW of 24 Vn                                      | 49   |                                        |
| 25   | <del>1000L-11D FW of 10D</del><br><sup>1100 Sec 110D</sup> | 50   |                                        |

N 15° W



# BRUNSWICK NUMBERING SYSTEM LEVELS & CROSS-CUTS

|      |              |            |             |          |
|------|--------------|------------|-------------|----------|
| 1XC  | 2XC          | 3XC        | 4XC         | 5XC      |
| 1600 | 10 to 14 D   | 10 to 31 D | 31 to 22    | 31 to 28 |
| 1740 |              |            |             | HW 631 D |
| 1880 |              |            |             |          |
| 2020 |              |            |             |          |
| 2160 |              |            |             |          |
| 2300 | 5 to 6 1/2 P | 31 to 33   |             |          |
| 2440 |              |            | 33 to 28 to |          |
| 2580 |              |            |             |          |
| 2720 |              |            |             |          |
| 2860 |              |            |             |          |
| 3000 |              |            |             |          |
| 3140 |              |            |             |          |
| 3280 |              |            |             |          |
| 3420 |              |            |             |          |



| LEVEL         | In H. W. of $\frac{1}{2}$ Vein<br>1 XC 3 XC 5 XC | 7 XC                             | In F. W. of $\frac{1}{2}$ Vein<br>2 XC 4 XC 6 XC 8 XC 10 XC                   |
|---------------|--------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------|
| 70 10         |                                                  |                                  |                                                                               |
| 140 10        |                                                  |                                  |                                                                               |
| 300 10        |                                                  |                                  | FW of 12                                                                      |
| 380 10        |                                                  |                                  |                                                                               |
| 460 10        |                                                  |                                  |                                                                               |
| 490           | HW of 10-18                                      |                                  |                                                                               |
| 550 10        |                                                  |                                  |                                                                               |
| 580           | 10 to 16 D                                       |                                  | sta to 7 V, 160 to 30 D 40 to                                                 |
| 600-30        |                                                  |                                  |                                                                               |
| 670           | 10 to 31                                         |                                  |                                                                               |
| 700           | 160 to 116 D                                     |                                  |                                                                               |
| 730 10        |                                                  |                                  |                                                                               |
| 750           | 116 to 116 D                                     |                                  |                                                                               |
| 800           | FW of 7 D                                        |                                  |                                                                               |
| 840           |                                                  |                                  | 900-20-3 R                                                                    |
| 900           | sta to 16 D                                      | Ind.<br>10 W of 0.8, 28 D to sh. | FW of 6 D<br>FW of 10 D<br>10 to 4 D<br>FW of 17 D 4 D to 31 D FW of 7 D (23) |
| 980 70<br>280 |                                                  |                                  |                                                                               |
| 990 120       |                                                  |                                  |                                                                               |
| 1000          | HW of 32 D 18 D-1 R                              |                                  | FW of 40-15<br>FW of 9 D<br>FW of 4 D                                         |
| 1080 40       |                                                  |                                  |                                                                               |
| 1100          | sta to 190<br>20 to 9 D                          |                                  | 10 to 2 D 20 to 12 D 9 D to 18 D HW of 63 (22) FW of 28 D                     |
| 1200          | sta. to 1 D                                      |                                  |                                                                               |
| 1250 40       |                                                  |                                  |                                                                               |
| 1270 10       |                                                  |                                  |                                                                               |
| 1300          | sta to 27 D 160 to 15 D 180 to 20-2 R            |                                  | 10 to 20-2 R sta to 18 D 18 D to 28 D                                         |
| 1400          | sta to 1 D                                       |                                  |                                                                               |
| 1450          | 1 D (142) to 19 D 280 to 30 D                    |                                  | 10 to 32 D 32 D to 28 D 28 D to 41 D                                          |



# NEW BRUNSWICK STANDARD WHISTLE CALLS

| <u>CALL FOR</u>                           | <u>LONG</u> | <u>SHORT</u> | <u>LONG</u> |
|-------------------------------------------|-------------|--------------|-------------|
| Watchmen                                  | 1           |              |             |
| Shaft supply men                          | 2           |              |             |
| Master Mechanic                           | 3           |              |             |
| Electrician                               | 1           | 1            |             |
| Foreman's office                          | 1           | 2            |             |
| Supt's office                             | 1           | 3            |             |
| First Aid man                             | 2           | 1            |             |
| Assay office                              | 2           | 2            |             |
| O. B. Hoist                               | 2           | 3            |             |
| Crusher man                               |             | 1            | 1           |
| Warehouse                                 |             | 2            | 1           |
| Mill Supt.                                |             | 3            | 1           |
| Employment officer                        |             | 1            | 2           |
| Construction foreman or<br>member of crew |             | 2            | 2           |
| Personnel Mgr.                            | 1           | 1            | 1           |
| Truck Driver                              | 1           | 2            | 1           |
| Pumpman                                   | 1           | 3            | 1           |
|                                           | 2           | 1            | 1           |
|                                           | 2           | 2            | 1           |







Idaho Maryland Mines Corp.

RESUME OF ORE RESERVE ESTIMATE, JAN. 1, 1939

BRUNSWICK UNIT

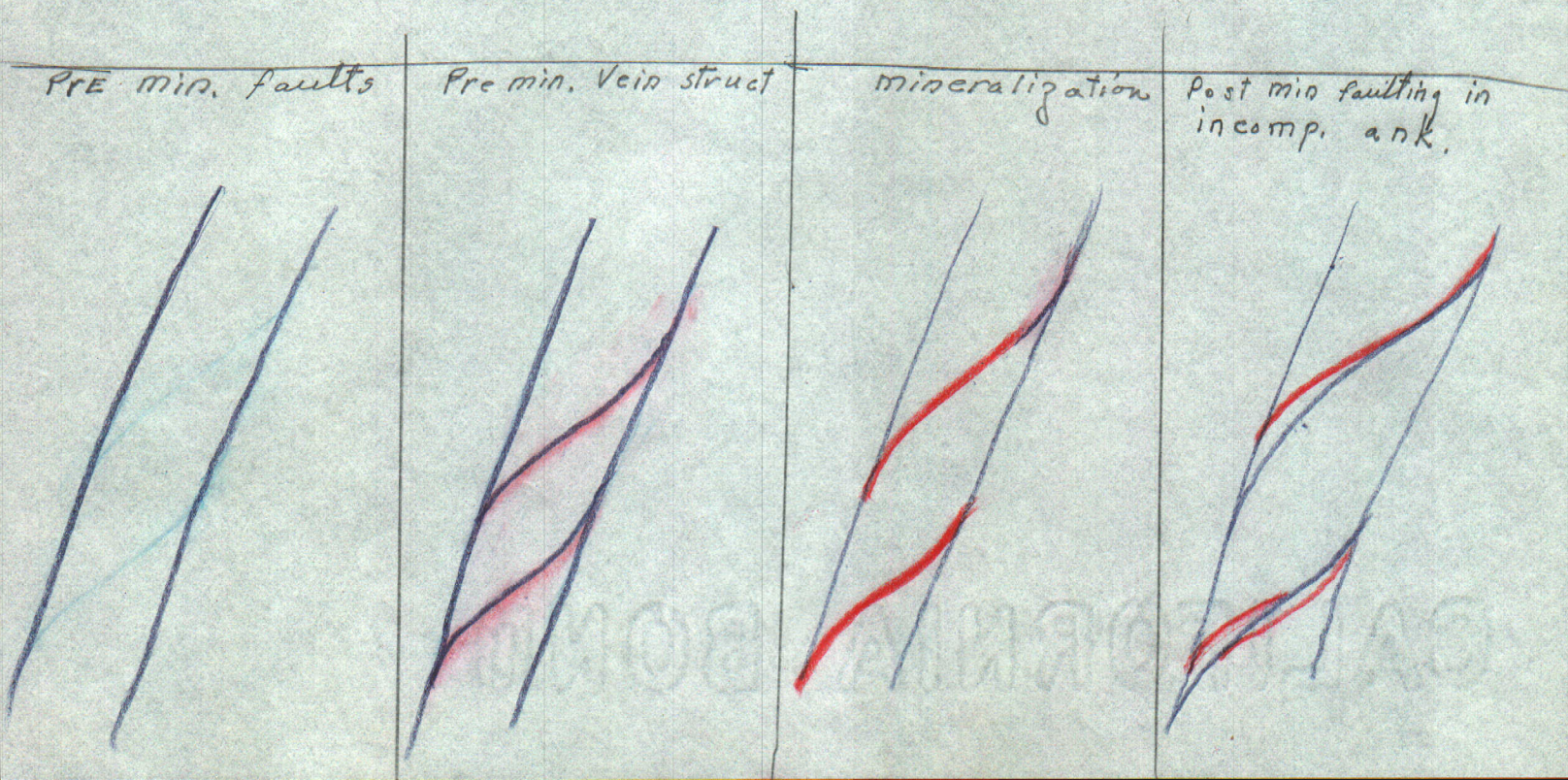
| <u>Vein No.</u> | <u>Ore Extracted in 1938</u><br><u>Tons</u> | <u>%</u> | <u>Tons Developed 1938</u> | <u>Net Change in Reserve</u> | <u>Ore Reserve Jan. 1, 1939</u> |
|-----------------|---------------------------------------------|----------|----------------------------|------------------------------|---------------------------------|
| 1               | 5521                                        | 2.5      | 15,077                     | + 9556                       | 90,756                          |
| 2               | 41                                          |          | 41                         |                              | 21,115                          |
| 3               |                                             |          |                            |                              | 100                             |
| 4               | 19024                                       | 8.7      |                            | - 19024                      | 12,331                          |
| 5               |                                             |          |                            |                              | 10,000                          |
| 6               | 33342                                       | 15.2     | 14,386                     | - 18956                      | 47,054                          |
| 7               | 5621                                        | 2.6      |                            | - 5621                       | 27,332                          |
| 8               | 1217                                        | .6       | 271                        | - 946                        | 5,824                           |
| 9               | 162                                         | .07      | 63                         | - 99                         | 2,181                           |
| 10              | 2206                                        | 1.0      |                            | - 2206                       | 20,944                          |
| 11              |                                             |          |                            |                              | 1,000                           |
| 12              | 18246                                       | 8.4      | 10,102                     | - 8144                       | 6,756                           |
| 14              |                                             |          |                            |                              | 260                             |
| 16              | 52521                                       | 24.1     | 122,101                    | + 69580                      | 116,815                         |
| 17              |                                             |          |                            |                              | 7,660                           |
| 18              | 334                                         | .16      | 147                        | - 187                        | 36,843                          |
| 19              | 360                                         | .16      | 403                        | - 43                         | 263                             |
| 20              | 119                                         | .06      | 119                        |                              | 690                             |
| 21              |                                             |          |                            |                              | 1,360                           |
| 22              |                                             |          |                            |                              | 940                             |
| 23              |                                             |          |                            |                              | 110                             |
| 24              |                                             |          |                            |                              | 30                              |
| 25              |                                             |          |                            |                              | 80                              |
| 26              | 362                                         | .16      | 3,372                      | + 3010                       | 3,770                           |
| 27              | 3617                                        | 1.7      | 14,287                     | + 10670                      | 10,970                          |
| 28              | 11426                                       | 5.2      | 53,116                     | + 41690                      | 41,690                          |
| 29              | 198                                         | 0.08     | 198                        |                              |                                 |
| 30              | 1023                                        | .5       | 3,653                      | + 2630                       | 2,630                           |
| 32              | 62807                                       | 28.8     | 57,887                     | - 4920                       | 66,400                          |
| 42              |                                             |          |                            |                              | 20,770                          |
| Union Hall      |                                             |          |                            |                              | 100                             |
| TOTAL           | 218147                                      | 100. %   | 295,223                    | + 77076                      | 556,774                         |

crossings



The following are confirmed by only a few observed occurrences of fault and vein intersections, all of which, however, are similar.

Ribboning occurs along the vein parallel to the fault at their intersection. If ribboning is admitted to be the expression of some of the intra-mineral movements then it is evident that the fault is intra mineral. In some cases the fault may be pre-mineral and this can usually be determined in the field. In the case of a pre mineral fault there is no use looking for an offset vein. There may be an offset structure which may carry ore. If the Idaho may be put in any of the above conditions then extensive development for lost veins is unnecessary. The faults may be looked upon as parent structures rather than wolves. In selected areas they may have their post mineral paths determined by the veins, in others the controlling factor may be the wall rock which now have a reduced competency. In any area the post movement will follow the lines of least resistance which may or may not be along pre-existing veins. Further such movement may be subject to such variable control that all the expressions will be observed in a single stope. The only difference between a fault and a vein is that a fault has no ore. The reason should be structural.





## 1.- 6-3 as a buttress

## A.- Morehouse underthrust normal to 6-3

This gives a little movement on the S end and much movement on the N end with the E block moving S

Veins have horizontal movement - N block to west  
27 Vein wedge: S end up, N end down

B.- Morehouse underthrust  $45^{\circ}$  N to 6-3

About as "A" except there is movement along entire length of 6-3

C.- Morehouse underthrust  $45^{\circ}$  S to 6-3

Normal faulting with large openings at depth on 6-3

## 2.- Morehouse as buttress block

## A.- north or south compression - no vein movement

## B.- Compression due west

Veins reverse up to east - some hinge

Normal movement on bowl

More movement on N end of 6-3 than on S end

C.- Compression  $45^{\circ}$  SW

Horizontal on bowl unless Spring Hill makes a graben - then not much (Normal bowl)

Reverse on veins - more movement at 6-3 end  
6-3 to S

D.- Compression  $45^{\circ}$  NW

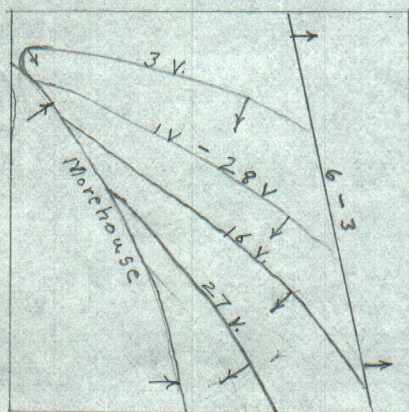
Movement up bowl

Veins up to left - reverse - N side to E

27 Vein wedge hinges at west end

6-3 to N

In all cases S veins have more Shearing movement





## IDAHO MARYLAND MINES CORP.

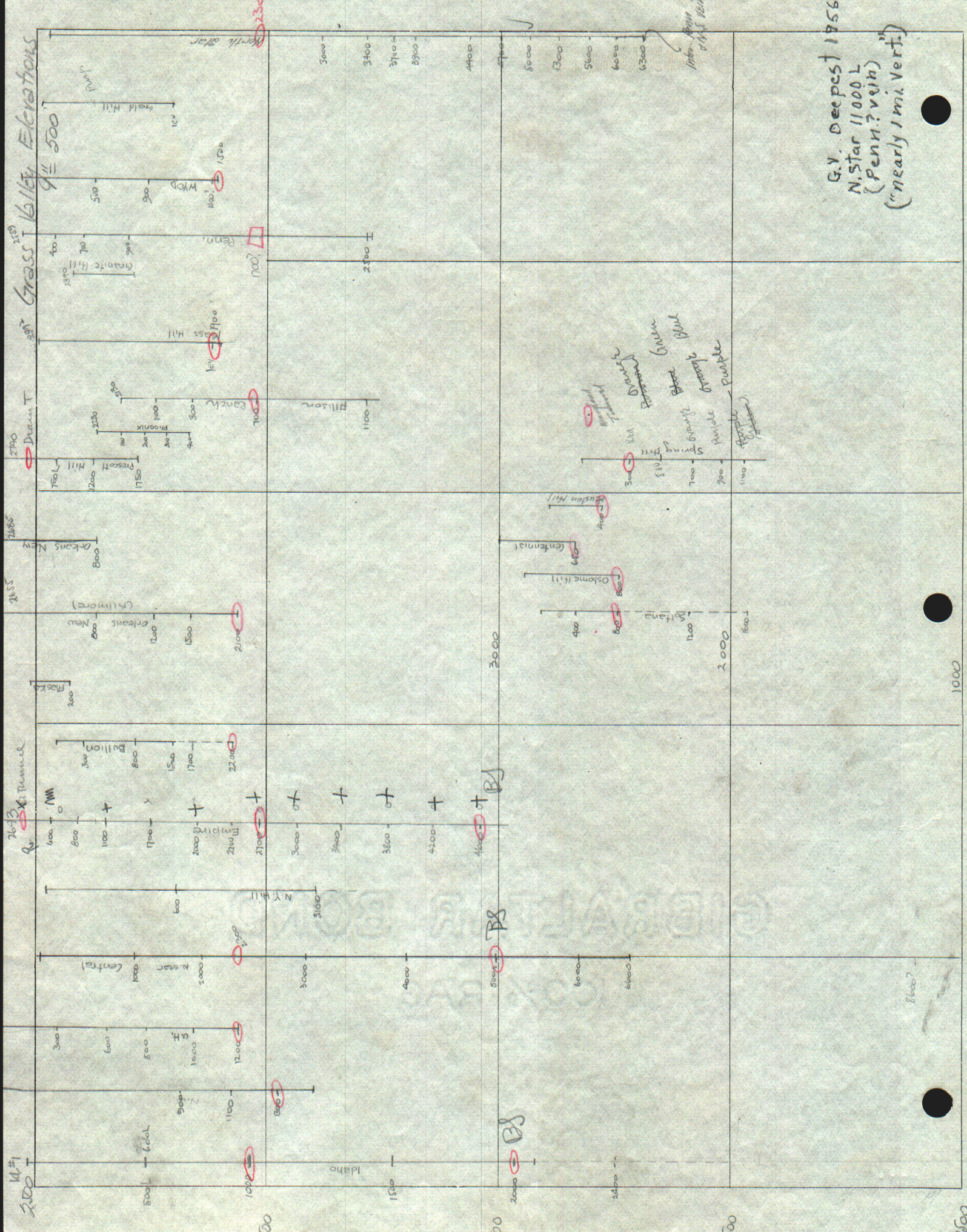
| <u>Idaho #1</u>     | <u>Idaho #2</u>    | <u>Ida.3-1 Wz.</u>   | <u>Idaho 3-3 Rs</u> | <u>Brunswick Main</u> | <u>Old Brunswick</u> | <u>Union Hill</u> |
|---------------------|--------------------|----------------------|---------------------|-----------------------|----------------------|-------------------|
| Col. 2523           | Col. 2668          | 1000 1579            | 1100 1394           | Collar 2753           | Collar 2851          | Collar 2661       |
| 300 2216            | Id. 2615           | 1050 1489            | 1200 1293           | 300 2463              | Drain T 2737         | 300 2405          |
| 400 2110            |                    | 1100 1389            | 1300 1199           | 530 2213              | 70 2670              | 600 2186          |
| 500 2019            | 500 2144           | 1200 1293            | 1400 1104           | 580 2179              | 140 2615             | 800 2019          |
| 600 1922            | 600 1991           | 1300 1203            | 1450 1039           | 670 2080              | 300 2448             | 1000 1813         |
| 700 1828            | 700 1915           | 1400 1110            | 1500 964            | 700 2062              | 380 2365             | 1200 1617         |
| 800 1728            | 800 1816           | 1500 968             | 1600 858            | 800 1962              | 490 2261             |                   |
| 900 1636            | 850 1729           | 1600                 | 1700 786            | 900 1874              | 580 2169             |                   |
| 1000 1547           | 900 1653           | 1600                 | 18-1 763            | 1000 1774             | 670 2077             |                   |
| 1500 959            | 1000 1575          | 1800 712             | 1900 658            | 1100 1649             | 800 1946             |                   |
| 2000 420            | Sump 1543          | Canyon Wz. 1000 1550 | 1900 575            | 1200 1545             | 900 1846             |                   |
|                     |                    | 1100 1445            | 1950 562            | 1300 1448             |                      |                   |
|                     |                    | 1200 1330            | 1970 532            | 1400 1360             |                      |                   |
|                     |                    | 1400 1081            | 1980 438            |                       |                      |                   |
| Ida 16-2Wz 2000 420 | Ida 2 1Wz 2000 430 | 1500 968             | 2000                |                       |                      |                   |
| 2100 315            | 2070 360           | 1600 825             |                     |                       |                      |                   |
| 2300 131            | 2140 288           | 1700 688             | Dorsey Wz. 1600 842 |                       |                      |                   |
|                     | 2190 244           | 1800 586             | 1700 735            |                       |                      |                   |
|                     | 2320 104           | 1900 497             | 1800 678            |                       |                      |                   |
|                     | 2430 0             | 2000 414             | 1900 645            |                       |                      |                   |
|                     |                    | 2100 315             | Sump 605            |                       |                      |                   |
|                     |                    | 2350 125             |                     |                       |                      |                   |



ELEVATIONS OF NINE LEVELS, IDAHO MARYLAND MINES CORP.

| <u>Idaho #1</u> | <u>Idaho #2</u> | <u>Ida. 3-1 Wz.</u> | <u>Idaho 3-3 Rs</u> | <u>Brunswick Main</u> | <u>Old Brunswick</u> | <u>Union Hill</u> |
|-----------------|-----------------|---------------------|---------------------|-----------------------|----------------------|-------------------|
| Col. 2523       | Col. 2668       | 1000 1579           | 1100 1394           | Collar 2753           | Collar 2851          | Collar 2661       |
| 300 2216        | Md. 2615        | 1050 1489           | 1200 1293           | 300 2463              | Drain T 2737         | 300 2405          |
| 400 2110        |                 | 1100 1389           | 1300 1199           | 530 2213              | 70 2670              | 600 2186          |
| 500 2019        | 500 2144        | 1200 1293           | 1400 1104           | 580 2179              | 140 2615             | 800 2019          |
| 600 1922        | 600 1991        | 1300 1203           | 1450 1039           | 670 2080              | 300 2448             | 1000 1813         |
| 700 1828        | 700 1915        | 1400 1110           | 1500 964            | 700 2062              | 380 2365             | 1200 1617         |
| 800 1728        | 800 1816        | 1500 968            | 1600 858            | 800 1962              | 490 2261             |                   |
| 900 1636        | 850 1729        | 1600 968            | 1700 786            | 900 1874              | 580 2169             |                   |
| 1000 1547       | 900 1653        | 1600 968            | 18-1 763            | 1000 1774             | 670 2077             |                   |
| 1500 959        | 1000 1575       | Canyon Wz. 1550     | 1800 712            | 1100 1649             | 800 1946             |                   |
| 2000 420        | Stump 1543      | 1000 1550           | 1900 658            | 1200 1545             | 900 1846             |                   |
|                 |                 | 1100 1445           | 1950 575            | 1300 1448             |                      |                   |
|                 |                 | 1200 1330           | 1970 562            | 1400 1360             |                      |                   |
|                 |                 | 1400 1081           | 1980 532            |                       |                      |                   |
| Ida 16-2Wz 420  | Ida 2 1Wz 430   | 1500 968            | 2000 438            |                       |                      |                   |
| 2000 420        | 2000 2070       | 1600 825            |                     |                       |                      |                   |
| 2100 315        | 2140 288        | 1700 688            |                     |                       |                      |                   |
| 2300 131        | 2190 244        | 1800 586            | Dorsey Wz. 843      |                       |                      |                   |
|                 | 2320 104        | 1900 497            | 1700 735            |                       |                      |                   |
|                 | 2430 0          | 2000 414            | 1800 678            |                       |                      |                   |
|                 |                 | 2100 315            | 1900 645            |                       |                      |                   |
|                 |                 | 2350 125            | Stump 605           |                       |                      |                   |

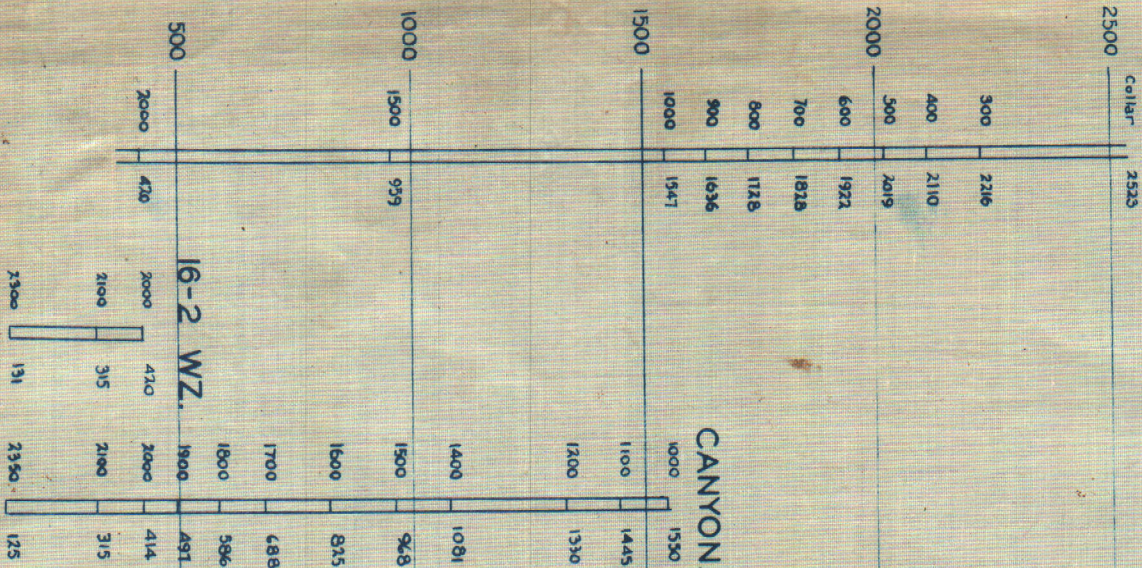




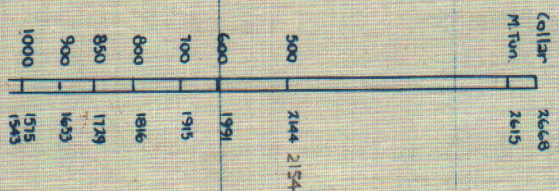
G.V. Deerpast 1956  
 N. Star 1100 L  
 (Penn. vein)  
 ("nearly 1 mi. Vert.")



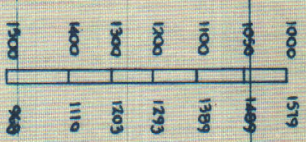
# IDAHO 1



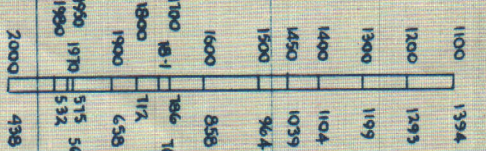
# IDAHO 2



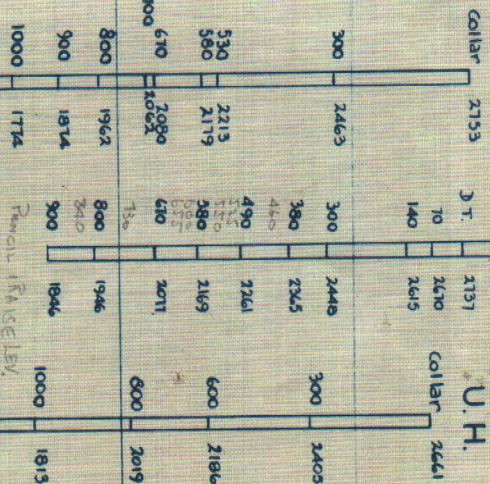
# 3-1 WZ.



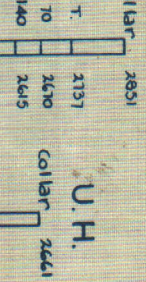
# 3-3 RS.



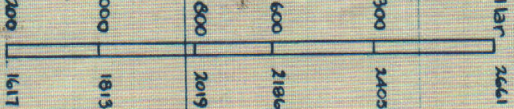
# N.B.



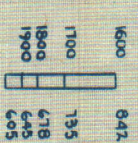
# O.B.



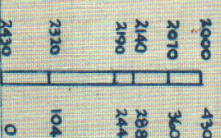
# U.H.



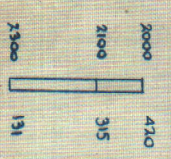
# DORSEY



# 2-1 WZ.



# 16-2 WZ.



1" = 400' (vert)



I. M. M. CORP.  
BRUNSWICK MINE - YEARLY PRODUCTION BY VEINS

Vertical Scale: 1 in. = 100,000 Tons

| VEIN - | 1                     | 2                | 4                | 5             | 6&9              | 7                | 10              | 12               | 16                | 27           | 28               | 30              | 32                | MISC.<br>(Totals less<br>than 1%) | TOTAL              |
|--------|-----------------------|------------------|------------------|---------------|------------------|------------------|-----------------|------------------|-------------------|--------------|------------------|-----------------|-------------------|-----------------------------------|--------------------|
|        | R 100<br>P 10,654     | ---              | ---              | ---           |                  |                  |                 |                  |                   |              |                  |                 |                   | (UH) 100<br>(3V) 127              | 200<br>16,547      |
| 1934   | 64%                   | 11%              | 15%              | 9%            |                  |                  |                 |                  |                   |              |                  |                 |                   | 1%                                | 100%               |
|        | R 53,790<br>P 24,214  | 10,671<br>7,895  | 14,900<br>27,515 | 58,700<br>856 | 1,457            | 1,038            |                 | 5,790            |                   |              |                  |                 | 5,209             | 200<br>(42V) 1,979                | 138,261<br>75,953  |
| 1935   | 32%                   | 10%              | 36%              | 1%            | 2%               | 1%               |                 | 8%               |                   |              |                  |                 | 7%                | 3%                                | 100%               |
|        | R 54,921<br>P 19,158  | 14,050<br>11,203 | 45,400<br>55,579 | 57,844        | 4,300<br>29,244  | 7,000<br>13,457  | 3,366           | 8,000<br>18,901  | 2,667             |              |                  |                 | 21,200<br>44,937  | 4,500<br>8,701                    | 217,215<br>207,222 |
| 1936   | 9%                    | 5%               | 27%              |               | 14%              | 7%               | 2%              | 9%               | 1%                |              |                  |                 | 22%               | 4%                                | 100%               |
|        | R 106,545<br>P 16,475 | 26,640<br>3,525  | 69,390<br>33,755 | 11,500        | 85,210<br>31,735 | 32,800<br>11,449 | 8,560<br>4,833  | 29,200<br>10,625 | 9,450<br>18,815   |              |                  |                 | 151,230<br>70,060 | 28,310<br>19,013                  | 558,835<br>220,285 |
| 1937   | 7%                    | 2%               | 15%              |               | 14%              | 5%               | 2%              | 5%               | 9%                |              |                  |                 | 32%               | 9%                                | 100%               |
|        | R 81,200<br>P 5,521   | 21,115           | 31,355<br>19,024 | 10,000        | 68,290<br>33,504 | 32,953<br>5,621  | 23,150<br>2,206 | 14,900<br>18,246 | 47,235<br>52,521  | 300<br>3,617 | 11,426           |                 | 71,320<br>62,807  | 77,250<br>3,654                   | 479,698<br>218,147 |
| 1938   | 2%                    |                  | 9%               |               | 15%              | 3%               | 1%              | 8%               | 24%               | 2%           | 5%               |                 | 29%               | 2%                                | 100%               |
|        | R 90,756<br>P 9,030   | 21,115<br>2,423  | 12,331<br>20,495 |               | 49,235<br>9,702  | 27,332<br>11,497 | 20,944          | 6,756<br>4,577   | 116,815<br>68,642 | 10,970       | 41,690<br>66,730 | 26,30<br>22,297 | 66,400<br>49,075  | 89,797<br>26,332                  | 556,771<br>290,800 |
| 1939   | 3%                    | 1%               | 7%               |               | 3%               | 4%               |                 | 1%               | 24%               |              | 23%              | 8%              | 17%               | 9%                                | 100%               |
|        | R 83,841<br>P 19,220  | 19,220           | 31,785           |               | 44,728           | 20,373           |                 | 2,281            | 141,255           | 11,320       | 145,653          | 31,703          | 68,412            | 144,202                           | 744,773            |
| 1940   |                       |                  |                  |               |                  |                  |                 |                  |                   |              |                  |                 |                   |                                   |                    |
| 1941   |                       |                  |                  |               |                  |                  |                 |                  |                   |              |                  |                 |                   |                                   |                    |



## IDAHO MARYLAND MINES CORPORATION

## BRUNSWICK UNIT

\* STOPING AREA AND EXTRACTION BY VEINS FOR YEARS 1934 TO 1939 INC.

| VEIN  | AREA STOPED<br>SQ. FT. | % OF<br>TOTAL | STOPE TONS<br>ORE | % OF<br>TOTAL |         |
|-------|------------------------|---------------|-------------------|---------------|---------|
| 1     | 116,000                | 7.9           | 51,598            | 8.1           | wide    |
| 2 #   | 16,000                 | 1.1           | 5,277             | 0.8           | narrow  |
| 4     | 250,000                | 17.0          | 119,644           | 18.7          | w       |
| 5     | 1,000                  | 0.1           | 666               | 0.0           | n       |
| 6     | 158,000                | 10.7          | 67,173            | 10.5          | average |
| 7     | 65,000                 | 4.4           | 29,867            | 4.7           | w       |
| 10    | 32,000                 | 2.2           | 3,940             | 0.6           | n       |
| 12    | 70,000                 | 4.8           | 45,156            | 7.1           | w       |
| 16    | 235,000                | 16.0          | 80,819            | 12.6          | N       |
| 17    | 1,000                  | 0.1           | 6,479             | 1.0           | w       |
| 18    | 1,000                  | 0.1           | 896               | 0.0           | N       |
| 28    | 108,000                | 7.3           | 37,947            | 5.9           | N       |
| 30    | 16,000                 | 1.1           | 11,783            | 1.9           | w       |
| 32    | 400,000                | 27.2          | 180,077           | 28.1          | w       |
| TOTAL | 1,469,000              | 100.0         | 641,302           | 100.0         |         |

\* For Veins over 1,000 sq. ft.

# Includes 1000L-32D-68

actually wide  
but tonnage  
is low due to  
full shrinkage  
stopes

6/5/40 RMS

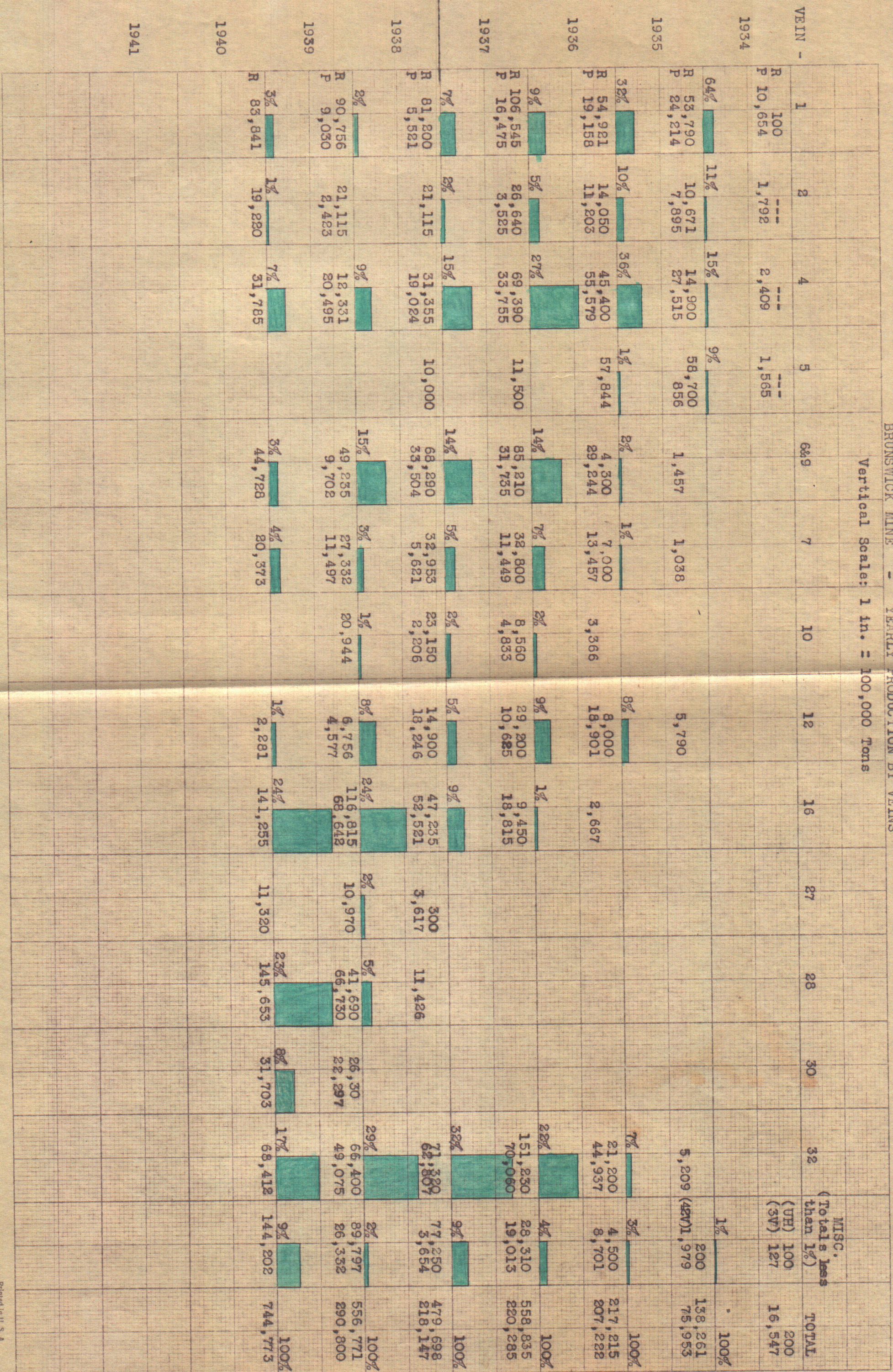


Reserve includes only ore available for stoping.

Reserve includes Assured, Probable and Possible Ore.

I. W. M. CORP.  
BRUNSWICK LINE - YEARLY PRODUCTION BY VEINS

Vertical Scale: 1 in. = 100,000 Tons



THE A. LIEZ CO., SAN FRANCISCO NO. 88-0

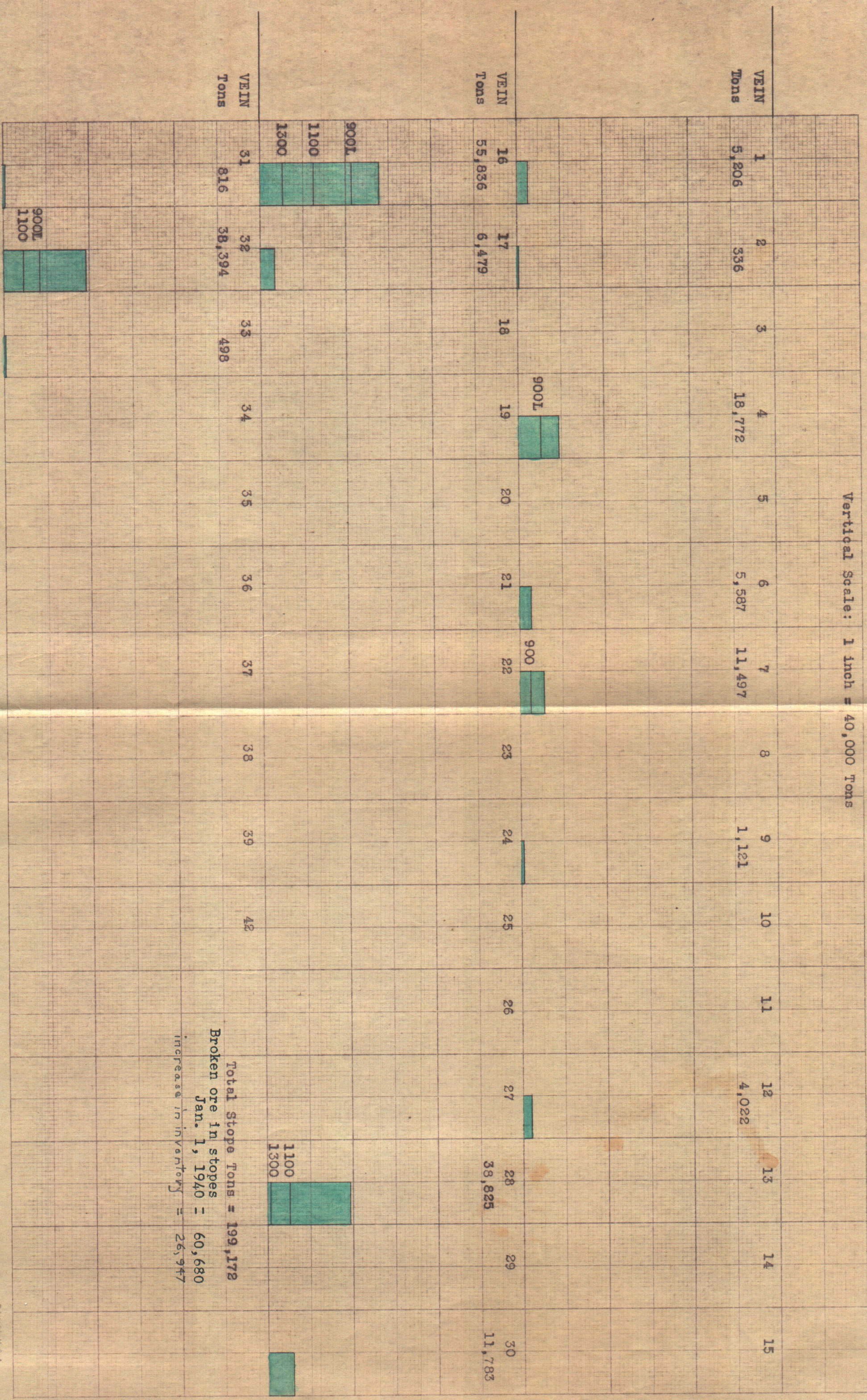
R - Ore Reserve on Jan. 1

P - Production for Year.



BRUNSWICK MINE - EXTRACTION BY VEINS - 1939

Vertical Scale: 1 inch = 40,000 Tons





1938

Idaho

Brunswick

| Tonnage                                   |              | Year       | Per Ton | Per Ton | Per Ton |
|-------------------------------------------|--------------|------------|---------|---------|---------|
| Produced from Development                 | 51189        | 67230      |         |         |         |
| " " Extraction                            | 82070        | 150917     |         |         |         |
| Total Mined                               | 113259       | 218147     |         |         |         |
| of gold recovered                         | (17988.7437) | 49279.1015 |         |         |         |
| per ton of ore                            | 0.6003       | .2259      |         |         |         |
| <hr/>                                     |              |            |         |         |         |
| Operating Income                          |              |            |         |         |         |
| Amalgamation Bullion                      | 183461470    | 107567254  | 4931    |         |         |
| Less Mint Charges                         | 724981       | 492113     | 623     |         |         |
| Net                                       | 182736489    | 107077131  | 4908    |         |         |
| Cyanide Bullion                           | 54330039     | 64132359   | 2940    |         |         |
| Less Mint Charges                         | 255753       | 290444     | 013     |         |         |
| Net                                       | 54074286     | 63841915   | 2927    |         |         |
| Total Mint Settlement from Bullion Sales. | 236810775    | 170919046  | 7835    |         |         |
| <hr/>                                     |              |            |         |         |         |
| Direct Operating Cost                     |              |            |         |         |         |
| Development                               | 3785889      | 36000102   | 5355    |         |         |
| Extraction                                | 40259788     | 35508276   | 2353    |         |         |
| Total Mining Cost                         | 78118757     | 71508378   | 3278    |         |         |
| Milling Cost per special statement        | 13779044     | 14560043   | 667     |         |         |
| Total Direct Operating Cost               | 91897801     | 86068421   | 3945    |         |         |
| <hr/>                                     |              |            |         |         |         |
| Direct Operating Profit                   | 144912974    | 84850625   | 3890    |         |         |
| Administrative or general (155% Br 45%)   | 11168800     | 8069337    | 370     |         |         |
| Insurance, Compensation                   | 1284800      | 630200     | 029     |         |         |
| Taxes & other insurance                   | 8898220      | 4163678    | 191     |         |         |
| Total Operating expense                   | 5989544      | 3923144    | 180     |         |         |
|                                           | 117219165    | 102854780  | 9715    |         |         |
| Net Operating Profit before Depreciation  | 10350        | 20.83      |         |         |         |
| Depreciation on plant                     | 119591610    | 68064266   | 3120    |         |         |
|                                           | 750000       | 1920000    | 088     |         |         |
| Profit before State & Fed. Taxes          | 112091610    | 66144266   | 3023    |         |         |
| <hr/>                                     |              |            |         |         |         |
| Capital Additions                         |              |            |         |         |         |
| Mine & Mill Bldgs & Construction          | 208839       | 481746     |         |         |         |
| " Machinery & Equip                       | 3439308      | 254558     |         |         |         |
| Total Capital Additions                   | 6517345      | 736304     |         |         |         |
| See sheet                                 |              |            |         |         |         |
| Value of Combined Property                | \$700,000    |            |         |         |         |

X. not included

iron 8334, 70 each shaft

Total 1666940 (should be 166)

5m Chg 556,90

5/aug 33179,87

5m Chg 90893

Mette 720928

5m Chg 23256

~~5m Chg 100106~~  
~~5m Chg 91112~~



Brunswick 16 Veir August 19, 1938

112,600