

Nye

(15)

- 4970 0048 -

ITEM
48

-----oo-----

TYBO MINING AND REDUCTION COMPANY
COPY OF ASSAY RECORD OF PRINCIPAL SAMPLES
AND AVERAGE VALUES OF CLASSES OF ORE, ETC.,

To JUNE 1st, 1903.

-----oo-----

TYBO MINING AND REDUCTION CO.
COPY OF ASSAY RECORD OF PRINCIPAL SAMPLES
AND AVERAGE VALUES OF CLASSES OF ORE, ETC.,
TO JUNE 1st, 1903.

In computing average assay values, the exceptionally high assays have been rejected.

SLAG DUMP.

The Slag Dump contains over 60000 tons of heavy basic slag. It was sampled by a system of large samples from over the surface and the various cuts and crosscut tunnel.

The Slag is classified into:

- (1) Clean Slag, estimated at 40,000 Tons;
- (2) Mixed Slag, matte and speiss, estimated over.... 20,000 tons;
- (3) Clean Matte of which there are several hundred tons.

CLEAN SLAG. Record of 32 samples.

Highest assay 4.5% pb; 8 Oz. Ag; .04 Oz. Au.

Lowest assay .3% pb; 1 oz. Ag;---- Oz. Au.

Average v.s. 1.7% pb; 3 Oz. ag; .025 oz. Au.

CRUDE CONCENTRATES obtained by hand jigging , averaged about 3% of concentrates, assay 31% pb; 72 oz. ag; .52 oz.au.

LEAD BULLION obtained by hand jigging , averaged about 1%, assaying 94% pb; 218 oz. ag; 1.46 oz.au.

MIXED SLAG, MATTE AND SPEISS. Record of 44 samples.

Highest assay 13% pb; 25 oz. ag; .18 oz.au.

Lowest assay 3.5% pb; 6 oz. ag; .05 oz. au.

Average v.s. --7% pb; 13 oz. ag; .12 oz. au.

CRUDE CONCENTRATES obtained by hand jigging, averaged about 10% of concentrates assay 46% pb; 99 oz. ag; .65 oz.au.

LEAD BULLION obtained by hand jigging , averaged about 5%, assaying 92% pb. 214 oz. ag; 1.26 oz.au.

CLEAN MATTE AND SPEISS. Record of 8 samples.

Highest assay 28% pb; 60 oz. ag; .50 oz.au.

Lowest assay 13% pb; 25 oz. ag; .30 oz. au.

Total of 84 samples from Slag Dump.

BUNKER HILL SHAFT.

Low Grade Iron and Manganese oxide fluxing ores.

Record of 14 Samples

Highest Assay 5% pb; 16 oz. ag; .10 oz. au.

Lowest assay 1% pb; 3 oz.ag.; .06 oz. au.

Average v.s. 25% pb; 8 oz. ag; .11 oz.au.

MAIN SHAFT: UPPER WORKINGS.

Low grade iron oxides pillars and stopefilling.

Record of 31 samples.

Highest assay 12% pb; 20 oz. ag; 13 oz. au.

Lowest assay 1% pb. 6 oz.ag; .06 oz. au.

Average v.s. 4.5% pb; 10 oz.ag; .10 oz.au.

Total of 45 samples from low grade oxidized fluxes.

MAIN SHAFT DUMP.

Sulphide ores hoisted by former operators.

These ores are classified into

- (1) Low grade silicious iron pyrites ores;
- (2) Silicious pyrites blends ores, estimated about 3000 tons;
- (3) Galena blonde ores, of which there are several hundred tons

The principal importance of these samples is in showing the value in different characters of sulphide ores.

In addition to the above there has been in the present operation about 4000 tons of concentrating ore hoisted to the dump, assaying including waste, about 10% pb; 20 oz.ag; .15 oz.au.

LOW GRADE SILICIOUS PYRITES ORES. Estimated 20% iron.

Record of 23 samples.

Highest assay 10% pb; 17 oz.ag; .16 oz.au.

Lowest assay ----- 4 oz.ag. .03 oz.au.

Average v.s. 4% pb; 9 oz.ag; .05 oz.au.

CONCENTRATES obtained by hand jiggling averaged about 8% assaying 38% pb; 78 oz.ag; .28 oz.au; 1.4% zn.

SILICIOUS PYRITES BLENDE ORES.

Record of 41 samples.

Highest assay 9% pb; 35 oz.ag; .20 oz.au; 18% zn.

Lowest assay 4% pb; 13 oz.ag; .06 oz.au; 8.4% zn.

Average v.s. 10% pb; 23 oz.ag; .10 oz.au; 11% zn

CONCENTRATES obtained by hand jigging, averaged about 20%

Highest assay 48% pb; 96 oz.ag; .30 oz. au. 2.3% zn.

Lowest assay 33% pb; 70 oz.ag; .43 oz.au. 3.6% zn.

Average 40% pb; 84 oz.ag; .32 oz.au. 2.7% zn.

GALENA BLENDE ORES.

Record of 30 samples.

Highest assay 32% pb; 56 oz.ag; .24 oz.au. 15.2% zn.

Lowest assay 10% pb; 36 oz.ag. 15.oz.au. 14.5% zn.

Average v.s. 18% pb; 40 oz. ag; .15 oz.au. 12% zn.

CONCENTRATES obtained by hand jigging average about 25% assaying
54% pb; 109 oz. ag; .43 oz. au. 2.7% zn.

Total of 94 samples from Main shaft dump.

2nd (230') Level.

This level as far as now opened is now in the transition zone between the upper carbonates and lower sulphides and is filled principally with secondary pyrites and low grade oxides.

2nd Level East. Turntable to No. 1 Winze winze east is 80'.

Part of "Carbonate" chimney.

Vein averages about 48" of low grade silicious oxides and pyrites
Record of 6 Samples (little variations).

Average 2.5% pb; 9 oz.ag. .10 oz.au.

No. 1 winze East. For first 40' below 2nd level the commercial ore is inaccessible in the foot wall.

| | | | | | | | | | |
|---|-----|-----------------|-----------|-----------------|-----|-------|-------|-----------|----------|
| 1 | 10' | below 2nd level | silicious | pyrites | 24" | assay | 2%pb | .5 oz.ag; | .09 ozAu |
| 2 | 20' | " | " | " | 48" | " | 1%pb | 7.5 " | .25 " |
| 3 | 30' | " | " | " | 84" | " | 1%pb | .5 oz.ag. | .10 " |
| 4 | 30' | " drift | 20' | west from | 36" | " | 7%pb | 12 oz." | .30 " |
| 5 | 40' | " 2nd | level | beginning stope | 60" | " | 12%pb | 26" | .16 " |
| 6 | 50' | " | " | in stope | 48" | " | 12%pb | 25 " | .11 " |

Proportionate average for 50' of winze 48"

Stope at bottom of winze; running west; roof averages about 25'
above floor of 3rd level.

| | | | | | %pb;oz.ag;Oz.au |
|----|--|-------|-----|----|-----------------|
| 7 | Stope bottom No.1 E. winze, pyrites and Gal.60" | assay | 12 | 26 | .16 |
| 8 | 10' W. of No. 1 " | " | 60" | 8 | .15 |
| 9 | 15' " | " | 60" | 10 | .20 |
| 10 | 20' " | " | 72" | 8 | .20 |
| 11 | 25' " | " | 60" | 12 | .24 |
| 12 | 30' " | " | 48" | 12 | .11 |
| 13 | 35' " | " | 30" | 7 | .09 |
| | Proportionate average for 35' roof stope , 9% zn.60" | " | 10 | 22 | .18 |

15 tons of ore from this stope were shipped to Kansas City, sampling
13%pb. 26 oz.ag. .24oz.au; 10%zn. 24%fe; 18% SiO₂.
CONCENTRATES obtained by hand jiggling. Record of 9 samples,
Average about 18% of concentrates, assay 37%pb. 54oz.ag;.41oz.au

Total of 20 samples from 2nd level East.

2nd. LEVEL WEST.

Turntable to No. 1 Winze West is 70'. Part of "Carbonate" Chimney.

| Sample | Location | Character | Width | %pb. | Oz.ag. | Oz.Au. |
|---------------------|--------------------------------|-----------|-------|------|--------|--------|
| 1-10'W.of Turntable | Oxides&pyr. | " | 18" | 14 | 30 | .13 |
| 2-30' | " | " | 30" | 9 | 16 | .08 |
| 3-35' | Raise 4' above roof | " | 12" | 11 | 14 | .30 |
| 4-35' | 10' | " | 30" | 5 | 6 | --- |
| 5-35' | 15' | " | 24" | 3 | 7 | .09 |
| 6-40' | 20' | " | 30" | 3 | 8 | .12 |
| 7-45' | W. of Turntable | " | 30" | 19 | 13 | .30 |
| 8-50' | " | " | 30" | 15 | 26 | .23 |
| 9-55' | " | " | 24" | 16 | 11 | .08 |
| 10-60' | " | " | 24" | 1 | 10 | ---- |
| 11-65' | " | " | 36" | 1 | 6 | ---- |
| | Proportionate average for 70'W | | 27" | 8 | 14 | .12 |

No. 1 Winze West. Sides of small stope.

| | | | | | | | |
|---|---------------------------------------|----------|---------|-----|----|----|-----|
| 1 | 6' below 2nd | 70' West | Oxides | 24" | 16 | 18 | .19 |
| 2 | 12' | 45' | Pyrites | 24" | 10 | 8 | .06 |
| 3 | 18' | 70' | " | 36" | 7 | 17 | .09 |
| 4 | 25' | 45' | " | 36" | 9 | 20 | .13 |
| 5 | 35' | 45' | " | 36" | 7 | 15 | .12 |
| 6 | 45' | 45' | " | 36 | 7 | 14 | .10 |
| 7 | 50' | 90' | " | 12" | 11 | 17 | .09 |
| 8 | 55' | 45' | " | 36" | 6 | 12 | .15 |
| | Proportionate average first 60' winze | | 32" | 9 | 15 | | .12 |

Total of 19 samples in Carbonate chimney, showing proportionate average
of 30" width assaying 8-1/2 pb. 14-1/2 oz.ag.; 12 oz.au.

2nd Level west 70' to 200' over pinch in 3rd level.

Record of 14 samples showing a little variations, length 130' second-
ary pyrites and oxides 30" 3%pb. 7 oz.ag.; .04 oz.au.

2nd level 200' to 350' W. Over No.1 West Chimney of 3rd level.

| | | | Width | %pb. | Oz.ag. | Oz.au. |
|----|------|--------------------------------------|-------|------|--------|--------|
| 1 | 200' | W. Turntable roof pyrites and quartz | 24" | 11 | 17 | .05 |
| 2 | 215' | " " " | " 24" | 6 | 20.5 | .08 |
| 3 | 225' | " " " | " 48" | 2 | 10. | Tr |
| 4 | 230' | " hanging Galena | 6" | 21 | 42 | .16 |
| 5 | 235' | " roof pyrites | 24" | 3.5 | 11 | .15 |
| 6 | 240' | " Floor | 12" | 2. | 8 | .09 |
| 7 | 245' | " Roof | 18" | 3. | 9 | .10 |
| 8 | 255' | " Floor | 18" | 7.5 | 21 | .13 |
| 9 | 260' | " Roof | 6" | 12. | 19 | .10 |
| 10 | 270' | Xcut South Ledge Matter | 72" | ---- | 2 | .04 |
| 11 | 290' | " Roof pyrites and Galena | 6" | 18 | 35 | .28 |
| 12 | 320' | " " " | 6" | 11 | 17 | .18 |
| 13 | 330' | " Floor pyrites | 18" | 8.5 | 18.5 | .12 |

Proportionate average for 120' ----- 18" - 8.5% - 17.----- .12

Record of 13 Samples.

2nd. level 350' to 400' West over Pinch in 3rd Level.

Vain carries carb. and Gal.

Streak 6" wide 13% pb; 30oz.ag; 12.oz.au.

2nd. Level 400' to 510' West No.2 West Chimney.

| | | | | |
|----|----------------------------|------------------------|-----------|-----------|
| 1 | 400' W. Turntable Gal.Pyr. | 10" wide 12%pb. | 60oz.ag. | .17 oz.au |
| 2 | 410' W. 15' High in Stope | Gal. & Pyr. 16" 9% Pb. | 41 oz.ag. | .27 " |
| 3 | 420' " 12' High in Stope | " 8" 14% " | 57 " | .23 |
| 4 | 430' " Floor | Gal. Carb. | 24" 5% | .40 |
| 5 | 440' " 20' in stope | pyr. & Gal. | 18" 12 | .21 |
| 6 | 445' " " " | " | 36" 3 | .08 |
| 7 | 450' " Floor | " Carb. | 18" 18 | .24 |
| 8 | 455' Winze Stope | " | 30" 10 | .21 |
| 9 | 465' " " " | " | 30" 7 | .20 |
| 10 | 470' " 20' high in stope | " Gal. | 8" 20 | .32 |
| 11 | 475' " 15' " " | " " | 18" 17 | .18 |
| 12 | 480' roof level | " " | 24" 7.5 | .13 |
| 13 | 485' " Floor | " " | 24" 3 | .04 |
| 14 | 490' " " " | " " | 24" 4 | .06 |
| 15 | 500' " " " | " " | 24" 4 | .16 |
| 16 | 510' " " " | " " | 24" 5 | .12 |

Proportionate average for 110' is 24" ----- 9 ----- 25 ----- .20

No.2 West Winze 460' West.

| Sample | Location | Character | Width | %pb. | Oz.ag | Oz.au. |
|--------|--------------------|-------------|-------|------|-------|--------|
| 1 | 5' Below 2nd level | Pyr. & Gal. | 30" | 16 | 29 | .24 |
| 2 | 10' " " " | " " | 30" | 10 | 19 | .10 |
| 3 | 15' " " " | " " | 40" | 16 | 33 | .12 |
| 4 | 20' " " " | " " | 30" | 11 | 23 | .14 |
| 5 | 25' " " " | " " | 30" | 12 | 29 | .22 |
| 6 | 30' " " " | " " | 36" | 2 | 16 | .20 |
| 7 | 35' " " " | " " | 24" | 12 | 32 | .23 |
| 8 | 40' " " " | " " | 24" | 11 | 22 | .16 |
| 9 | 45' " " " | " " | 36" | 13 | 26 | .26 |

Proportionate average 45' of winze ----- 32" ----- 11 ----- 26 ----- .20

Below 45' vein is inaccessible in foot wall of winze.

Record of 25 samples from No. 2 West show proportionate average of

6.2 zn. 27" wide 10%pb.; 25 oz.ag; .20 oz.au.

CONCENTRATES obtained by hand jiggling averaged about 15%
Highest 58% pb. 135 Oz.ag; .87 oz.au.
Average 49% pb. 118 oz.ag; .65 oz.au.

2nd Level 510' West to 570' West. Vein Pinched.

Record of 6 samples shows 18" pyrites 7% pb; 12 oz. ag; .10 oz. au.

2nd Level West of 570' to No. 3 West Winze.

Vein is broken and out of the level until within 50' of No. 3 W. Winze, which is in "Junction" chimney, on the South Vein.

The Crosby vein about 100' East of Winze No. 3 W. Winze parts from the South vein and level, showing 80' East=6"=12%; 41 oz; .16 oz. au.

"Junction" Chimney in 2nd Level.

| Sample Location | Character | Width | % pb; oz.ag; | oz.au. |
|-------------------------------|-----------------------|-----------|--------------|--------|
| 1 At Crosby Crosscut. | 80' E. of #3 winze | 48"-Sulp. | 18% | .14 |
| 2 " | 60' 1st class | 45"-Gal. | 38% | .26 |
| 3 " | 60' quartz; oxide ft. | 48" | 6 | .10 |
| 4 50' East No. 3 | quartz; oxide | 48" | 13% | .26 |
| 5 30' | | 48" | 8% | .10 |
| 6 20' | | 48" | 11% | .17 |
| 7 15' | quartz, oxide, gal. | 54" | 12% | .15 |
| 8 10' | oxide, suf. | 60" | 5% | .11 |
| 9 At No. 3 | " " | 48" | 5% | .06 |
| Proportionate average for 90' | | 54" | 11% | .14 |

Stopes Above 2nd.

| | | | | | | |
|---------|--------------------------|-----|-----------------|-----|-------|------|
| 10 | 50' above 2nd, top raise | ox. | Quartz | 12" | 14.5% | 8.5 |
| 11 | 45' | " | " | 24" | 20.5% | 12.5 |
| 12 | 40' | " | " | 24" | 12.5% | 10.5 |
| 13 | 35' | " | " | 15" | 5.5% | 9 |
| 14 | 30' | " | " | 48" | 2 | 10 |
| 15 | 25' | " | " | 48" | 3 | 4.5 |
| 16 | 25' | " | 20' E. of raise | 48" | 8 | 12.5 |
| 17 | 20' | " | 30' " | 24" | 20.5% | 12 |
| 18 | 18' | " | 43' " | 48" | 1.5% | 20 |
| 19 | 10' | " | West side raise | 60" | 4 | 17 |
| Average | | | | 36" | 8 % | .06 |

No. 3 Winze.

| | | | | | | |
|----|-----------------------------------|---|---|----------|---------|------|
| 1 | 5' below W. Side | | | 60" | 5.5% | 6 |
| 2 | 10' " | " | " | 24" | 15 | 21 |
| 3 | 15' | " | " | 60" | 20 1/2% | 22.5 |
| 4 | 20' | " | " | 48" | 40% | .06 |
| 5 | 25' | " | " | 54" | 19% | .10 |
| 6 | 30' | " | " | 48" | 31 | .10 |
| 7 | 30' below 2nd level E. Side Carb. | | | 48" | 7 | .10 |
| 8 | 35' | " | " | 60" | 14% | .16 |
| 9 | 40' | " | " | 36" | 18% | .12 |
| 10 | 40' | " | " | 60" | 7 | .12 |
| 11 | 45' | " | " | Pyr.Gal. | 20% | .15 |
| 12 | 50' | " | " | " " | 11% | .12 |
| 13 | 55' | " | " | 60" | 22% | .12 |
| 14 | 60' | " | " | 60" | 15% | .10 |
| 15 | 65' | " | " | 48" | 9% | .10 |
| 16 | 70' | " | " | 48" | 9% | .12 |
| 17 | 75' | " | " | 48" | 28% | .16 |

Proportionate average for 75' Winze of 60"

(6) Width 15% 24 .10

In addition low grade oxide 12"-60" 6% pb; 10 oz. ag; .12 oz. au.

Total of 36 samples in Junction Chimney.

2nd Level West. "Crosby Chimney".

| | <u>Sample Location</u> | <u>Character</u> |
|----|---------------------------------------|------------------|
| 1 | 40' E. of shaft (at crosscut) Pyrites | " |
| 2 | 30' " " " | " |
| 3 | 20' " " " | " |
| 4 | 10' " " " | " |
| 5 | Bottom winze 4' below 2nd | " |
| 6 | 5' W. of shaft | " |
| 7 | 15' W. " " | " |
| 8 | 20' " " " | " |
| 9 | 25' " " " | " |
| 10 | 30' " " " | " |
| 11 | 35' " " " | " |
| 12 | 40' " " " | " |
| 13 | 45' " " " | " |
| 14 | 50' " " " old face | " |

Proportionate averages for 90°

Crosby drift.

| <u>Width</u> | <u>% pb;</u> | <u>oz.ag;</u> | <u>oz.au.</u> |
|--------------|--------------|---------------|---------------|
| 40" | 4 | 16 | .08 |
| 24" | 2.5 | 9 | .10 |
| 24" | 9 | 17 | .08 |
| 24" | 16 | 14 | .06 |
| 42" | 21 | 42 | .08 |
| 48" | 7 | 12 | .10 |
| 60" | 18 | 21 | .10 |
| 36" | 8 | 16 | .14 |
| 72" | 6 | 20 | .16 |
| 60" | 7 | 12 | .12 |
| 60" | 18 | 16 | .15 |
| 48" | 8 | 13 | .12 |
| 60" | 3.5 | 15 | .10 |
| 36" | 10 | 16 | .13 |
| 48" | 10 | 18 | .11 |

Sample Location

10' E of Crosby Shaft roof pyrites

20° E of " " "

Crosby Shaft

| | | oxide | 21" | 3.5% | 62 | .10 |
|----|--------------------------------------|-------|-----|------|------|-----|
| 1 | 120' above 2nd | " | 12" | 1 | 21 | .08 |
| 2 | 110' " " | " | 6" | 8 | 33 | .12 |
| 3 | 100' " " | " | 20" | 9 | 21 | .14 |
| 4 | Crosby shaft 95' above level Pyrites | " | 15" | 7.5 | 35 | .15 |
| 5 | 90' above 2nd | " | 20" | 14 | 22 | .08 |
| 6 | Crosby shaft 85' | " | 15" | 4 | 13 | .13 |
| 7 | 80' above 2nd | " | 24" | 2 | 6 | .03 |
| 8 | Crosby shaft 75' | " | 36" | 5 | 9.5 | .10 |
| 9 | 70' above 2nd | " | 30" | 4.5 | 12 | .08 |
| 10 | 60' " " | " | 24" | 12 | 16 | .16 |
| 11 | Crosby shaft 55' | " | 27" | 9 | 25.5 | .06 |
| 12 | 50' above 2nd | " | 26" | 7 | 17 | .13 |
| 13 | Crosby shaft 45' | " | 36" | 8.5 | 25 | .10 |
| 14 | 40' above 2nd | " | 26" | 4 | 9 | .10 |
| 15 | Crosby shaft 35' | " | 48" | 16 | 49 | .12 |
| 16 | 30' above 2nd | " | 26" | 4 | 8 | .06 |
| 17 | Crosby shaft 25' | " | 36" | 6 | 33 | .10 |
| 18 | 20' above 2nd | " | 36" | 8 | 14 | .09 |
| 19 | Crosby shaft 15' | " | 72" | 6.5 | 25 | .08 |
| 20 | Roof above 2nd | " | | | | |

Proportionate average 120' Crosby Shaft 27" 7 24 .10
 Pytires for 100' 30" 7.5 21 .10
 Record of 34 samples from Shaft and
 roof level show average pyrites 36" 7 14 .10

3rd (310') LEVEL EAST.

3rd Level East. Turntable to No. 1 E. Winze 20'. Part of "Carbonated" Chimney

| Sample Location | Character | Width | % pb; oz.ag; | oz.au. |
|---|-------------------|-------|--------------|--------|
| 1 5' East foot | Gal. & Pyr. | 36" | 14 | .20 |
| 5' " hang | silicious pyrites | 24" | 4 | .12 |
| 2 10' " foot | gal. & Pyr. | 30" | 17 | .23 |
| 10' " hang | silicious pyrites | 42" | 3.5 | .13 |
| 3 15' " foot | gal. & Pyr. | 36" | 16 | .27 |
| 15' " hang | pyrites | 24" | 4 | .18 |
| 4 20' " foot | gal. & Pyr. | 30" | 7 | .18 |
| 20' " foot | pyrites | 42" | 4 | .10 |
| 5 No. 1 E Winze 5' down | foot, gal. & pyr. | 30" | 14 | .22 |
| No. 1 E " " " hang | pyrites | 42" | 2 | .06 |
| Record of 10 samples average | | 66" | 10 | .18 |
| CONCENTRATES obtained by hand jigging average 25% | | | 31 | .36 |
| Record of 12 other samples first class ore average | | | 12 | .23 |

3rd Level 20' to 100' East 80'. Carbonate Pillar in roof.

| | | | | |
|------------------|---------------|-----|-----|-----|
| 6 30' East floor | Carb. & Oxide | 66" | 6 | .16 |
| 7 40' " " | " " | 30" | 1.5 | .22 |
| 8 50' " " | " " | 12" | 20 | .22 |
| 9 60' " roof | " " | 30" | 3.5 | .30 |
| 10 70' " " | " " | 18" | 20 | .17 |
| 11 80' " " | " " | 48" | 4 | .40 |
| 12 90' " floor | " " | 38" | 18 | .18 |
| 13 105' " " | " " | 24" | 2 | .38 |

| | | | | |
|--|--|-----|---|-----|
| Record of 8 samples proportionate average | | 36" | 9 | .26 |
|--|--|-----|---|-----|

3rd Level 100' - 220' East 120'.

| | | | | |
|----------------------------|------------------|-----|------|-----|
| 14 110' East floor | Gal.pyr.& Carb. | 48" | 7 | .07 |
| 15 115' " " | " " | 30" | 10.5 | .40 |
| 16 120' " " | " " | 36" | 13 | .22 |
| 17 125' " " | " " | 30" | 18 | .40 |
| 18 130' " " | " " | 24" | 10 | .30 |
| 19 135' " " | " " | 30" | 21 | .36 |
| 20 140' " " | " " | 30" | 16 | .23 |
| 21 145' " " | " " | 36" | 14 | .40 |
| 22 150' " " | " " | 24" | 10 | .16 |
| 23 155' " " | " " | 24" | 26 | .28 |
| 24 160' " " | " " | 30" | 31 | .21 |
| 25 165' " " | " " | 20" | 15 | .26 |
| 26 170' " " | " " | 24" | 8 | .17 |
| 27 175' " " | " " | 18" | 17 | .24 |
| 28 180' " " | " " | 24" | 21 | .27 |
| 29 185' " No. 2 East Winze | " " | 36" | 6 | .24 |
| 30 No. 2 E Winze 5' down | | 36" | 11 | .21 |
| 31 No. 2 " " 10' " | | 36" | 7 | .16 |
| 32 190' East floor | gal.pyr. & Carb. | 24" | 30 | .32 |
| 33 195' " " | " " | 24" | 19 | .20 |
| 34 200' " " | " " | 24" | 14 | .18 |
| 35 205' " " | " " | 30" | 34 | .16 |
| 36 210' " " | " " | 30" | 21 | .19 |
| 37 215' " " | " " | 36" | 11 | .17 |
| 38 220' " " | " " | 36" | 8 | .34 |

| | | | | |
|---|--|-----|----|-----|
| Record of 25 samples Proportionate average (g) | | 30" | 16 | .26 |
|---|--|-----|----|-----|

zn
8.2%

100' - 220' East 12"-24" pyrites on hanging.

Record of 8 samples averaged 4% pb; 11oz. ag; .10 oz. au;
average of vein for 120' 48" 12% pb; 25 oz. ag; .21 oz. au.

Six tons first class shipped from No. 2 East Winze settled at
22% pb; 43 oz. ag; .23 oz. au; 11% Zn; 14% SiO₂; 20% Fe.

At 223' East vein is cut off by cross fault.

At 270' East level again strikes vein.

2nd Level East 270' - 370' East 100'.

| Sample | Location | Character | Width | % pb; | oz.ag; | oz.au |
|--------|----------------|-----------|-------|-------|--------|-------|
| 1 | 270' East roof | pyrites | 36" | 11 | 25 | .20 |
| 2 | " " | " | 50" | 7 | 13 | .24 |
| 3 | 280' | silicious | 36" | 2 | 6 | .12 |
| 4 | 285' | " | 28" | 9 | 19 | .15 |
| 5 | 290' | " | 54" | 2 | 5 | .10 |
| 6 | 295' | " | 48" | 7 | 16 | .12 |
| 7 | 305' | floor | 36" | 5 | 12 | .10 |
| 8 | 310' roof | " | 26" | 3 | 9 | .10 |
| 9 | 315' | " | 30" | 1 | 5 | .09 |
| 10 | 320' | " | 24" | 4 | 12 | .11 |
| 11 | 325' | " | 36" | 7 | 18 | .19 |
| 12 | 330' | " | 42" | 4 | 12 | .12 |
| 13 | 335' | " | 30" | 2 | 6 | .08 |
| 14 | 340' | " | 40" | 9 | 18 | .17 |
| 15 | 345' | " | 24" | 6 | 12 | .14 |
| 16 | 355' floor | " | 48" | 6 | 14 | .17 |
| 17 | 360' | " | 60" | 4 | 9 | .12 |
| 18 | 365' | " | 48" | 11 | 14 | .17 |

Record of 18 samples average

48" 7 13 .12

Note. Oldoerp's Kansas City assay

30" 10 14 .10

3rd Level East 370' - 420' 50'.

| | | | | | | |
|----|---------------------|-----------------|-----|----|----|-----|
| 19 | 370' East floor | gal. pyr. & Ox. | 48" | 10 | 17 | .16 |
| 20 | 375' " | " | 48" | 7 | 16 | .12 |
| 21 | 380' | " | 42" | 10 | 21 | .17 |
| 22 | 385' | " | 30" | 20 | 32 | .15 |
| 23 | 390' | " | 48" | 9 | 22 | .14 |
| 24 | 395' " No. 3 Winze | " | " | 19 | 35 | .15 |
| 25 | 5' down No. 3 Winze | " | 50" | 23 | 41 | .21 |
| 26 | 10' " " | " | 36" | 15 | 43 | .26 |
| 27 | 400' East | " | 30" | 12 | 28 | .21 |
| 28 | 405' | " | 18" | 7 | 27 | .24 |
| 29 | 410' | " | 40" | 9 | 18 | .10 |
| 30 | 415' | " | 36" | 13 | 27 | .18 |

Record of 12 samples average

36" 13 27 .16

8% zn

Six tons shipped from No. 3 East Winze settled at

16% pb; 28 oz. ag; .22 oz. au; 10% zn; 18% fe; 28% SiO₂.

3rd Level East 420' to 550' 130' Pinch; au. not assayed.

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb;</u> | <u>oz.ag;</u> | <u>oz.au.</u> |
|------------------------------|------------------------|------------------|--------------|--------------|---------------|---------------|
| 1 | 425' East floor | pyrites | 24" | 7 | 16 | |
| 2 | 440' " roof | " | 24" | 2 | 7.5 | |
| 3 | 450' " " | " | 30" | 11 | 17.5 | |
| 4 | 460' " " | " | 20" | 7 | 17 | |
| 5 | 470' " " | " | 24" | 3 | 7.5 | |
| 6 | 480' " " | " | 15" | 3 | 13 | |
| 7 | 495' " " | " | 24" | 2 | 14 | |
| 8 | 510' " " | carbonate | 15" | 7 | 23 | |
| 9 | 520' " " | " | 20" | 3 | 8 | |
| 10 | 530' " " | " | 24" | 10 | 14 | |
| 11 | 540' " " | " | 24" | 6 | 8 | |
| Record of 11 samples average | | | 24" | 6 | 13 | .12 |

3rd Level 550' - 675' East "Central" Chimney.

Principally secondary pyrites & oxide. Vein is inaccessible in wall from 550' - 580'.

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb;</u> | <u>oz.ag;</u> | <u>Oz.au.</u> |
|------------------------------------|------------------------|------------------|--------------|--------------|---------------|---------------|
| 1 | 580' E floor hanging | pyrites | 30" | tr. | 6 | not assayed |
| 2 | 585' " " | galena | 24" | 34 | 65 | |
| 3 | 590' " " | oxide | 48" | 3 | 10 | |
| 4 | 595' " " | " | 72" | 2 | 9 | |
| 5 | 600' " roof | " | 60" | 3 | 13 | |
| 6 | 605' " " | " | 48" | 5 | 8 | |
| 7 | 610' " " | " | 48" | 3 | 9 | |
| 8 | 615' " " | " | 40" | 1 | 4 | |
| 9 | 620' " " | " | 36" | 3 | 8 | |
| 10 | 625' " " | " | 18" | tr. | 5 | |
| 11 | 630' " " | " | 20" | 1.5 | 12 | |
| 12 | 635' " " | " | 18" | 1.5 | 17 | |
| 13 | 640' " " | " | 16" | 12 | 27 | |
| 14 | 645' " " | " | 30" | 12 | 22 | |
| 15 | 650' " " | " | 24" | 6 | 10 | |
| 16 | 655' " floor | " | 36" | 1 | 6 | |
| 17 | 660' " " | " | 24" | 10 | 19 | |
| 18 | 665' " " | " | 36" | 5 | 8 | |
| 19 | 670' " " | " | 40" | 1 | 7 | |
| 20 | 675' " roof | " | 36" | 2 | 7 | |
| Record of 20 samples average | | | 36" | 5 | 12 | .08 |
| 550' to 675' assumed average floor | | | 36" | 10 | 20 | .10 |

3rd Level 685' to 750' East Pinch 75' Vein 15" 1% pb; 4oz.ag; tr.au. Record of 15 samples.

3rd Level 750' E to 875' E 125' Pinch. Vein calc spar, 20% S162, 4% Fe. Record of 60 samples average 24" 3% pb; 7-1/2 oz.ag; 12 oz.au.

3rd Level 875' - 950' 75' in Virginia ground.

Record of 33 samples average 24" 5-1/2% pb; 12 oz. ag; .13 oz.au.

Total record of 220 samples from 3rd Level East.

3rd LEVEL WEST.

Turnable to No. 1 West Winze 20'. Part of "Carbonate" Chimney.

| Sample Location | Character | Width | % pb; | oz.ag; | oz.au. |
|------------------------|-----------------|-------|-------|--------|--------|
| 1 5' W of turntable | Hanging pyr. | 24" | 9 | 16 | .12 |
| 5' " " | foot galena | 24" | 22 | 40 | .21 |
| 2 10' " " | hanging pyr. | 24" | 5 | 10 | .06 |
| 10' " " | foot galena | 36" | 18 | 32 | .23 |
| 3 15' " " | hanging pyr. | 24" | 7 | 15 | .09 |
| 15' " " | foot galena | 27" | 36 | 56 | .27 |
| 4 20' " No. 1 W. Winze | hanging pyr. | 24" | 3 | 9 | .12 |
| 20' " " " " | foot galena | 36" | 10 | 30 | .22 |
| 5 5' down No.1 West " | hanging ox.pyr. | 48" | 11 | 19 | .13 |
| 5' " " " " | foot galena | 24" | 15 | 45 | .26 |
| 6 10' " " " " | hanging pyr. | 24" | 9 | 20 | .15 |
| 10' " " " " | foot galena | 36" | 22 | 43 | .31 |
| 7 15' " " " " | foot pyrites | 30" | 17 | 26 | .14 |
| 15' " " " " | center galena | 20" | 31 | 56 | .22 |
| 8 20' " " " " | foot pyrites | 24" | 8 | 11 | .06 |
| 20' " " " " | center galena | 24" | 33 | 45 | .38 |
| 9 50' " " " " | hanging galena | 30" | 20 | 42 | .24 |
| 50' " " " " | foot pyrites | 36" | 8 | 11 | .08 |

Record of 18 samples average ore 60" 16 29 .18
11%zn

CONCENTRATES produced from hand jiggling averaged about 20% assaying about 60% pb; 102 oz. ag; .48 oz. au.

About 10 tons first class ore shipped from No.1 W. Winze settled at 20.5% pb; 41 oz. ag; .255 oz. au; 12% zn; 18% Fe; 18.5% SiO₂.

3rd Level West.

No. 1 Winze 20' to 135' West, 115'. Part of "Carbonate" Chimney.

| Sample Location | Character | Width | % pb; | oz. ag; | oz.au. |
|------------------------|----------------|-------|-------|---------|--------|
| 1 25' W of Turn. floor | hang.pyr.& ox. | 24" | 3 | 5 | tr. |
| 25' " " " | foot gal. etc. | 36" | 16 | 34 | .16 |
| 2 30' " " " | vein gal. | 30" | 17 | 44 | .36 |
| 3 35' " " " | roof | 12" | 14 | 32 | .12 |
| 4 40' " " " | floor | 30" | 16 | 47.5 | .10 |
| 5 45' " " " | roof | 30" | 11 | 25 | .24 |
| 6 50' " " " | floor | 36" | 6 | 23 | .08 |
| 7 55' " " " | roof | 24" | 9 | 24 | .23 |
| 8 60' " " " | floor | 30" | 6 | 16 | .22 |
| 9 65' " " " | roof | 27" | 14 | 30 | .09 |
| 10 70' " " " | floor | 30" | 23 | 51 | .20 |
| 11 75' " " " | roof stope | 18" | 26 | 48 | .23 |
| 12 80' " " " | floor | 30" | 13 | 45 | .20 |
| 13 85' " " " | roof stope | 42" | 14 | 27 | .16 |
| 14 90' " " " | floor pyr. | 24" | 4 | 7 | .12 |
| 15 95' " " " | roof stope | 18" | 21 | 37 | .26 |
| 16 100' " " " | floor | 30" | 14 | 28 | .16 |
| 17 105' " " " | roof pyr. | 48" | 2 | 6 | .10 |
| 18 110' " " " | floor | 12" | 18 | 42 | .10 |
| 19 115' " " " | " | 24" | 15 | 19 | .20 |
| 20 120' " " " | " | 24" | 18 | 24 | .25 |

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb;</u> | <u>oz. ag;</u> | <u>oz.au</u> |
|----|------------------------------|------------------|--------------|--------------|----------------|-----------------|
| 21 | 135' W of Turn. floor | Galena etc. | 24" | 9 | 10 | .12 |
| | Record of 22 samples average | | 30" | 15 | 30 | .17 7.1/2zn. |

3rd Level West 135' - 250' West 115'. Pinch. Ore bumpy.

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb;</u> | <u>oz.ag;</u> | <u>oz.au</u> |
|---|------------------------|------------------|--------------|--------------|---------------|--------------|
| 1 | 140' West | galena | 8" | 17 | 35 | .28 |
| 2 | 150' " | pyr. | 18" | 11 | 21 | .19 |
| 3 | 160' " | " | 26" | 20 | 40 | .13 |
| 4 | 170' " | " | 27" | 13 | 22 | .16 |
| 5 | 180' " | " | 15" | 11 | 17 | .15 |
| 6 | 195' " | " | 20" | 6 | 8 | .08 |
| 7 | 215' " | " | 18" | 22 | 35 | .24 |
| 8 | 230' " | " | 18" | 30 | 45 | .23 |
| 9 | 240' " | " | 18" | 10 | 18 | .15 |

Record of 9 samples average 18" 14 25 .15

Estimated that 80' length carries above average.

3rd Level 250' - 360' West 110'. "No. 1 West" Chimney. Timbered roof.

Small stope and cave averaging about 10' above roof level. Spotted.

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb;</u> | <u>oz.ag;</u> | <u>oz.au</u> |
|----|------------------------|------------------|--------------|--------------|---------------|--------------|
| 1 | 250' West floor | gal. & pyr. | 30" | 19 | 23 | .15 |
| 2 | 255' " | " | 36" | 9 | 17 | .12 |
| 3 | 260' " | " | 48" | 12 | 23 | .16 |
| 4 | 260' " | " | 36" | 7 | 27 | .12 |
| 5 | 270' " | " | 24" | 24 | 36 | .20 |
| 6 | 275' " | " | 30" | 7 | 18 | .09 |
| 7 | 280' " | " | 18" | 22 | 40 | .21 |
| 8 | 285' " | " | 24" | 12 | 25 | .14 |
| 9 | 290' " | " | 36" | 14 | 26 | .14 |
| 10 | 295' " | " | 30" | 12 | 21 | .12 |
| 11 | 300' " | clay | 36" | 10 | 26 | .18 |
| 12 | 305' " | " | 36" | 3 | 10 | .16 |
| 13 | 310' " | " | 48" | 2 | 12 | .04 |
| 14 | 315' " | " | 40" | 3 | 12 | .08 |
| 15 | 320' " | ledge matter | 60" | 2 | 12 | .06 |
| 16 | 325' " | pyrites | 60" | 4 | 14 | .10 |
| 17 | 330' " | " & gal. | 24" | 11 | 27 | .12 |
| 18 | 335' " | " | 24" | 19 | 44 | .20 |
| 19 | 340' " | " | 30" | 9 | 18 | .08 |
| 20 | 345' " | No. 2 West Winze | 20" | 6 | 22 | .12 |
| 21 | 350' " | pyr. & gal. | 20" | 24 | 46 | .14 |
| 22 | 355' " | " | 30" | 15 | 27 | .12 |
| 23 | 360' " | " | 30" | 8 | 30 | .10 |

Record of 23 samples proportionate average 30" 12 22 .12 (8.2 1/2)

| | | | | | | |
|---|-----------------------|-----------|-----|----|----|-----|
| 1 | No. 2 W Winze 4' down | gal. pyr. | 36" | 12 | 24 | .18 |
| 2 | No. 2 " 10' " | " " | 38" | 5 | 20 | .16 |
| 3 | No. 2 " 15' " | " " | 36" | 9 | 16 | .13 |

Proportionate average for 20' 36" 8 16 .13

CONCENTRATES obtained by hand jiggling about 20% assaying

45% pb; 86 oz. ag; .32 oz. au.

About 10 tons shipped from this chimney and No. 2 Winze settled at
 17% pb; 36 oz.ag; .195 oz.au; 11% zn; 21% Fe; 20% SiO₂.

3rd Level 360' - 430' West 70' Pinch. Fault at 430' West. Bunchy.

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb; oz.ag; oz.au</u> |
|-----------------------------|------------------------|------------------|--------------|---------------------------|
| 1 | 365' West floor | Galena etc. | 9" | 27 57 .06 |
| 2 | 375' " " | " " | 9" | 31 55 .13 |
| 3 | 385' " " | " " | 6" | 23 42 .40 |
| 4 | 395' " " | " " | 15" | 25 52 .36 |
| 5 | 405' " " | pyrites " | 36" | 10 12 .32 |
| 6 | 420' " slope | oxide " | 24" | 8 12 .10 |
| 7 | 425' " " | " " | 12" | 12 10 .32 |
| Record of 7 samples average | | | 12" | 18 31 .26 |

3rd Level 430' - 510' - 80' West. No. 2 Chimney. Vein out of level.

Exposed by 2 crosscuts.

| | | | | |
|-----------------------------|-----------------------|-------------|-----|-----------|
| 1 | 450' West in crosscut | pyr. & gal. | 37" | 9 35 .26 |
| 2 | 500' " " No. 2 raise | pyr. & gal. | 18" | 14 32 .30 |
| Record of 6 samples average | | | 24" | 11 33 .28 |

3rd Level 510' to 635' West 125'. Low grade silicious pyrites.

| | | | | |
|------------------------------------|--|--|-----|-----------|
| Record of 14 samples shows pyrites | | | 36" | 2.5 8 .08 |
|------------------------------------|--|--|-----|-----------|

3rd Level 635' - 775' West on south drift 140'. "Junction" Chimney.

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb; oz.ag; oz.au</u> |
|------|------------------------------|---------------------------|--------------|---------------------------|
| 1 | 635' West roof | pyr. & gal. | 24" | 11 35 .19 |
| 2 | 640' " crosscut | hang & foot pyr. | 60" | 1 10 .06 |
| 3 | 640' " " | center gal. | 18" | 30 66 .08 |
| 4 | 645' " roof | pyrites & gal. | 60" | 7 21 .19 |
| 5 | 650' " " | " " | 60" | 7 10 .10 |
| 6 | 655' " " | " " | 48" | 6 14 .14 |
| 7 | 660' " floor | " " | 36" | 11 18 .12 |
| 8 | 665' " roof | " oxide | 24" | 8 33 .26 |
| 9 | 670' " floor | " " | 36" | 5 17 .13 |
| 10 | 680' " roof | quartz pyrites | 42" | 5 8 .10 |
| (11) | (692' " crosscut | hanging " | 24" | 18 26 .08 |
| 12 | (692' " " | center quartz | 48" | 1 7 .08 |
| 13 | (692' " " foot gal and carb. | " | 36" | 18 33 .10 |
| 14 | 700' " roof | hang quartz etc. | 60" | 2 5 .10 |
| 15 | 700' " " | foot gal.etc. | 12" | 32 68 .12 |
| 16 | 710' " " | hang quartz gal. | 50" | 9 15 .08 |
| 17 | 710' " Crosscut | Foot gal. etc. | 24" | 10 37 .14 |
| 18 | 715' " " | hanging gal etc. | 54" | 18 35 .13 |
| 19 | 720' " " | hanging gal.pyr. & quartz | 84" | 10 16 .12 |
| 20 | 725' " " | " " | 60" | 5 9 .06 |
| 21 | 730' " " | " " | 72" | 12 20 .19 |
| 22 | 735' " " | " " | 52" | 7 11 .16 |
| 23 | 740' " " | " " | 60" | 8 22 .20 |
| 24 | 745' " " | " " | 36" | 13 66 .19 |
| 25 | 750' " " | " " | 36" | 18 30 .16 |
| 26 | 755' " " | " " | 48" | 13 24 .16 |

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb;</u> | <u>oz.ag;</u> | <u>oz.au</u> |
|----|------------------------|------------------|--------------|--------------|---------------|--------------|
| 22 | 760' West roof | pyrites | 60" | 8 | 18 | .13 |
| 23 | 765' " | " | 48" | 11 | 24 | .08 |
| 24 | 770' " | " | 60" | 11 | 24 | .16 |
| 25 | 775' " | " | 48" | 9 | 21 | .12 |

Record of 42 samples while driving level show average.

Resampling 15 samples show average

Galena in streaks and bunches in quartz and pyrites.

6 tons of galena shipped from this chimney settled at

32% pb; 58 oz. ag; .125 oz. au; 7% zn; 14% fe; 21% SiO₂.

3rd Level West 775' to 825' on South drift 50' Pinch.

Record of 15 samples show 12" ore 16% pb; 30 oz.ag; .20 oz. au.

No. 3 West Winze 770' West.

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb;</u> | <u>oz.ag;</u> | <u>oz.au</u> |
|----|------------------------|------------------|--------------|--------------|---------------|--------------|
| | Floor of level | pyr. & gal. | 60" | 11 | 24 | .16 |
| 1 | 8' down winze | " | 40" | 8 | 18 | .10 |
| 2 | 12' | " | 60" | 22 | 5 | .06 |
| 3 | 14' | " | 12" | 6 | 12 | .10 |
| 4 | 18' | " | 12" | 5 | 10 | .12 |
| 5 | 21' | " | 12" | 6 | 18 | .13 |
| 6 | 23' | " | 12" | 4 | 15 | .10 |
| 7 | 25' | " | 12" | 7 | 14 | .13 |
| 8 | 27' | " | 12" | 8 | 12 | .14 |
| 9 | 30' | " | 18" | 7 | 12 | .10 |
| 10 | 31' | " | 36" | 5 | 8 | .11 |
| 11 | 33' | " | 36" | 5 | 11 | .12 |
| 12 | 34' | " | 48" | 7 | 9 | .10 |

Record of 13 samples average

36" 6 14 .10

Western end of ore chimney pitches East out of winze at about 10' depth.

3rd Level West Crosby drift. "Crosby" Chimney.

From Crosscut at 780' West to 870' West 90'.

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>% pb;</u> | <u>oz.ag;</u> | <u>oz.au</u> |
|----|--------------------------------------|------------------|--------------|--------------|---------------|--------------|
| 1 | 780' West in Crosscut streak in wall | pyrites & gal. | 12" | tr. | 8 | .10 |
| 2 | 782' | " | 12" | 18 | 40 | .13 |
| 3 | 784' | " | 12" | 6 | 25 | .11 |
| 4 | 787' | " | 6" | 6 | 8 | .12 |
| 5 | 790' | " | 15" | 8 | 22 | .16 |
| 6 | 793' | " | 12" | 4 | 17 | .15 |
| 7 | 797' | " | 15" | 6 | 20 | .17 |
| 8 | 800' | " | 30" | 21 | 24 | .15 |
| 9 | 805' | " | 36" | 18 | 20 | .15 |
| 10 | 810' | " | 36" | 11 | 30 | .17 |
| 11 | 815' | " | 36" | 16 | 52 | .21 |
| 12 | 820' | " | 48" | 7 | 45 | .22 |
| 13 | 825' | " | 12" | 8 | 16 | .18 |
| 14 | 830' | " | 24" | 4 | 28 | .20 |

| | <u>Sample Location</u> | <u>Character</u> | <u>Width</u> | <u>lb;</u> | <u>oz.ag;</u> | <u>oz.au.</u> |
|----|------------------------|------------------|--------------|------------|---------------|---------------|
| 13 | 835' West | pyrites & Gal. | 24" | 31 | 40 | .23 |
| 16 | 840' " | " | 36" | 11 | 55 | .28 |
| 17 | 845' " | " | 36" | 17 | 30 | .32 |
| 18 | 850' " | " | 24" | 15 | 40 | .30 |
| 19 | 855' " | " | 30" | 13 | 17 | .18 |
| 20 | 860' " | " | 24" | 15 | 21 | .16 |
| 21 | 865' " | " | 24" | 16 | 26 | .15 |
| 22 | 868' " | " | 18" | 16 | 28 | .16 |
| 23 | 871' " | " | 36" | 3.5 | 8.5 | .10 |

Record of 23 samples average 90' 28" 12 29 .18

Record of 200 samples from 3rd Level West.

NOTE. IN THE FOREGOING TABLES THE AVERAGE ASSAY HAS BEEN GIVEN FOR EACH LOCATION WHERE TWO OR MORE SAMPLES HAVE BEEN TAKEN.

Additional list of Concentrating Tests.

Made in March and April 1902, to determine percentage of gold and silver saving in a 60% lead concentrate. Raw ore ordinary heavy sulphide from various places on 3rd Level.

| | Raw Ore Assay | | | | Concentrates Assay. | | | |
|-------|---------------|---------------------------|-----|---------------------------------|---------------------|-----|--|--|
| No. 1 | 13% | pb; 20 oz. ag; .14 oz. au | 11% | 61% pb; 108 oz. ag; .56 oz. au; | | | | |
| " 2 | 16% | " 30 " | .18 | " 19% 62% " 100 " | " .65 | " " | | |
| " 3 | 17% | " 32 " | .15 | " 17% 63% " 106 " | " .67 | " " | | |
| " 4 | 18% | " 43 " | .28 | " 21% 60% " 126 " | " .109 | " " | | |
| " 5 | 23% | " 52 " | .28 | " 33% 61% " 142 " | " .76 | " " | | |
| " 6 | 16% | " 32 " | .23 | " 21% 60% " 104 " | " .93 | " " | | |
| " 7 | 16% | " 31 " | .24 | " 22% 61% " 115 " | " .95 | " " | | |
| " 8 | 15% | " 30 " | .22 | " 22% 62% " 106 " | " .88 | " " | | |
| " 9 | 21% | " 38 " | .27 | " 24% 60% " 108 " | " .92 | " " | | |
| " 10 | 18% | " 34 " | .24 | " 16% 60% " 91 " | " .94 | " " | | |
| " 11 | 15% | " 32 " | .25 | " 15% 60% " 100 " | " .108 | " " | | |
| " 12 | 10% | " 28 " | .21 | " 14% 62% " 116 " | " .120 | " " | | |

Approx. average

| | | | | | | |
|-----|------|-----|-----|-----|-----|-----|
| 16% | 33.5 | .23 | 20% | 61% | 110 | .90 |
|-----|------|-----|-----|-----|-----|-----|

Percentage of assay value saved

| | | |
|-----|----|-----|
| 76% | 66 | .77 |
|-----|----|-----|

Ratio of gold and silver to lead.

Raw ore 1% pb; 2.1 oz. ag; .0144 oz. au.

Concentrates 1% pb; 1.8 oz. g; .0145 oz. au.

TOTAL OF 768 SAMPLES.