



# **Idaho, Coeur d'Alene Dist.. No. 480 Sept-Oct 1917**

Leith, C. K. (Charles Kenneth), 1875-1956

[s.l.]: [s.n.], Sept-Oct 1917

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**FIELD SECTION BOOK**



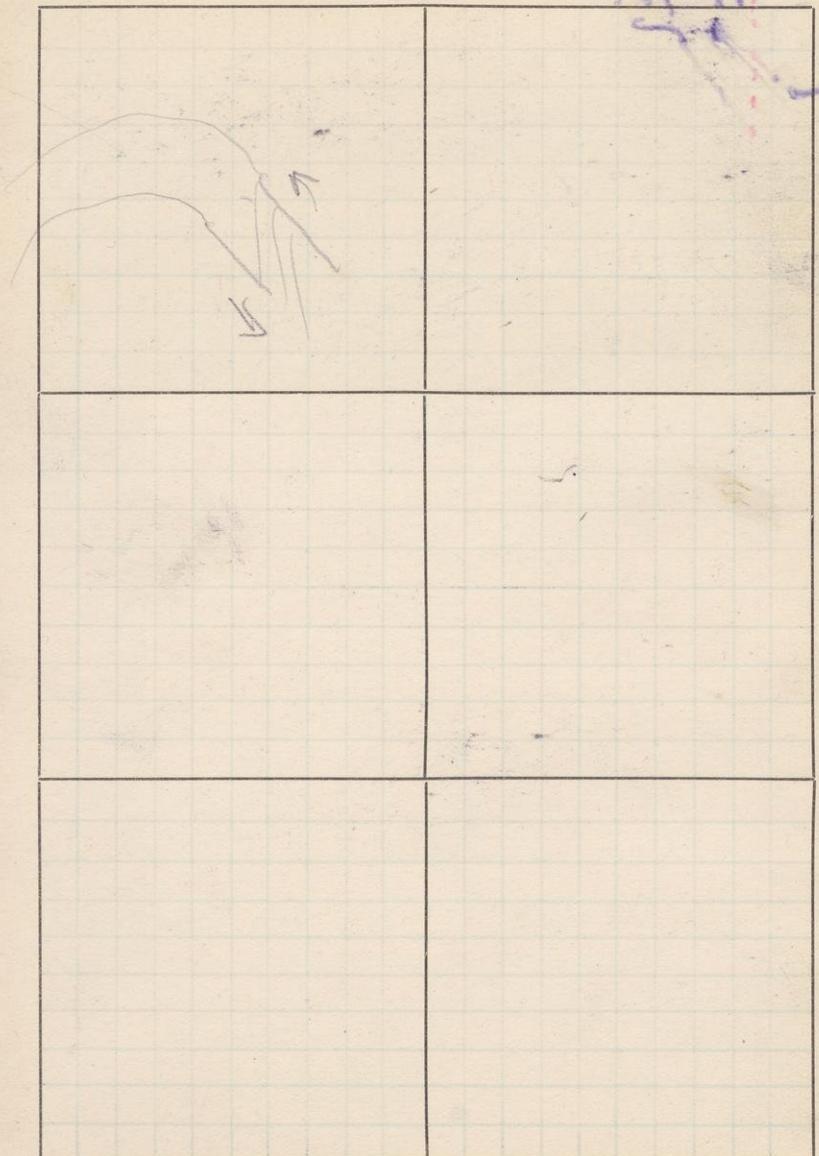
Notebook 480.

C.R. Leith  
Conn d'Alene Sept - Oct 1917  
Star-Federal Case.

S.

T.

R.



4/19, 70°6' L

4000' 70°6' N 13°E

4000' 70°6' N 13°E 1.6 N 13°E 1.6 N 13°E  
70°6' N 13°E 1.6 N 13°E 1.6 N 13°E

600' 70°6' N 13°E 1.6 N 13°E 1.6 N 13°E

800' 70°6' N 13°E 1.6 N 13°E

70°6' N 13°E 1.6 N 13°E 1.6 N 13°E

8500' 70°6' N 13°E 1.6 N 13°E

70°6' N 13°E 1.6 N 13°E 1.6 N 13°E  
70°6' N 13°E 1.6 N 13°E 1.6 N 13°E  
70°6' N 13°E 1.6 N 13°E 1.6 N 13°E

5 13°E

W 13°E

6th & 1800 m.

July 4,

$$\sqrt{1 + x^2 + y^2} \approx \sqrt{1 + 1} \approx \sqrt{2}$$

$$\textcircled{4} \quad \underline{15} - 600.17 \rightarrow 1492$$

•  $\sqrt{2} + 1$  is not a rational number.

③ Below, Simpl-

④)  $\psi_1, \psi_2, \psi_3$  with  $60^\circ$

1976.11.15. 0.2 x

11. 1976-1980, 1.0-0.0

~~1000 m.s. + f. r. 2. STR. Ruth~~

Y-10 V. 3.1.1.2 P.  
P. 3-0-3.1.2 x

1450 n.s.

Cunningham or Upper Star

Yonanx 11.200000  
Logan 27.1 60000  
Limestone 100000  
- 49 200000  
Limestone 200000  
Lottov. 110000 320000  
200000 700000

Iron Creek 1400000 1360000 600000  
200000 100000

Mary R. 700000 400000 600000

Upper Gunn 1400000 1360000 600000  
100000 200000 100000  
+ 100000 100000

Intermediate 1200000 1000000 800000  
600000 300000 200000  
200000 100000 100000  
400000 200000 100000

Ⓐ

Surface Limit  $\rightarrow$   $\lim_{x \rightarrow \infty} \frac{1}{x}$

1st  $\rightarrow$   $\lim_{x \rightarrow \infty} \frac{1}{x}$

2nd  $\rightarrow$   $\lim_{x \rightarrow \infty} \frac{1}{x}$

③  $\rightarrow$   $\lim_{x \rightarrow \infty} \frac{1}{x}$

④  $\rightarrow$   $\lim_{x \rightarrow \infty} \frac{1}{x}$

⑤  $\rightarrow$   $\lim_{x \rightarrow \infty} \frac{1}{x}$

Lower Form

جَنَاحَةٌ  
وَرَقَّةٌ  
جَنَاحَةٌ  
وَرَقَّةٌ

جَنَاحَةٌ  
وَرَقَّةٌ  
جَنَاحَةٌ  
وَرَقَّةٌ  
جَنَاحَةٌ  
وَرَقَّةٌ  
جَنَاحَةٌ  
وَرَقَّةٌ

جَنَاحَةٌ  
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وَرَقَّةٌ  
جَنَاحَةٌ  
وَرَقَّةٌ  
جَنَاحَةٌ  
وَرَقَّةٌ

جَنَاحَةٌ  
وَرَقَّةٌ  
جَنَاحَةٌ  
وَرَقَّةٌ

166 = 2.7 x 10<sup>16</sup> cm<sup>-2</sup>  
= 9.7 x 10<sup>16</sup> cm<sup>-2</sup>  
= 9.7 x 10<sup>16</sup> cm<sup>-2</sup>

No 4  $4\frac{1}{2} + 5 \times 10^{-1}$   
 $4 \times 10^{-1} = 7.9 \times 10^{16} \text{ cm}^{-2}$   
 $4\frac{1}{2} - 8.6 \times 10^{-1} = 7.6 \times 10^{16} \text{ cm}^{-2}$   
 $1.1 \times 10^{-1} = 1.77 \times 10^{16} \text{ cm}^{-2}$

Radius  $\frac{1}{2} - 5 \times 10^{-1}$   
 $6.5 \times 10^{-1} = 10^{-1}$   
 $10^{-1} = 9.5 \times 10^{-1}$   
 $6.5 \times 10^{-1} = 10^{-1}$   
 $6.5 \times 10^{-1} = 10^{-1}$   
 $1.2 \times 10^{-1}$   
 $1.0 \times 10^{-1} = 1.5 \times 10^{-1}$   
 $1.0 \times 10^{-1} = 1.5 \times 10^{-1}$   
 $1.2 \times 10^{-1} = 1.8 \times 10^{-1}$

$A = 6.74 \times 10^{-1}$

## ① Introduction

② 1.87800' x 30.444  
= 56.340' x 30.444

وَمَنْ يَعْمَلْ مِثْقَالَ ذَرْنَةٍ بِالْجَنَاحِينَ

عنه لفافه يزيد بـ ٢٠٪

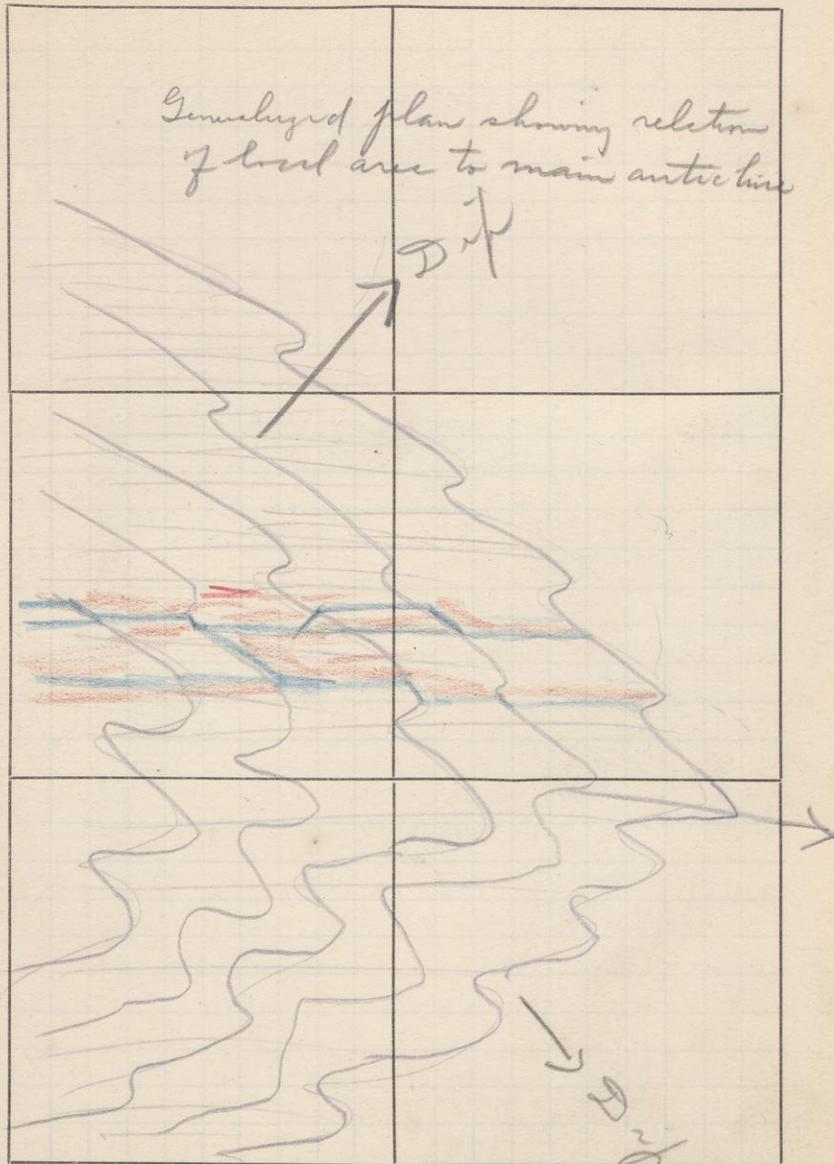
13 (λ = 465 nm)

S.

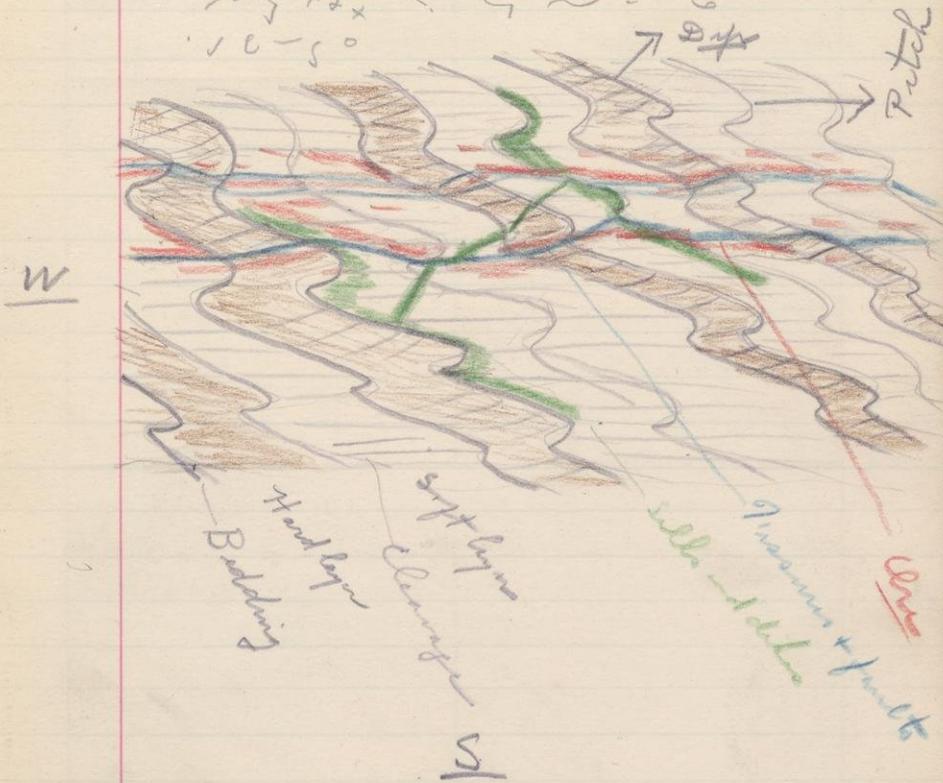
T.

R.

Generalized plan showing relation  
of bed area to main anticline



Sh. 6x 100, 4 + STR 20°:  $\Delta$  w. w. f.  
- 100, 10 Vyx  
Sh. 7. L NW x 60° w. w. f.  
- 100, STR 10°  
Sh. 8. 2 > 20 x 3 = 46 + W  
- 100, 100 x 3 0 0 0 0  
- 23 - 10 x 16 16 - 10 0 0  
- 100 x 100 0 0 0 0  
10-50  $\rightarrow$  ~~20~~



$\gamma \rightarrow \gamma + \gamma, \gamma \gamma + \gamma \gamma$

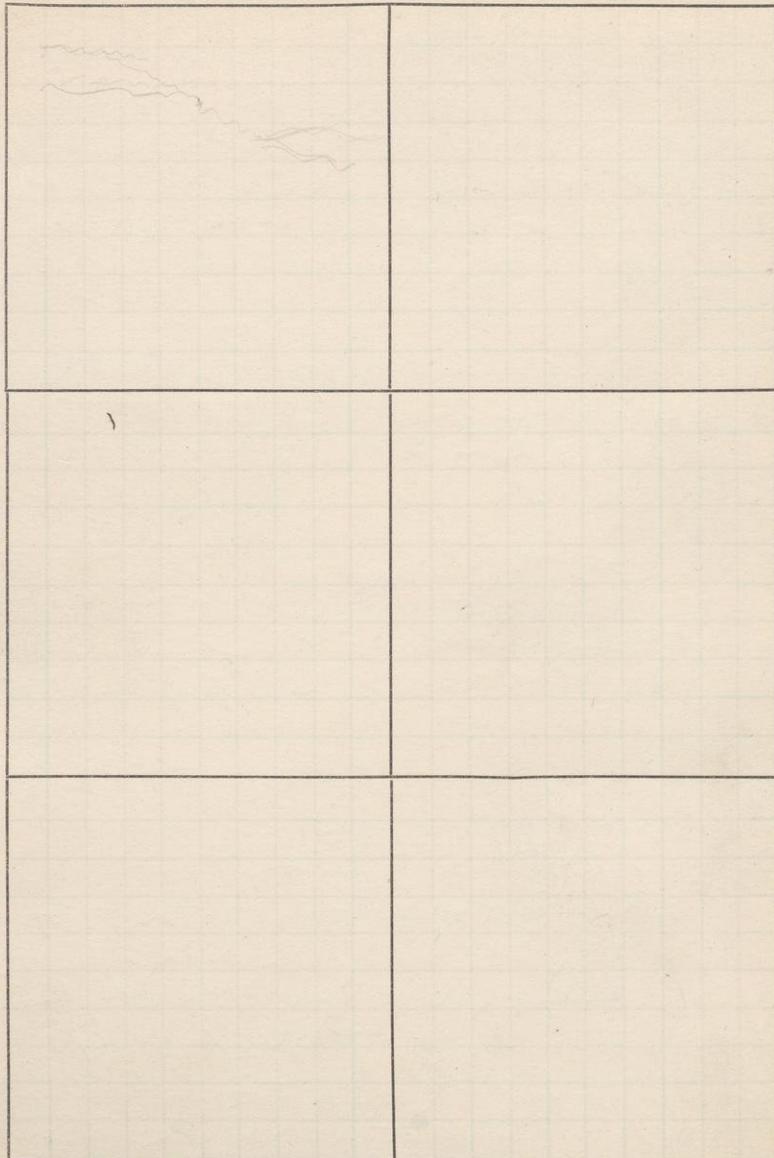
$$\begin{array}{r} 1.6 \sqrt{12.873} \\ \hline 12 \quad 8 \\ 12 \quad 8 \\ \hline 73 \end{array}$$

جـ ۱۰۰ - شـ ۱۰۰ - بـ ۱۰۰ - اـ ۱۰۰ - هـ ۱۰۰ -

S.

T.

R.





نیز سپریڈ - 8.00 a.m. QX  
کے 15.2 → 32.1 2.2.6  
سے 0.76 2.8 1.00 → 2.0  
0.15 → 2.2 → 1.00 → x  
0.00 → 2.5 → 1.00 → x  
1.00 → 2.6 → 1.00 → x  
2.00 → 2.6 → 1.00 → x  
6.69 → 2.1 → 1.00 → x  
1.69 → 1.00 → 1.00 → x  
نیز 1.00 → 1.00 → 1.00 → x  
نیز

6/1. early f. d. - 781  
→ 920 - 2000' - 10.6 miles. 8668  
L1 89 - 279. 20,900' 96x  
7600' - 2000' - 10.6 miles.  
5th rx

4° 96°

792

→ long L May R + long stem annuals

- 14

- 15x Th

65 t. - 20 V in 800 + 1400 /

- 11. 100 c x

10 - 160 c V - 5th

2600 t. 20 2 V 6

7. 2 P x k - 7800 / - 28 in V 152

. 6152 - 2000 x 480 / - 28 x

2 V 6 x 9 + 1 / 10 c 1 / = 222

300 x 1 / 15 c - 200 x 8 - 2 - 79

1 - 200 c . - 7. 26 100 /

↓ 1. 21 c - 7 - 15 x 6, 1. V. - 24 x

V 6 (2 - 600 1 - 800

c > A) 1 - 1400 x 1 - 16th x

✓ 44, 30' 7 - 21' P x

Specimens showing relations of lead-zinc-silver veins to dikes in Star Mine, Coeur d' Alene district, Idaho. Collected by C. K. Leith, September-October, 1917.

U.W Nos.

18961 Dike. Coarsely crystalline feldspar and hornblende in fine grain matrix containing little quartz. Ophitic texture.

18962 Dike showing replacement of ore.

18962a. Dike. Showing contact with sphalerite. Sphalerite yellow in center and toward contact becomes black, probably due to increase in iron. Directly at contact a narrow rim of pyrite. Irregular isolated masses of dark sphalerite near contact are entirely included in diabase.

18962b. Ore in sharp contact with dike with distinct band of pyrite between dark colored marginal phase and diabase. Shows up especially well in polished surface. Note also pyrite in diabase.

18963. Sphalerite and dark hornblende associated with dike. Under the microscope a distinct banding of sphalerite carbonate and dark granular masses which probably are the dark sphalerite. Also distinct bands of nearly colorless epidote.

18963a. Sphalerite with dark margin associated with greenish mineral, probably hornblende.

18963a. Sphalerite with the dark margins including and closely associated with a green mineral, probably hornblende. The sphalerite occurs in bands and irregular shots in a matrix which seems to be the typical diabase. Note also bands of quartz which seem to be vein quartz.

18963b. Principally the greenish yellow hornstone material. Consists of very fine hornblende or pyroxene with bands of chalcedonic quartz containing some dark mineral which may be sphalerite, pyrite, or magnetite. The characteristic feature is bands of finely granular material looking like colorless epidote with almost no feldspar or quartz.

18963b. The same, but principally ore in matrix which seems to be green hornblende. Ore is finely granular form not easy to distinguish from some dark green silicate-epidote.

18964. Slickensided surface on lead, zinc, silver ore from Coeur d' Alene District.

~~848-22~~

1650  $\frac{1}{2}$  x 2d. 42

1450  $\times$  1200  $\div$  125,  $\sim$  116  
125  $\times$  1200  $\div$  1450,  $\sim$  104

YCL 7

0-181-227-6

1050.3-27-11-2009

✓ 7, 8-10, 14

800 + 162 + 451 0.4 x 1000

スルトシ、九五、泰亨。

三月廿二日

7-12668

215 x 610 15% x 71972 x 2  
1294

Burbridge  $\angle 27^\circ - 17^\circ$ , ab  $106-8' \text{L} \times \text{Tx}$   $\text{pud} \frac{1}{2}$   
 $\angle 105-6^\circ 4' \text{P} - 188^\circ \text{N} \times \text{Y} \frac{1}{2} \text{pud} \frac{1}{2}$

72  $\angle 100^\circ \text{N} \times \text{L} \times 6^\circ \text{P} 12-24 \frac{1}{2}$   
 $45^\circ \text{N} \times$

73  $\angle 27^\circ \text{L} \times \text{N} 6^\circ \text{P} - 120^\circ \text{N} \times$

74  $\angle 10^\circ \text{P} \times \text{L} \times 2.6 \times \text{L} 2-3 10^\circ \text{P} \frac{1}{2} \text{N}$   
 $57^\circ \text{N} \times$

75  $300^\circ \text{N} \times 3-4^\circ \text{P} \times 10-12^\circ \text{U}$   
 $\angle 200^\circ \text{L} \times \text{N} 45^\circ \text{P} \times 10^\circ \text{N} \times$   
 $\angle 200^\circ \text{N} \times \text{L} \times$

76  $27^\circ 15-18^\circ \text{N} \times 4-5^\circ \text{B} \times - \text{P} \times \text{N} \times$   
 $2 \times 1^\circ 230' 6 + \text{W} \times 16 = \frac{1}{2} \text{N} \times$

75  $\angle 61^\circ \text{N} \times 41^\circ \text{N} \times 118^\circ 21^\circ \text{N} \times 8-9 \frac{1}{2}$   
 $2^\circ \text{P} \times 2.7 \times 2^\circ 3 \frac{1}{2} \text{N} \times$

76  $\angle 7 \times \text{B} \times \text{N} \times$

$\angle 1, 2, 3 75^\circ, 80^\circ, \text{N} \times 2^\circ \text{N} 70^\circ \text{W} \times$

77  $\angle 5^\circ \times \angle 11^\circ \times$

78  $\angle 8^\circ \times \text{N} 10-12^\circ \text{L} \times \text{L} \times \text{N} \times 10^\circ \text{C} \times$   
 $\angle 10^\circ \text{N} \times \text{L} \times \text{N} \times$

A-1  $\rightarrow$   $3 \times 9 \times 25 \times 20' \times 1 \times 160^{\circ} C P \cdot 2$   
~~1000~~  $\times$  6  $\times$  1  $\times$  2  $\times$

1.257  $\times$   $\rightarrow$   $1.1$   $\times$

140  $\times$   $\rightarrow$   $1.5 \rightarrow 3.4 \times$

1.1  $\times$   $\rightarrow$   $25 \times 1 \times 30' P$

1.25  $\times$   $\rightarrow$   $6 + 1.1 \times$   $\rightarrow$   $4 \times$   $\rightarrow$   $1.2$

1.25  $\times$   $\rightarrow$   $6 + 1.1 \times$

1.25  $\times$   $\rightarrow$   $25 \times 6 \times 1.1 \times$   
 $\rightarrow$   $7.19 \times 3' L \times$   $\rightarrow$   $25 \times 6 \times 1.1 \times$   
 $\rightarrow$   $1.1 \times 6 \times 6 \times 6 \times 6 \times 1.1 \times$   
 $\rightarrow$   $25 \times 6 \times 1.1 \times 1070' \times$

0.75  $\times$   $\rightarrow$   $1.1 \times 800' \times$   $\rightarrow$   $1.1 \times 0.75 \times (-800' \times$   
 $\times 1.1 \times 6 \times 1.1 \times$   $\rightarrow$   $7.0 \times$   
 $1.1 \times 6 \times 6 \times 6 \times 3' 4' \times$   $\rightarrow$   $25 \times 300' \times 6 \times 4' \times$

7.0  $\times$   $\rightarrow$   $1.1 \times 7.0 \times$

1.1  $\times$   $\rightarrow$   $6.40 - 50' \times 1.1 \times 6 \times 1.1 \times$   
 $\rightarrow$   $0.60 \times 6 \times 1.1 \times 6 \times 1.1 \times$   
 $\rightarrow$   $5 \times 800.00 \times 1.30 \times 1.1 \times$   
 $= 6 \div 1 \times$

C+

SL 20-110'  $\times$  60°, CL

✓ 7.6.6

وَمَنْ يَعْمَلْ مِنْ حَسَنَةٍ يَرَهُ  
وَمَنْ يَعْمَلْ مِنْ سُوءٍ يَرَهُ

جـ ٣٠ جـ ١٧ جـ ٦

54-601-22-mod

20' x 10' h. 7' x 21' x 10' 6" 11' 5" 4' 6" 7' 2" 20' x 11' 6" 16' 5" 4' 6" 7' 2"

2.30-1+

Bassalt

76-1-26 ~ 671 p.  
12 x 11 29 x ~ 6. 7. 2 x  
1. 7. 21/ 2 x

~ 1-27-7 x 1-26  
~ 6 x 6 x, ~ 1-2 x

1st 27 x 62 + 1 x

2-2-12 ~ 2-12 x

1. 2. 3. 4. x

2. 1-2-2 x ~ 6 x 6. 29 x 7-1. 6. x  
- 29 1. 27. 2 x 4-2 8  
2-6. 6 x 1-2-7-6 x 2-12. 6. x

2-6-2-2-2 x 2-4-2 x 1. 2 x  
2-6-2-2-2 x 1-2-2 x 2-6-2 x  
2-6-2-2-2 x 1-2-2 x  
2-6-2-2-2 x 1-2-2 x  
2-6-2-2-2 x 1-2-2 x

14.  $\Delta \text{Lat} = \Delta \text{Long} = 9^{\circ}$

Lat =  $27^{\circ} 30' + 9^{\circ} = 36^{\circ} 30'$   
Long =  $110^{\circ} + 9^{\circ} = 119^{\circ}$

14  $\Delta \text{Lat} = 9^{\circ}$   $\Delta \text{Long} = 9^{\circ}$   
Lat =  $27^{\circ} 30' + 9^{\circ} = 36^{\circ} 30'$

Long =  $110^{\circ} + 9^{\circ} = 119^{\circ}$

11.  $7^{\circ} 30' + 6^{\circ} = 88^{\circ}$   
Lat =  $27^{\circ} 30' + 6^{\circ} = 33^{\circ} 30'$

12.  $11^{\circ} 30' + 2^{\circ} = 13^{\circ} 30'$   
 $11^{\circ} 30' + 2^{\circ} = 13^{\circ} 30'$ , Reg. N. Now

12.  $7^{\circ} + 6^{\circ} = 13^{\circ}$   
Lat =  $27^{\circ} + 6^{\circ} = 33^{\circ}$

$4\frac{1}{2}, 5^{\circ} - 1^{\circ} = 3^{\circ} 30'$

$4\frac{1}{2}, 30^{\circ} W - 55^{\circ} 28' = 1^{\circ} 2^{\circ} 7^{\circ}$   
 $25^{\circ} N, 50^{\circ} W \angle 780^{\circ}$

$1^{\circ} 2^{\circ} 7^{\circ} \angle 6^{\circ} 1^{\circ} 45' = 0^{\circ} 2^{\circ} 1^{\circ} 45'$   
 $1^{\circ} 2^{\circ} 7^{\circ} \angle 6^{\circ} 1^{\circ} 45' = 0^{\circ} 2^{\circ} 1^{\circ} 45'$

$25^{\circ} N, 112^{\circ} 3^{\circ} 2^{\circ} \angle 1^{\circ} 1^{\circ} 50' +$   
 $25^{\circ} N, 112^{\circ} 3^{\circ} 2^{\circ} \angle 1^{\circ} 1^{\circ} 50' +$

9/17 F

$$803 \rightarrow 79 \times 403 \xrightarrow{16} 26 \frac{1}{2} 8 - 18 \frac{1}{2}$$

$\begin{array}{r} 26 \frac{1}{2} 8 - 18 \frac{1}{2} \\ \times 18 \frac{1}{2} \\ \hline 52 \quad 16 \\ 16 \quad 16 \\ \hline 403 \\ 26 \frac{1}{2} 8 - 18 \frac{1}{2} \\ \hline 28 \quad 16 \\ 16 \quad 16 \\ \hline 158 \end{array}$   
 $\begin{array}{r} 158 \times 240 \\ \hline 158 \end{array}$

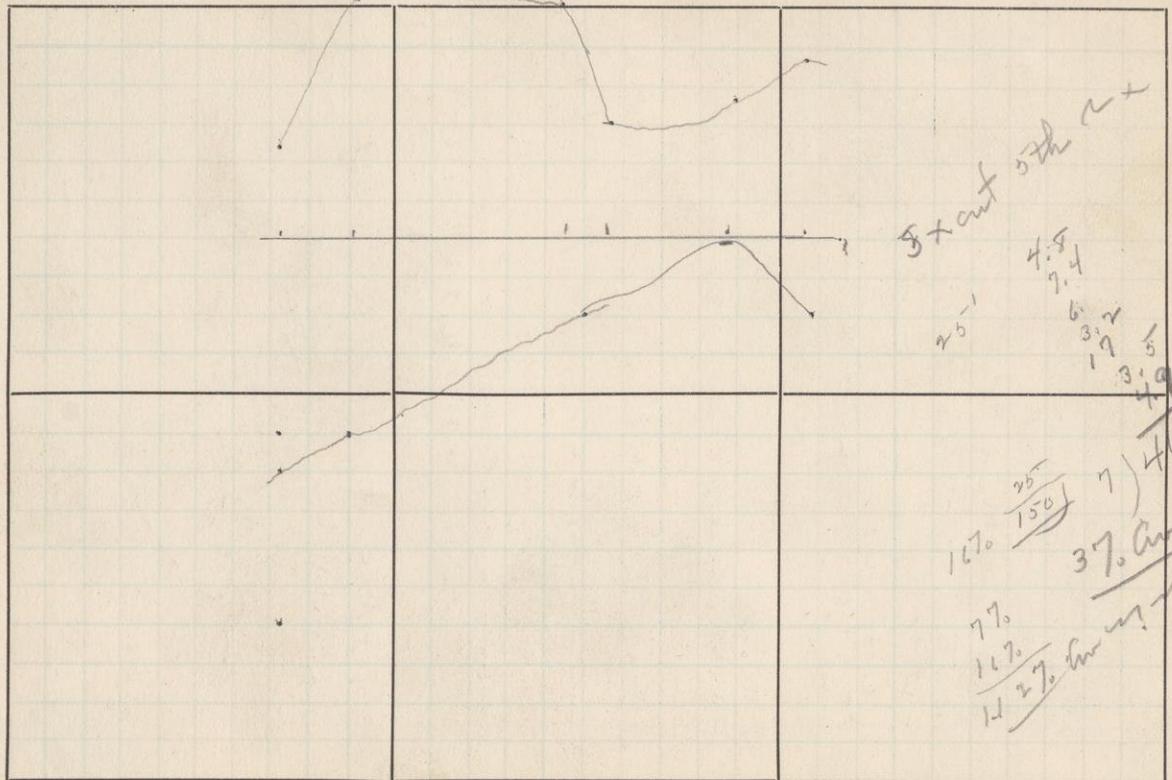
$$303 \rightarrow 7 \times 273 \times 60 \times 60 \rightarrow 1000$$

$\begin{array}{r} 7 \times 273 \times 60 \times 60 \\ \times 1000 \\ \hline 1911 \end{array}$   
 $\begin{array}{r} 1911 \times 303 \rightarrow 7 \times 60 \times 60 \\ 1911 \times 60 \times 60 \\ 1911 \times 60 \times 60 \end{array}$

$$1911 \times 60 \times 60 =$$



74,908



کا  $\frac{1}{2} \times 90^\circ = 45^\circ$  فا  $\frac{1}{2} \times 90^\circ = 45^\circ$   
 $90^\circ - 45^\circ = 45^\circ$

2005.12.27. 16:27:27.500000

~  $\left( 380^{\circ} \right) \rightarrow \left( 1 - T - \underline{75^{\circ}} \right)$

16.  $A \times 260^{\circ} B \times 70^{\circ} C \times 160^{\circ} D \times 60^{\circ}$   
17.  $A \times 100^{\circ} B \times 40^{\circ} C \times 60^{\circ}$   
18.  $A \times 2 \cdot 70^{\circ} B \times 60^{\circ} C \times 15^{\circ} D \times 120^{\circ}$   
19.  $A \times 120^{\circ} B \times 60^{\circ} C \times 100^{\circ} D \times 80^{\circ}$   
20.  $A \times 100^{\circ} B \times 80^{\circ} C \times 60^{\circ} D \times 70^{\circ}$   
21.  $A \times 100^{\circ} B \times 100^{\circ} C \times 0^{\circ} D \times$   
22.  $A \times 140^{\circ} B \times 80^{\circ} C \times 60^{\circ} D \times 60^{\circ}$   
23.  $A \times 140^{\circ} B \times 100^{\circ} C \times 60^{\circ} D \times 60^{\circ}$   
24.  $A \times 140^{\circ} B \times 100^{\circ} C \times 60^{\circ} D \times 60^{\circ}$   
25.  $A \times 140^{\circ} B \times 100^{\circ} C \times 60^{\circ} D \times 60^{\circ}$   
26.  $A \times 140^{\circ} B \times 100^{\circ} C \times 60^{\circ} D \times 60^{\circ}$   
27.  $A \times 140^{\circ} B \times 100^{\circ} C \times 60^{\circ} D \times 60^{\circ}$   
28.  $A \times 140^{\circ} B \times 100^{\circ} C \times 60^{\circ} D \times 60^{\circ}$   
29.  $A \times 140^{\circ} B \times 100^{\circ} C \times 60^{\circ} D \times 60^{\circ}$   
30.  $A \times 140^{\circ} B \times 100^{\circ} C \times 60^{\circ} D \times 60^{\circ}$

$$2 \text{ mg-L}^{-1} \text{ } \alpha \times 50.6 \text{ } \text{kg}^{-1} \sim 10.1 \text{ kg}$$

Specimens collected by C. K. Leith,  
from Star Tunnel, Couer d' Alene  
District, Idaho, 1917.

UW55000 Ore from vein. Survey points 63 - 235,  
north wall.

UW55001 Quartz phase of ore. Near raise.

UW55002 Pyrite and quartz vein material. Up-  
per Grouse dump.

UW55003 Quartzite adjacent to vein carrying  
ore. Southwest Survey Point  
53.

UW55004 Oxidized phase of ore. Iron Crown  
dump.

UW55005 Vein quartz. 50' S. W. Survey Point  
53.

7x

①  $\propto S + R \propto$

7x

3x. 6x

6x. 7x

$\propto S + R \propto S + R \propto$

6x + 6x

6x. 6x. 7x. 7x. 8x. 8x

$\propto 8^{\circ} \propto 7x \propto 7x$

$\propto 7x \propto 8^{\circ} \propto 8^{\circ} \propto 8^{\circ} \propto 8^{\circ} \propto 8^{\circ}$

6x. 7x. 8x. 8x. 8x. 8x

$$\begin{aligned} ① & \quad \text{---} \times \text{---} \times \text{---} \times \text{---} \times \text{---} \\ & \quad \text{---} \times \text{---} \times \text{---} \times \text{---} \times \text{---} \\ & \quad \text{---} \times \text{---} \times \text{---} \times \text{---} \times \text{---} \\ & \quad \text{---} \times \text{---} \times \text{---} \times \text{---} \times \text{---} \\ & \quad \text{---} \times \text{---} \times \text{---} \times \text{---} \times \text{---} \end{aligned}$$

19.14, also May R. Clegg + 6000  
✓ 29.20 x

1906 9-27 16-20. 20-1  
- 4- and 5-16-20 hrs.  
- 8-20 min. 16-20 hrs.

~~-12 + 10 + 40~~

~~10 + 10 + 10 + 10~~

~~10 + 10~~

~~10 + 10~~

~~10 + 10 + 40 + 40 + 70~~

~~10 + 10 + 15 + 20 + 20 + 20~~

~~10 + 10 + 14 + 14~~

~~10 + 10 + 10 + 70 + 20 + 20 + 20 + 20 + 20~~

~~10 + 10 + 10 + 10~~

700 ~~2~~

400 ~~2~~

600 ~~2~~

300 ~~2~~

300 ~~2~~

500 ~~2~~

3800

~~600~~

837 - 17.  $8\frac{1}{2}$

2.6 5.

1 2

166 83 - 96

17  
183.

~~10 + 10~~

~~10 + 10~~

~~10 + 10~~

