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Michipicoten, Ontario. Algoma Steel: [specimens 47626-47662]. No. 471 1916

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

[s.l.]: [s.n.], 1916

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FIELD SECTION BOOK

Note Book No 471

At 5000 $\times$ $\frac{1918}{1918} 307,500 \times \frac{1}{1} \times \frac{1}{1} \times \frac{1}{1}$
 60 $\times$ 15+

204 $\times$ 154 $\times$ 420 $\times$ 420 $\times$ 270 $\times$ 74 $\times$ 420

2. = 200,000 - 240,000 $\times$ 1918

1.5 - 1.5 - 1.5

1.5 - 1.5 - 1.5

2

1.5 - 1.5 - 1.5

1.5 - 1.5 - 1.5

1.5 - 1.5 - 1.5

1.5 - 1.5 - 1.5

95817 14% $\times$ 9% $\times$ 1.5

1.5 - 1.5 - 1.5

Annex 12 14% $\times$ 11.25 $\times$ 12.55 $\times$ 7.12 $\times$

" 1.5 $\times$ 12.00 $\times$ 11.33

1.5 - 1.5 - 1.5

1.5 - 1.5 - 1.5

1.5 - 1.5 - 1.5

Maggie Mine June 21st 1916
With M. Hambling + Co.

1 - 185,000 ft x 4.5 ft x 1 ft
2 - 26 ft x 16 ft x 1 ft x 2
3 - 1 ft x 1 ft x 1 ft x 3
4 - 1 ft x 1 ft x 1 ft x 1

1 - 4.49 6 494 ft x 1 ft
2 - 1 ft x 1 ft x 1 ft x 1
3 - 1 ft x 1 ft x 1 ft x 1

1 - 11 ft x 1 ft x 1 ft
50 ft x 1 ft
45 ft x 1 ft x 1 ft (25 ft x 1 ft)
7 1/2 ft x 1 ft x 1 ft
\$3,185
7.5 ft to Hambling 16 ft x 1 ft
\$3.26

1 - 1 ft x 1 ft x 1 ft \$1.28

1 - 704 ft x 1 ft x 1 ft x 1 ft 334 ft

1 - 1 ft x 1 ft x 1 ft x 1 ft
1 ft x 1 ft x 1 ft x 1 ft

S.

T.

R.

Map. abx $\rightarrow$ 5x 2. 1-4+2
 35000x
 abx 1. 3
 01-200
 200000
 300
 1-400x

Tonnage <u>etc</u>	Above 1st.	Cu. width	Length	Area	Height	Tonnage
		48	1155	55,440	92	255,000 (a)
" "	mid	47	1250	47,000	90	448,000 (b)
" 3rd	28	875	20,125	103	}	455,000 (c)
" 6 th dth	30	325	9,750	103		
" 7 th dth	30	325	9,750	103		
" 4 th	40	475	19,000	100	}	293,000 (d)
" 4th						
" 7 th dth			9,750	100		
Total						1,451,000

(a) 50% of 26.1st & 25.70 - 25.70
 2. 8000 + 4.4 25.70, 25.70

c 2.6 2.6 25.70, 25.70 25.70 25.70 25.70
 2. 8000 + 4.4 25.70, 25.70

d, 2.6 2.6, 25.70 25.70 25.70 25.70 25.70

2. 8000 + 4.4 25.70, 25.70 25.70 25.70 25.70 1,305,900 + 6.44

2. 8000 + 4.4 25.70, 25.70

2. 8000 + 4.4 25.70, 25.70

505,000

797,900

2. 8000 + 4.4 25.70, 25.70

60-8 (70%) to 293,000 tons

2. 8000 + 4.4 25.70, 25.70

2. 8000 + 4.4 25.70, 25.70

2. 8000 + 4.4 25.70, 25.70

647,900

2. 8000 + 4.4 25.70, 25.70

384,000 dx

Alice $\gamma, \beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \rho, \sigma, \tau, \upsilon, \phi, \chi, \psi, \omega$
 $\gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \rho, \sigma, \tau, \upsilon, \phi, \chi, \psi, \omega$
 $\gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \rho, \sigma, \tau, \upsilon, \phi, \chi, \psi, \omega$
 $\gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \rho, \sigma, \tau, \upsilon, \phi, \chi, \psi, \omega$
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Bottle 1, N. Gordin x - 6 N 6 - 1 x
 100 x 7 1/2 57.36

20 4.61

3 3.54

T .004 .015

Gordin 1, - - - 1 x

1 x 147 - - - 147

Minimum $\times$ $\frac{1}{5}$ $\times$ 120 p. $\times$ - / - Handby
 12th 1916 $\times$ - - - - - Curve $\times$

Cost 20,000 $\times$
 \$160,000 $\times$ 65% $\times$ = 104,000 $\times$
 200 + 21 $\times$ 88% $\times$
 - 19,000 Curve $\times$
 100,000 $\times$ 17%

12 - Curve $\times$ 100,000 $\times$ 17% $\times$
 279,000 - 184,500 =
 235,800

$$285\% = 200,400 \times$$

$\times$ 100,000 $\times$ 17% $\times$
 391,600 $\times$
 84.5% 360%
 330,900

$$85\% = 281,300$$

$$\text{Av. } 7 \text{ } 37.55 \times$$

- $\text{Yeshu} \sqrt{L} \rightarrow x \text{ u } \sqrt{p} \rightarrow 1, x$
 $p \cdot p \cdot E \rightarrow y \cdot p \cdot i + \dots = 215,000$
 $p \cdot \dots = 1,800,000 = 12\% p \cdot \dots 12\% x$
 $\dots \rightarrow 15,000$
 $\dots \rightarrow 60 \rightarrow 15 \rightarrow 11 \rightarrow \dots$
 $\dots \rightarrow 6 \rightarrow 17 \rightarrow \dots$

Gen'l Security Situation (p. Magpie)

7-5m 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

✓ Helms 12100' 3,750,000 LSC

Box	Bundel	3,000,000	Yacht
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Long Lake 505,000 900

Josephine	100,000	L5c
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Bentley 900,000 LSC

per Marin 1, 200, 000 per Synd.

مستأجر

[illegible][illegible]

4 Aug 1912, T⁶/b. c. 8

$\times 35.11$ $\text{SiO}_2 \text{ } \# 14.19$

48.31 P 012

49.35 S 1.123

46.60

47.09

46.86

43.04

Ans. 45.09

601 p. 2

~~Budget 14% - 2 = 14% x~~

Long Lake + 50-1-0-6 +

the next page

S.

T.

R.

<i>Hahn x 7</i> <i>no</i> <i>2x</i> <i>no</i> <i>1</i> <i>2x</i> <i>no</i> <i>1</i> <i>no</i> <i>6</i> <i>7+8</i> <i>6th</i> <i>1</i> <i>5-3</i> <i>2x</i> <i>2</i> <i>1</i> <i>2x</i> <i>2</i> <i>1</i> <i>23</i> <i>1</i> <i>2x</i> <i>2</i> <i>1</i> <i>5</i> <i>1</i> <i>2</i>	

Boyer Lake 4x 1x 1x 1x 1x 1x 1x 1x
 1x 1x 1x 1x 1x 1x 1x 1x
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S.

T.

R.

2-1-23, 1914 Campus 31,140 D 73,850 8 20,000 5 86,100 <u>124,950</u> \$211,050. 854 1.10	
1-1-23 6-1-23 Annual 600' @ \$30 = \$18,000 Drift 2500' @ 12 = 30,000 Rainy 2460 @ 25 = 61,500 <u>\$109,500</u> 1400 1.10 = 73,000	
6-1-23 = 8,000,000 = 11 years. 161.4' 107.4' 134.4' 254' x 2420 = 8236,000 807,2 = 7,000,000. 224 250' x 120 = 672,000 tons	390,584

1-2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1-2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1-2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

104. 1-2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 $\sqrt{x}$

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Bye $101x$ $102x$ $103x$ $104x$ $105x$ $106x$ $107x$ $108x$ $109x$ $110x$

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Mary $101x$ $102x$ $103x$ $104x$ $105x$ $106x$ $107x$ $108x$ $109x$ $110x$
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$101x$ $102x$ $103x$ $104x$ $105x$ $106x$ $107x$ $108x$ $109x$ $110x$

Sediment Helium

p. 500 125,000

2000 110,000 $\times 1.5$

p. 500 14,100

\$249,100 $\times 1.1 = 274,010$ p. 500 125,000 $\times 1.5 = 187,500$ 30,000

\$217,500

p. 500 125,000 $\times 1.5 = 187,500$ 2nd row 125,000 $\times 1.5 = 187,500$ " " 125,000 $\times 1.5 = 187,500$

Total capital 250,000

75,000

520,000

160,000

\$1,015,000

14,54 per ton

Cost of mining 85¢ + 4¢ = 90¢

" " " 85¢ + 10¢ = 95¢

15¢ 1.41 $\times 1.26 = 1.77$

p. 95

1.26\$2.21 $\times 1.5 = 3.31$ 1.10
\$3.31p. 55 $\times 1.26 = 2.43$

500 5.2

5.000

- 7.15 $\times 1.26 = 9.01$

12-1-2 2.16 + 2142-10-12-10-12

2142-10-12

2142-10-12 2142-10-12 2142-10-12

Specimens collected by C. K. Leith and J. D. Conover during examination of properties of Algoma Steel Corporation, Ltd., Michipicoten District, Ontario, June 1916.

Specimens 47626- 47645, illustrate contact metamorphism of siderite by diabase dike in the Magpie Mine.

Siderite from Magpie Mine:

- 47626. ✓ 1st level, E. side of dike, 125' from contact.
- 47627. ✓ 1st level, E. side of dike, 5' from contact.
- 47628. ✓ 1st level, E. side of dike at contact.
- 47629. 1st level, W. side of dike at contact.
- 47630. 1st level, W. side of dike, 5' from contact.
- 47631. 2nd level, E. side of dike, 700' from contact (*Coarsely crystalline phase*).
- 47632. ✓ 2nd level, E. side of dike, 60' from contact.
- 47633. 2nd level, E. side of dike, 5' from contact.
- 47634. ✓ 2nd level, E. side of dike, 1' from contact.
- 47635. ✓ 2nd level, W. side of dike, 1' from contact.
- 47636. ✓ 2nd level, W. side of dike, 7' from contact.
- 47637. ✓ 2nd level, W. side of dike, 50' from contact.
- 47638. ✓ 2nd level, W. side of dike, 300' from contact.
- 47639. 3rd level, E. side of dike, 50' from contact.

Siderite from Magpie Mine:

47640. 3rd level, E. side of dike, 5' from contact.
47641. 3rd level, E. side of dike, at contact.
47642. 3rd level, W. side of dike, at contact.
47643. 3rd level, W. side of dike, 5' from contact.
47644. 3rd level, W. side of dike, 50' from contact.
47645. ✓ Magpie Mine, fresh white siderite from dump.
47646. Coarsely crystalline carbonate from Magpie Mine (to be analyzed for CaO and MgO). 2 specimens.
47647. Magpie Mine, 3rd level. "Mica dike."
47648. " " "mica dike" from dump-pile.
47649. Helen Mine, piece of drill core from drill hole 103. Specimen of Wawa Tuff.
47650. Helen Mine. Weathered iron carbonate from ledge between Boyer and Sayers lakes. To show weathering of carbonate and pyrite.
47651. Helen Mine. From top of Siderite Hill. To show weathering of carbonate and pyrite.
47652. Helen Mine, dump pile. Showing relation of silica to pyrite.
47653. Helen Mine, dump pile. Banded chert and pyrite.
47654. Helen Mine, dump pile, Hematite and pyrite.
47655. Helen Mine, Part of drill core from hole 103. To show occurrence of pyrite in the siderite.
47656. Helen Mine, 7th level. Pyritic sand from large pocket.

47657. Helen Mine. Iron formation from Trench 7 on Siderite Hill, between the two diabase dikes. Showing contact metamorphism (2 specimens).
47658. Helen Mine, 3rd level. Showing kaolinization of diabase dike.
47659. Helen Mine, 6th level. Unaltered diabase dike.
47660. Helen Mine, 6th level. Black mud at contact of hematite and siderite.
47661. Helen Mine, 7th level. Black mud at contact of hematite and siderite.
47662. Helen Mine. Coating of yellow ochre from inside of drain pipe (dry).
Bottle contains same material (wet) from wood trough (for bacteriological examination).



