

W45

37

WELLBORN

400



1) + 20 = 21 1/2

$\frac{3}{16}$ 321.

$\frac{1}{7}$ 551

6577

561

7133

7503

331

7834

Buy

205

Barrett

Buy 2-16-09

Smith 16

Barrett 100 110

John 100 35 10

37°

Miller 16th = 15th outside
36.

err sum measurement of Pm curve

7

6

+76

+26

5

+61

4

+38

3

+40

2

+77

1

+17

+15

0

2-8-09 - Woeite
Barra

low plaster on Rt changes to low concrete
low concrete on Rt changes to low plaster

low plaster on Rt changes to low concrete

low concrete on Rt changes to low plaster

low plaster on Rt changes to low concrete

low concrete on Rt changes to low plaster

concrete Jabotum on right ends - low amount begin

concrete Jabotum on left ends - low amount begin

= N end bridge

+21

10

+53

9

+95

+94

+83

+72

+68

+66

+25

+03

8

+92

+77

7+23

low concrete on R+ changes to high concrete

low plaster on R+ changes to low concrete

high concrete on R+ changes to low plaster

high concrete on R+ changes to low concrete
= culvert 5" x 23" across by ditch ^{at stone} masonry

low concrete on R+ changes to high concrete

low concrete on R+ changes to high concrete

low plaster on R+ changes to low concrete

low concrete on R+ changes to low plaster

high concrete on R+ changes to low concrete

low concrete on R+ changes to high concrete

low plaster on R+ changes to low concrete

low concrete on R+ changes to low plaster

18

+47

17

16

+36

15

14

+61

13

+96

12

+52

11

+51

+36

10 + 23

low concrete on Pt changes to low plaster

low plaster on Pt changes to low concrete

low concrete on Pt changes to low plaster

low plaster on Pt changes to low concrete

low concrete on Pt changes to low plaster

high concrete on Pt changes to low concrete

high concrete on left changes to low concrete

low concrete on left changes to high concrete

25

24

+71

+56

+46

23

+92

+33

+24

+12

+04

22

21

20

19

18+25

low concrete on Pt change to high concrete
low plastic on Pt change to low concrete
low concrete on def change to high concrete

low concrete on Pt change to low plastic
low plastic on Pt change to low concrete
low concrete on Pt change to low plastic
low plastic on Pt change to low concrete
low concrete on Pt change to low plastic

low plastic on Pt change to low concrete

+75
+52
+36
+20
+09
+05
30
29
+19
28
+67
+35
27
26

13
12
11
10
9
8
7
6
5
+8
4
3
+3
2
1
0+00

= Pine Creek Head-gates

low concrete on rt ends
low concrete on left begins
low concrete on rt ends
low concrete on left begins
concrete lining on rt ends
concrete lining on left ends
outer protective wall begins
high concrete on Rt & Lt becomes 1' lower
= 0 ft of 5yd sand chamber.

Measurement of Ditch along Kerri
Collenwood Branch

Wuester Bar

2-12-09

15

+13

= ctr sand chamber #1

14

+02

= double gate

13

27

12

26

11

25

10

+12

= ctr sand chamber #2

9

+02

= double gate

8

24

7

23

6

22

5

21

4

20

3

+17

= King to Skye Valley

2

19

1

18

0400

= N side Pine Creek Bridge

17

= N End

16

36
526
500

+65

+53

29

28

27 + 93

extrem end concrete
= chr cottonwood gates

= S end concrete walls through
quartz sand
with riprap
concrete floor

Ditch measurement along beam

S End Pine Creek Bridge to sta 1

13

12

11

10

9

8

7

6

5

+88

4

3

+36

2

1

0+00

= chr big sand chamber

= S End Pine Creek Bridge

= N End Pine Creek Bridge

+86

=SEnd Flume 2

28

27

+68

=N End Flume 2

Italian

[Camp]

26

25

24

23

22

21

20

19

18

17

16

15

14

+85 = N End Fluvium 3

43

42

42

40

39

38

37

36

35

34

33

33

32 + 90

31

30

29

exting below big bar
to Stage Valley

57

56

55

+49

= SEND FLOWN A

54

53

+53

= NEW # A FLOWN

52

+63

= horseback King below kitchen

51

50

49

48

47

+16

= SEND FLOWN B

INDIAN TYP

46,

45

44

71

70

69

68

67

66

+82

= N End $\frac{1}{8}$ Tunnel

+68

= S End $\frac{1}{16}$ Tunnel

+21

= N End $\frac{1}{16}$ Tunnel

65

64

+44

= S End Flum. 5

63

62

+72

= N End Flum 5

61

60

147 = N End Flum 9

82

81

80

79

+

+20 = S End 8 Flum

20

+19

19

78

77

76

+98 = N End 8 Flum

14

75

74

+39 = S End 7 Flum

73

72

71

97+80 } Slab gulch xing
97+76 }

93+56 } Slab
93+46 }

98+50 = S End Flm 10

98+60 = N End Flm 10

158 = 51+75

29

63
62
61 } Tunnel $\frac{1}{2}$ Slab $\frac{1}{2}$ long

+ 01 = S End $\frac{3}{4}$ Tunnel

627

61 + 16 = N End $\frac{3}{4}$ Tunnel

+ 07 = S End Flm 9

61 26

60 55

98+50
98+60
98+10

K-50
75
13 35

113+95 = N End slab of mine on about N 1 Turn

113+33 = south end slab

99+81 } Slab
99+11 }

53

71 + 82 = $1\frac{1}{4}$ S
 70 + 36 = $1\frac{1}{4}$ N
 69 20 + 225 = SE end Flume
 68 18 + 80 = SE end slab of N end Flume 12
 67 17 + 00 = N end slab
 66
 13 + 35 = SE end slab
 11 + 73 = N end slab

65 6
 64 5
 4 + 13 = S
 + 18 = SE end South back flume
 63 3
 62 2
 1
 61 + 10 = 15m
 60 0 + 00 = Tunnel 15

7 + 33 = Tunnel 3 N
 0 + 00 = Tunnel 2 S
 29 + 51 = Tunnel 2 N
 + 59 = SE end slab
 19 + 52 = SE end slab
 17 + 95 = King low Tunnel 2
 + 33 = $1\frac{3}{4}$ S
 0 + 00 = low 2 pr in 1 d
 59 + 56 = $1\frac{3}{4}$ N
 51 + 56 = $1\frac{1}{2}$ S
 50 + 73 = N end Tunnel $1\frac{1}{2}$
 25 + 32 = SE end slab
 23 + 56 = N end slab

18+66 = Slab S

18+18 = Slab N

16+97 = Slab S

16+73 = Slab N

14+50 = Slab S

11+58 = Slab N

8+89 = Slab S

7+65 = Slab N

+50 = circ culvert

5+10 = SS

5+72 = 5 N

0+10 = 4 S

20+09 = 4 N

19+41 = 3 1/2 S

18+96 = 3 1/2 N

0+10 = 3 S

4 8+28 = u - S

4 0+10 = John Furn N

42 64+75 = Johnson Furn N

41 48+96 = Slab S

48+38 = Slab N

3 44+10 stop 2-16-09

41+78 = Furn 14 S

36 39+97 = Furn 14 N

36

+97 = Furn 13 S

31+ 38+57 = Furn 13 N

30

30+02 = Slab S

29+63 = Slab N

27

27+26 = Slab S

26+147 = Slab N

72
42
74
120
298

7 36 + 19 concrete ends Rr
7 + 19 concrete ends Rr
6 + 22 concrete begins Rr
+ 50 concrete ends Rr
6 25 + 32 = concrete begin Rr
6

33 + 11 = End concrete in Rr (N)

+ 87 = Campo ring S

6 23 + 15 = Campo ring N
6

31 + 26 = Plm 17 S Campo ring

6 20 + 93 = Plm 17 N
6

+ 95 = Plm 16 S

6 11 + 55 = Plm 16 N
6

6 0 + 00 = Johna Plm S

+ 95 concrete ht ends

- 26 + 93 concrete Pt ends

46 + 26 = 5 1/2 S concrete bathhouse begin

45 + 58 = 5 1/2 N concrete in bathhouse ends

+ 65 concrete begin Rr

44 + 09 concrete begin Lt

→ 48 ends Rr Lt

42 + 10 begin Rr Lt

41 + 07 ends Rr Lt

+ 67 begin Rr Lt

40 + 04 ends Rr Lt

34 + 91 begin Rr Lt

- 457 ends Lt

8 + 82 begin Lt

38 + 01 ends Lt

+ 71 begin Lt

+ 50 concrete ends Lt

- 37 + 11 concrete begin Lt

+98 con ends Lt
 71 +41 con ends Pt
 70 4+32 con begin Pt
 69 3+84 con begin Lt
 6 2+30 con ends Lt
 67 +44 con ends Pt
 66 1+20 con begin RPH
 +31 con ends Pt
 +18 con ends Pt
 0+00 = From 185
 65 51+13 = From 185
 64 50+73 = From 185
 48+09 con Pt begin
 63 +73 con Pt ends
 62 +58 con Pt begin
 47+24 con Pt ends
 61 47+15 con ends Lt begin
 60 46+24 con ends Pt begin

+44 con ends Lt
 +39 con ends Pt
 - +21 con begin Pt
 12+15 con begin Lt
 9+11 con ends Pt
 9+05 con ends Lt
 - 5+28 con begin RPH
 +45 con ends RPH
 0+00 = From 185
 +73 From 185
 13+34 con begin RPH
 - +27 con ends Pt
 +38 con ends Lt
 14+09 con begin RPH
 +89 con ends RPH
 - 5+59 con begin RPH

71
70
69
68
67
66
65
64
63
62
61
60

+16 con end Lt

+10 con end Pt

0+00 = Plum S

+80 Plum N (shunt) 27'

+69 con begin Pt

+64 con begin Lt

+63 = con end Pt

+59 = con end Pt

0+00 = Plum S below

+75 Plum begin 13V sup Fergun

+65 con begin Pt

+60 con begin Pt

+57 con end Pt

+54 con begin Lt

+85 begin Lt

+81 begin Pt

+31 end Pt

+30 end Lt

10+12 con begin Pt

+79 end Pt

+58 con begin Pt

+43 con begin Lt

+26 con end both sides

9+16 con begin both sides

+64 con end both sides

8+48 con begin both sides

+32 con end Lt

+58 con end Pt

+59 con begin Pt

5+06 con begin Lt

+49 can begin both sides
25+09 can ends both side
24+16 can begin both side
+71 can ends both sides
25+45 can begin Pt

21+53 can ends Pt
+71 can begin Pt
20+63 can begin ht

+69 can ends ht
16+54 can begin ht

+54 can ends ht \times ↑ Feq. cut
14+48 can ends Pt
+72 can begin ht
+30 can ends ht & begin Pt
11+13 can ends Pt

45+38 = Bee can Fur N

44+20 can begin Pt
42+16 can ends ht

41+95 can ends Pt

+71 can begin Pt

39+62 can begin ht

36+16 can ends ht

36+11 can ends Pt

31+77 can begin both sides

30+26 can ends both sides

+68 can begin Pt

27+52 can begin ht

26+09 can ends both sides

17+49 can begin both sds

17 + 52 can end Lt

+ 97 can end Rt

16+10 can begin both sds

+ 74 can end both sds

+ 64 can begin both sds

+ 41 can end both sds

+ 30 Slab S

+ 27 slab N

13 + 15 can begin both sds

+ 27 can end both sds

+ 89 slabs

11 + 86 slab N

10 + 93 can begin both sides

+ 86 can end both sds

9 + 16 can begin both sds

2 + 45 can end both sds

0 + 00 = Bula P S

9+47 = end ditch Fauquier tier

7+19 = 571+75 wpa

00+00 = *6 S

24+17 = Tunnel 6 N

22+49 can end both sds

22+00 can begin Rt

21+73 can begin Lt


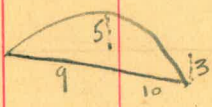
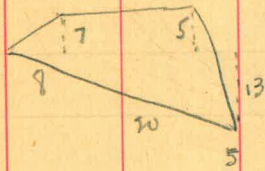
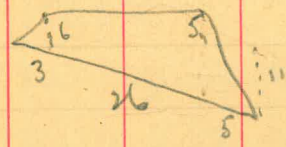








+ 64 can end Lt

20+56 can end Rt

14+54 can begin both sds

18+43 can end both sds

Wood on hand August 23¹² 1910
(crossing) Pile i

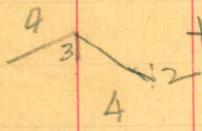

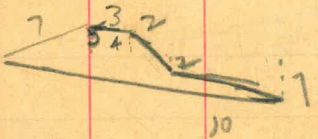
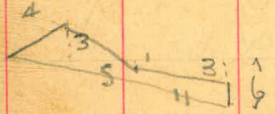







- Pile #1
- * 1  525
 - (20)  618
 - * 2  3275
 - (20)  2618
 - * 4  2135
 - (20)  2135
 - * 5  2135
 - (20)  2135
 - * 6  2135
 - (20)  2135
 - * 7  2135
 - (20)  2135

139

= 00

Morena Dam west, A. Barker

Pile #2

- * 1  +  693
- (20)  628
- * 2  56
- (20)  69
- * 3  69
- (20)  69
- * 4  69
- (20)  69
- * 5  69
- (20)  69

35

note 3 + 4 = 7 cords.

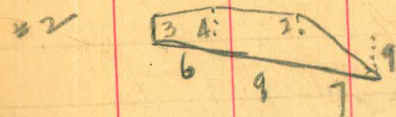
Measurement of wood

Morris Dam, Aug 24th 1910.

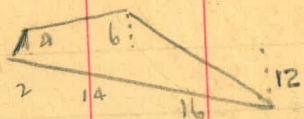
Along Camp Road

*1 = 90

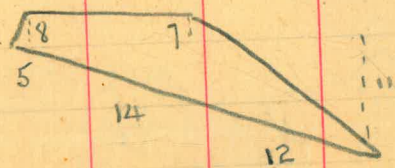
(2) = 118



(2) = 220



(2) = 277



(2) = 162



82

81

80

79

+94

+69

+41

+34

78

77

76

+83

75

74

73

72

71+33

= S End slabbin

= N End slabbin (6" thick)

= double gate & spill way

= S End Cable (3/16) Tunnel

= N End Cable Tunnel (3/16)

= S End 1/2 Tunnel

5

0

20

Ditch Measurements along Beam
Sta 0+00 (garage) working
south

25.6.11 3 End of Plume # 13 max 8.4
Vest

- 93 +85 = West Plume 6
- 92 (27.6)
- 91 +85 = SE end slab mid Blot
- +55 = West slab mid Blot
- 90
- 89
- 88
- 87
- +90 = Riv Br
- 86
- 85
- +78 = Sta 0+00 Garage lin
- +28 = SE end 1/4 (turntable) tunnel
- 84
- +51 = W end 1/4 (turntable) tunnel
- 83

5
0
2

9

8

7 = N end thru 7

6

5

4

3

2

+98

= $\frac{5}{16}$ S

+08

= $\frac{5}{16}$ N

0400

= $\frac{1}{2}$ S

+35

= N end $\frac{1}{2}$ Tunnel

98

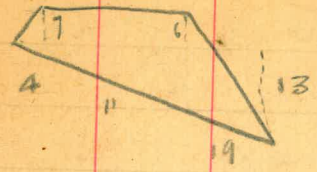
97

+02 = S end Banner Hwy

96

Wueste Barba

#6



240

(20)

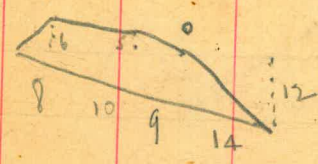
#7



1985

(20)

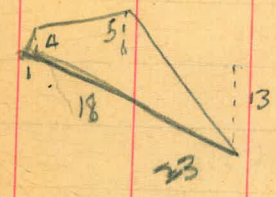
#8



280

(20)

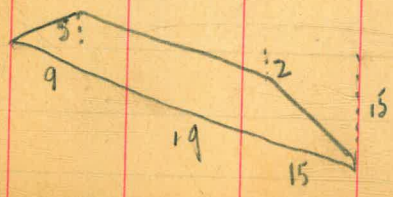
#9



2635

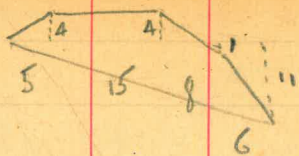
(20)

#10



2600

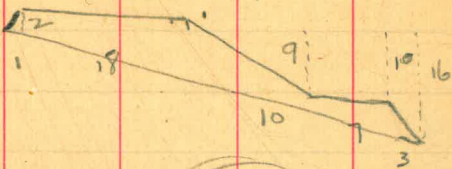
#11



2325

②

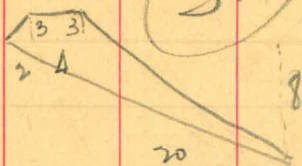
#12



1955

②

#13



72

②

#14

=

00

In River Bottom

$$5 \times 12 \times 23 = 1380 \text{ cu ft}$$

$$\text{add } \frac{1}{2} + 3 = 3\frac{1}{2} \text{ cords.} + 6 \times 6 \times 1 = 216 \text{ cu ft}$$

$$\begin{array}{r} 21 \\ 1380 \\ \hline 1390 \end{array}$$

at Banking House

#1

= 00.

②

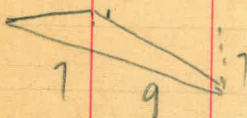
#2



195

②

#3



32

②

#4

③7

= 00

$$\text{add } 2 + 2 + 1\frac{1}{2} + 10 = 15\frac{1}{2} \text{ cords}$$

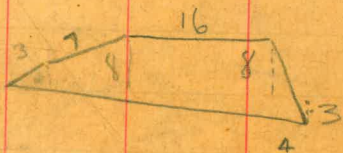
Pile just west of ford.

1

= 00

20

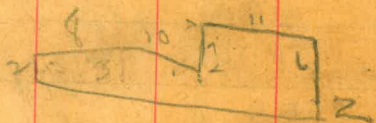
2



2295

20

3



1472

20

59 cords

4

= 00

At kitchen

2 cords

at bridge end

1 cord

Trolley bench

3 cords

On wagon

23 cords

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

FOR SINGLE TRACK EMBANKMENT.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.