Field Book #29

DOUGLAS COUNTY

IDA

FB 29

AP 11

FIELD BOOK

1303

29

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 20 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

Copyright, 1902. No. 39340.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	0
1	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	1
2	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	2
3	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	3
4	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	4
5	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	5
6	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	6
7	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	7
8	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	8
9	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	9
10	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	10
11	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	11
12	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	12
13	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	13
14	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	14
15	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	15
16	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	16
17	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	17
18	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	18
19	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	19
20	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	20
21	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	21
22	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	22
23	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	23
24	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	24
25	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	25
26	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	26
27	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	27
28	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	28
29	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	29
30	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	30
31	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	31
32	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	32
33	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	33
34	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	34
35	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	35
36	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	36
37	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	37
38	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	38
39	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	39
40	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	40

Calculated by F. E. Paradis, C. E.



Index of Book No 11

Name	Sec. or Cl.	Twp. Cor. Established	date	Page.
S.U. River. Irrig				1-4
Gardiner Mill Co.		21-12		5-7.
Schofield Nathan.	Cl #38.	21-12	Oct. 2. 1911.	7-15.
Umpqua bridge-Survey				16-25.

		Depth	#1 RPM	#2 RPM	Area
1	0+00	0.00			
2				6	19.89
3	0+18.5	2.15	13	11	
				17	22.00
4	0+29.5	1.80	20	24	
				19	19.68
5	0+41.5	1.48	16	17	
				15.5	18.90
6	0+54	1.32	15	14	
				13	12.80
7	0+64	1.25	11	11	
				7.5	14.70
8	0+78	0.85	4	2	
				4	8.36
9	+89.5	0.68	0	0	
			7 82.0 / 17.0		116.33
10	1+02	0.35	0	0	
			8		
11		0.10	0	0	
12	1+15	0.00	0	0	

Water Edge L Bank

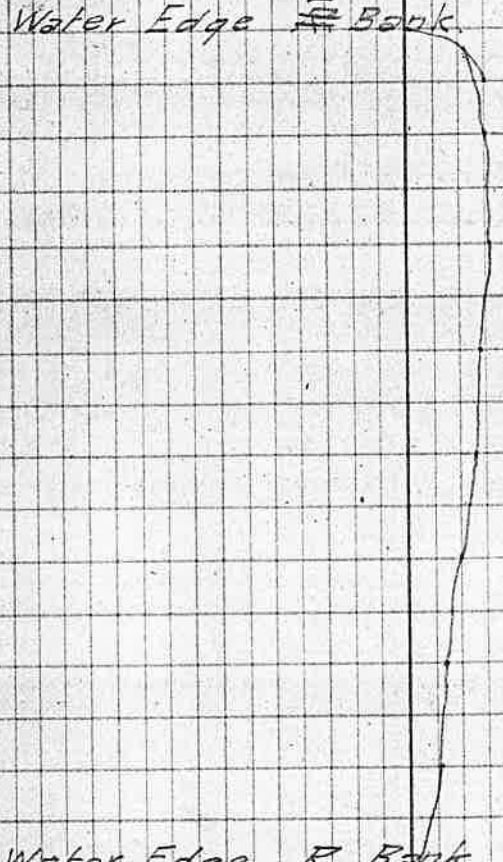
116
.52
232
580
60.32

Water Edge R Bank

M

South Umpqua River ½ Mile above Perdue.

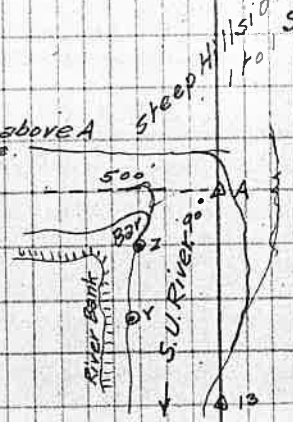
Sta	Depth	#1 R.P.M. 0.20 d	#2 R.P.M. 0.80 d.	# 4 R.P.M. 0.20 d	# 5 R.P.M. 0.80 d
0+00	0.00				
0+01	2.2				
+05	3.0	35	25	34	24
/					
+10	3.1	38	27	38	28
+15	2.95	37	24	37	23
+20	2.70	37	30	38	27
+25	2.00	36	25	38	24
+30	1.45	26	21	29	19
+35	1.10	15	11	16	11
+40	0.0				



A Stadia Survey up Left Bank of South Umpqua River from Sta 487 of Preliminary Survey for South Umpqua River Valley Irrigation District to Perdue Falls

Sta.		M.C.	V. ∠.	Rod.	
8	△	S75°15'W	+6°10'	1.15	
		S12°10'E	-7°04'	1.44	Water Edge L side of River.
		N26°30'W	+22°40'	0.78	On Rocky Pt. +45% slope above for 25 ft.
7	△	S72°15'W	+2°36'	1.76	
		N18°W	+26°30'	0.64	Top of Rocky Pt. then 5% for 100 ft. then +35° slope
6	△	S68°W	+0°19'	1.84	At Ft. of Rocky Pt.
		N55°00'W			Slope 4 to 1
5	△	S42°15'W	-1°07'	1.08	
		N67°00'W	+8°00'	1.00	} Same slope above
		N67°00'W	+2°58'	0.44	Ft. of Bench
		S67°00'E	-2°05'	1.36 ~~0.86~~	L Bank of River
4	△	S56°W	+0°33'	1.20	-4% To L. Bank of River
3	△	S47½°W	-0°03'	1.26	
		N80°W.	+11°00	2.00	
2	△	S16°45'W	-0°04'	1.94	-2% to L Bank of River
1	△	S6°05'W	-0°54'	2.80	
0+00 =	△	S36°E	-1°10'	1.62	487

Sta		M. C.	V. ∠	Rod.
		S 81° W	+ 2° 33′	5.10
		S 70½° W	+ 0° 08′	3.14
		S 63° W		
		S 7½° W		
		S 51¼° E		
13	△			
		S 67° W		
		S 27° W		
		S 39° 40′ E		
		N 72° 00′ E	− 0° 28′	2.60
		N 17° 30′ W	+ 9° 22′	0.64
		S 88½° W	− 0° 05′	1.60
12	△	S 87¼° W	− 0° 42′	0.58
11	△	S 4° 40′ E	− 22° 50′	1.40
		N 49° 30′ W	+ 4° 00′	1.05
		S 79° 30′ W	− 0° 18′	0.75
10	△	S 8° 30′ W	− 1° 51′	0.78
		S 28° E	− 24° 10′	0.45
		N 4° W	+ 22° 38′	0.41
9	△	S 83¾° W	+ 5° 42′	1.52
		S 12° 00′ E	− 16° 38′	0.40
		N 25° 00′ W	+ 18° 00′	0.70



H.W. Mark 9 Ft above 13 △

To Rock at water Level (Edge) at R Bank (N)
Bank 10' higher and 15' farther.
To Tree on R Bank 3' above water level and 5' from edge of water (Y)
Edge of water. Bank 12' Higher and 25' farther
To Tree on R. Bank 5' above water level and 20' back from (X)
16' L to Edge of Channel at Water Level
Ft. of steep Bank L side of River.
To point L Bank just above water level
Bed (Rock) of River ~~about to~~ 1.7 feet above water level

2 to 1 slope N 10° E
To L. Bank of River.
Rocky Point.

L. Bank of River

(this is a copy of the original NOTES 11/82 BS)

Survey for Gardiner Mill Co.

T. 21 S. R. 12 W. W. M.

East on S. bdy. of Sec. 32.

18.21	Set M. P. on Left bank of Umpqua River, from which.			
	A spruce 48" diam	b. N. 30° W.	30 lks.	
	" " 48" "	b. S. 45° E	30 "	
30.00	Ridge	c. N.E. and S.W.		
39.90	Stream 4 lks. wide,	c. N.E.		
40.00	Set gr. Sec. post from which.			
	A spruce 24" diam	b. N 36° W.	32 lks.	
	A hemlock 12" "	b. S. 38° E	51 "	
44.50	Ridge,	c W.		
49.00	Stream 4 lks. wide	c. N. W.		
80.00	Set post cor. of Secs. 4, 5, 32 & 33 from Which			
	A spruce 24" diam	b. N. 60° W	16 lks.	
	" " 20" "	b. S. 63° W.	33 "	
	" hemlock 12" "	b. N. 12° E	19	
	" " 24" "	b. S. 15° E	23 "	

North bet. Secs. 32 & 33.

1.00	Ridge	c. W.		
15.75	Stream 3 lks wide,	c. W.		
17.50	" 3 " "	"		
31.00	Ridge	N. W.		
40.00	Set gr. sec. post — from which.			
	A spruce 10" diam	bears	W. 4 lks	
	" " 4" "	"	N 30° E 2 lks.	

(Copy 11/82)
BL

00055

58.00 Stream 3 lks. wide, c. W.
80.00 Set post cor. of Secs. 28, 29, 32 & 33 from which
A. Hemlock 28" diam. bears N. 20° E. 55 lks.
" " 5" " " N. 35° W. 31 "
" " 9" " " S. 54° W. 39 "
" spruce 80" " " S. 38° E 12 "
West on true line bet. Secs. 29 and 32
31.30 To left Bank of Umpqua River; Set meander post, from which
An Alder 4" diam bears N. 6 lks
" " 4" " " S. 30° W. 6 "
North bet. Secs. 28 & 29.
6.50 Ridge c. N.W.
22.00 Stream 2 lks wide c. N.E. Enter swamp.
36.00 " 6 " " " N.W.
40.00 Set qr. sec. post. from which.
An Alder 6" diam. b. S. 35° E. 17 lks.
" " 12" " " S. 60° W. 22 "
46.00 Leave Swamp c. W.
56.00 Top of Hill.
67.00 Foot " "
72.00 Left Bank of Umpqua River, Set meander post, from which.
A Spruce 6" diam. b N. 61° E. 47 lks.
" " 48" " " S. 4° W. 535 "

(This is a copy of the orig)
11/62 CBL

N. 20° E.	5.85			
North	2.50			
West	0.58	to shore 1.42 East of Sec		
	Cor. Set post.			
80.00	Cor. Secs. 20, 21, 28 + 29 is in River.			
	— o —			
West	On true line bet. Secs 21 + 28.			
4.72	Shore of Grass Island.			
18.33	To Left bank of Umpqua River.			
(A)	Set post from which.			
	An Alder 6" diam b. North		4 lks.	
	" " 6" " " S. 2° W.		4 "	
22.00	Ridge c. N. + S.			
38.00	" c. N.			
40.30	Set qr. sec. post from which.			
	A hemlock 10" diam b. S. 70° W.		15 lks.	
	" " 50" " " N. 20° W		38 "	
65.00	Stream 6 lks wide c. N. W.			
79.18	To Left Bank of River, Set meander			
	post, from which.			
	A spruce 24" diam b. S. 89° E.		406 lks.	
	" " 48" " " N. 89° E		431 "	
80.60	To Sec Cor.			
	— o —			

Meanders of Left Bank of Umpqua River from M.P. (A) to S. bdy of Twp. M.P. bet Sec 21 + 28.

N. 9° E.	11.50	In Sec. 21
N. 11° W	23.10	"
N 32° W	4.00	
North	3.00	
N 22° W.	5.00	head of Marsh.
N. 77½° W	20.00	A flat c. N. W.
S 73° W	10.00	
S 27° W	25.00	
S 38° W	16.00	
East	4.00	Mouth of slough.
S 19° W.	13.50	To meander Cor. 21-28
South	4.00	In Sec. 28
S. 20° W.	4.20	To Meander Cor. 28-29
S. 10° W.	5.00	In Sec 29.
S. 56° W.	3.00	
S. 21° W	17.00	
S. 21° E	3.00	
S. 41° W.	3.00	
S. 25° E	2.00	
S 60° W	3.00	
S. 87° W	3.00	
S. 23° W	4.00	
S. 83° W.	3.00	

S. 45° W	5.00				
S. 20° W	5.00				
S. 15° E	5.00				
S. 2° E	3.00				
S. 34° W.	5.00				
N. 75° W.	5.00				
S. 45° W.	4.00				
S. 41° E	3.00				
S. 8° W.	3.00				
S. 69° E.	3.00				
S. 37° W.	3.00				
S. 13° E.	3.00				
S. 24° E	2.60	To meander Cor.			
S. 11° W.	11.00				
S. 57° E	2.00				
S. 52° W.	3.00				
S. 13° W.	5.00				
N. 63° W.	5.00				
S. 45° W	2.00				
N. 44° W.	3.00				
S. 74° W.	2.00				
S. 31° E	1.00				
S. 20° W.	5.00				
S. 27° W.	5.00				
S. 18° E.	3.00				

S. 35° W.	5.00	
S. 26° E	5.00	
S 6° W.	4.00	
N. 88° E	3.00	
S 8° E	3.00	
S. 62° E	3.00	
N. 45° E	2.00	
S. 59° E	6.00	
S. 2° E	3.00	
S 82° E	4.00	
S. 44° E	5.00	
S. 12° E	5.00	
S. 78° W.	3.00	
N. 26° W.	2.00	
S. 85° W	2.00	
N. 33° W	3.00	
S. 80° W.	4.00	
N. 41° W	3.00	
N. 80° W	3.00	
S. 53° W	5.00	
S. 41° W.	10.00	
S. 51° E	5.00	
S 8° E	6.10	To S. bdy of Twp.

This is a copy of the orig. survey. 11/82 RS

Lat. 43°43' N. Long 124° +
Var. 20°25' E. Approx.

Nathan Schofield Cl. 38. Not. 296.
642.68 As.
Commencing at S.W. cor., where drove iron bolt & marked Cl. 38 in rock at H.W. mark.
Headland of Winchester Bay brs. S 48°30' W.
N.E. Cor of Block House at Ft. Umpqua N. 43° W.
No bearing trees near.
Var. 19° E.

S. 71° E. 28.93 on true South bdy.
Stake S.E. cor. from which
Three spruce trees each 15" S. 71° E 52 lks.
Spruce 18" diam N. 22° E 48 lks.
" 24" " N. 71° W. 72 "

N. 22° E. 81.53 on true East bdy.
Intersect sec. line bet. Secs. 29 & 32
60 lks W. of Sec. Cor.

168.78 Intersect line bet. Secs. 21 & 28.
5.40 chns. W. of 1/4 Sec. Cor.

220.28 To N.E. cor. on shore of Umpqua River, marked a spruce 18" diam. bearing S. 22° W. 25 lks from true corner for a Witness Corner from which.

A spruce	10" diam	brs.	N. 80° W.	12 lks.
An alder	12" "	"	N. 73° W.	27 "
" "	10" "	"	S. 83° W.	21 "
" "	14" "	"	S. 73° E	5 "

Thence meanders down stream.

N. 73° W.	10.00	
S. 89° W	15.00	
S. 44°30' W	18.00	
S. 29°30' W.	15.00	
S. 18° W	12.00	
S. 15°30' W	14.00	To M.P. bet. Sec. 21 & 28
	24.00	
S. 21°30' W	20.00	
S 10° E.	9.00	
S. 64°30' W.	8.00	
S. 57°30' W.	7.00	
S 18°30' W,	9.00	
S 3°15' W	5.00	
S 11°30' W.	6.80	
S 83°30' W	6.80	
S 19° W.	4.00	
S 22° E	15.40	
S 49°30' W.	15.40	
S 31° W	9.00	
S 20°30' W	20.00	

S. 0°30'	W.	2.30				
S. 51°00'	E	2.80				
S. 12°00	E	5.00				
S. 81°	E	2.00				
S. 48°	E	10.00				
S. 39°	W.	9.00				
N. 62°	W.	5.00				
S. 73°30'	W.	4.00				
S. 41°30'	W.	3.00				
S. 76°30'	W.	2.00				
S. 47°	W	2.00				
S. 35°	W	0.78				
East		0.58	To point of beginning			

April 30, 1859.

Surveyed by Socrates Schofield.

00097

Survey of Tide Lands, N. Schofield
D.L.C. #38, T. 21 S., R. 12 W. Oct 2d 1911.

Sta	Bearing	Dist.
1		550
2		763
3		368
4		517
5		665
6		620
7		248
8		550
9		134
10		478
11		483
12		516

J. T. Henderson Marker.
Ernest Koepke } Chainmen.
C. C. Boyer }

On L. Bank of Umpqua R. near N. E. cor. of C38.

Sta.	Bearing
13	

{Intersect Sec. Line bet Secs 21 and 28,
T21S R12W. 2432 ft West of 1/4 Sec Cor.

Sta	Hub	Bearing	Rod	
	—	N78¾°W	9.39 6.20	
10	△	S30½°W	478	
	⌐	N50¾°W	6.39 4.22	
9	△	S12¾°E	1.34	
	⌐	N78½°W	1.47 0.97	
8	△	S17°20'W	550	
	⌐	N44¾°W	3.42 2.26	
7	△	S48°55'W	248	
	⌐	S.89½°W	3.03 2.00	
6	△	S26½°W	620	
	⌐	N44½°W	5.53 3.65	
5	△	S47°W	665	
	⌐	N40°50'W	3.33 2.20	
4	△	S24°20"W	517	36°22'L
	⌐	N69°W	4.39 2.90	
	⌐	N40¼°E	3.03 2.00	
3	△	S69°40'W	3.68	40°09'L
	⌐	N36½°W	8.33 5.50	
	⌐	N16½°W	7.12 4.70	
		N3½°W	4.15 2.74	
2	△	N70¼°W	763	32°40'L
	⌐	N0°15'E	3.79 2.50	
1	△	N37½°W	550	

Alder 15" diam bears S11¾°E 31 ft
Spruce 9" " S41° W 43 "

N55°15'E 103' to NE cor of C138

Sta	Hub	Bearing	Rod	
	•	N36¾°W	0.70	1.06
21	△	S58¾°W	1.65	
		S6½°W	1.50	2.25
		N65°W	0.25	.38
20	△	S27¼°W	7.32	
		N65°W	0.35	.52
19	△	S21½°W	2.64	
		N75°W	0.55	.84
18	△	S20¾°W	2.41	
		N40°W	0.25	0.38
17	△	S35¾°W	2.01	
		N70°W	0.45	0.68
16	△	S59°W	3.20	
	✓	N.80°W	0.50	0.76
15	△	S27°40'W	9.00	
	✓	N72¾°W	0.75	1.14
14	△	S17°50'W	7.95	
		S61½°W	2.72	4.12
		N58¼°W	2.80	4.24
13	△	S20°10'W	12.90	
	✓	N63°W	5.00	7.58
12	△	S20½°W	5.16	
	✓	N66¾°W	4.84	7.33
11	△	S4°20'W	4.83	

Variation 21° East from Sta 13

Course 20-21 across mouth of Cove, at 350' L.W. 100' L

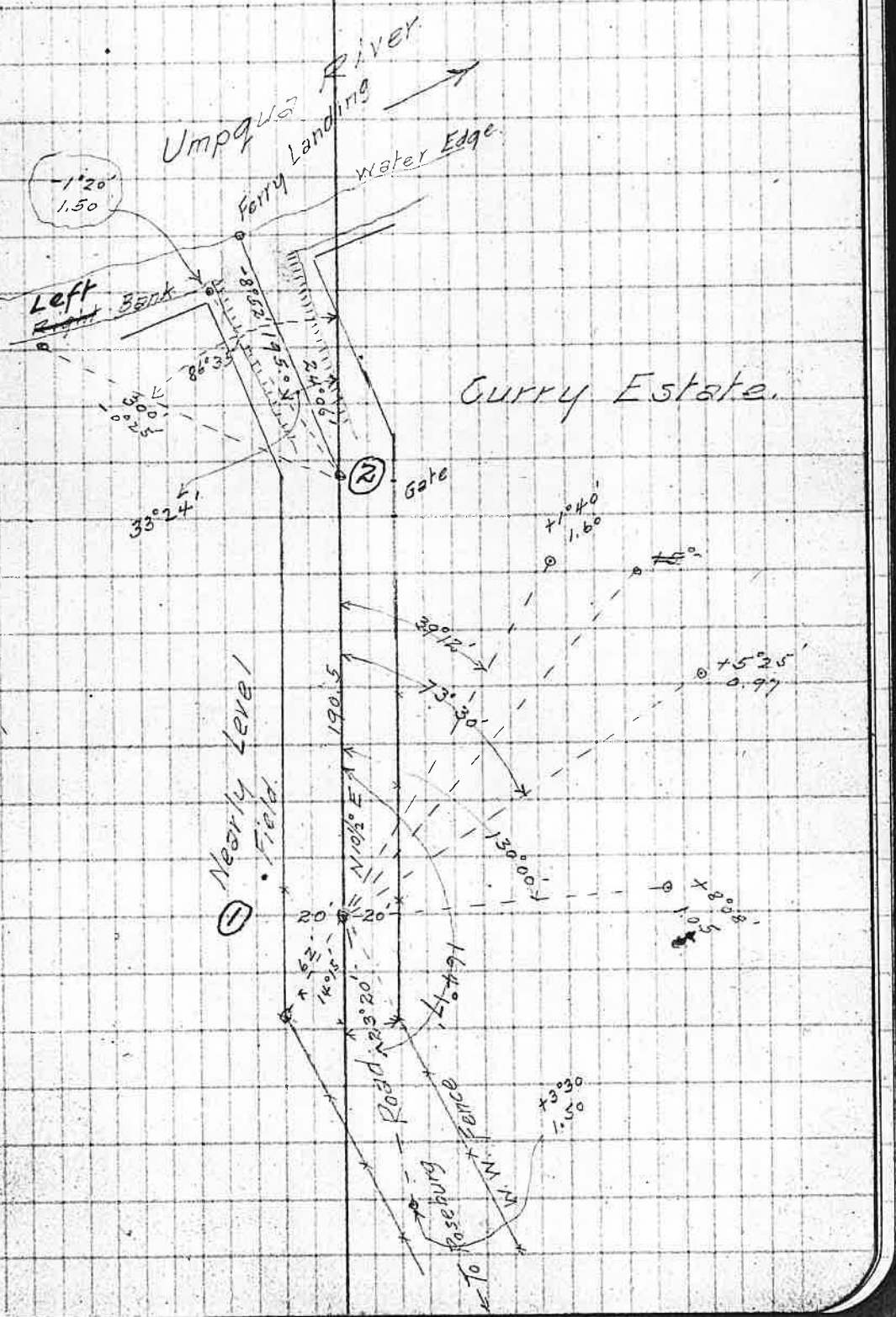
Along Bluff Bank

Sta.	Hub	Bearing	Rod.		
33	△	S 24 3/4° W	9.80		
		S 10 1/2° W	1.97	3.00	
		S 77° W	0.40	.61	
32	△	S 28° E	4.80		R. side of Cove
		N 67° W	0.10	15	
31	△	S 11° W	2.50		
30	△	S 19 3/4° W	8.70		
		N 66° 3/4 W	0.30	45	
29	△	S 23° 10' W	4.02		
28	△	S 30 1/2° W	4.70		
		N 56° W	0.25	.38	
		N 40 3/4° (E) W	6.20	9.39	
27	△	S 52° W	7.33		
		S 75 1/2° W	1.00	1.51	
26	△	S 8° E	5.75		26-28 across mouth of Cove
		West	0.15	.23	
25	△	S 15° E	4.22		
24	△	S 5 3/4° W	2.20		10' R. to M.L.T.
		N 65° W	0.20	30	
23	△	S 17 1/4° W	1.45		
		N 65° W	0.30	.46	
22	△	S 32 1/2° W	2.57		

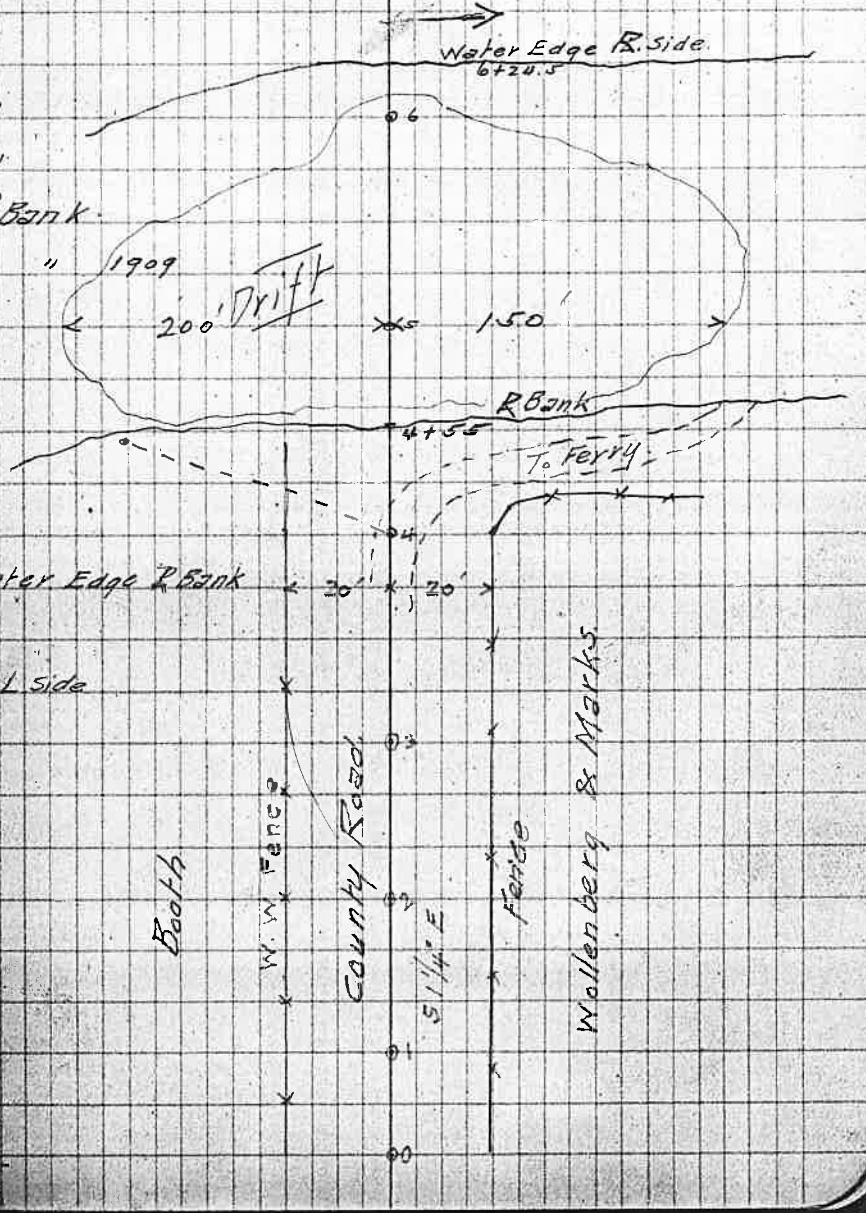
3° 53'

Sta.	Hub.	Bearing	Rod.	

Oct. 23d 1911

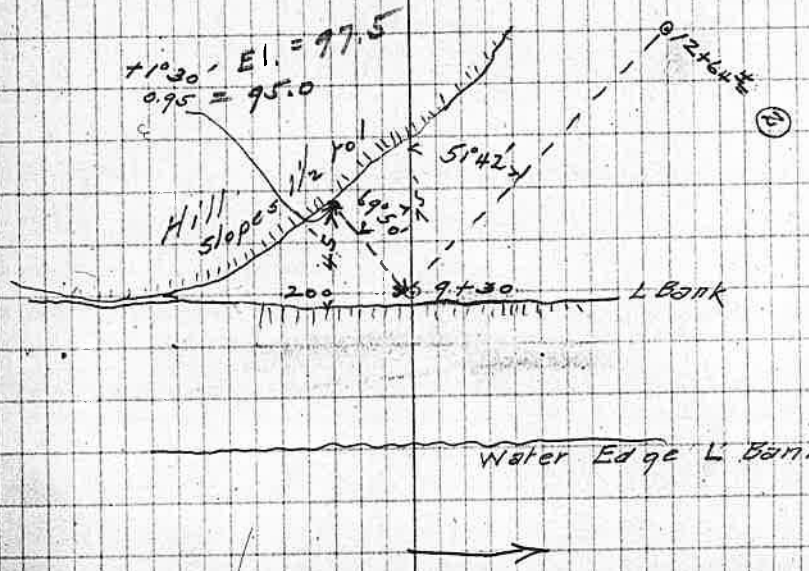

Umpqua River
Ferry Landing
Water Edge
-1°20'
1.50
Left
~~Right~~ Bank
-8°22'
175.0'
24°09'
86°35'
300'
-0.25
33°24'
Curry Estate.
Gate
(2)
+1°40'
1.60
39°14'
73°30'
190.5
+5°25'
0.97
N 10½° E
130.00'
+8°00'
1.05
Nearly Level
Field
(1)
20'
20'
162'
140.5'
Road
N 23°20' W
164.17'
Fence
+3°30
1.50
To Roseburg

Sta	+	=	−	R	E	
B.M.	2.52	102.52			100.00	Top of Post R Bank of River 20' L 4+50
0				5.0	97.5	Ctr of County Road
1				4.0	98.5	"
2				4.8	97.7	"
3				4.0	98.5	"
4				5.1	97.4	"
+55				6.9	95.6	R Bank
H.W.				6.8	95.7	" " 1909
0	4.11	94.88	11.75		90.77	
5				8.1	86.8	
⊙	−0.02	84.20	10.66		84.22	
6				3.6	80.6	
+11				8.7	75.5	
+24.5				16.1	68.1	Water Edge R Bank
B.M.	2.50	102.50				
0	7.46	104.73	5.23		97.27	On L Side
①				3.4	101.3	
② = 12+64.4				6.6	98.1	
12				5.6	99.1	
11				7.2	97.5	
10				8.9	95.8	
0	0.63	97.96	7.40		97.33	
9+30				3.2	94.7	
9+15				9.3	88.6	
0	0.68	86.80	11.84		86.12	



S	+	π	−	R	E
9+00		86.80		12.7	74.1
8+90				18.7	68.1

Water Level L. Bank



South from 9+30

	S31½°W	-4°45'	2.90	288	119.6
	S26¼°E	-0°50'	~~2.95~~ 2.47	~~495~~ 247	136.3 (140.0)
16+33	South	-3°08'	3.32		125.3
15+47	South	-4°02'	2.48		126.1
14+00 △					143.5
13+00 △	South	-1°38'	1.00		140.7
11+15 △	S¾°E	+5°04'	1.87		124.1
10+16		+3°02'	0.86		99.2
9+30 △	S1¼°E	+9°00	1.90		94.7

Ctr of Road E of (A)

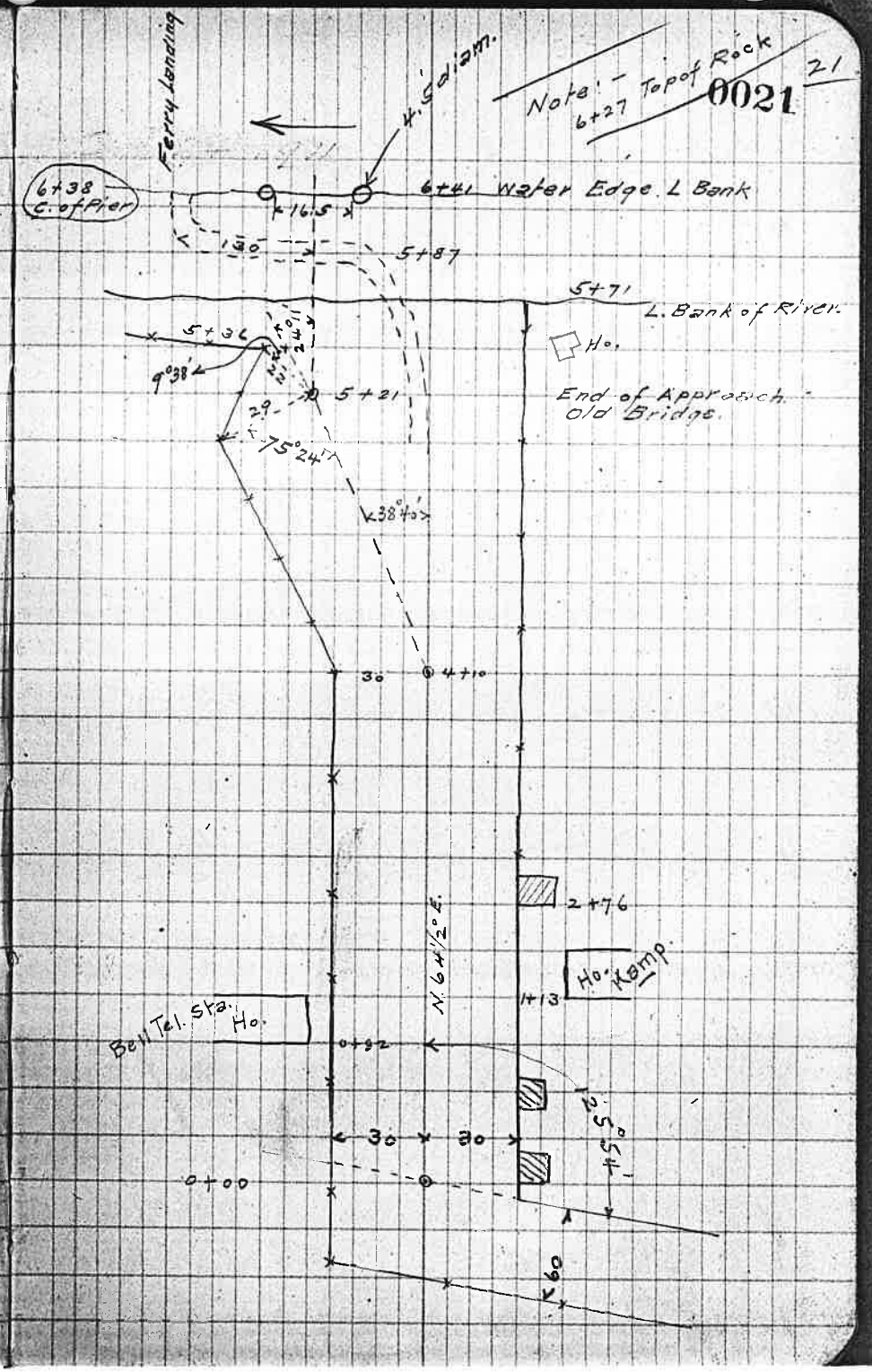
Ctr of Road (A)

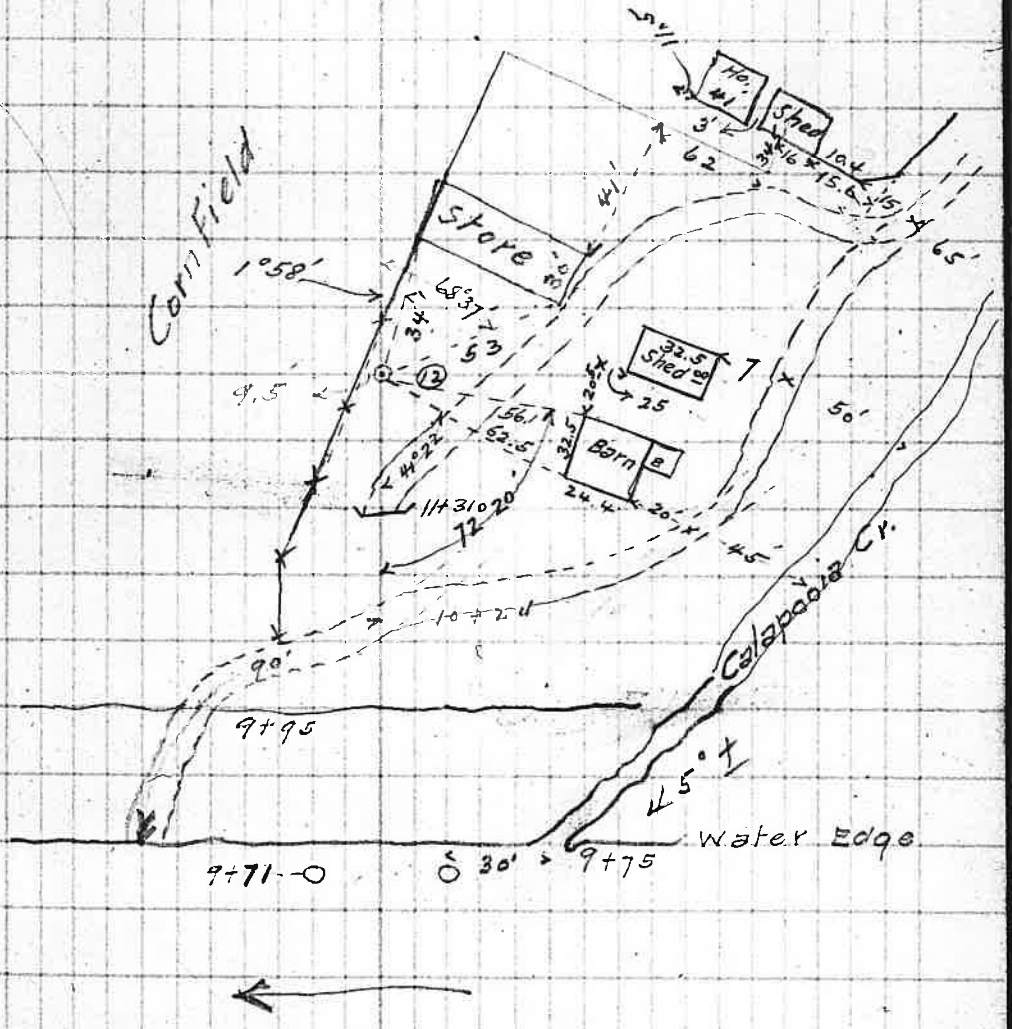
Foot of Cut

Soundings from Water Level.

		68.1	
6+50	5.6		62.5
7	8.4		59.7
+55	7.3		60.8
8	6.1		62.0
+50	6.5		61.6
+75	2.0		66.1

Umpqua Bridge




Ho. #1
Shed
3'
62
104
15.6
15
41'
Store
30
1°58'
Corn Field
68.37
34'
53
65'
32.5
Shed
20
25
50'
56.1
62.5
44°22'
32.5
Barn
8
24.4
20
11+31
20
72
45'
10+25
90'
Calapooia Cr.
9+95
5°
Water Edge
9+71
30'
9+75

Soundings from Water Level (157.8)

	Lower	Ctr	Upper	Lower	Ctr	Upper
9+50		5.8			152.0	
9+25		9.0			148.8	
9+00		9.7			148.1	
8+75		4.0			153.8	
8+50	3.3	5.4	7.7	154.5	152.4	150.1
8+25	3.5	6.2	9.1	154.3	151.6	148.7
8+00	8.8	11.0	11.3	149.0	146.8	146.5
7+75	11.2	11.1	11.1	146.6	146.7	146.7
7+50	11.0	10.9	11.2	146.8	146.9	146.6
7+25	10.9	11.0	11.0	146.9	146.8	146.8
7+00	11.2	11.2	11.2	146.6	146.6	146.6
6+75		12.00			145.8	
6+50		3.7			154.1	

Levels – Umpqua Bridge.

Sta	+	x	–	R	E	
0		205.11		6.5	198.6	
1				4.0	201.1	
2				4.0	201.1	
3				4.0	201.1	
4				4.7	200.4	
4+10				5.0	200.1	
5				5.5	199.6	
3+30				4.1	201.0	H.W. 1890 or 1891 according to Mr. Kamp
B.M.	5.11				200.00	Nail in 2d Pole (Tel) West of River (South side of)
5+21				5.3	199.8	End of West Approach
5+71				8.8	196.3	
Top of W. Piers				0.1	205.0	
⊙	2.24	195.91	11.44		193.67	
5+75				5.3	190.6	
5+87				11.6	184.3	
⊙	0.23	184.29	11.85		184.06	
6				5.3	179.0	
⊙ 7	1.33	174.56	11.06		173.23	
6+27				5.00	169.6	Top of Rock
6+40		Water Edge R side		15.1	159.5	Rock
6+41 ⊙	9.27	167.04	16.79		157.77	Water Edge L side
⊙	10.94	177.16	0.82		166.22	
	20.21		561			
9+85				8.0	169.2	
9.95				1.7	175.5	

Sta	+	K	−	R	E	
		177.16				
0	8.87	185.50	0.53		176.63	
10				8.2	177.3	
10+24				11.3	174.2	Ferry Road 8' wide.
10+50				4.0	181.5	
0	10.35	195.08	0.77		184.73	
11				7.0	188.1	
0	9.24	203.81	0.51		194.57	
11+31				5.6	198.2	End of East Approach.
11+50				5.6	198.2	
12				5.0	198.8	

Field Book No. 29

Pages 25A - 76 Blank

Sta	+	⊼	−		E
BM	1.99	101.99			100
6				4.6	97.4
7				5.0	97.0
8				2.4	99.6
0	10.52	111.96	0.45		101.44
9				8.1	103.8
10				3.1	108.8
0	5.60	117.38	0.18		111.78
11				4.0	113.4
12				5.7	111.7
13				11.4	106.0
0	1.42	107.34	11.46		105.92
14				7.3	100.0
15				12.0	95.3

Send J. T. Henderson, Gardiner.
Field Notes Dec 2, T. 21 S. R 11 W.
(J. Vincent)
Also Notes Dec 36, T. 21 S. R 11 W.
" " " 1, T. 22 S. R 11 "

Rush Clarke Millwood
Case + Emory Cleveland.

9/27	1 day Office.		
	R.R. Fare Roseburg to Drain		1.10
	Lodging (Drain)		50
9/28	Breakfast (")		50
	Dinner (Elkton)		50
	Stage & Boat Fare (Drain to Gardiner)		4.00
	Supper (Gardiner)		
	Hotel		10 00
9/5	Stage		3 50
	Miscel		1 90
			22 00
			19
			41 00

2 99
3.00
2.50
.50

$$\begin{array}{r} 2^\circ\ 04'\ 23.2'' \\ -\quad\ 6'\ 49.08 \\ \hline 1^\circ\ 57'\ 34.12 \\ \quad\ 1\ \ 4' \\ \hline 5\ \ 1^\circ\ 58'\ 38.12 \end{array}$$

4 SM (7 Hrs D)

$$\begin{array}{r} -58.44 \\ \quad\ 7 \\ \hline 60\overline{)409.08} \\ \underline{360} \\ 49.08 \end{array}$$

~~111~~ 11 - 4P

37 + 00

$$\begin{array}{r} 395 \\ 115 \\ \quad\ 7 \\ \hline 517 \end{array}$$

$$\begin{array}{r} 37^\circ\ 1' \\ 66.\ 3 \\ \hline 222 \\ 222 \\ \hline 2442 \end{array}$$

R. C. Purse
U. S. Geological Survey
Eugene Ore.

Aug. 21 Ck
1660 miners inches. Cow Creek

	-3.2 ✓	+1.2 ✓
	-3.7 ✓	+1.0 ✓
	-0.1 ✓	+8.8 ✓
	-2.1 ✓	+13.0 ✓
	-2.0 ✓	+15.0 ✓
	-56. ✓	39.0
	67.1	
	39	
	28.1	
Dept 8 Hr	Stage	$3.50
" "	Dinner	1.00
" 9	Days Crk.	2.00
" 9		
	26 5N/0 3	

Lat 43°07½

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.00	7.15	7.30	7.45	7.60	7.75	7.90	8.05	8.20	8.35	0
1	8.50	8.65	8.80	8.95	9.10	9.25	9.40	9.55	9.70	9.85	1
2	10.00	10.15	10.30	10.45	10.60	10.75	10.90	11.05	11.20	11.35	2
3	11.50	11.65	11.80	11.95	12.10	12.25	12.40	12.55	12.70	12.85	3
4	13.00	13.15	13.30	13.45	13.60	13.75	13.90	14.05	14.20	14.35	4
5	14.50	14.65	14.80	14.95	15.10	15.25	15.40	15.55	15.70	15.85	5
6	16.00	16.15	16.30	16.45	16.60	16.75	16.90	17.05	17.20	17.35	6
7	17.50	17.65	17.80	17.95	18.10	18.25	18.40	18.55	18.70	18.85	7
8	19.00	19.15	19.30	19.45	19.60	19.75	19.90	20.05	20.20	20.35	8
9	20.50	20.65	20.80	20.95	21.10	21.25	21.40	21.55	21.70	21.85	9
10	22.00	22.15	22.30	22.45	22.60	22.75	22.90	23.05	23.20	23.35	10
11	23.50	23.65	23.80	23.95	24.10	24.25	24.40	24.55	24.70	24.85	11
12	25.00	25.15	25.30	25.45	25.60	25.75	25.90	26.05	26.20	26.35	12
13	26.50	26.65	26.80	26.95	27.10	27.25	27.40	27.55	27.70	27.85	13
14	28.00	28.15	28.30	28.45	28.60	28.75	28.90	29.05	29.20	29.35	14
15	29.50	29.65	29.80	29.95	30.10	30.25	30.40	30.55	30.70	30.85	15
16	31.00	31.15	31.30	31.45	31.60	31.75	31.90	32.05	32.20	32.35	16
17	32.50	32.65	32.80	32.95	33.10	33.25	33.40	33.55	33.70	33.85	17
18	34.00	34.15	34.30	34.45	34.60	34.75	34.90	35.05	35.20	35.35	18
19	35.50	35.65	35.80	35.95	36.10	36.25	36.40	36.55	36.70	36.85	19
20	37.00	37.15	37.30	37.45	37.60	37.75	37.90	38.05	38.20	38.35	20
21	38.50	38.65	38.80	38.95	39.10	39.25	39.40	39.55	39.70	39.85	21
22	40.00	40.15	40.30	40.45	40.60	40.75	40.90	41.05	41.20	41.35	22
23	41.50	41.65	41.80	41.95	42.10	42.25	42.40	42.55	42.70	42.85	23
24	43.00	43.15	43.30	43.45	43.60	43.75	43.90	44.05	44.20	44.35	24
25	44.50	44.65	44.80	44.95	45.10	45.25	45.40	45.55	45.70	45.85	25
26	46.00	46.15	46.30	46.45	46.60	46.75	46.90	47.05	47.20	47.35	26
27	47.50	47.65	47.80	47.95	48.10	48.25	48.40	48.55	48.70	48.85	27
28	49.00	49.15	49.30	49.45	49.60	49.75	49.90	50.05	50.20	50.35	28
29	50.50	50.65	50.80	50.95	51.10	51.25	51.40	51.55	51.70	51.85	29
30	52.00	52.15	52.30	52.45	52.60	52.75	52.90	53.05	53.20	53.35	30
31	53.50	53.65	53.80	53.95	54.10	54.25	54.40	54.55	54.70	54.85	31
32	55.00	55.15	55.30	55.45	55.60	55.75	55.90	56.05	56.20	56.35	32
33	56.50	56.65	56.80	56.95	57.10	57.25	57.40	57.55	57.70	57.85	33
34	58.00	58.15	58.30	58.45	58.60	58.75	58.90	59.05	59.20	59.35	34
35	59.50	59.65	59.80	59.95	60.10	60.25	60.40	60.55	60.70	60.85	35
36	61.00	61.15	61.30	61.45	61.60	61.75	61.90	62.05	62.20	62.35	36
37	62.50	62.65	62.80	62.95	63.10	63.25	63.40	63.55	63.70	63.85	37
38	64.00	64.15	64.30	64.45	64.60	64.75	64.90	65.05	65.20	65.35	38
39	65.50	65.65	65.80	65.95	66.10	66.25	66.40	66.55	66.70	66.85	39
40	67.00	67.15	67.30	67.45	67.60	67.75	67.90	68.05	68.20	68.35	40

Calculated by F. E. Paradis, C. F

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 16 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	25.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Calculated by F. E. Paradis, C. E.