46

413

LEVEL BOOK.

No. ~~410~~

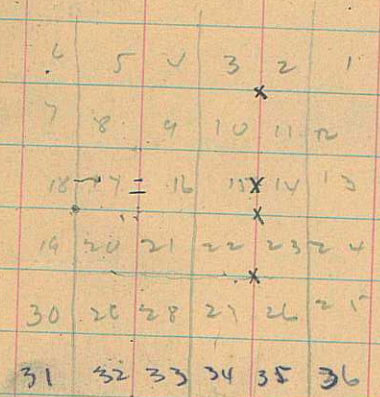
413

Water Meas.
Blacksm. Fork
pg. 145

1500
600
900,000

900,000 < 43500
870000 20.69
300,000
261000
390000
391500
20.69
8
2

PAY TO THE ORDER OF
FIRST SECURITY BANK OF UTAH, N.A.
LOCAL BRANCH
FOR DEPOSIT ONLY
EUGENE SCHAUB



1

Grades for Lewiston Drain

Sta	BS	FS	HI	Ele	HI
1				99.00	
2+78.00				97.68	
0				97.68	
0				97.68	
40				93.88	
0				97.68	
29				95.62	

over

2

RR on S. Cut fill.
West of Bank
at Bank Cor
o/o from Bank West
mc. to .04+52 o/o.
at Bank intersection
east of Bank 0.95 from
from Bank, east to Sta 40
S. 0.07103 to Sta 29
on S. of Bank.
from Sta 29 to end of
Drain on S. .04+75 o/o.

Lolar No 4889

3

Sta	BS	FS	HI	Elev	HT	or grd RR or Sta	Cut	fill
	3.757			100.65	104.407	Bank stop		
0				100.00		on peg at phone pole		
0			6.737 .095	97.68		4.00	2.72	
1			6.8120 .0950			4.50	2.31	
2			6.9070 .0950			4.22	2.68	
3			7.0020 .0950			4.09	2.91	
4			7.0970 .0950			4.15	2.944	
5			7.1920 .0950			4.65	2.54	
TP 6		7.287	7.2870	97.120		4.194	3.093	
TP 6	6.571		6.5710 .095		103.691	3.478	3.093	
7			6.666 .095			3.47	3.120 3.47	
8			6.761 .095			4.05	2.71	
9			6.856 .095			4.23	2.62	
10			6.951 .095			3.98	3.00	
11			7.046 .095			4.62	2.42	
12			7.141 .095			5.95	1.19	
TP 13		7.236	7.236	96.455		5.758	1.478	
13	6.286		6.286		102.741	4.808	1.478	

100
3.657
3.317
104.407
97.68
6.727

3.757
6.5
4.407

4

Sta	BS	FS	HI	Elev	HT	RR on slope or grd.	cut	fill
TP 13	6.286		6.286		102.741			
			.095					
14			6.381			4.23	2.15	
			.095					
15			6.476			4.22	2.25	
			.095					
16			6.571			4.35	2.12	
			.095					
17			6.666			4.10	2.56	
			.095					
18			6.761			3.88	2.88	
			.095				c3.	
19			6.856			3.90	2.95	
			.095					
20			6.951			3.48	3.47	
			.095					
TP 21		7.046	7.046	95.695		2.984	4.062	
21	8.419		8.419		104.114	4.357	4.062	
			.095					
22			8.514			5.22	3.29	
			.095					
23			8.609			4.82	3.79	
			.095					
24			8.704			4.40	4.30	
			.095					
25			8.799			5.56	2.34	
			.071					
25+75			8.870			4.20	4.67	under Canal
26+28			8.920			6.22	2.7	West end of box 1
27			8.9890			5.42	3.57	
			.095					
TP 28			9.084					

7

going east of Bank corner

Sta	BS	FS.	cm	Ele	HI	RR on stake	Cut
TP28		9.084	9.084	95.03	104.114	4.875	4209
28	8.705		8.705		103.735	4.496	4.209
29			.095			4.26	4.55
			8.800				
30			.095			4.56	4.33
			8.895				
31			095			5.00	4.00
			8.990				
32			095			4.79	4.29
			9.085				
33			.095			4.68	4.50
			9.180				
34			.095			4.40	4.87
			9.275				
35			.095			4.24	5.13
			9.370				
TP 36		9.465	095	9427		4.408	5.057
			9.465				
36	8.790		8.790		103.06	3.733	5.057
37			.095			4.20	4.68
			8.885				
38			095			4.50	4.48
			8.980				
39			095			4.72	4.25
			9.075				
40			.095			4.35	4.82
			9.170				
41			.095			4.50	4.96
			9.265				
42			.095			5.06	4.30
			9.360				
43			.095			6.00	3.45
			9.455				
44			095			5.46	4.1
			9.550				

8

Levels and grade Drains on Lewiston Nov. 1/06

Sta	BS	FS	Int	Ele	HI	RR on Stake or ground	cut.
Bm	3.405			100.65	104.055		
0			6.3750	97.68			
			.1360				
28+78			6.2390			4.170	2.07
			.0475				
27+			6.1915			4.28	1.91
			.0475				
26+			6.1440			4.38	1.76
			.0475				c2
25+			6.0965			4.15	1.94
			.0475				c 1.3
24+			6.0490			4.72	1.33
			.0475				C.1.7
TP 23+		6.001	6.0015	98.054		4.307	1.6945
23	6.5425		6.5425		104.596	4.848	1.6945
			.0475				
22+			6.4950			5.20	1.25
			.0475				
21+			6.4475			4.18	2.26
			.0475				c.1.9
20+			6.4000			4.55	1.85
			.0475				
19			6.3525			4.46	1.89
			.0475				
18			6.3050			4.43	1.89
check on Bm			.0475				c1.6
17			6.2575			4.70	1.55
			.0475				
16+			6.2100			4.52	1.69
			.0475				
TP 15		6.1625	6.1625	98.434		4.267	1.8955
15	6.0755		6.0755		104.509	4.1800	
			.0475				
14			6.0280				

o/o.0475

note: cut in cent. of St. 2 was 2'0" - 2 ft

on first Step to Bank on grade additional this was raised 0.1'

(C. means called

Going West from Bank

Sta	B.S.	F.S.	int.	Ele		RR on Stake or Hub	Cut.	(C.S.) means called the same (C means called)
14+								
		60280						
		.0475						
13+		5.9805		104.509		4.40	1.62	
		.0475						
		5.9330				4.22	1.76	
12+		.0475					C.1.93	
		5.8855				4.00	1.93	
		.0475						
11+		5.8380				3.95	1.93	
		.0475					C.2	
		5.7905				3.86	1.97	
10+		.0475					C.S.	
		5.7430				4.25	1.54	
		.0475						
9+		5.6955				4.43	1.31	
		.0475						
		5.6480				4.21	1.48	
8+				98.861				
TP 6+	5.648					3.973	1.6750	
6+	4.415	4.4150		103.276				
		.0475				2.740	1.675	
5		4.3675					C.S.	
		.0475				2.98	1.43	
4		4.3200						
		.0475				2.90	1.42	
3		4.2725						
		.0475				3.42	0.9	
2		4.2250						
		.0475				4.33		fill .1
1		4.1775						
	4.81			98.466		4.08	.1	

cor cor Stone

Sta	B.S.	FS	im	Ele	HI	RR on Stake or Hub	Cut.
Bm	2.257			100.65	102.907		
0			5.2270	97.68			
			.0710				
1			5.298			3.25	2.0 C
			.071				
2			5.369			3.1	2.26
			.071				
3			5.440			3.78	1.66
			.071				
4			5.511			4.41	1.1
			.071				
5			5.582			4.30	1.28
			.071				
6			5.653			3.49	2.20
			.071				
7			5.724			3.65	2.1
			.071				
8			5.795			3.87	1.92
			.071				
TP 9		5.866	5.866	97.041		4.107	1.7590
9	5.799		5.7990		102.840	4.04	1.759
			.071				C
10			5.870			4.73	1.15
			.071				
11			5.941			4.37	1.57
			.071				
12			6.012			4.60	1.41
			.071				
13			6.083			4.52	1.56
			.071				
14			6.154			5.10	C 1.
			.071				
15			6.225			4.64	1.58

$\frac{2}{0} = 0.07103$

15

Sta	BS	FS	HI	Elev	RR or Stake or Hub	Cut
15			6.225	102.84		
			.071		4.64	1.58
16			6.296			
			.071		4.87	1.42
17			6.367			
			.071		5.00	1.36
TP 18		6.438	6.438	96.402		
					4.434	2.004
18	6.062		6.062	102.464		
			.071		4.058	2.004
19			6.133			
			.071		4.81	1.32
20			6.204			
			.071		5.20	1 C
21			6.275			C 1.1
			.071		5.19	1.08
22			6.346			
			.071		5.22	1.12
23			6.417			C.S.
			.071		5.38	1.04
24			6.488			
			.071		5.63	.86
25			6.559			
			.071		5.52	1.04
TP 26		6.63	6.630	95.834		C 1.05
					5.583	1.047
26	6.994		6.994	102.828		
			.071		5.947	1.047
Bm 27			7.065	95.834		CS
			.071		4.93	2.13
28			7.136			
			.071		5.21	1.72
29			7.207			
			.0475		5.26	1.84
30			7.2545			
					5.02	2.23

16

17

Sta	BS	FS	HI	Ele	HI
30			7.2545		102.828
			.0475		
31			7.3020		
			.0475		
32			7.3495		
			.0475		
33			7.3970		
			.0475		
34			7.4445		
			.0475		
TP 35			7.4920		95.336
35			5.8400		101.172
			.0475		
36			5.8875		
			.0475		
37			5.9350		
			.0475		
38			5.9825		
			.0475		
39			6.0300		
			.0475		
40			6.0775		
			.0475		
41			6.1250		
			.0475		
42			6.1725		
			.0475		
43			6.2200		
			.0475		
44			6.2675		
			.0475		
TP 45		6.315	6.3150		99.857
45	4.625		4.6250		99.482

RR or Elec	Cut
4.2	
4.28	3.07
4.69	c2.7 2.66
5.08	c2.3 2.31
5.36	c 2.1
5.325	2.167
3.673	2.167
4.80	c1.1 1.08
4.82	1.11
4.63	c1.4 1.35
4.36	c1.7 1.67
4.52	c1.6 1.55
4.56	c1.6 1.56
5.17	1'
5.00	1.22
5.00	c1.3 1.26
5.537	c.8 0.778
3.847	

18

101.172
6.315
94.857
4.625
99.482
96.26
3.222
2.165
.57

19

Sta	BS.	FS	HI	Ele.	RRon Stake	cut	fill
45			4.625	99.486		0.778	
			0475			C.4	
46			4.6725		4.20	0.37	
			.0475				
47			4.7200		4.12	0.60	
			.0475				e.2
48			4.7675		4.02	.16	
			.0475			C.34	
49			4.8150		4.47	0.34	
			.0475				
50		(2.65)	4.8625	(.570)	4.15	.71	
			.0475			C.1	
51			4.9100		3.80	1.11	
			.0475			C 1.6	
52			4.9575		3.30	1.65	
			.0475			1.6	
53			5.0050		3.43	1.57	
			.0475				
53					2.73	2 27	
54			5.0525		4.10	1.90	
			.0475			C.6	
55			5.1000		4.45	0.65	
			.0475				
TP 56		5.147	5.1475	94.335	4.633	0.514	
56	7.681		7.6810	102.016	7.167	0.514	
			0475			C.1	
57			7.7285		6.65	1.07	
			.0475			C2	
58			7.7760		5.70	2.07	
			.0475			2.1	
59			7.8235		5.73	2.09	
			.0475				
60			7.8710		4.95	2.9	
			.0475				
61			7.9185		5.38	2.53	

20

21

Sta	BS	FS	HI	Elev	HT
61			7.9185		102.016
			.0475		
62			7.9660		
			.0475		
63			8.0135		
			.0475		
64			8.0610		
			.0475		
65			8.1085	94.06	
		Pm 3 21	.0475		
66			8.1560	93.86	
			.0475		
TP 67			8.2035	93.813	
67			8.0980		101.911
			.0475		
68			8.1455		
			.0475		
69			8.1930		
			.0475		
70			8.2405		
			.0475		
71			8.2880		
			.0475		
72			8.3355		
			.0475		
73			8.3830		
			.0475		
74			8.4305		
			.0475		
75			8.4780		
			.0475		
76			8.5255		
			.0475		
TP 77			8.5730		

Drover

22

RR ox stake Cut fill

4.85	3.11
4.83	3.18
5.1	2.96
5.36	2.74
5.1	C.3 3.05
5.278	2.935
5.173	
5.20	C.2.9 2.94
5.00	3.19
4.93	3.31
4.90	3.39
5.29	3.04
5.53	5 2.85
5.25	3.18
5.17	3.30
5.47	C.3 3.05
5.337	3.236

cut 7.6 fet to Low

102.016
3.21
6
3.80
98.

Trail Levels
Between 29 and 49
to tract Small error of .57

Sta	BS	FS	HI	Ele	HI
	5.246			96.881	102.127
29			#903 97.224		
		5.338			
~~49~~	4.549				
49	9.795			6.609	
	~~49~~	4783			
		10.121			
		9.795			
		.326			

Sta

on Stone NE of SE¼ 20 C 8 T 10 N R 4 E

~~on Hub~~

on Hub

25

Sta	BS	FS	HI	Elev
TP 77		8.5730	93438	101.911
77	8.918			
		8.9180		102.356
		.0475		
78		8.9655		
		.0475		
79		9.0130		
		.0475		
80		9.0605		
		.0475		
81		9.1080		
		0475		
82		9.1555		
		.0475		
83		9.2030		
		.0475		
84		9.2505		
		.0475		
85		9.2980		
		.0475		
86		9.3455		
		0475		
TP 87	9.393	9.3930	92963	
87				
		9.2860		102.249
		.0475		
88		9.3335		
		.0475		
89		9.3810		
		.0475		
90		9.4285		
		0475		
91		9.4760		

16

RP on Stake	Cut	fill
5.337		3.236
5.682		3.236
		C 3.1
5.9		3.06
6.		3.01
		C 3.6
5.51		3.55
		C 3.5
5.65		3.45
732		
5.83		3.32
		in trench
5.62		3.58
		C 3.6
5.70		3.55
5.50		3.79
5.18		4.16
		S
4.915		4.478
4.808		4.478
4.70		4.63
4.70		4.68
6.95		
5.20		4.22
		in trench
		C 5
4.42		5.05

9.43
6.95
2.48

Sta	BS	FS	HI	Elev	HT
91			9.4760		102.249
			.0475		
92			9.5235		
			.0475		
93			9.5710		
			.0475		
94			9.6185		
			.0475		
95 DMM			9.6660		
			.0475		
96			9.7135		
			.0475		
97			9.7610		
			.0475		
TP 98		9.8085	9.8085	92.44	
98	9.248		9.2480		101.689
			.0475		
99			9.2955	92.394	
			.0475		
100			9.3430		
			.0475		
101			9.3905		
			.0475		
102			9.4380		
			.0475		
103			9.4855		
			.0475		
104			9.5330		
			.0475		
105			9.5805		
			.0475		
106			9.6280		
			.0475		
107			9.6755		

R/Rom on Stake	Cut	fill
4.42	C 5.05	
5.35	C 4.2 4.17	
5.46	4.1	
5.29	4.32	
5.64	4.02	
4.87		
5.40	4.31	
5.35	4.41	
5.668	4.140	
5.108	4.14	
4.40	4.89	
4.18	5.21	
4.25	5.18	
4.54	C 4.9 4.94	
4.83	4.70	
5.08	4.50	
4.90	4.72	
4.71	C 4.96	

102.259
4.82
97.429

Sta	BS	FS	HI	Ele	HI
107			9.6755		101.689
			.0475		
108			9.7230		
			.0475		
TP 109		9.7705	9.7705	91.919	
109	9.588		9.5880		101.507
			.0475		
110			9.6355		
			.0475		
111			9.6830		
			.0475		
112			9.7305		
			.0475		
113			9.7780		
			.0475		
114			9.8255		
			.0475		
115 BM	left out		9.8730		
116			.0475		
			9.9205		
117			.0475		
			9.9680		
118			.0475		
			10.0155		
119			.0475		
120		10.0630	10.0630	91.444	
120	7.547		7.5470		98.991
			.0475		
121			7.5945		

RRon Stake	Cut	fill
471	4.96	
480	4.92	
4.372	5.398	
4.190	5.398	
	C5	
4.65	~~4.98~~	
4.70	4.98	
476	4.97	
	S	
5.11	4.66	
	C4.6	
5.19	4.63	
4.460	C5	
4.9	4.97	
5.21	471	
5.38	4.58	
	C3.6	
6.45	3.56	
5.663	4.40	
3.147		
3.71	4.40	

100.507
4.46
96.047

Sta	BS.	FS	Inst Ele	H.I.
121				
		7.5945		98.991
122		.0475		
		7.6420		
		.0475		
123		7.6895		
		.0475		
124		7.7370		
		.0475		
125		7.7845		
		.0475		
126		7.8320		
		.0475		
127		7.8795		
		.0475		
128		7.9270	91.064	
128		6.880		97.944
		.0475		
129		6.9275		
		.0475		
130		6.9750		
		.0475		
131		7.0225		
Bm				
			90.412	

RR in Sta.	Cut
3.21	4.40
3.42	4.20
4.22	C 3.4 3.46
4.38	C 3.3 3.35
4.35	3.43
4.52	3.21
4.52	3.36
4.697	3.230
3.650	3.230
355	3.39
431	2.66
5.320	1.82
7.532	

Add/sec cut

Sur for J. J. Handy at Franklin Idaho

Com at pt 33.75 rods S of NW cor sec. 28 Tp 16 S. R 40. of Boise meridian

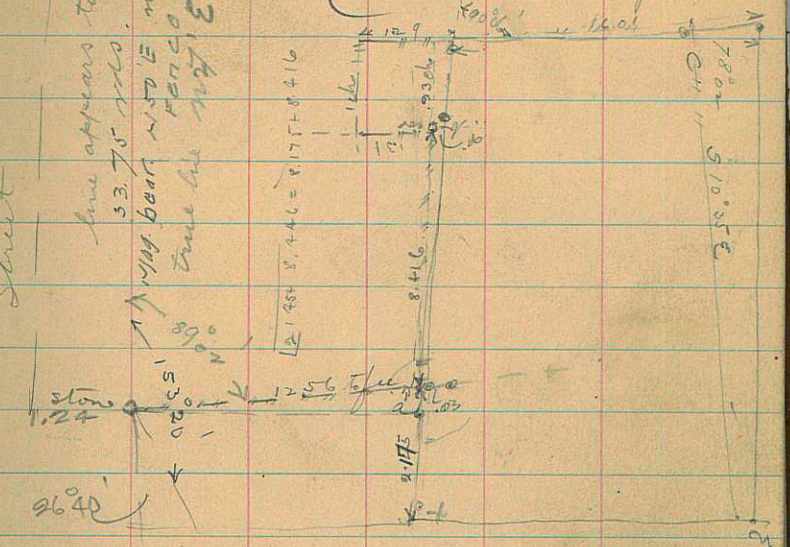
Thence

List	Courses mag	∠ angle	R
12.56	N 89 45 E	90°58	var. 17°10' 93°02 to fence
2.175	S 3°05 W		
12.56	~~S 3°05 W~~ var	88°13	to fence a
8.416	N 1°10 E	91°48'	note pt at b should be 33 to fen
1.31	S 88°45 W		
12.56		88°13	
8.416			from pt d to corner
9.346			90°06' to fence
16.01 but fence's	S 88°55 E		98°02' to fence c
91.69 but fences	S 10°35 E		101°41'
18.48	N 89°25 W		91°58 to pt a

mag var held on needle. 18° E.

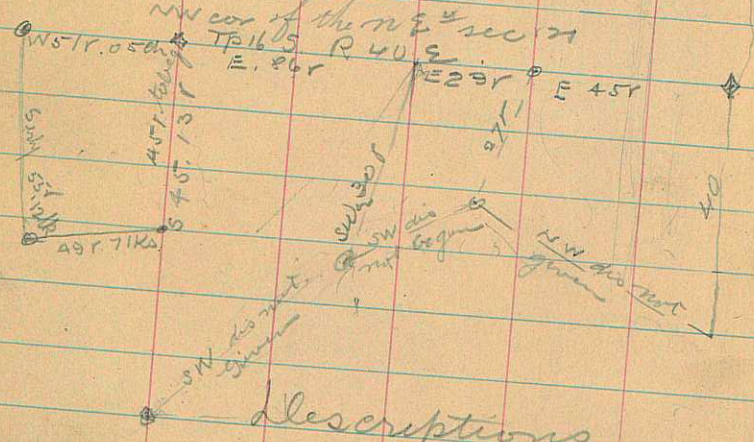
nw cor sec 28 TP 16 S Rge E of Boise Mer.

Sun Ob { time 10 40 am, h = 29°23, D = 14°39, Lat = 42°02 ap



39

Sur for Bert Hawkes,
Nov 2/06
Franklin Idaho



descriptions

Beg at the NW cor (a stone) mag var 17° 37' E
of the NE¼ of sec 21. T 16 S
Range 40 E. of Boise Mer.
thence
Dist Course angle
8.21 a 8 to pt S 88° 10' W subject to cor. ob.
8.94 " "
8.218 a 52° 09
1 ch S 37° W

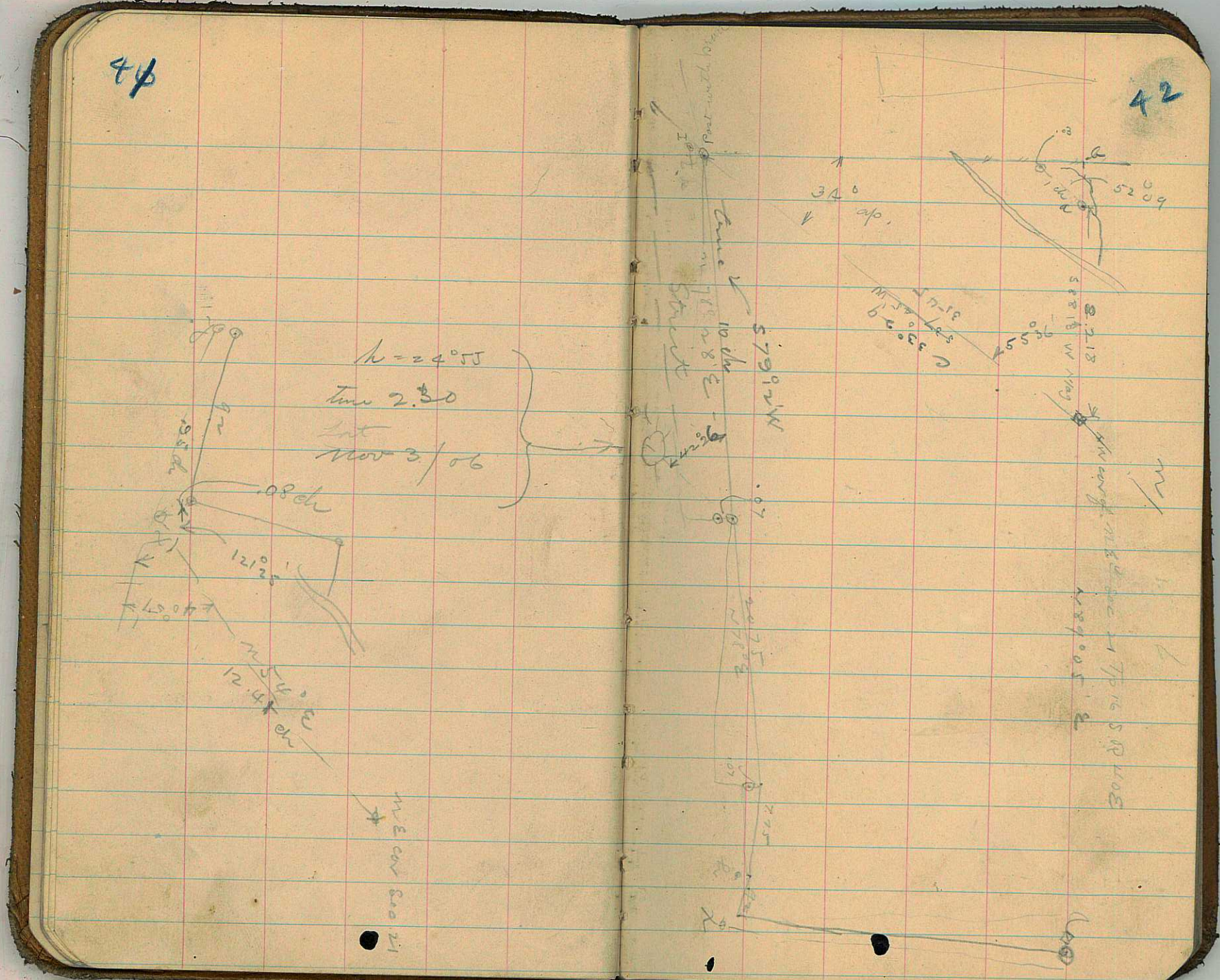
see sketch over

17960
0 21
8839

40

on N line of Sec.
to west line at fence

To pt .03 chains E of fence



Dist	Course	angles L	R
1 ch	S 37° W		
	Beg over again on said cor		
	Thence		
		5°36	
15.84	S 37° 45' W		
15.92	" "	134° 17'	
	N 79° 12' E		
10 ch	N 78° 38' E	00° 31'	
20.75	N 78° E		4° 26'
7.75	N 82° 15' E		12° 27'
.92	S 85° 15' E	88° 5'	
5.09	N 6° E		77° 9'
1 ch	N 83° 31' E	47° 43'	
3.70	N 36° 10' E	18° 35'	
1 ch	N 17° 25' E		15° 34'
3.95	N 33° 10' E		

note Set on ✓ B Stone

40° 57'

12.41 N 54° E

2 14
1 80
3 4

to SW cor of land a post with brass
to begin Sr.
along north side of Sr.

to fence on E side
to fence

to approx pt 20 rods on N side
N of Sec

to NE cor Sec. 21

75

Cor of Handy Sur

3.44 33.75 W

Beg at a pt, S 27 W from mMa Cor Sec 28.

Dist	Course	angles L	R
3.44	N 87° 39 E		
1.256	"		
3.235	N 1° 03 E		

also Beg at x as fixed by co's to a pt

9 ch	N 88° 57 W	89.3	
1.69	N 37' E		
	N 45 E		
3.71	S 89° 29 W		
.25	N		

from 24 ch to a pt S 89° 29 W of beg

46 13.81
3.46

1.68
25
1.9 34

8894
8857
.37

8.9037
33
91.07

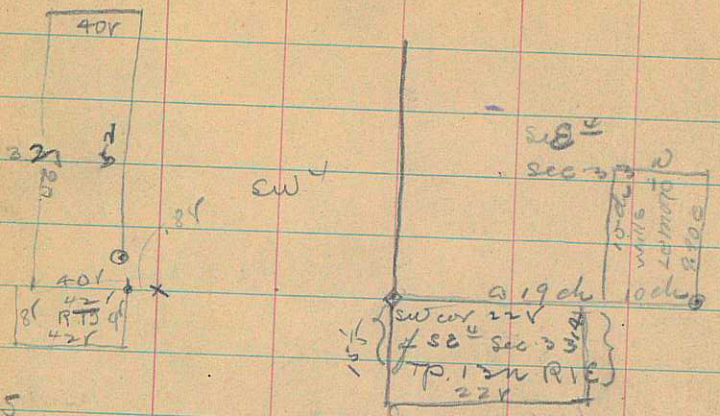
to fence check

to one diversion line

to fence

to St. E side

97



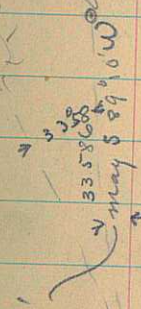
Lev for Sec 4
Smithfield
James Mulligan

Ob { ch = 11 12'
time 4 03 pm
on Tp line

11/8/06

Leg at SE cor Sec 33
course ↓ angle R

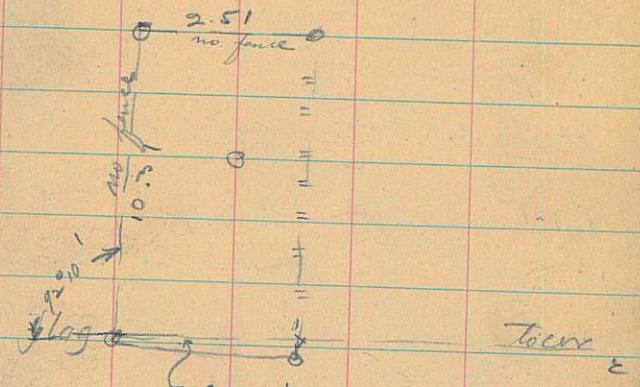
33.586 S 89° 10' E 93° 10 to flag
31.09 ch " " to fence
N 1° 30 E to post NW cor



45° SE cor Sec 33 Tp 13 N R 1 E

n 33.586
31.09
2,496

98



49

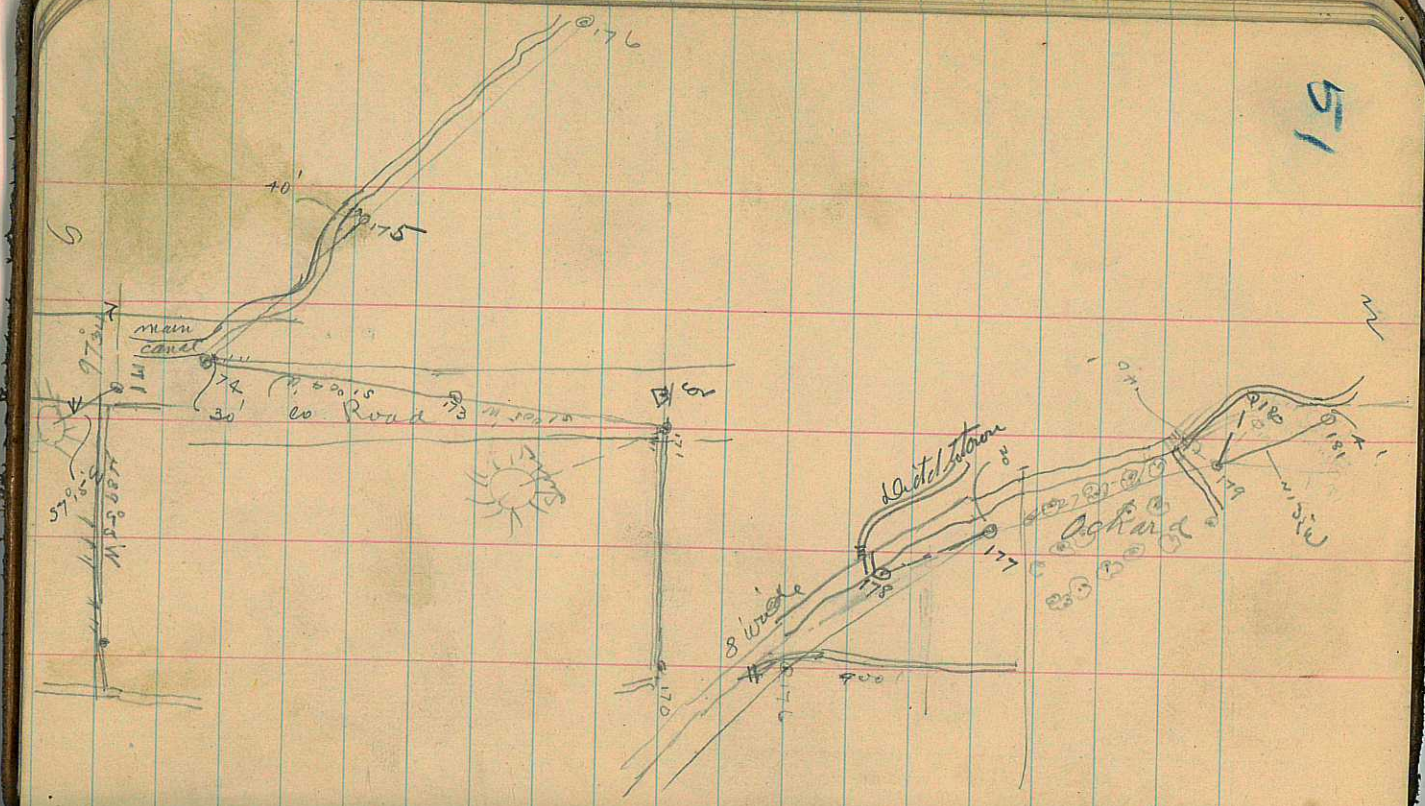
Hyrum Irr Co's
Irrigation Co —

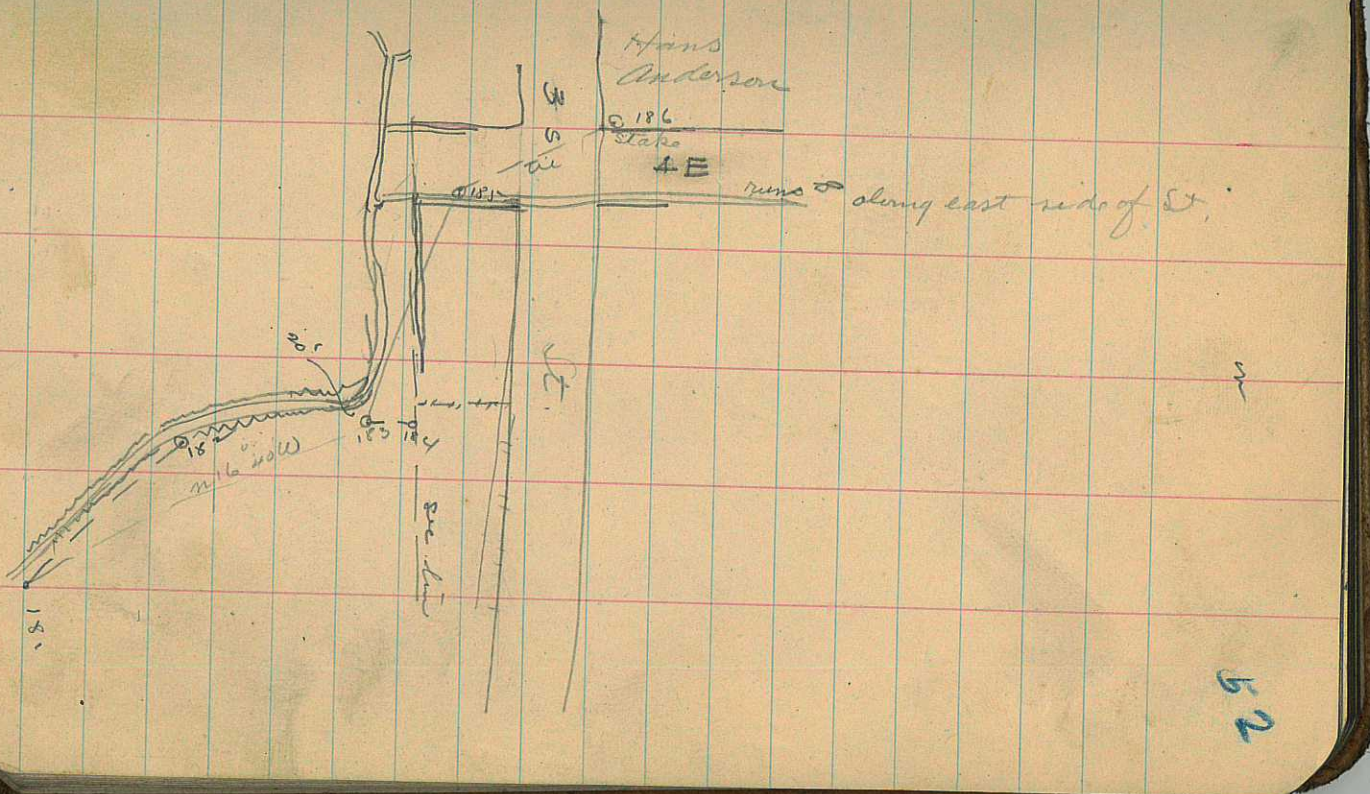
No	Course	∠ angle	R	d	L	angles +	angles −	III	Stadia
170	N 2°35 W								
		87°09'							
171	N 89°55 W	44.14							
172	S 46°01 W							4.45	in the Co. Road
		89°21'							to se. cor. in Co Road
171								4.45	
173	S 1°05 W	00°01'		10.072	4.45				
174	S 1°04 W		133°23'	11.651	2.00				from this Sta canal goes NW
175	N 45°55 W	9°16'		6.088	4.50	23'		4.96	at main Canal in Co Road
176	N 55° W		2°18'	11.925	2.00	—	—	4.40	30' N of N bk of Main Canal
177	N 52°40 W	174°06'		7.093	4.40	24'		4.98	
178	S 46°35 E			6.08	4.98				to Head gate of Ditch 6 miles leading to S part of Hyrum
177			25°35'					4.98	
179	N 27°05 W	80.19'		7.972	4.98	10'		4.80	
180	N 35°25 W			5.35	4.80	1			
179			13°55'					4.80	
181	N 13°55 W	15°24'		6.447	4.80			4.86	
182	N 28°25 W			5.80	4.86				
181		3°42'						4.86	
183	N 16°35 W			7.297	4.86	17'			

see sketch over

Nov. 12/50

Station 171: h = 30° 27' 50"
BS to 170. set on 171
∠ 97°34'


@176
40'
@175
main canal
74'
30'
Road
@173
@174
@172
@171
@170
Mesquite
Orchard
8' wide
400'
@177
@178
@179
@180
@181
N 31 W


Hans Anderson
@186
Stake
4E
runs S along east side of St.
@182
@183
@184
@185
@187
N 16 W
St.

53

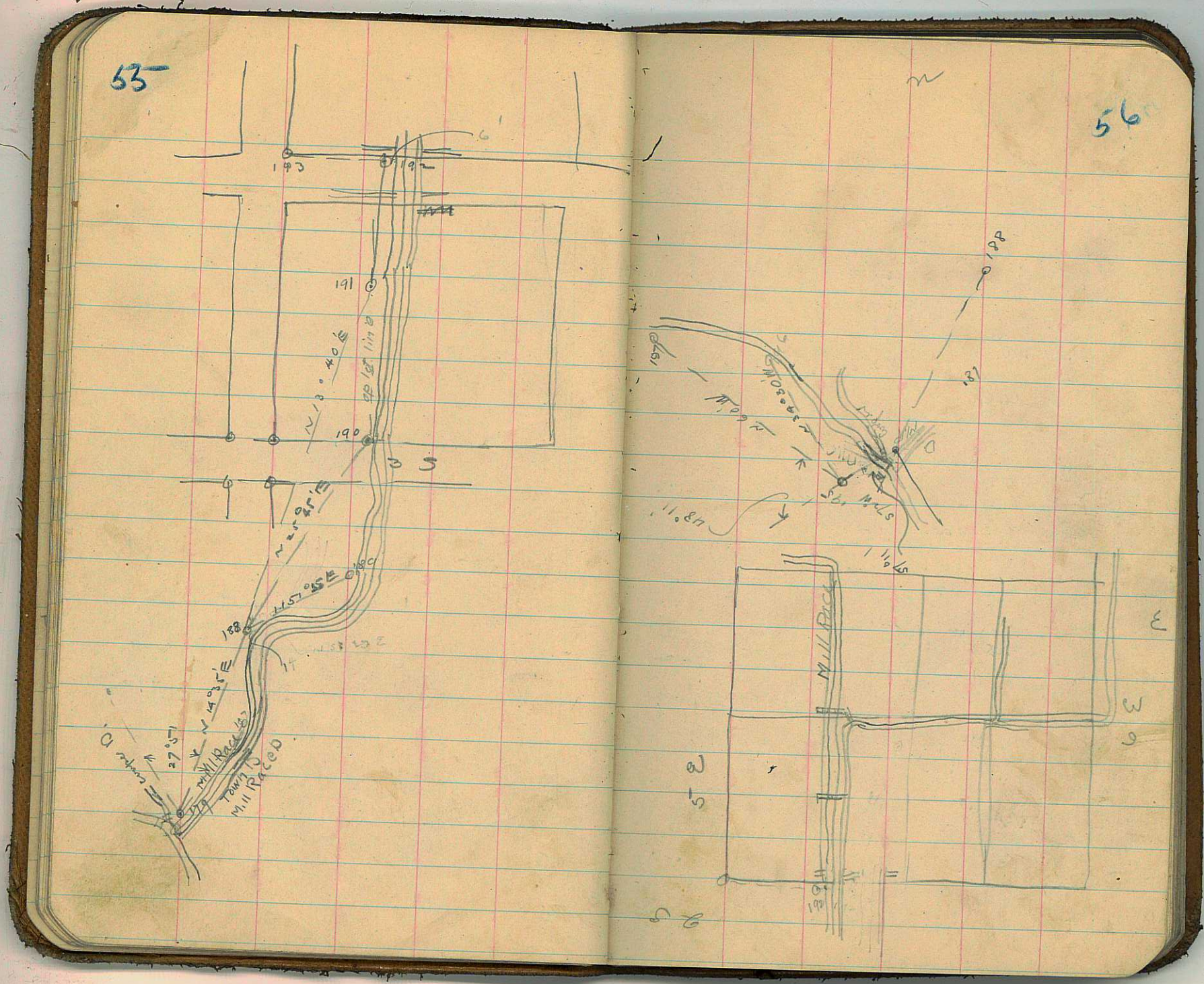
Hymn Sur Corr

No	Course	Angles L	Angles R	Stadia U	Stadia L	Angles +	Angles −	HI	
183			17°					4.84	
184	in			5.025	4.84				on line 1 mi S of Tp line
183		64°				30'			
185	N 80°55W		60°47'	4.84	2.99			4.52	
186	N 20°10 W			5.66	4.52	38'			to SE cor of Blk inter. 35 st. east
179			42°29'					4.76	FS to 181
187	N 29°5E			4.760	3.137				
179			27°51'						
188	N 14°35E		36°35	7.509	4.76			4.83	
189	N 57°15'E			4.83	3.603				
188	~~N 25°45E~~		11°						~~on Lotd Bk N side St 3S~~ on Lotd Bk N side 3S
190	N 25°45E			7.586	4.53				
188		58'							
191	N 13°40E	11°26'		9.708	4.83			5.02	
192	N 2°15'E	90°32		6.624	5.02	12'		4.59	
193	N 88°40W			4.59	3.747	47'			SW cor of Blk inter

Evening Nov 12/06

5.66
4.52
1.14

54


53
193
192
191
190
189
188
N 13° 40' E
S 5
N 27° 40' E
N 14° 03' E
N 27° 40' E
Mill Race
Town's Mill Raced
56
N
Mill Race
S 5
E
W
S

57

Nov-13 '06

Hyrum Elec. Co. Sur. Cor

No.	Course	angles ∠ R	L	Stadia +	−	HI
192		4°14'				4.79
194	N6°E		6.378	4.79		
		Ditch going through town.				
179		57°11'				4.85
195	S72°W	73°35'	5.190	4.85		
196	N34°30W		4.91	3.507		
195		48°11'				4.91
197	N60W		4.91	2.452		
195		35°33'				
198	N73°30W		8.442	4.91		
195		32°31				
199	N75°45W	12°03'	8.955	4.91		
200	N87°45W	26°19	4.98	2.593		
201	N61°20W		4.83	4.17		
200		53°27				
202	N34°15W	39°47	4.73	2.961		
203	N5°20'E	63°32'	4.81	3.449		
204	N69°E		4.75	4.34		

angles

+	−	HI
12'		
	46'	4.91
		4.91
	22'	4.98
	1°32'	4.83
	38'	4.81
		4.75

Started over on Sta 192 in the morning 11/13/06

FS. to 188

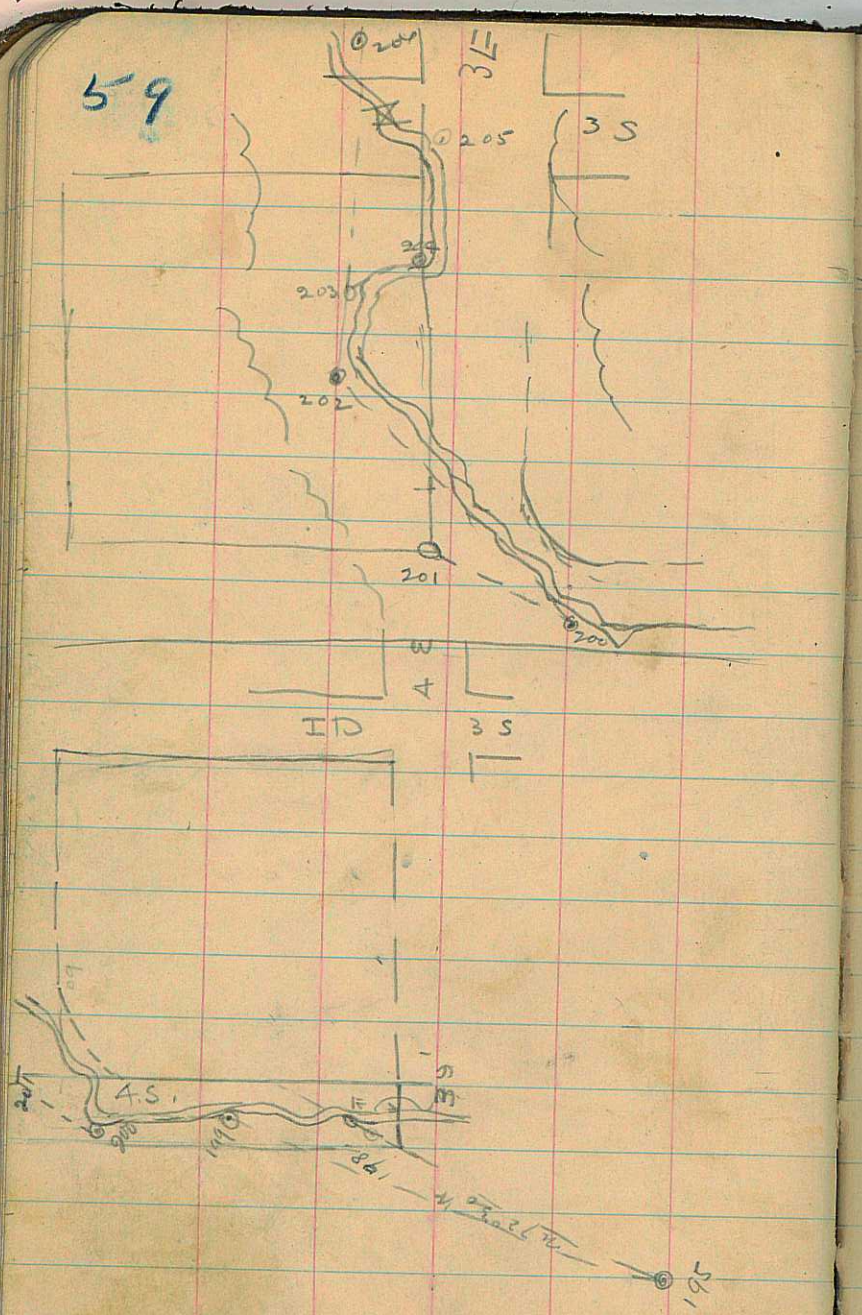
SE cor of Blk SET 4S.

on Blk lines

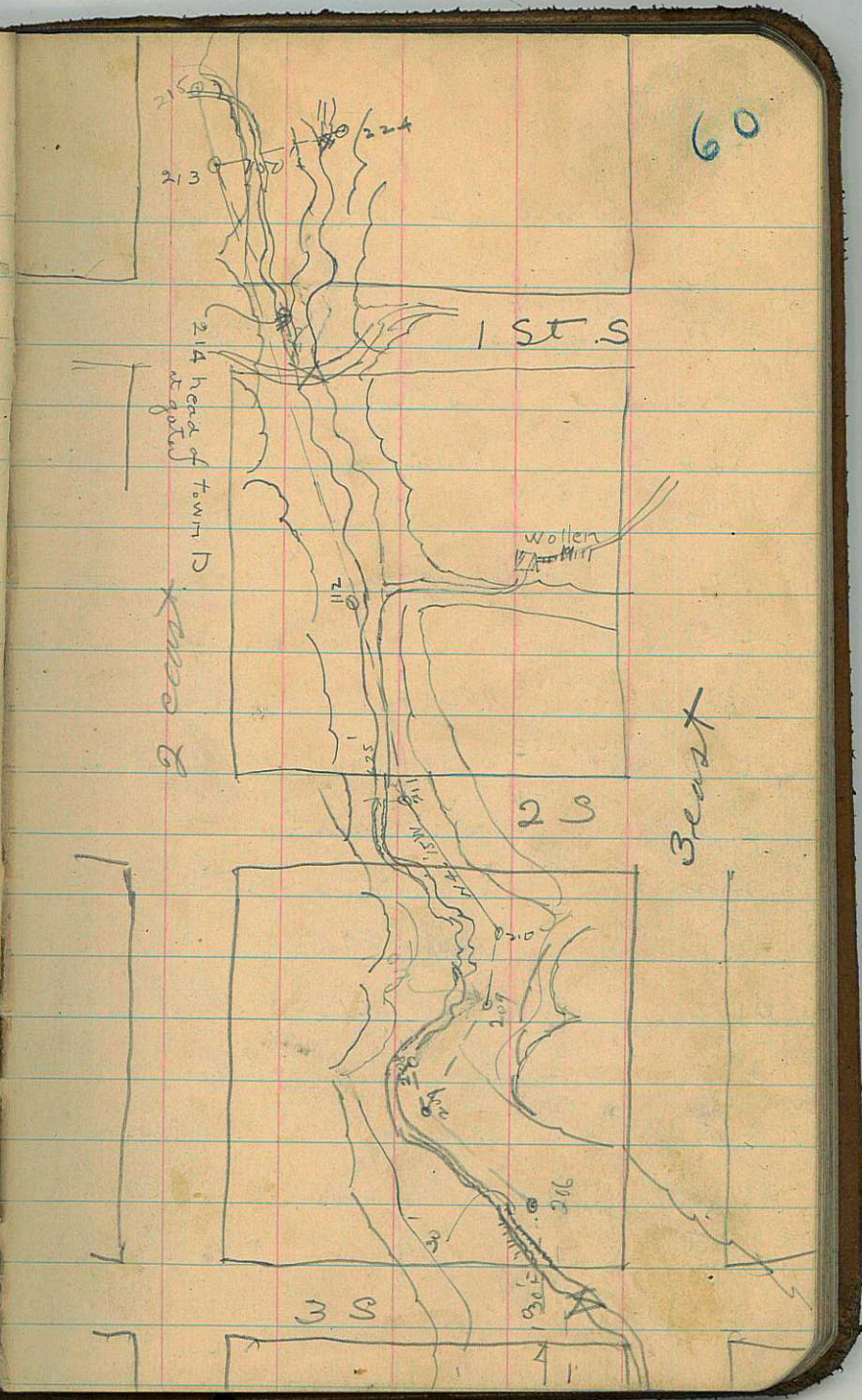
179 6 0 | 72
104 31 | 32 31
75 29 | 104 31

58

59


204
205
214
203
202
201
3 S
4 W
ID
3 S
A.S.
Trail Tr.

60

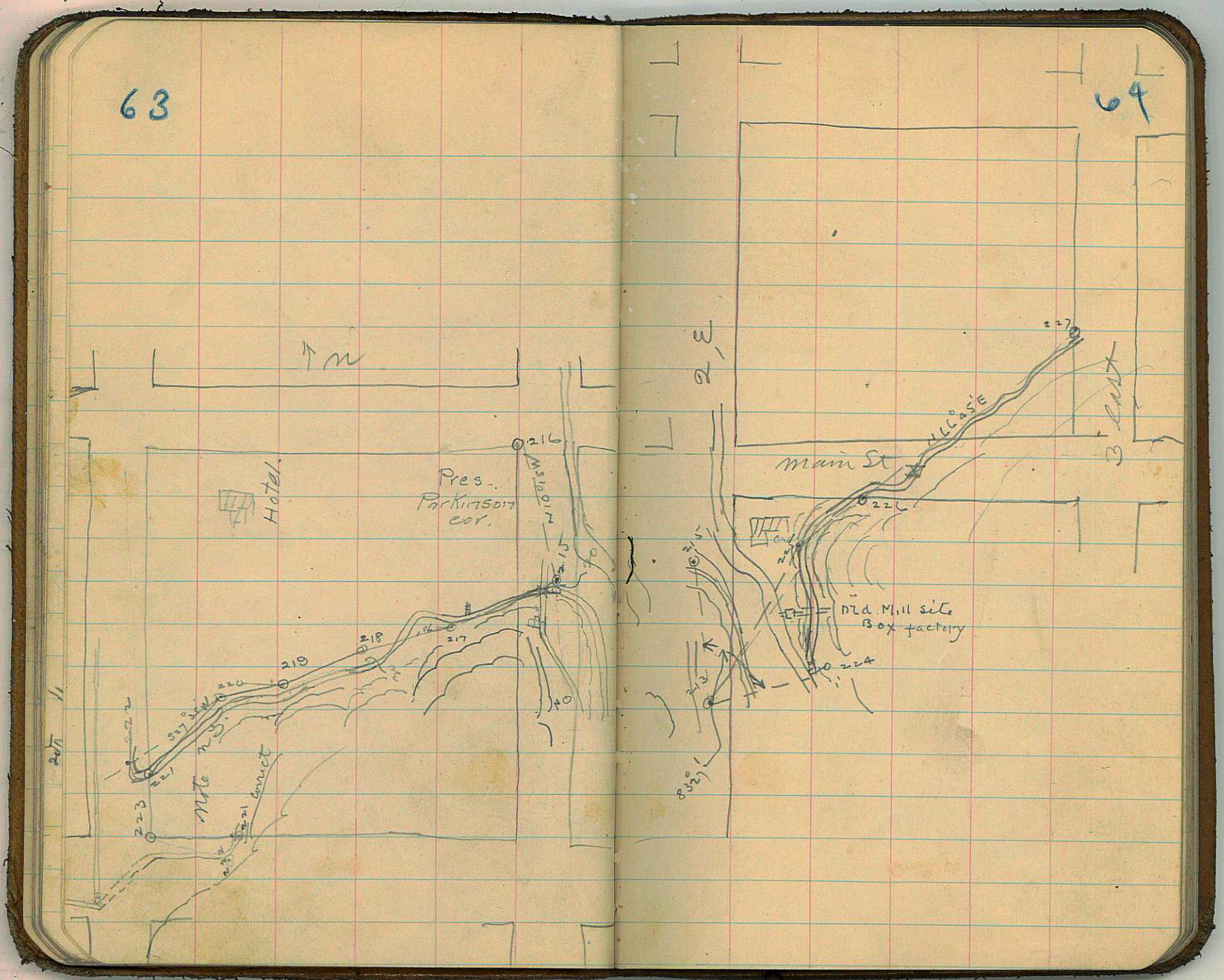

215
224
213
214
1 St. S
214 head of town D
Kamas
Woolen Mill
2 S
Beard
210
209
206
3 S

61

No.	Course	angles L	angles R	Stadia U	Stadia C	angles +	angles −	HI
203				~~6.00~~	~~4.75~~			
205	N 25°40'E			6.00	4.75			
203		3°59						
206	N 1°30'E	O.K	61°12	4.75	3.197	1°01'		4.67
207	N 59°50'W			6.03	4.67	1°04'		4.84
208	N 65°5'W			4.84	4.52			
207			101°5'					4.84
209	N 42°15'E	41°37		4.84	3.762	47'		4.79
210	N 00°45'E	46°58		4.79	3.471 ~~3.473~~	1°44'		4.82
211	N 46°15'W					44'		4.82
212	N 15°30'W		30°32	6.103	4.82			
211				4.82	5.42			
213	N 16°28'W		29°56					
214	S 38°40'E		157°28	9.96	4.82	10'		4.93
213				4.93	4.26	9°26'		head of Town Ditch
215	N 7°W	3°16	9°15'					
216	N 10°15'W			4.93	3.680	→ 6°		4.82
215		120°34		4.82	3.627	3°42'		2 Ct main Pres. Pat Spruce Cor
217	S 52°20'W			5.763	4.82			To cor of BLK NE cor of inter
								5.02

62

in intersection


63
64
Hotel
Pres. Parking on cor.
216
215
218
217
219
220
221
222
223
Mute
Main St
Mid. Mill site
Box factory
224
227
N 29° W
S 32° W

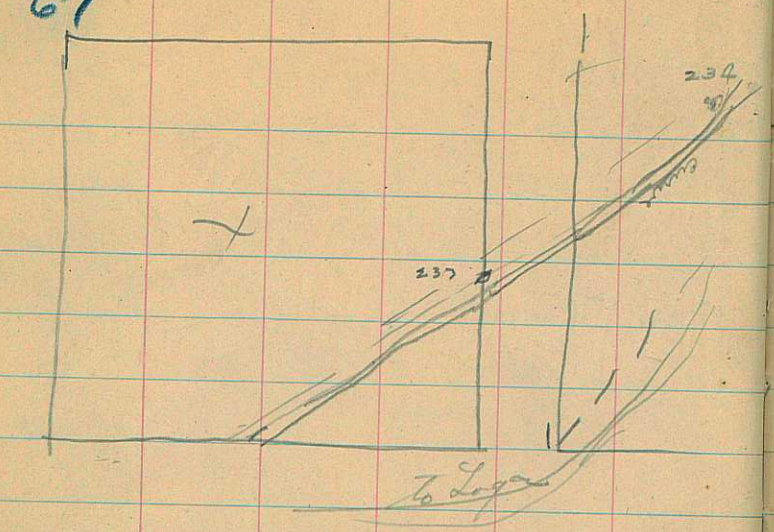
65

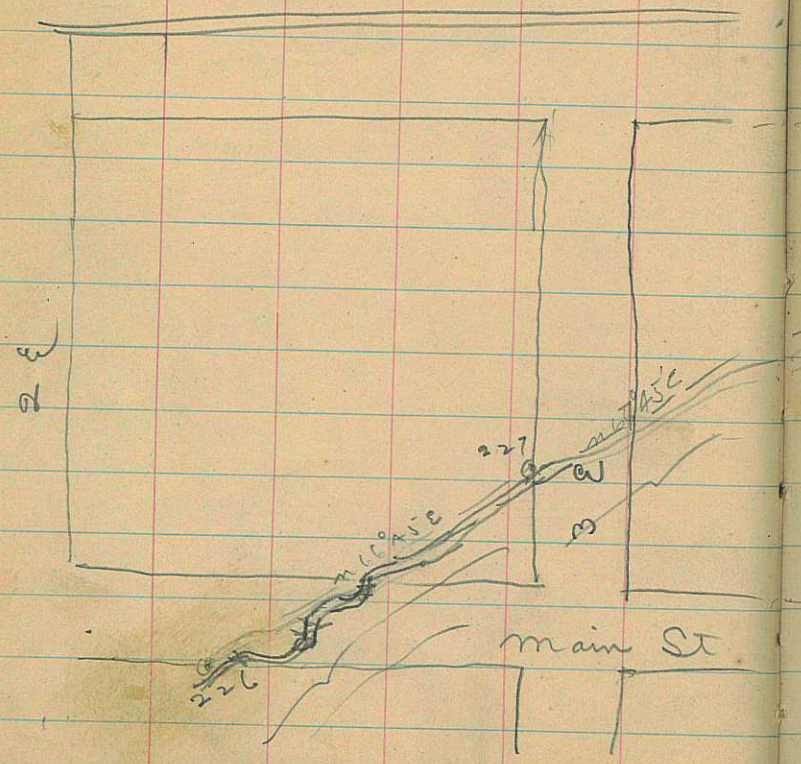
No.	Course	Angles ∠	R	Stadia U	L	angles +	−	HI	
217			9°24'	5.763	4.82			5.02	
218	N 61°45' W	6°16'		6.277	5.02		1°07'	4.62	
219	S 55°30' W		22°14'	4.62	3.895	40'		4.63	
220	S 77°45' W	50°09'		4.63	4.105	28'		5.10	
221	S 27°36' W			5.10	4.66				on N side St.
220		43°09'					40'		
222	S 34°50' W		93°14'	5.10	4.532			4.39	
223	N 7°10' W			4.39	4.10		3°27'		to SW cor of Blk. 1st E + 1.2 S
									from this cor and SW to op cor Watch fol. Blk lines
213			83°27'					4.97	on this Sta. F.S. to 215
224	N 76°30' E. OK			4.97	4.31		12°09'		
213			20°40'						
225	N 13°45' E		44°30'	4.97	3.032		4°32'	4.83	
226	N 58°20' E			5.748	483		15'	4.95	on N line of Blk
227	N 66°45' E			7.422	4.95				
226			7°59'						
228	N 67°45' E	31°59'		10.775	4.95			4.59	
229	N 34°10' E			6.12	4.59		1°40'		NE cor of Block

5 30 439
2 14 410
7 16

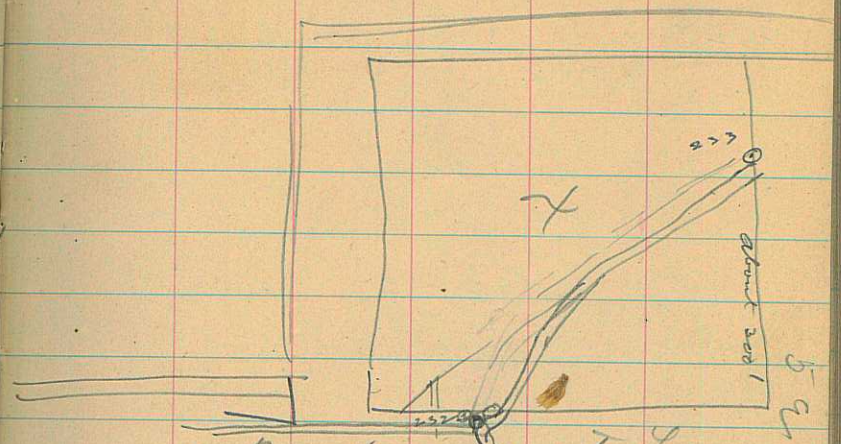
66

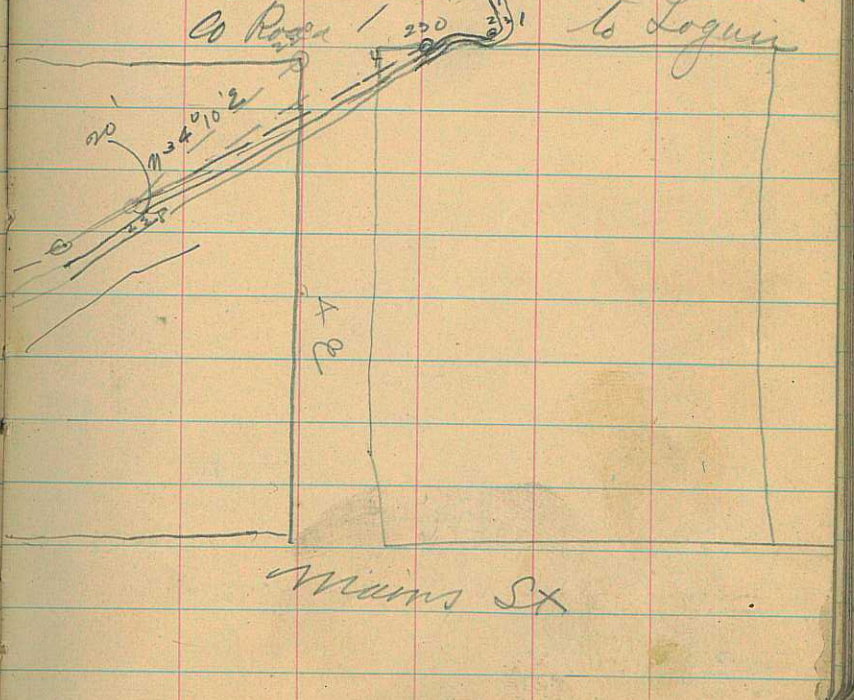
67





68

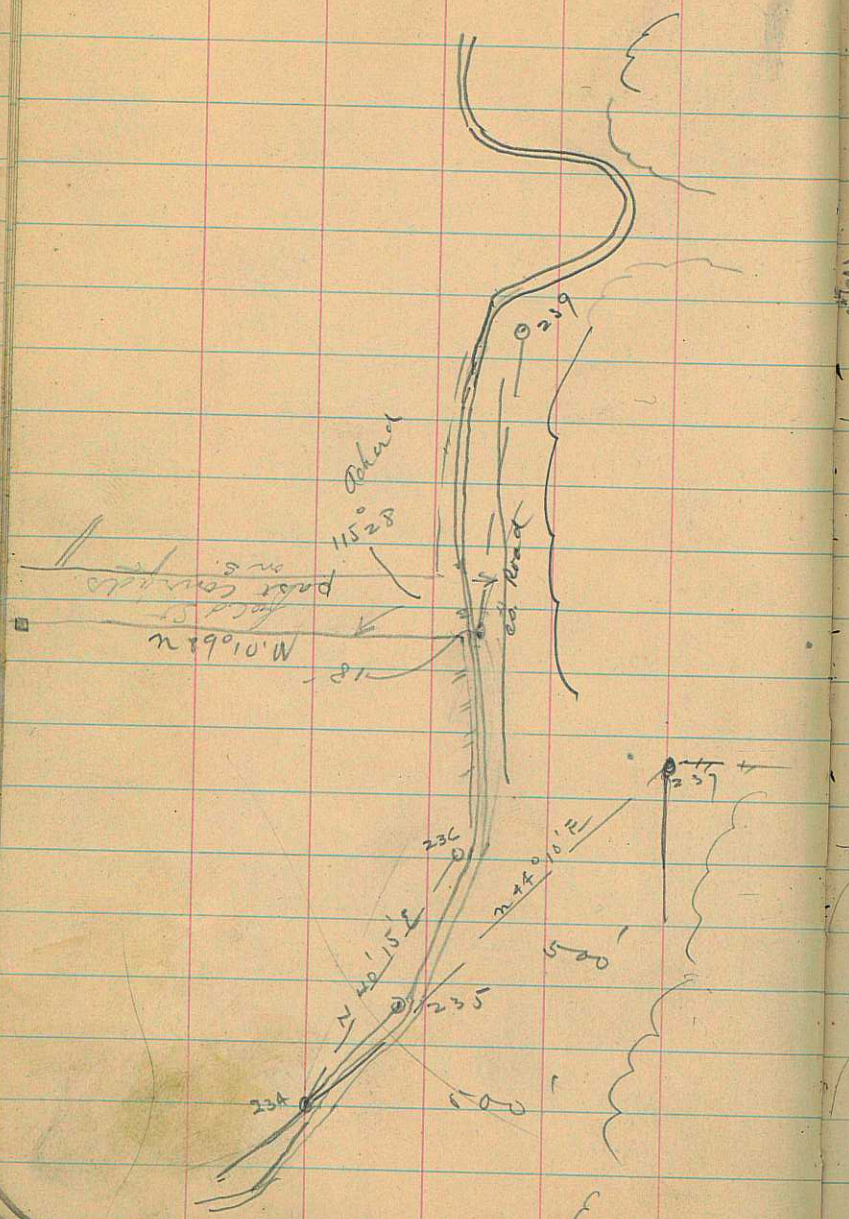




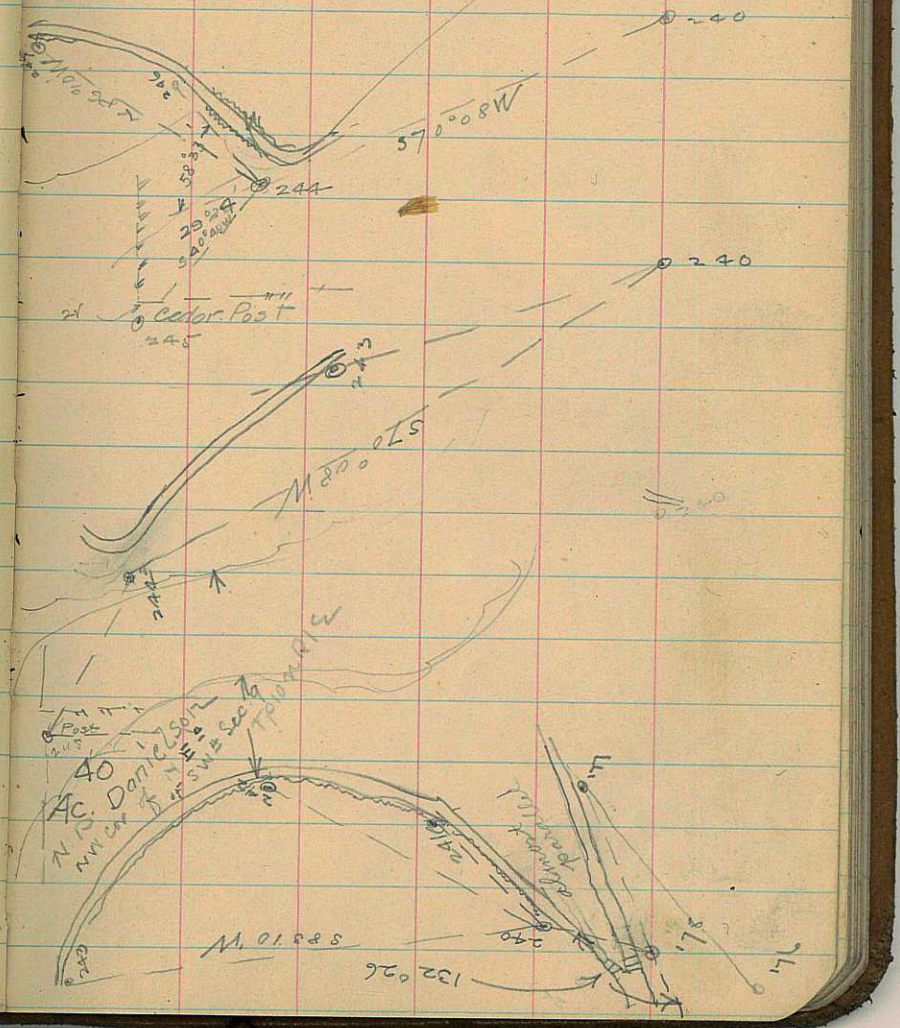
No	Course	Angles ∠ R	Angles ∠ L	Stadia V	Stadia L	Angles ∠	Angles R	HI	
228			7°03'					4.59	
230	N59°10'E			4.59	2.112				on Blk line
228			2°30'						
231	N64°E			7.618	4.59				on bend
228			7°20'						
232	N59°E			7.71	4.59				on bend
228			8°18'						
233	N58°E			10.11	4.59				on Block line
228			10°01'						
234	N56°15'E		7°35'	12.00	4.59			4.67	TP.
235	N48°50'E			6.08	4.67				
234			16°05'						
236	N40°15'E			7.72	4.67				
234			12°11'						
237	N44°10'E			8.394	4.67				NW cor Top Cor of local Block
234			30°06'						
238	N26°21'E		19°00'	10.267	4.67				
239	N7°10'E			8.838	4.95			4.95	
								4.86	

running out. 1/06

71


239
Road
115°28
N 29°10' W
81
236
N 44°10' E
5.00
235
234
5.00

72


240
S70°08'W
244
Cedar Post
240
243
S70°08'W
244
Post
40
Ac.
Daniel Smith
Sec 14
T 10 N R 1 W
240
Tunnel
S83°10'W
132.26

73

Morning Oct 14/06

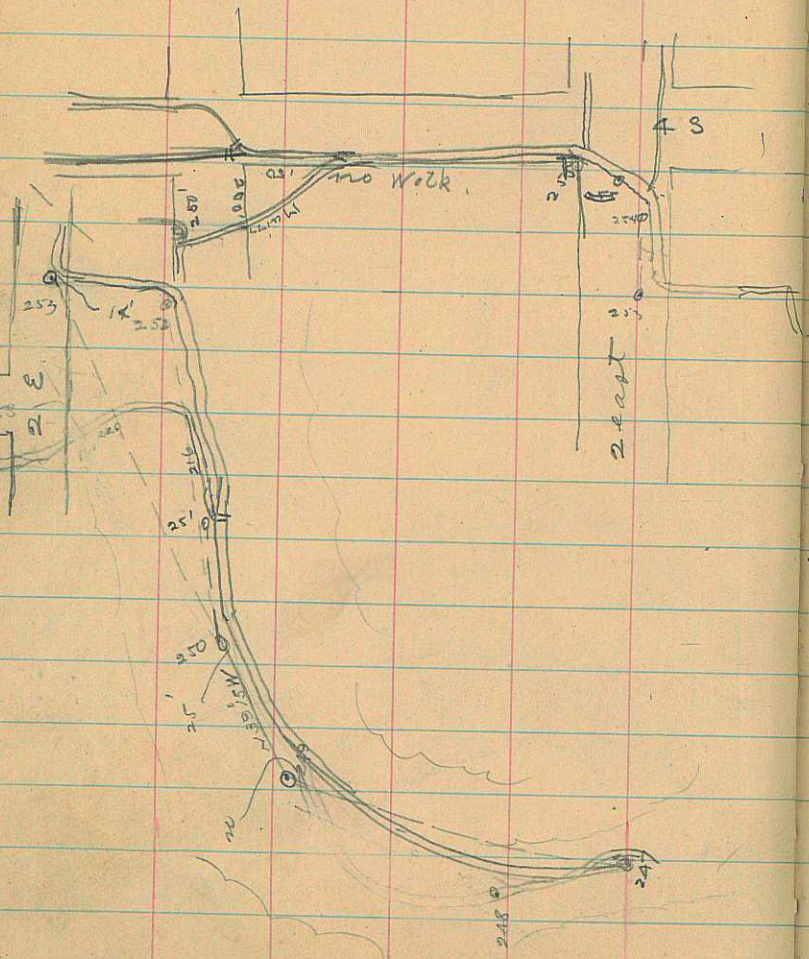
Agrium Irrigation Co.

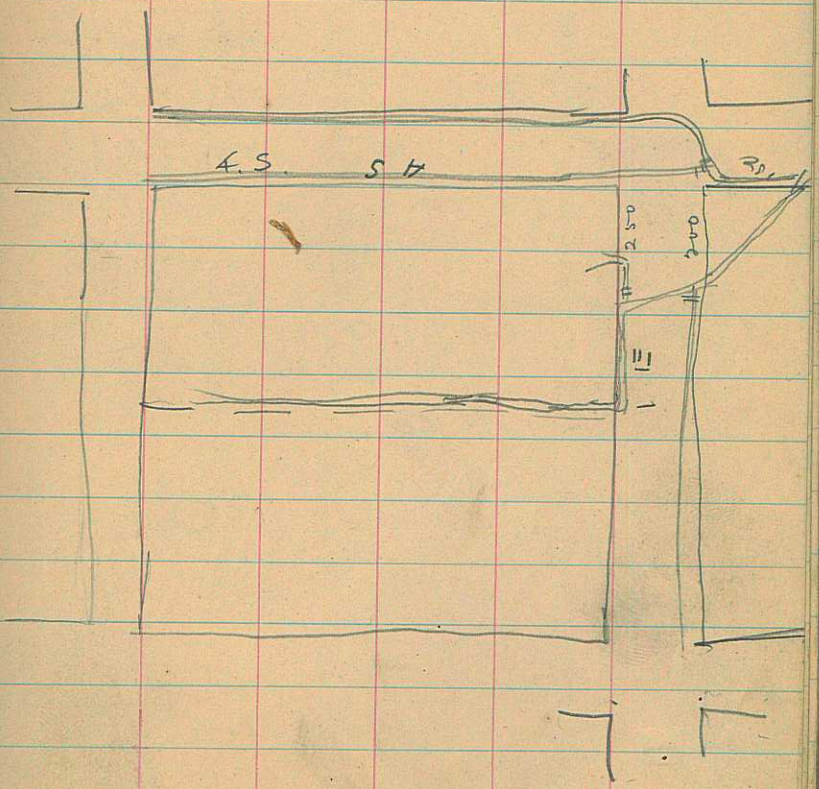
Sur Con.

No.	Course	∠ angles	R	U	Stadia L	+	−	HI	
178			132°26'					4.39	BS. to 177.
240	S85°35W		3393'	4.753	4.390			4.44	
241	N61°15W			4.44	373				
240			14°22'						
242	N80°02W	0°K		7.125	444				
240		2°24'							
243	S83°10W			7.905	4.44				
240		15°35'							
244	S70°08W	29°24'		10.424	4.44		10'	4.98	
245	S40°20'W			9.762	4.98				cedar post on the NW cor of
244			58°33'						
246	N57°20W			4.98	3.635				
244			23°53'						
247	N86°10W	10°06'		7.397	4.98		27'	4.53	
248	S83°50W			5.800	4.53				
247			14°50'						
249	N71°10W		31°31	6.980	4.53			4.49	
250	N39°15W			4.49	3.847			4.96	

19

75


4 S
Two Walk
253
252
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No.	Course	angles L	angles R	Stadia U	Stadia L	Angles +	Angles −	HI	
250			24°41'						
251	N 150° W			5.80	4.96				at head gate for Small Old leading west
250			23°10'						
252	N 16°40' W			8.44	4.96				
250			9°25'						
253	N 30°28' W			8.932	4.96		05'	4.58	
254	N 2°05' E			6.12	4.98				
253			21°33						
255	N 8°50' W								to N E cor of Blk intersection

from 255 Canal

Runs parallel with Blk lines

noon 11/14/16

79

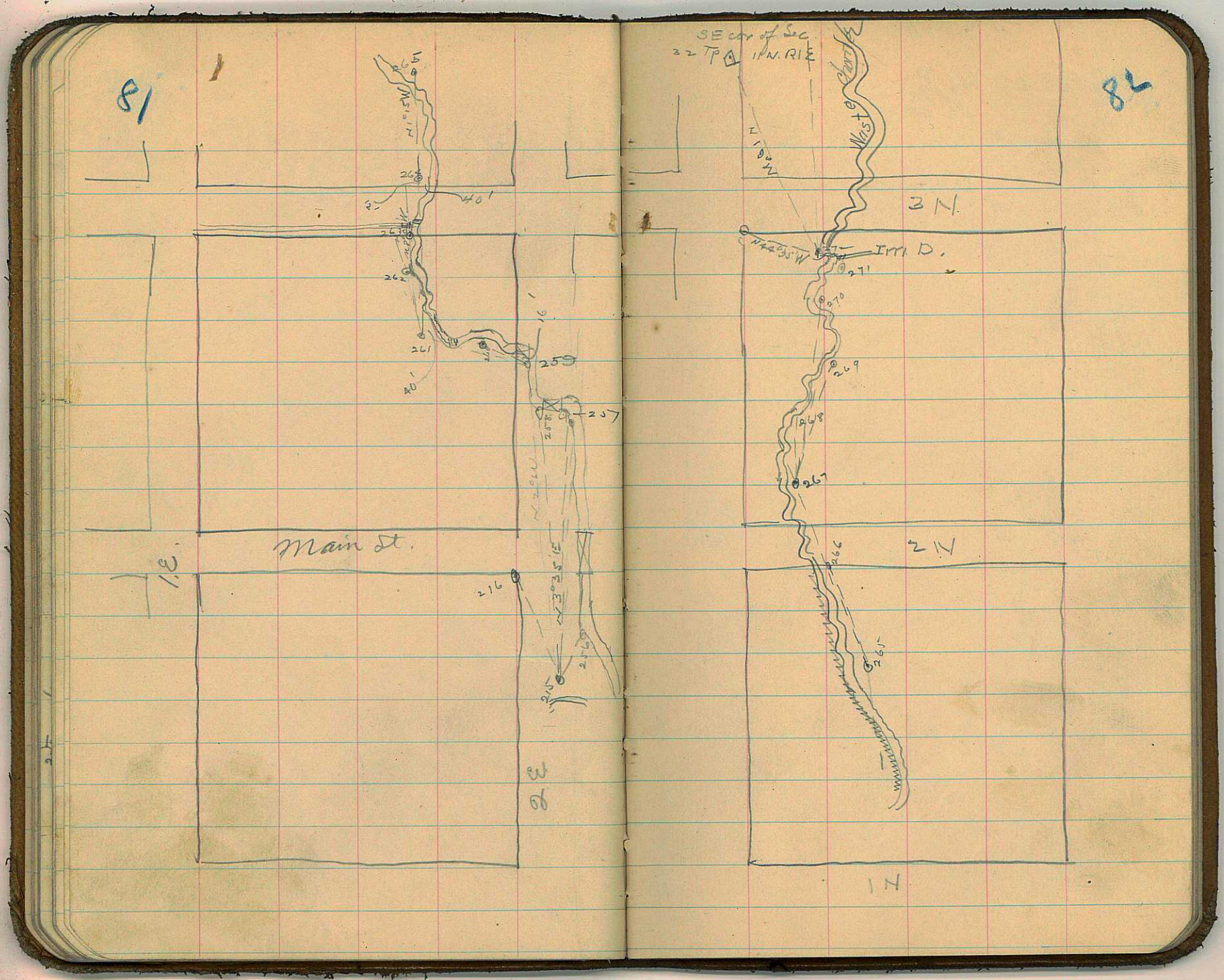
No.	Course	Angles ∠ R	Stadia U	L
215		32°58		
256	N 22°35 E		4.92	4.60
215		13°54'		
257	N 3°35 E		4.92	2.636
215		7°52'		
258	N 2°20 W		4.92	2.533
215		8°00'		
259	N 2° W		4.93	1.967
260	N 54°10 W	52°06	4.95	4.49
259		64°37		
261	N 66°40 W		6.157	4.95
262	N 25°30' W		5.81	4.87
261		58°13'		
263	N 8°45 W		6.468	4.87
261		59°04		
264	N 7°45 W	6°44	6.984	4.87
265	N 1°15' W	17°10'	4.533	4.98
266	N 18°30 W		4.90	4.14

Angles

+	−	HT	
		4.92	FS to ME cor of BK No. 216
	3°50		
	3°54		
	3°9'	4.95	
	1°10'	4.87	
	3°		
	2°33'		
	2°20'	4.98	
		4.90	

on S line of 2nd St.

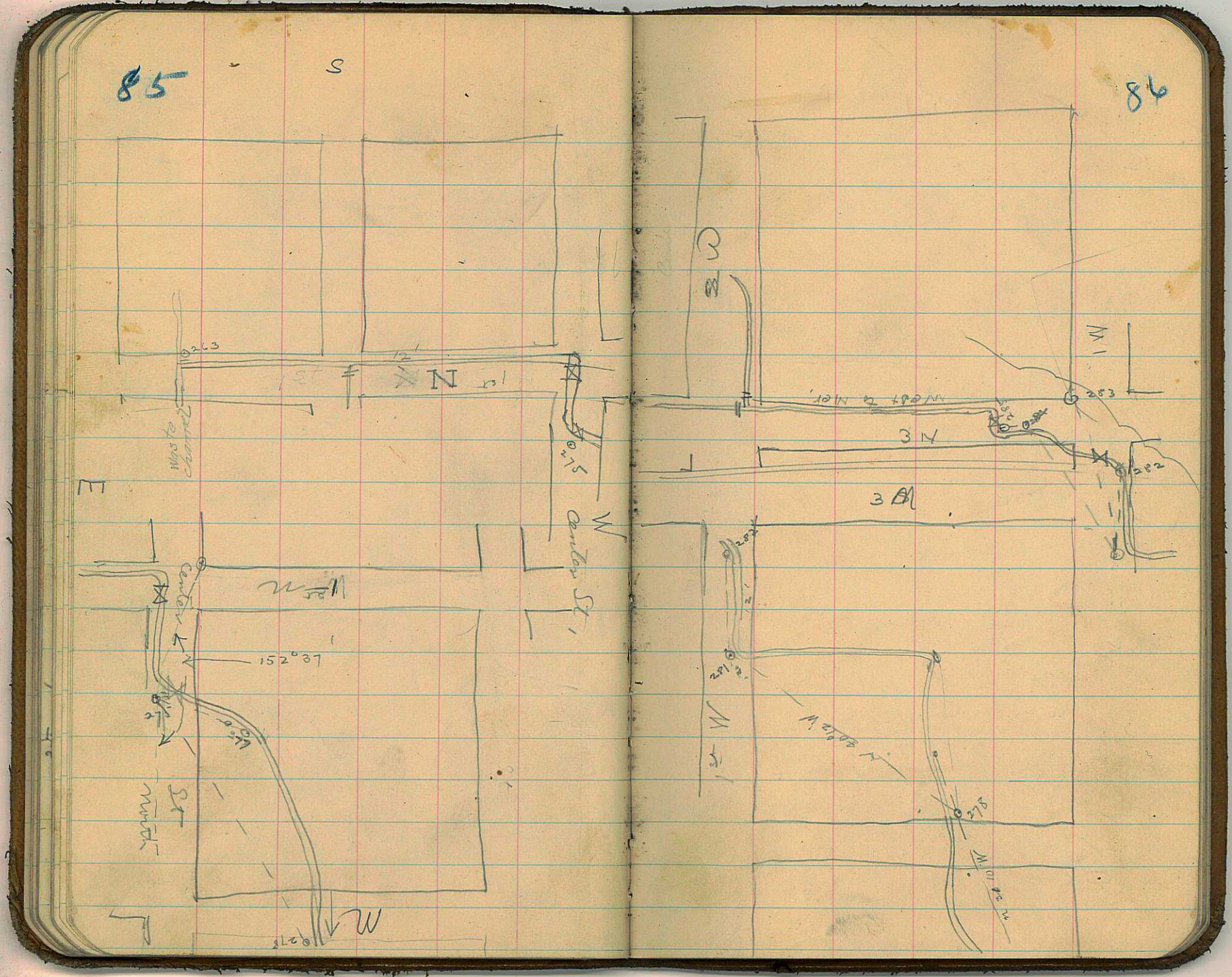
80


81
82
SE cor of Sec
22 TP 3 N. R1E
West boundary
3 N.
2 N.
1 N.
Imm D.
Main St.
N 42° 35' W
N 13° 25' E
N 1° 15' W
N 1° 0' W
40'
16'
1.E.
W
S

No.	Course	Angles L	Angles R	Stadia U	Stadia L	Angles +	Angles −	HI	
265		18°14							
267	N19°15'W			4.90	3.283			4.69	
268	N2°50'W			5.47	2.69				
267				~~5.67~~	~~4.64~~				
269	N19°30'E o.k.			5.67	4.69				
267									
270	N6°10'E			6.00	4.69				
267			31°47'						
271	N12°30'E o.k.			6.50	4.69				
267			23°23'						
272	N4°05'E	23°08		6.81	4.69	1°,5'		4.70	
273	N19°W o.k.			8.722	4.70	1°06'			to post the SE cor of Sec 32 TP 11 N. R 1 E. of S.L.M
272		48°47							
274	N44°35'W			6.46	4.70				to NW cor of B.1.R 3 N. 1 St E

Angles

2308
9
408


85
S
N
Waste Channel
Canton St.
152°37
86
3 N
3 M
283
282
278

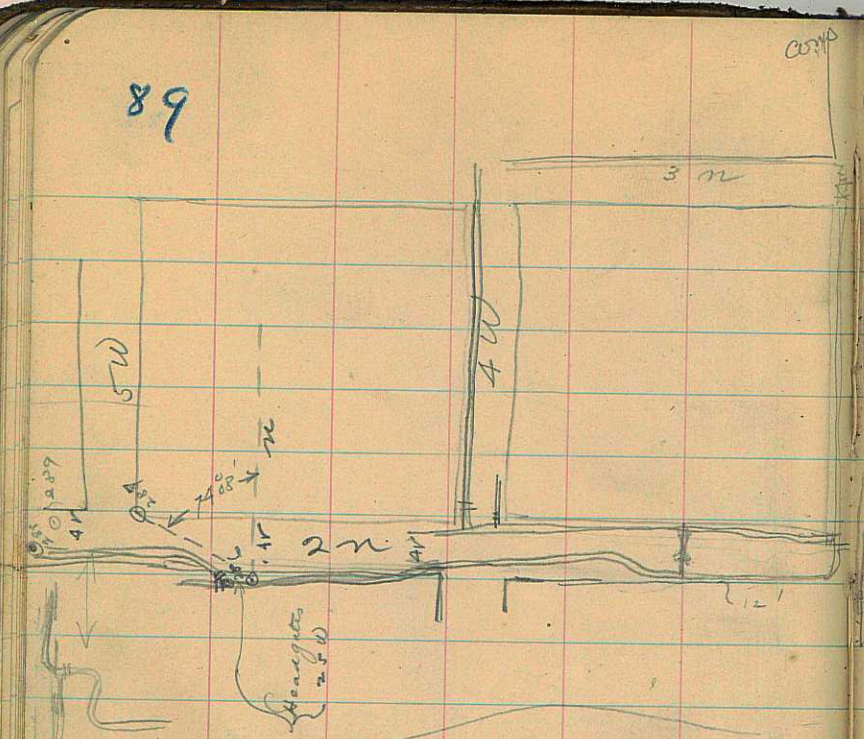
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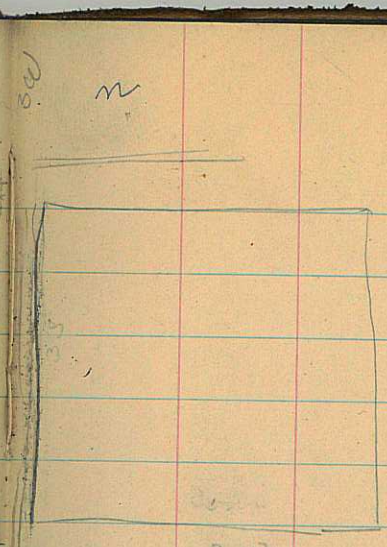
No.	Course	Angles R	Angles L	Stadia U	Stadia L
275		152°37 from N line			
276	S27°30W			5.75	4.83
275		60°39 from N line			
277	N60°39W			4.83	3.33
275		31°10			
278	N31°10W	26'		9.013	4.83
279	N31°30W			6.10	4.97
278					
280	N19°55'W			4.97	3.17
278		9°02			
281	N40°12W			7.258	4.97
282	N1°30E O.K.			6.02	4.98
281		32°01			
283	N8°10W			4.90	2.76
281		23°30'		4.60	
284	N16°40W	73°40'		4.60	2.704
285	S89°45W			4.78	4.20

Angles

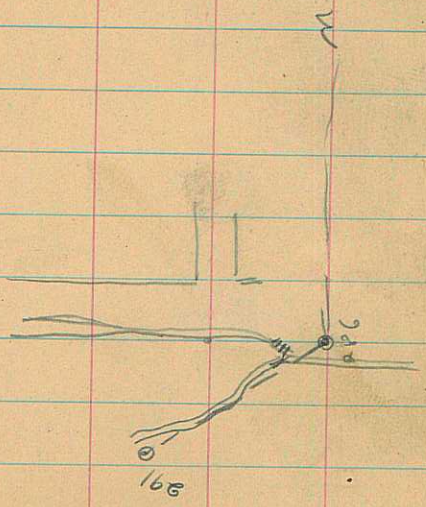
+	−	HI
		4.83

89





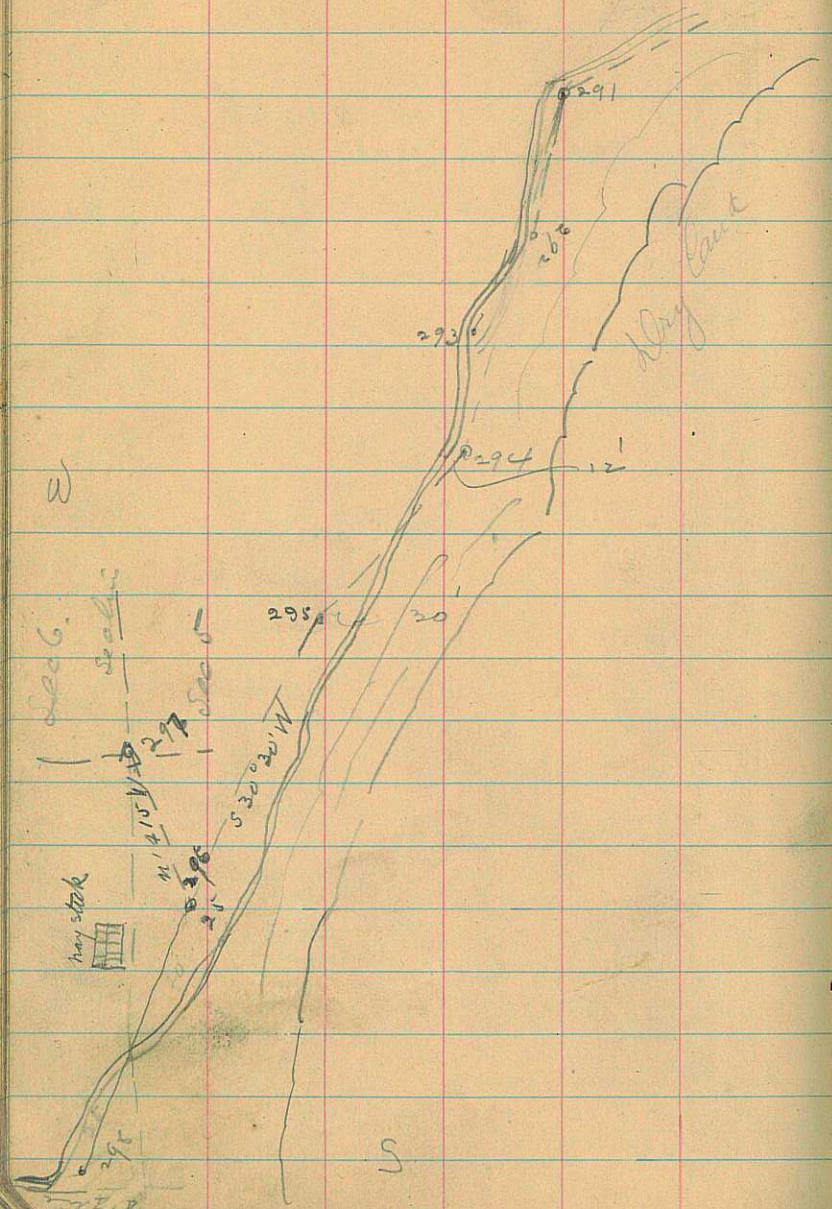
90



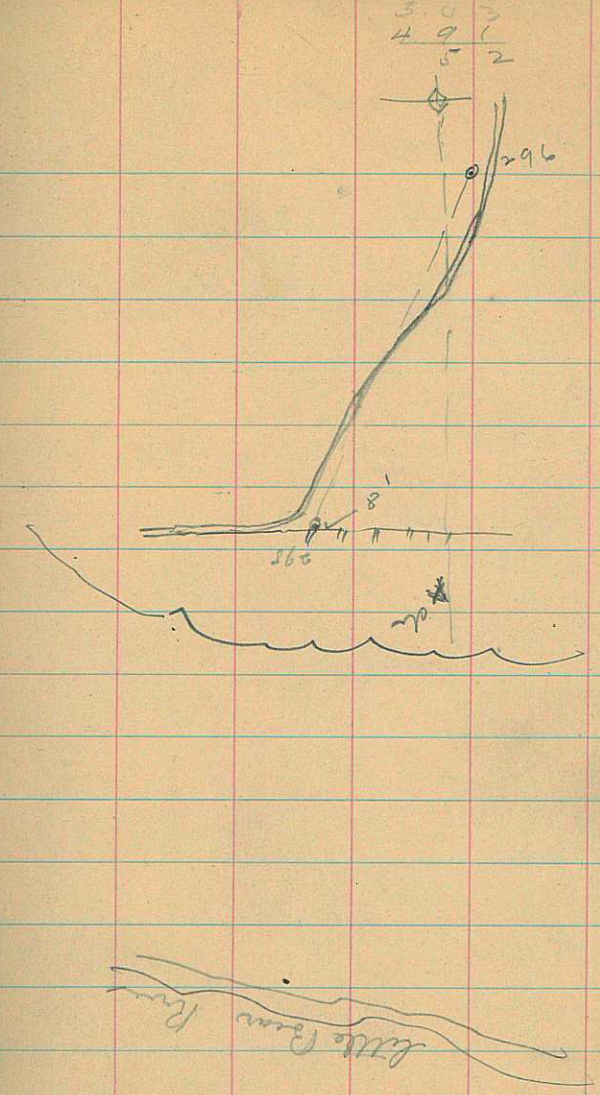
No	Course	Angles L	Angles R	Stadia U	Stadia L	Angles +	Angles −	HI	
286								4.90	
287	N74°08W	74°08 from N line		6.05	4.90				SW cor mtn 5 mi W + 2 N
286			88°30 from N line						
288	N88°30W			8.087	4.90				to bend
286		85°09 " "		"	"				
289	N85°09W			8.174	4.90				to bend
286									
290	N87°47W			8.926	4.90				to bend
286			117°28						
291	S62°35W	54°20		4.90	3.897			4.79	
292	S8°20W			6.35	4.79				
291			46°41						
293	S16°W			6.963	4.79				
291			48°28						
294	S14°20W		21°26	7.544	4.79			4.95	
295	S35°35W	5°10'		6.735	4.95		20'	4.65	X
296	S30°30W		135°29	8.66	4.65			4.91	
297	N14°5W			5.430	4.91				to mi cor SSE 4 mi 6 intp ion RIE

6.05
4.90
1.15

93


N
W
S
291
293
294
295
296
Dry Canal
Sec 6.
Sec 1
N 41° 15' W
S 30° 32' W
Hay Stack

94


296
8'
295
Little Power Plant

95

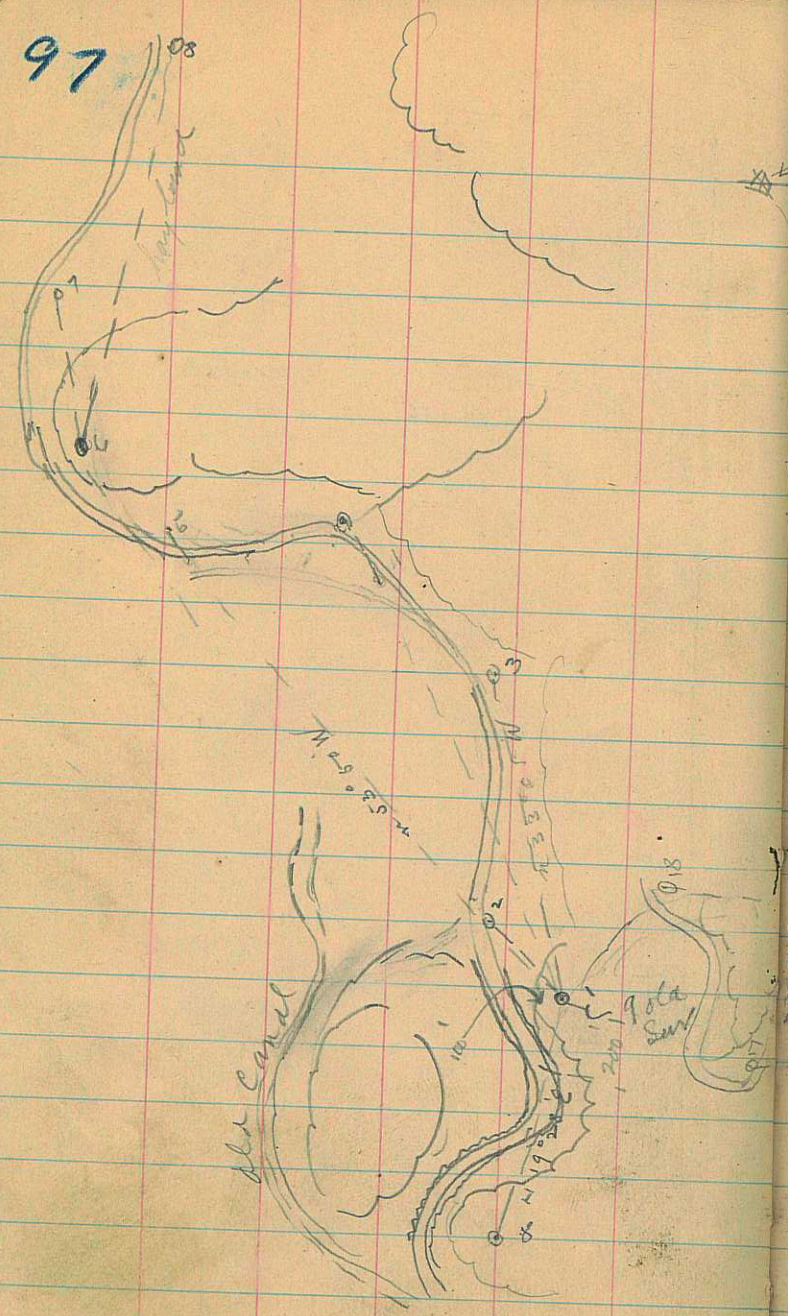
No.	Course	Angles L	Angles R	Stadia J	Stadia L	Angles +	Angles −	HI
296		~~5°36'~~	5°36					4.91
298	S 36°10W	Li #1D		9768	4.91			
	end of Ditch							
1								
2	N 49°30W			6.40	4.96			
1			53°07		~~2~~			
3	N 33°45W			4.96	2.10			
1			60°47					
4	N 41°10W			9.54	4.96			
1			73°08					
5	N 55°50W			10.197	4.96			
1			71°26					
6	N 52°W			11.437	4.96			
7	N 16°20W			6.26	4.89			
6			60°08					
8	N 8°10E			9.28	4.89			
6			59°45'					
9	N 7°50E			10.20	4.89			

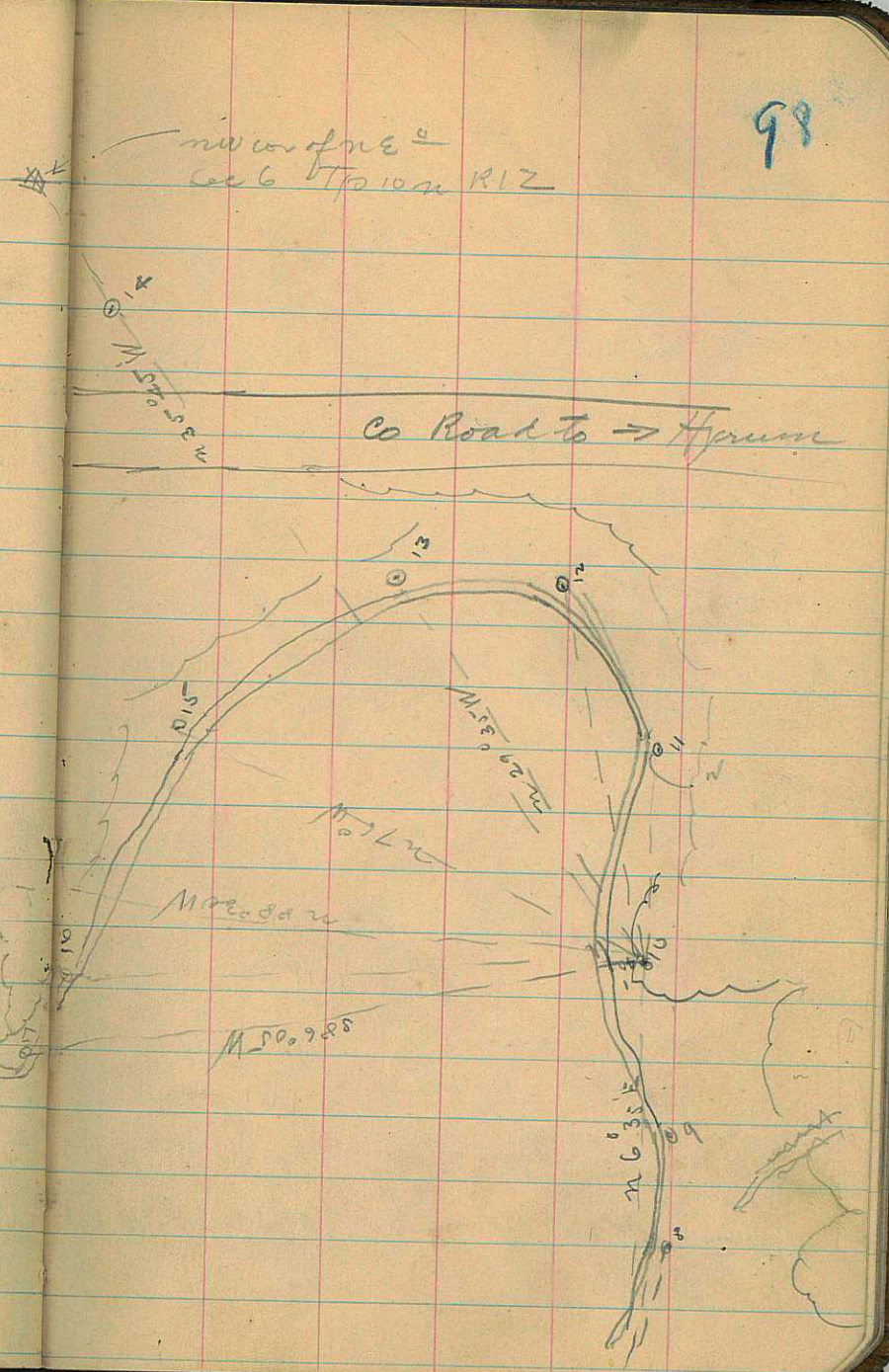
96

~~496~~ which is the same as end of line left off in Aug/06 at Wells.

4° Canal. See check

34 4.89


08
07
06
05
04
03
02
01
N 45° 30' E
N 45° 30' E
N 45° 30' E
N 49° 30' E
Blue Canal
Yola Sem.


NW cor of NE ¼
Sec 6 T10N R1Z
14
13
12
11
10
09
08
N 35° 45' W
Co Road to → Hyrum
R1S
N 29° 30' W
N 70° W
Meadow
N 88° 30' E
N 63° E

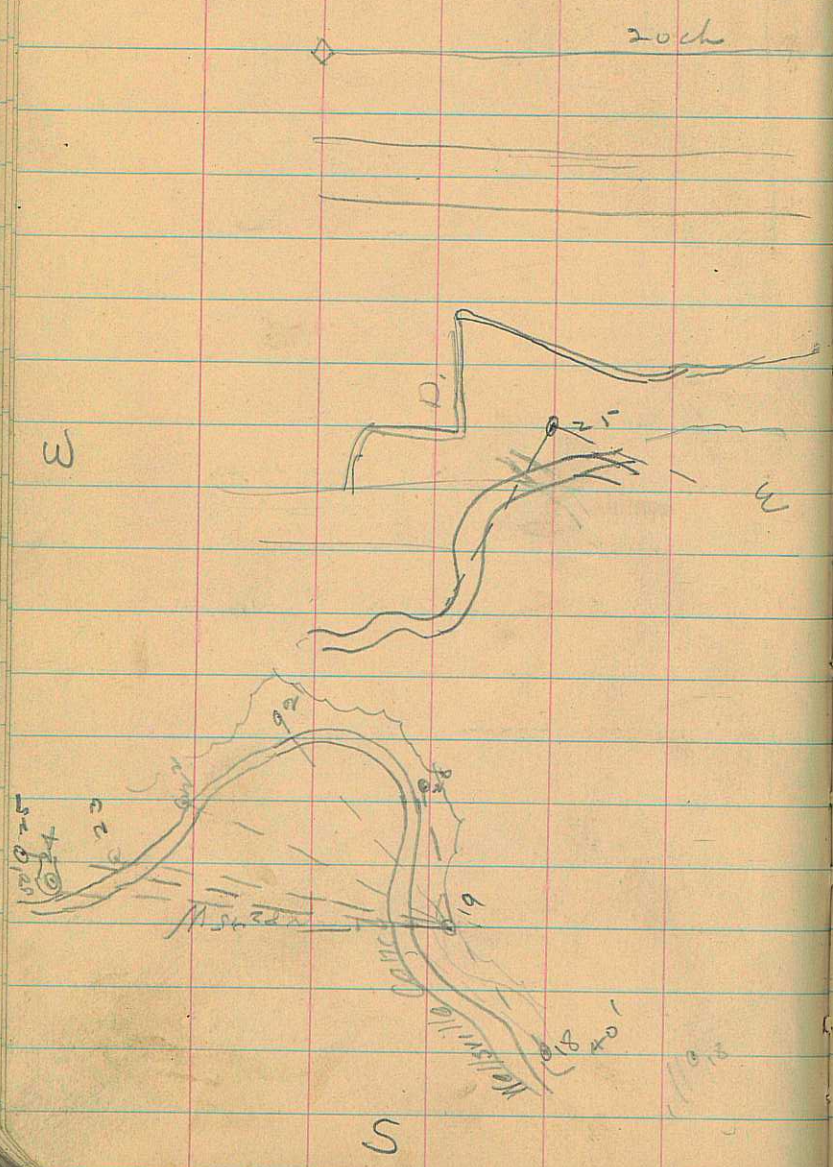
99

No	Course	Angles L	Angles R	Stadia V	Stadia L	Angles +	Angles −	HI	
6			58°32'					4.89	
10	N 6°35' E			11.13	4.89			4.98	
11	N 3°35' E			4.98	3.27				
10			12°32'						
12	N 5°50' W			8.117	4.98				
10			36°15'						
13	N 29°35' W			8.98	4.98				
10			42°28'						
14	N 35°43' W			10.325	4.98	20'			to a point S 35°45' E 228' from the NW cor NE ¼ sec. 6 – 10 – 1E
10			82°43'						
15	N 7°E W			10.80	4.98				
10			98°16'						
16	S 88°28' W			11.30	4.98				
10			100°35'						
17	S 86°05' W			11.66	4.98				
10			95°13'						
18	N 88°32' W			11.82	3.74	60	0 0	5.01	

76 3
180

No	Course	Angle ∠	Stadia R	Stadia U	Stadia L	Angles +	Angles −	HI
18			29°14					5.01
19	N 59 10 W		37°25	6.31	5.01		45'	4.85
20	N 21°40' W			4.85	4.08			
19			17°38					
21	N 41°30 W			6.172	4.85			
19		3°20'						
22	N 62°30 W			7.673	4.85			
19		13°23'						
23	N 72°30 W			8.214	4.85			
19		23°12						
24	N 82°15 W			8.71	4.85			
19		21°40						
25	N 80°55 W		33°54	8.814	4.85	—	—	5.05
26	N 47°00 W			10.557	5.05			

to NW cor of Sec 6 Tp 10 N – 1 E


20ch
W
E
S
Ditch
Ditch
Ditch

46
3
138

3 91

105

At Benson's which is near
NE cor Sec. 6.
pt where Ditch goes NW.
E 138'
E 502

Sta	BS	FS	cm
0	4.84	7.18	
	3 30	5.92	
	4.41	4.80	
	12.55	17.90	
		12.55	
		5.35	

105.3

100.

98

7183
484
2,34

88
264
138
502

8.000
2000
202

106

600
133.

To beg of level a. 10 west of Benson's
to Sec. line E line Sec 6.

1500 2
98
3

at east bank

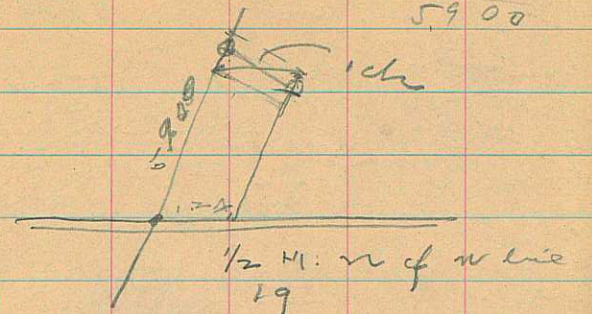
5

Head at Power house 16'

Race H2O ap 5' higher than
Providence D.
E bank of forebay 5' higher
than Pow. ch on E
Level line from E bank
intersects Pow. 2/3 S.
W bank 5.35' lower.
available fall 8 ft Lbs
600 ft.

1500 2 at east bank

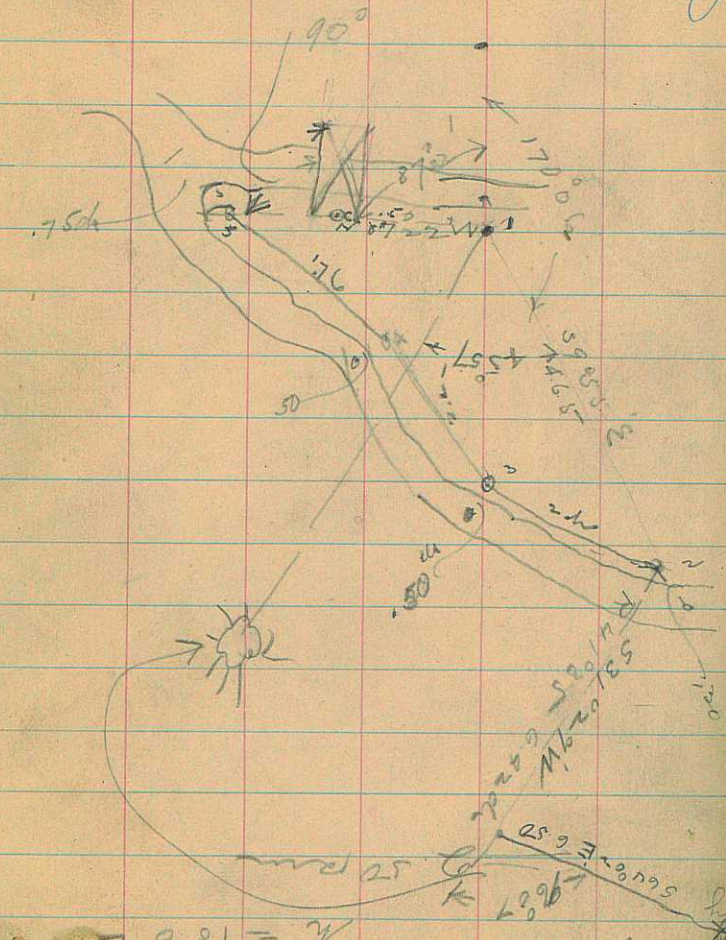
16.25
2.75
5900



109

Lur for Co. 11/--/06

Sur. For Cache County



110

Observations

Lev for Co

111 11/20/06

Beg at pt .50 ft S87°22'E from cent of S end of bridge: Thence

Sta	Dist	Course	angles ∠ R
1			170°06
1	4.65	S9°55'E	
2			141°45
	2 chains	N48 15W	
3			23°53
	2.20	N24°28W	
4			16°50
5	1.30	N7°40W	99°21
	1.76	S88°45'E	
1			

173°18
173.09
09
22
9
198
180
18

173 18
3 18

173°24
3 18
06

65
58
7 22 0

112

from N line

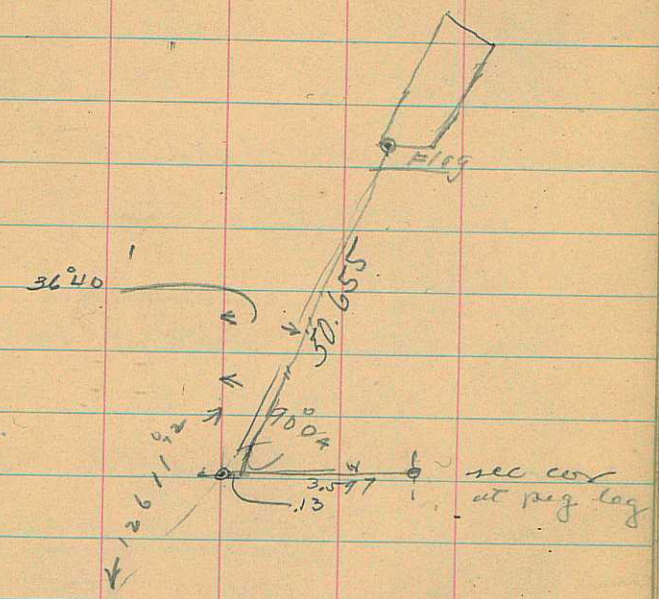
at point near fork 8

113

Tie for
Small tract
at Co Road

114

240 6C
118 36
122 0
36 6
24 6



ob. hr = 6°

∠ ∠ from Mag N. 126°41' E

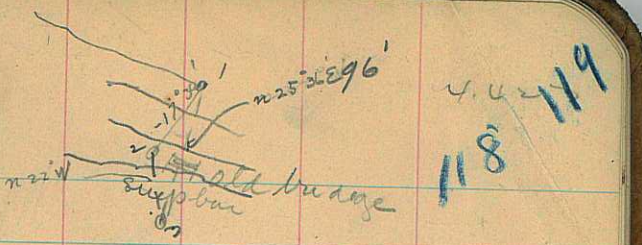
115

Blacksmith fork river plant.

Upper intake is
S 81° 05' E 13 400 ft.
distance from the south
1/4 cor of Sec 2. Tp 10 N. R
1 east

Outlet of upper intake
is S 73° 59' 10" E 7,757.2 ft.
distance from the south
cor of Sec 2. Tp 10 N R 1 E

Surv. at Blacksmith fork River, 2 Dec 20/06



4.42

119

118

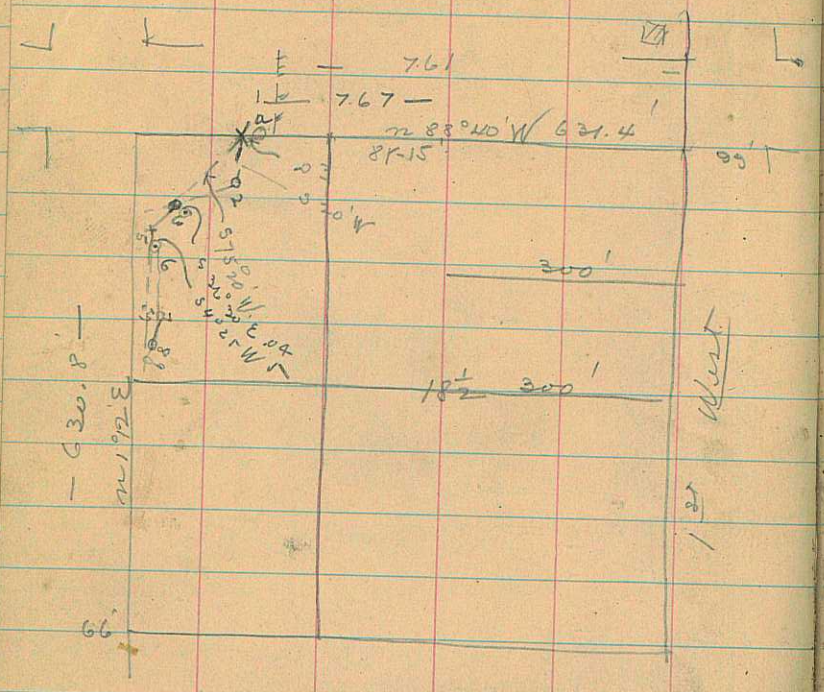
℄ Set on the point which is the E extreme end of the line which bear N 75° 30' W

7 24.1

Sta	Dist	Course	angle L	angle R	+	−	HI	Stadia U	Stadia L	Remark
			142°42							
1							3.84			℄ end of 2d line as described not top of dam can be 12' higher than
		S 37°05 W				17°36'				
2		N 22°W	22°00	from N line					3.84	
3										
2		N 22°W				-36°26'		4.57	4.40	set on 3
3										
		N 84°15 W	84°16'				4.42			
4				7°58'	4°16'		4.47	4.888	4.42	No. bet. 3 + 4 = 6.92
		N 76°5 W				1°15'				
5				20°03'			4.54	7.302	4.47	
6	52'	N 56°W	58°18'		00		5.19	10 ft E.R 11.667	11.407	than a pt 9' below top dam which pt is 6' lower
		S 65°40 W			00	00°7'		6.50		
7				25'			4.82	5.44	5.94	
		S 66°W								
8				20°34			4.73	5.316	4.82	
		S 86°30 W								
9								7.73	4.73	

Left for excavation

Sur for Roy O Thatcher
June 16/07



Beg at NE cor of Blk. 18½

N.W. 761 to fence N+S across st at a

" " 767 to post at NE cor of tract

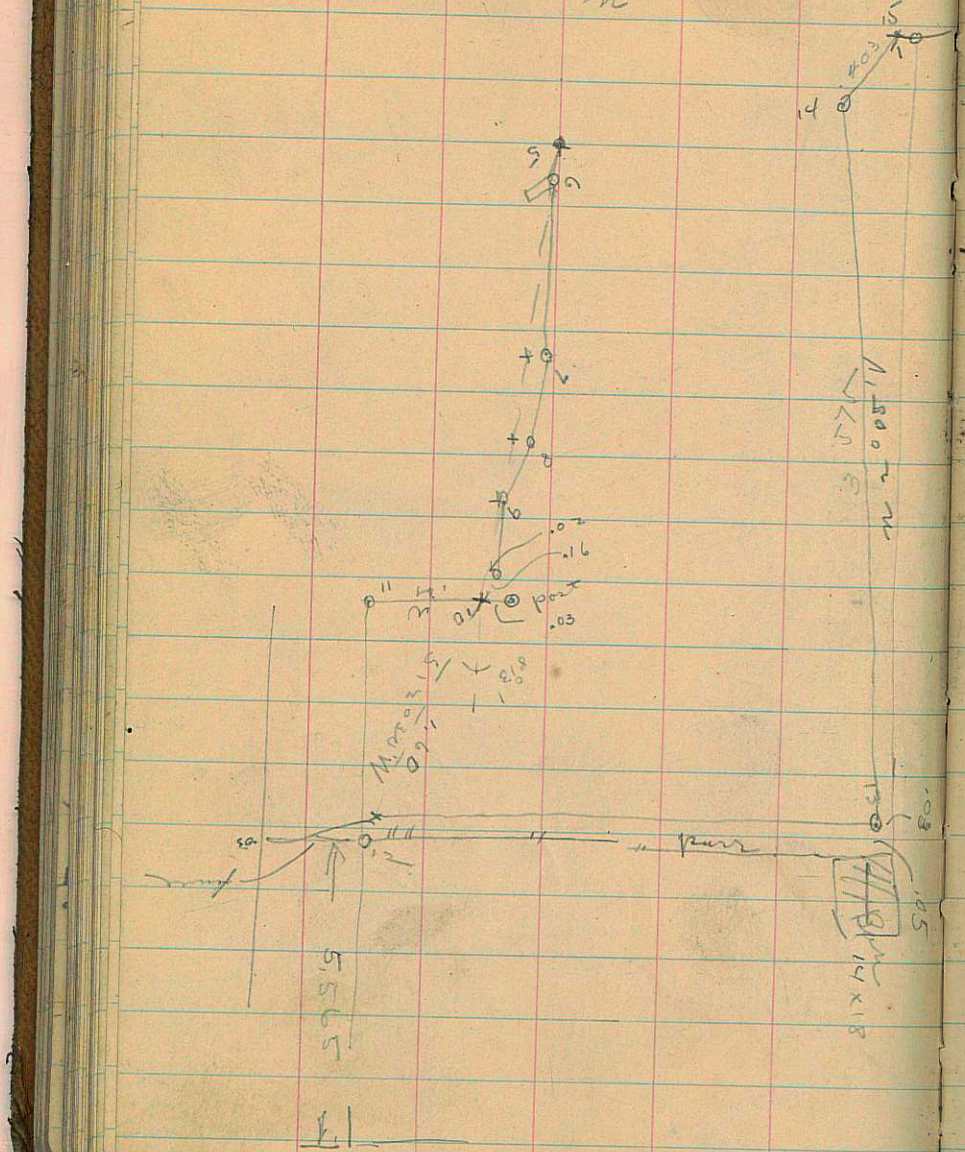
Thence from 1 which is pos of west .03 chains west of post a.

No	Course	Dist	Angle	R	
1					180 14 from N line
2	S 20° W	0.36 ch			
1				255°15	" " "
3	S 75°20' W	1.295			
3			113°10'		
4	S 36°30 E	.04			at post near 3
3			30°10'		
5	S 46°45' W	.30			
5					to post
6	S 4°25' W	.05			
5					.03 to fence on east
7	S 4°25' W	1. ch			
5					.03 to fence on east
8	S 4°25'	1.32			
5					Go to fence
9	" "	1.47			
5			41°41'		
10	" "	1.57			
10				85°44'	
11	W	0.31			To post
10				8°17'	
12	S 12°30' W	1.60			to fence post
12			102°12'		
13	S 89°45' E	1.872			
13			92°16'		
14	N 2°05' W	3.575			
14			31°58	31°58	
15	N 29°50' E	.403			

Corl

at 1 leg

121



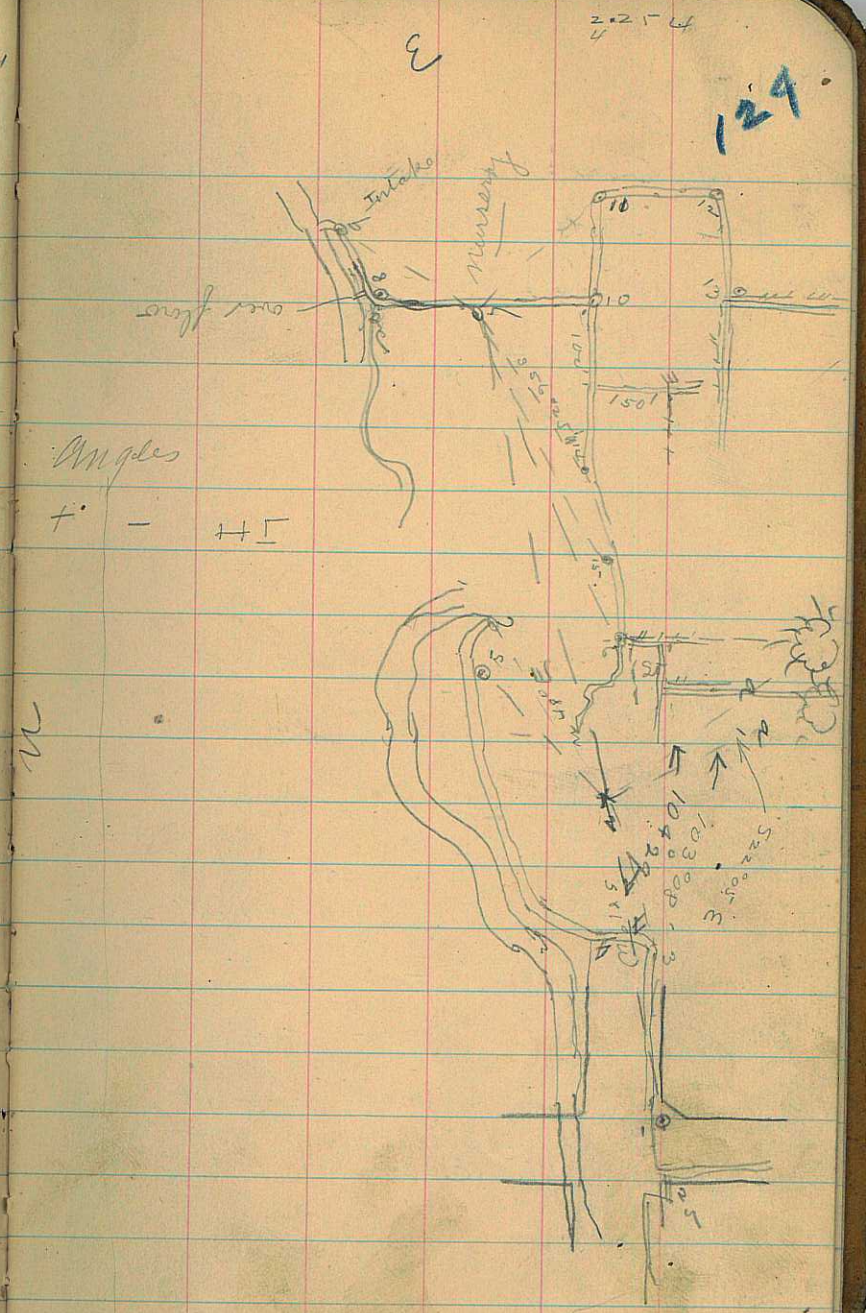
122

Note { no blocks marked on map on second and third east of Lilithon 4. E.

(a) Solar ob. 2/9/07 see sketch { H = 30°13

(a) { H = 30°35
Mag. Dir of Sun S 22°05

	No.	Course	angles L	angles R	U	Stadia L
	2			10308'	from Sun a, d.	
350	1	S 81° W, S 80°50 W —			4.00	2.254
146	2	S 66°30 W		88°35'	from Sun a,	
126	3	S 66 17 W —			4.00	3.27
284	4	S 81°30 W			4.00	3.37
292	2 5	N 40°40' E — N 40 50 E		242°58'	4.00	2.58
1082	2 8	N 47°40' E — N 48 E		24958	from Sun a, 4.00	2.584
220	2 7	N 79°46' E — N 78°10 E		280°04	9.41	4.000
336	11 7 8	N 5°27 — N 5°45 E	72°19	BS to 2	4.00	3.90
138	9 7 10	N 22°15 E — N 14°3 — S 10°11 E		100°31	4.00	2.32
160	7 11	S 31°50 E — 32 17 —		69°57	4.00	3.31
432	7 12	S 12°15 E — 12 36 —		89°38'	4.00	3.20
416	7 13	S 00°44' — S 00 30 E		101°30	4.00	1.843
					4.00	1.92

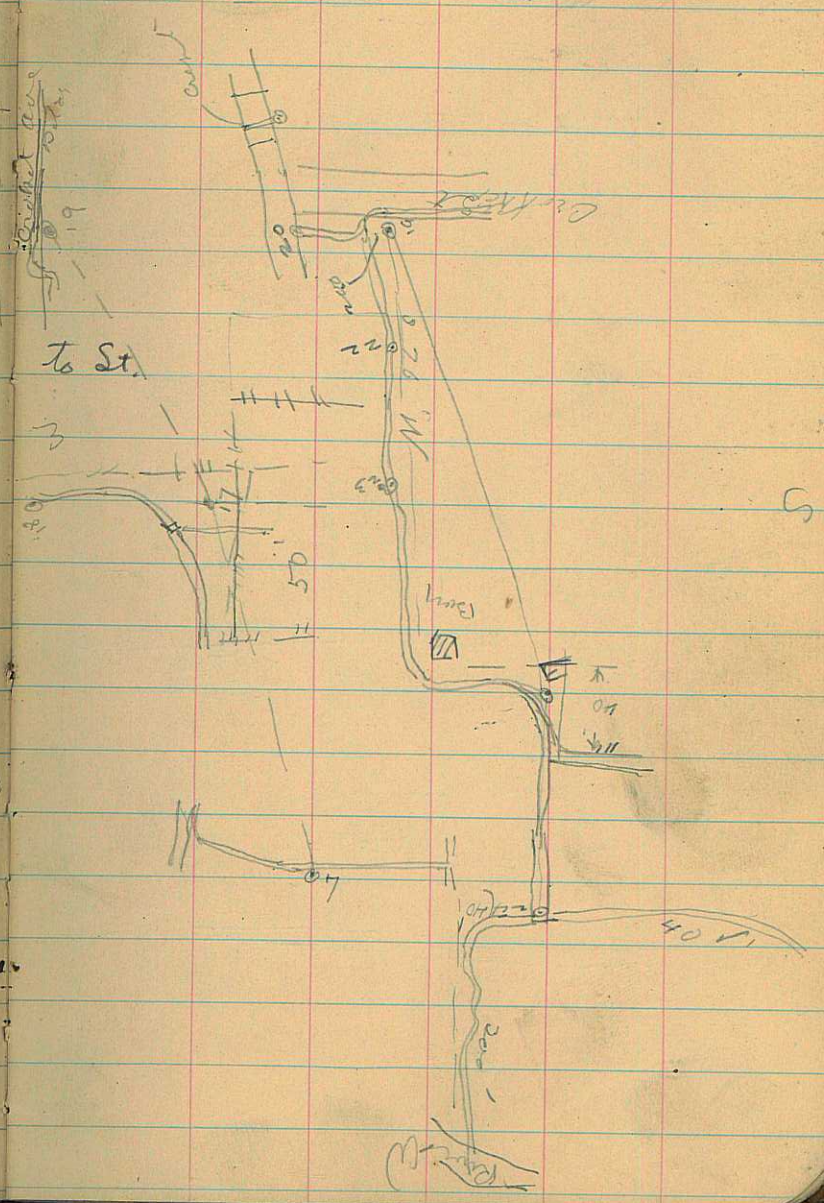


Dist	No	Course	Angles L	Angles R	Stadia U	Stadia L
278'	7	S 56°25'W		158°13		
	14	S 55 9—			4.00	2.61
440	7	S 61°50 W		163°41		
	15	S 61 27' W—			4.00	1.805
516	7	S 66°W		167°40		
	16	S 65 26 W —			4.00	1.42
927.4	7	N 64°35 E	13°20			
	17	N 64 26 E—			8.637	4.00
254	17	N —	64°24			
	18				4.00	2.73
645	17	N 55°40 E	8°28			
	19	N 55 58 E			7.225	4.00
60'	19	N 5°40 W—	60°28			
	20				4.00	3.70
	19	N 41 07 E	23°19'			
	21	N ~~7 30~~ E			4.00	3.40
	19	S 89°45 W	155°15'			
	22	S 89 11 W—			4.00	3.20
	19	S 74°20	155°44'			
	23				4.00	2.48

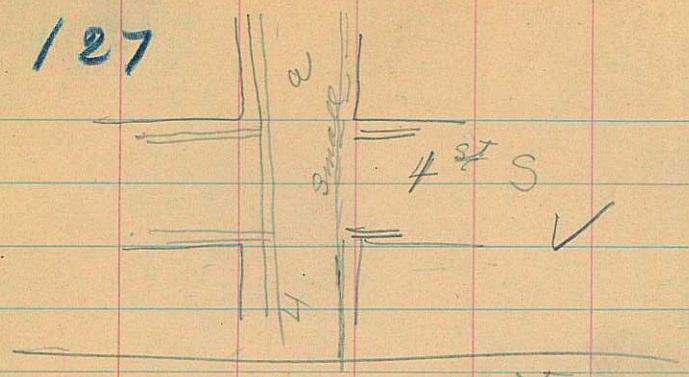
Set on 17 B.S. to 18

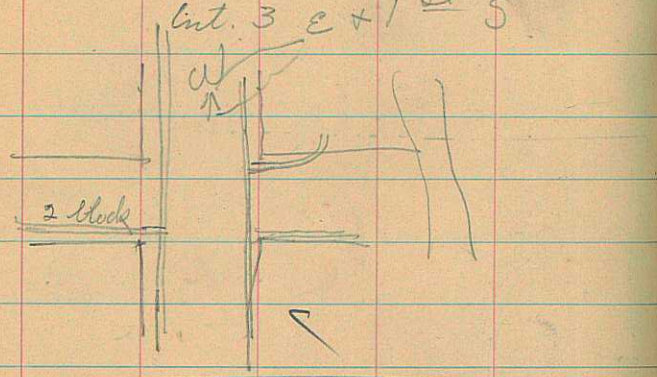
	17	N 89°20 W	90°45			
	24				4.00	2.85

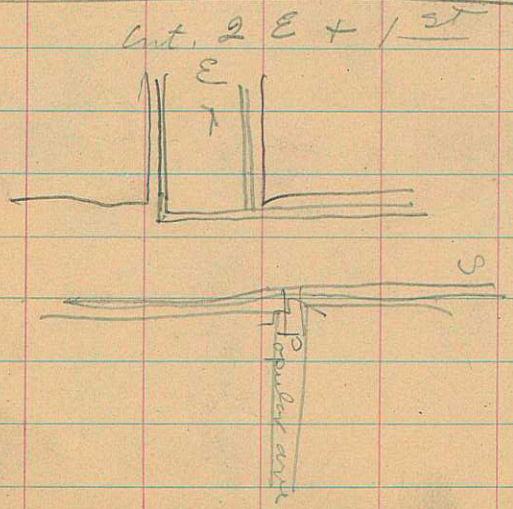
Notes. from 25 Pitch runs S 1 Blk on West ½ pus 12' from west side 5th E. Then from the S side 1st on 5th E it runs along fence S 1 Blk which is west side of 5th East.

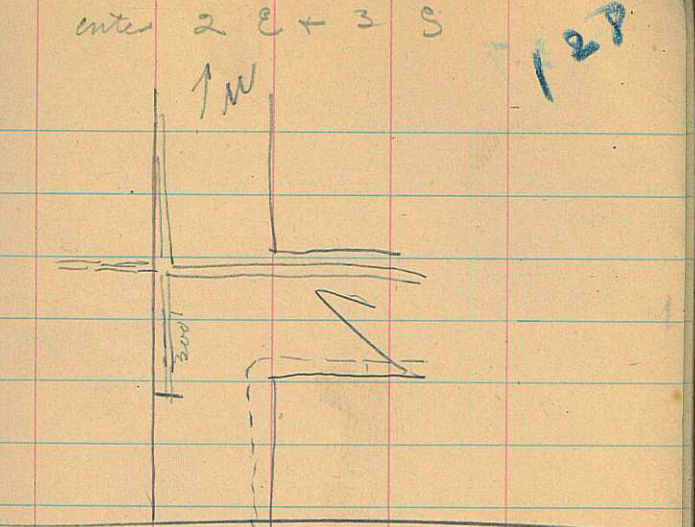


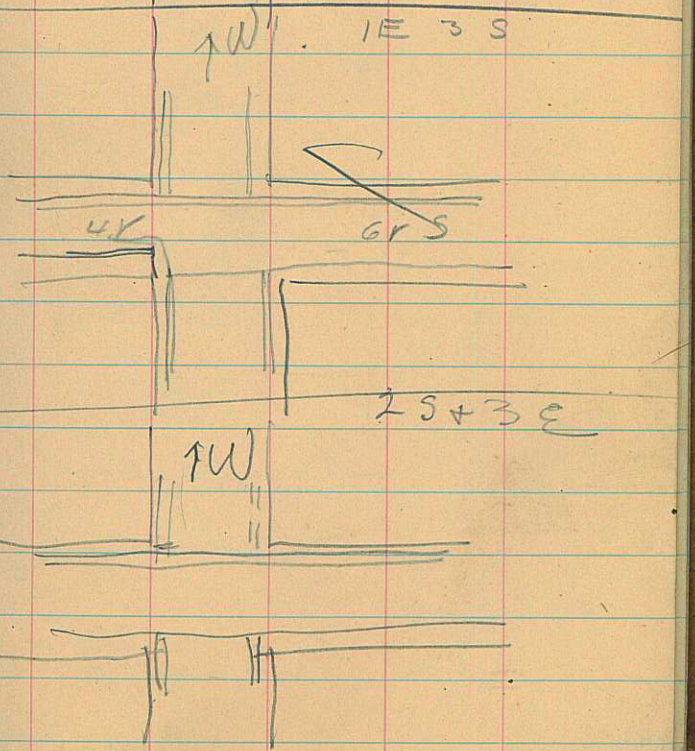
127


4 St S
Smith


Cnt. 3 E + 1 St S
2 blocks


Cnt. 2 E + 1 St
E
1
S
Popular ave


Cnte 2 E + 3 S
1 W
Lenox


1 W 1 E 3 S
4 St
6 St S
2 S + 3 E
1 W

128

129

Ob { 2/15/07
h = 31°01
P.M = 2'20

$$\cos Az = \frac{\Sigma D \mp}{\cos h \times \cos L} + \tan h \times \tan L.$$

Lat = 41°50'28" N.
Long 111°53 West.
D = 12 51' 36'

+1-1

Log 12°51'36 = T.34740
cos h Log 30°59'45 = T.93309
T.41431

Log 41°50'28 = T.87215
T.54216
= .34847

Log Tan 30°59'45 = T.77867
Log tan 41°50'28 = T.95202
T.73069
= .53790
.34847
.88637

27°35'

713
27
740

34 21
34 21
.3 0.

2759
2735
24

2759
5

Bearing of line 527 E
apparent B. of line

No 2 { 28°30' = h
D = 12 51' 36
Lat = 41°50 28
Long = 111°53

28°29'60
28°28'35

Log 12°51 36 = T.34740
Log cos 28°28'35 = T,94401
T.40339
Log Cos T,87215
T.53124
= .33982

Log = tan 28°28'35 = T,93431
Log tan 41°50 = T.95202
T.68633

.48570
.33982
.82552

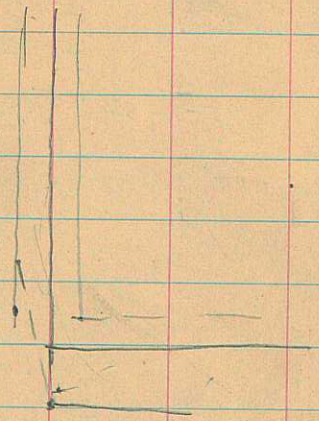
34°21

Over

137

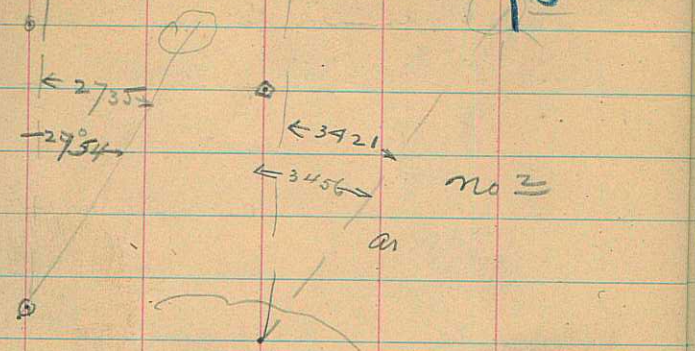
8 3 — 853 / 840 / .13

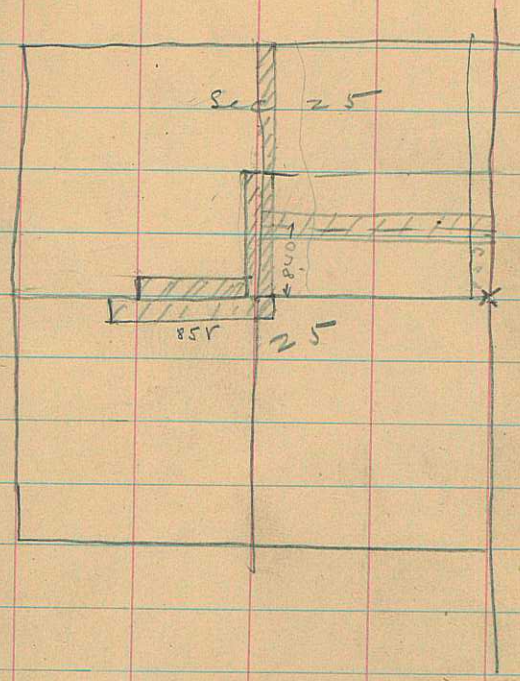
Inst located on brow on
SE
N 00° 32' W of West 1/4 cor
of sec 30 Tp 13N R1E.
Beg at a N 32' W 853
ft. from west 1/4 cor sec 30.
+ etc
Thence
angle
Dist Course ← R
89°28

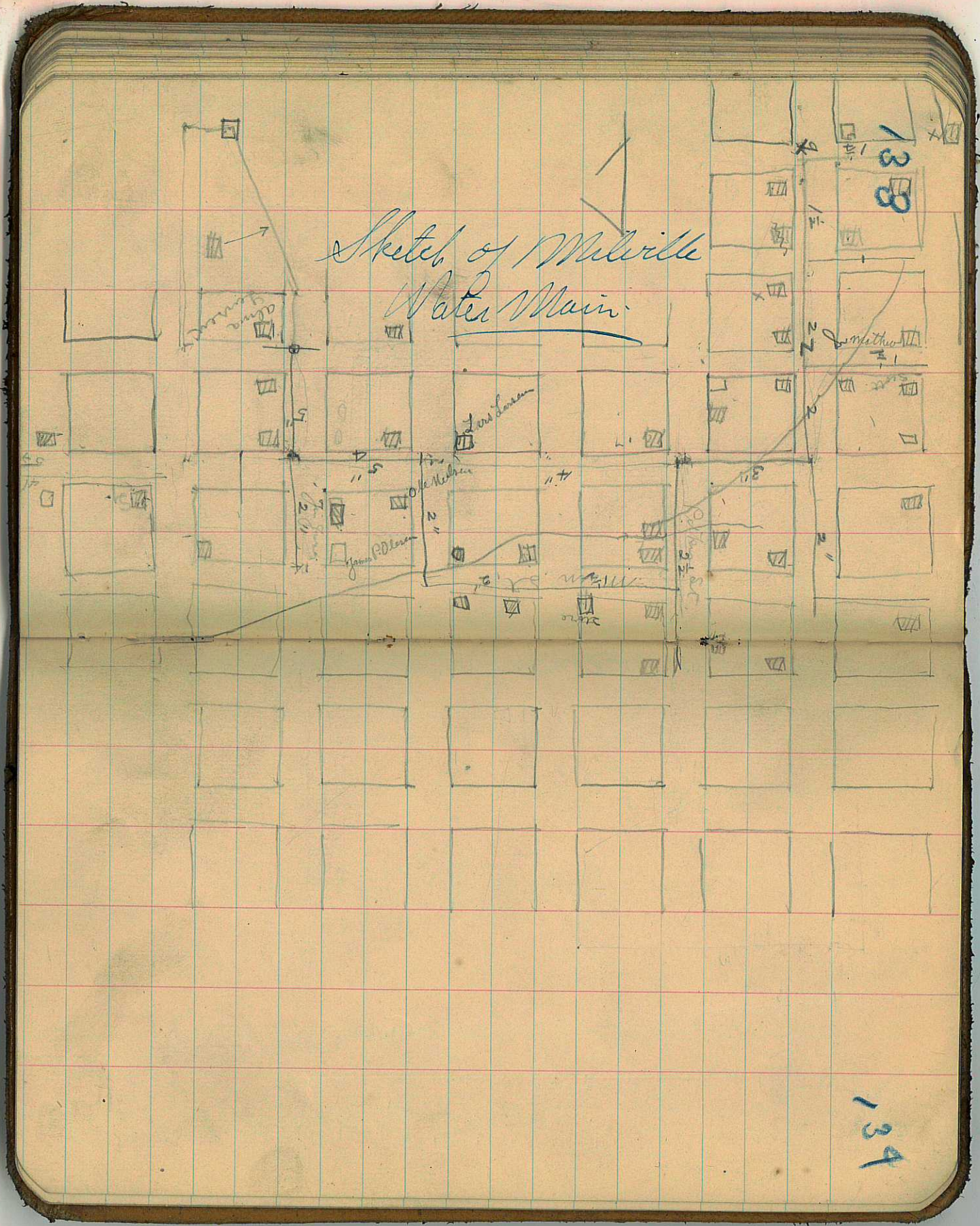


8960 / 89 28 — 3456 / 3421 / 35 — 3456 / 3451 / 05

132






Sketch of Millville
Water Main
Lars Larsen
Ole Nielsen
James C. Olsen
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
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31
32
33
34
35
36
37
38
39

135

Levels for Millville town.

Sta	Course	L	angle R	D	I	H
0						
PI 7+46.2	S 75°30' E		61°25			
	S 42½° W					
PC 6+09.2			25° L	D=12°30'		
6+59.2			6°15			
7+09.2			12°30			
7+59.2			12°30			
8+09.2			6°15			
8+54.2 PT			18°45			
9+000			6°15			
10+95			2500			
14+59						

Through hollow

0

1+79

R

1+79

1+12

1+ at spring

1+ at spring

7+46.2

7+70 at spring

136

$\frac{10°}{12.2}$
45.8

$\frac{R}{T} = \frac{2291}{137}$

Tile Line.

to sec. line E side Sec 15. T 20 N. R 1 E
to east end of Res.

137

Sta	B.S.	F.S.	H.I.	Elev	H.I.
1479	12.05			500	512.05
11+12			2.20	509.85	
12			1.52	510.53	
10		0.641		511.44	
10	6.67				518.08
PT			7.00	511.08	
8.54.2 + 7.09.2			7.05	511.03	
5			2.20	515.88	
4		.12		517.96	
4	8.62				526.58
2			5.	521.58	
TP 1+5		.33		526.25	
TP 1+5	10.30				536.88
0	37.64	.00			
	1.09				
	36.55	1.09			
Bm			4.48		

See over for sketch on tie

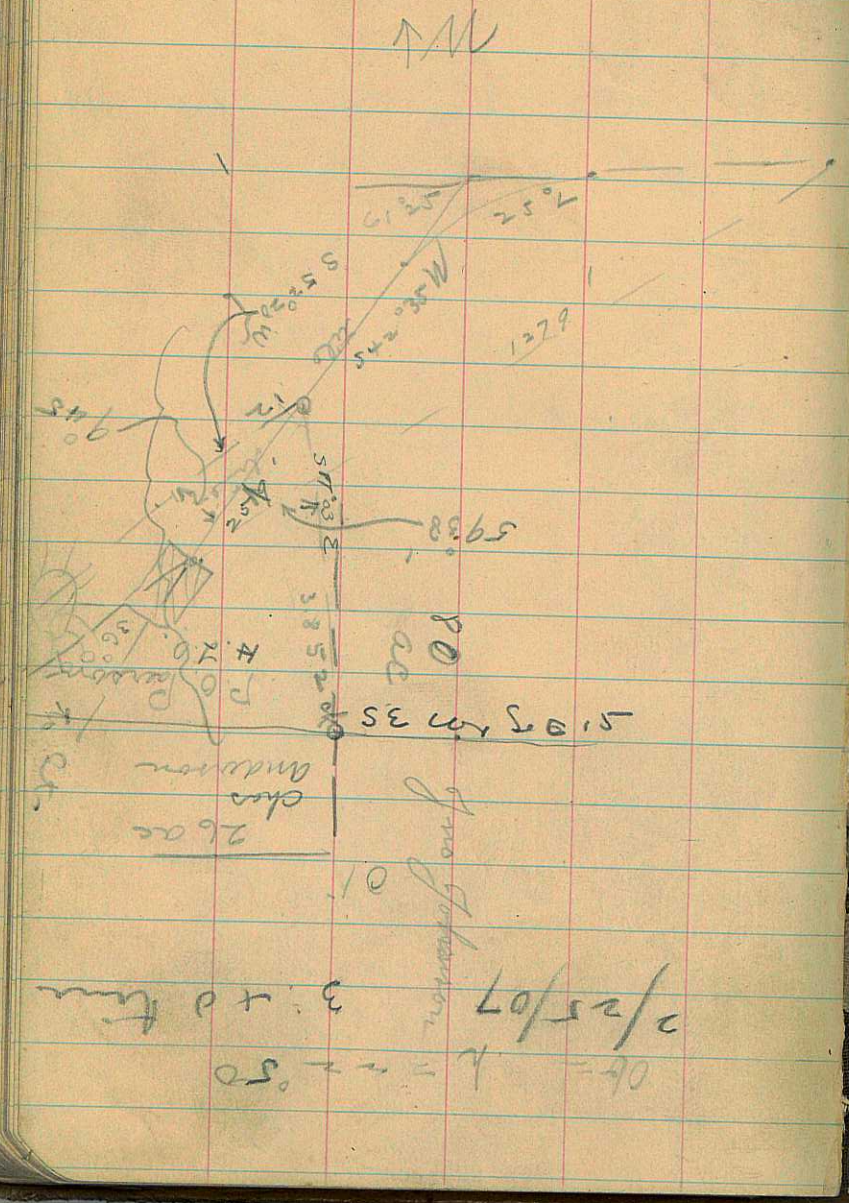
138

at R. on tie line
on P. line
on tie line

536.88
4.48
532.40

on Spring

on west in Box elder tree
on W of sp.



Grade for tile Millbrook Res.

Sta	BS	FS	HI	Ele	H.I.
	8.26				508.26
			7.80	500.46	
				502.46	
				500.46	
14			6.43	501.83	
			2.332		
13 T.P.		1.05	4.098	507.21	
13 TP	7.62		10.660		514.83
			2.332		
12			8.328		
			.400		
11			7.928		
			400		
10			7.528		
			400		
TP 9		3.818	7.128	511.01	
9	5.38		8.690		516.39
			184		
PT 8+54.			8.506		
80			200		
74.5 4			8.306		
			200		
7.04			8.106		
			200		
			7.906	508.49	

7.80
10.60
508.26
10.60
497.66
7.5
2.8

508.5
500.46
3.00

505.26
7.80
500.46

6.43
1.55
.88

142

501.83
2.33
504.16

at Res on ground.
top of Res. Hub
on Hub SE cor of Res
2' above Hub to top of Res.

to top of Res.

grade from Sta 1459 to
12 = 2.332

Grade at east side Res

RR on	cut for
.55 hub	.88 = 10"
1.05	3'
4.26	4'1"
4.38	3'7"
3.52	4'
3.818	3.31
5.18	3.33 (3' 4")
5.40	2.91 (2'11")
5.93	2'2"
5.45	2'6"

8.328
4.26
4.068

Sta	BS	FS	cm	Ele	HI
4+04					
4+50		7.906	508.49	516.40	
		975			
6+59		6.931			
5+00		.975			
6+09		5.956			
TP		2.120			
5	8	3.836	512.67		
5	8.22	11.446		524.11	
		1.95		622	
		9.496	514.61	517.89	
4		1.95			
		7.546			
3		1.950			
		5.596			
2					

Leads from Alma Larsen to Ole Nelson

000 11.40

0.93

10.50

1.21

12.00

.48

.460

2.62

see over

RR on cut.		
5.55	2'6"	
4.47	2'6"	
3.51	2'5"	1.950/0
0.61	3.226	
6.22	3'3"	
4.55	3'	
2.60	3'	

St grade angle

U | L — +

at Alma Larsen 70 W of E.n. St

at 1 B west of alma Larsen

8.32 +60 2°10' at a pt 2 B W of alma Larsen

on nail at Lars Larsen cor

145

Sta BS FS HI Ele HI V L + −

Y 6

Z 4.80 clnt set at Z

#9 9.69 2.0 1°01' + 2. from Z to #9

Stadia angles

36.00 − 30.6 = 5.4 ; 8.0 − 4.4 = 3.6 ; 5.4 + 3.6 = 10.0

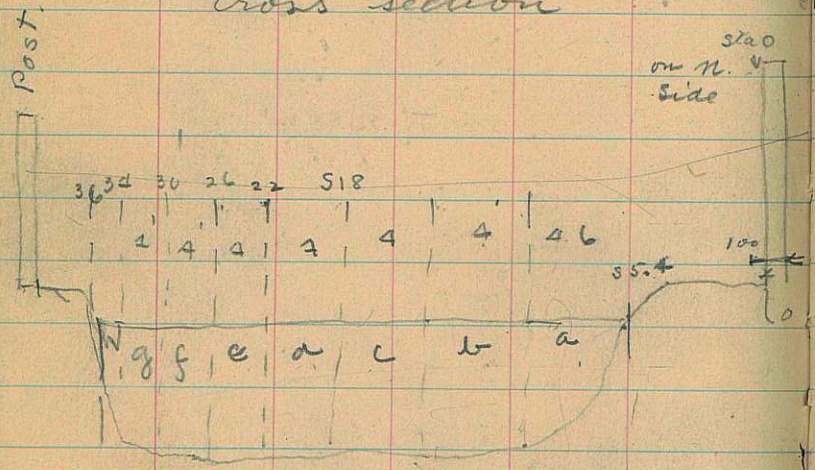
14.4

on y-ne station

Measurements on Blacksmith fork River

March 8/07

Cross section



See over

Sta	BS	FS	HI	Ele	HI	
0	4.46			100.0	104.46	on BM on nail
0		5.22		99.24		on ground at post
04.4		5.45		99.01		on gr.
05.4		5.89		98.57		on H2O
10.0		8.64		95.82		on gr in creek
14.+		9.11		95.35		
18		9.05		95.41		nail
22		9.16		95.30		
26		9.33		95.11		
30		9.72		94.74		
34		8.15		96.31		
36		5.9		98.56		on H2O at contour
38		4.83		99.63		on gr.

149 R. per min.

Meter reading

Sec. a

5.4
2.3
7.7

R.

1.- 8 2-12 3-18 4-15

av.-R= 13.25

7.7
2.3
2
12.0
4

¼ ½ Sec. b ¾

1-44 2-39 3-31 4-

av-R= 38

from Sec. ¼ ½ Sec c ¾

1-66 2-56 3-54

av-R= 58.66 ✓

16.
4

Sec. d

1-69 2-66 3-56

av-R= 63.66

20
4

Sec e

1-68 2-59 3-53

av-R= 60

24
4
28

Sec. f

1-62 2-59 3-49 av-R=5666

28
5
33

Sec. g-h

1-23 2-22 3-16

av-R= 20.33

mean v= 1.666

Q= 124.23

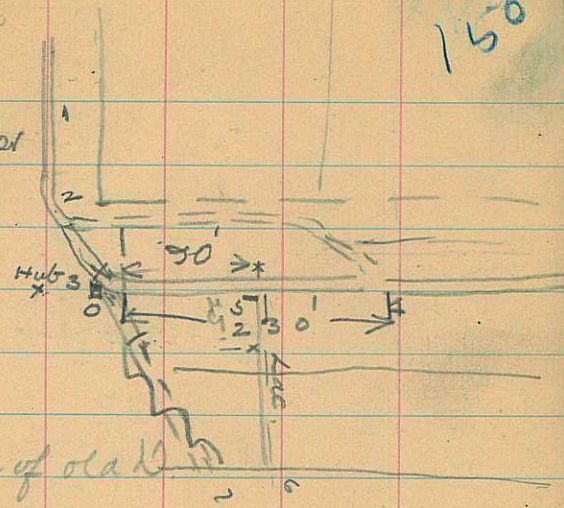
Lev for Ldr Bridge

179 3/12/07

Sta	B.S.	FS	HI	Ele	HI
1.	9.22				
2.		8.60			
3		7.36		on Hub	
3		8.70		on gr.	
4		7.30			
5		8.02		on gr	
6		7.50		on E-S. Ld. on ground	
7		7.75			
0					
0+90					
1+15					
1+58					

8.70 / 5.26 / 8.20 / 7.50

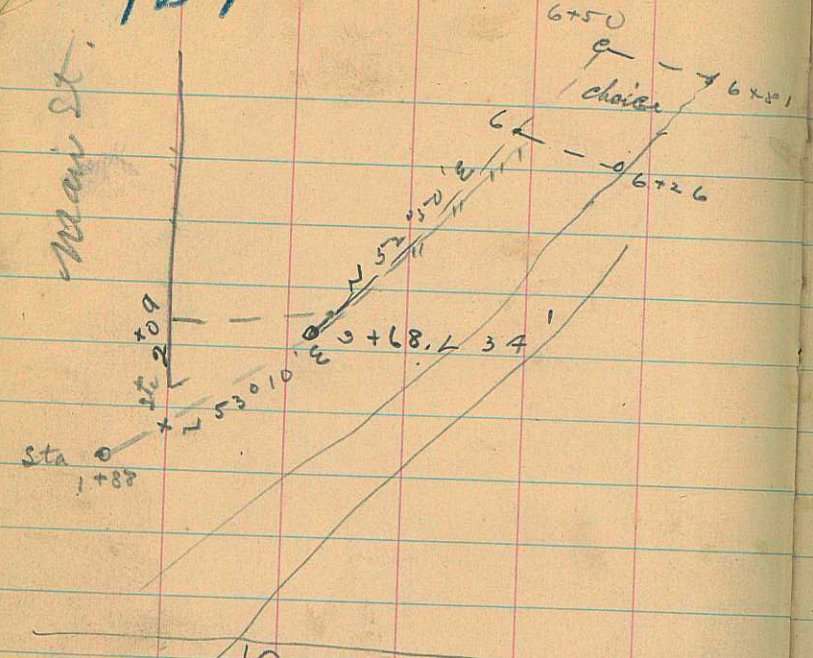
W 7. 8.76 / 7.34 / 1.50



in bottom of old Ld.

at turn X

being of Sewer pipe,
end of " "



Direct levels from Hub ℄ South of Sta 0.

	BS	FS	Rise	Elev	HI
0	5.62			100.0	105.62
0+90			5.12	100.5	
1+15			4.36	101.26	
1+35			1.76	103.86	
1+58			5.20	100.42	
PI 1+88			5.38	100.24	
3			4.52	101.10	
PI 3+68	34' L		3+40	102.22	
~~H~~ H			3.20	102.32	
TPA		2700	7.	102.92	
4	6.82				109.74
5			7.05	102.69	
5			6.38	103.36	
6			5.97	103.77	
6+26			9.15	100.59	
6+26			8.51	101.23	

over

hub,
on ∧ cut 1.36 to gr.
on main ditch line
on hub being of Sewer pipe
on road center
end of sewer pipe on hub
on hub. ℄ point
on hub level with contour
on contour
" "
on nail in post
on ground
on nail in post.
on hub.
on river water
on hub

153

Sta	BS	FS	HI	Ele	
6+12			7.60	102.14	109.74
6+50			4.58	105.16	
6+81			8.42	101.32	
6+81		9.02		100.72	

Line for Hyrum Irr. Co.
March 3/07

Sta 0 at NE cor of Blk nt.
3 north + 1 West. and 14' north of Blk line.

Sta 0	
1+60	
6+65	
7+59.5	
14+27.4	
15+19.8	
21+88	
22+78.7	
30+19.5	

See over

154

on hub
" "
on nuts

a point where da ditch cross St
west line of B.
E. " " "
West " " "
E " " "
West " " "
E. " " " 4th West
E side B.K. 5 west

155

Sta	BS.	FS	Im	Ele	H.I.
15+06	9.90				
13				5.28	
10				5.62	
TP 7+59.5		3.06			
7+59.5	7.00				
				7.48	St.
6+65				7.88	
5+00				4.49	
1+60				5.180	
				142	
2				5.322	
				.380	
3				5.702	
				.380	
4				6.082	
				.380	
5				6.462	
6+65				8.23	
				.16	
6				8.07	
TP 7+59.5				9.00	
7+59.5					
7+59.5				2.720	
				2.07	
8				4.790	
				.34	
9				5.130	
				.83	
				5.960	

5.70
2.94
2.76

5.32
3.1
2.22

154

RR on Hill cut on Sub grade of Sta 1+60 cut 2' this ft 2'
" " " 1½

in center of road.

on ground in bottom of Sta 1+60 to 5+ = .3 ft

3.1 from 2.22

2.94	2.76
3.69	2.40
	2.00
7.63	.600
7.52	.55
6.93	2.07
2.70	2.43
4.70	1.30

107

on gr

Sta	BS	FS	HI	Elev
9			5.96	
		.83		
10		6.79		
		.55		
11		7.34		
		.55		
12		7.89		
		.55		
13		8.44		
		.55		
14		8.99		
		.58		
		9.57		

1000
7.59
241

6.74
5.32
1.47

RR on cut · 241

Hub

5.32	1.47	.0983
		.41
		.83
		332
5.17	2.29	3403
5.20	2.70	
5.00	3.44	
6.00	3.00	

7.90
5.20

7.70
5.17
2.18

3.06
2.07
5.13

5.62
1.50
7.12
5.13
1.99

2.000 (241
1928.83
720
723

106
.55
530
530
1830

159
1506
1340
206

1845
206
5070
1690
1.740 7.42

9990
1.74
8.16
5.32
2.84

83 1536 642 22.28

8 22.28 100.00 1700 1200 500

2.

83 door dam 7'

100. at 4

88 at 5

81 at 6

206 .55 1030 1030 11330 990 1133 8.77 5.32 3.45

9.90 7.12 2780 2530 2500 2024 4760 4154 506 549

1845

4.888 432 .468

3 .936 4 7.42 4 1872 3744 6552 6945.12

4.57 440 17 12 .28 11.54 4.54 700

4415 28 35320 8830 123620 3 925 25 7400 1850 25900

2.15

5.62 1.50 7.12

1845

5.62 1.50 7.1

9.90 5.62 4.28

5.28 250 1.78 5.28 3.00 8.28 .845

5.62 150 7.12 506

4.28d 506 4004800.845 2530 2024 2960 1230

206 7.30 1.55 4.47 1030 283.2 1030 5664 1.1330 2.15 28320 990 5664 3 11328 8.77 5.32 3.45 12.17760

500 160 340 100.38 .40 .1420

4.49 2 6.49 5.18 1.3 10 340 10 20.38 .2900 2720 180

1506

506

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