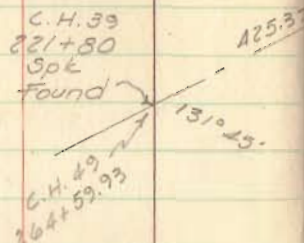


FB 700

Survey of C.H. 51
Richland Township

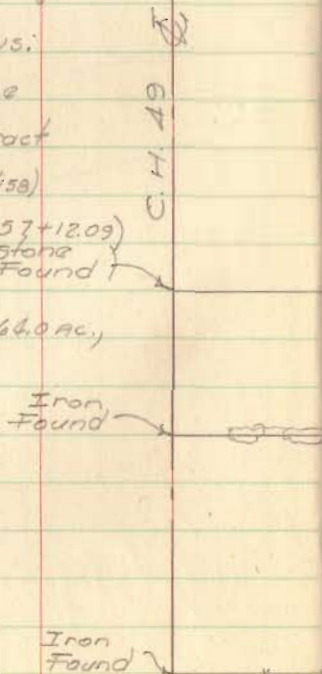
By order of Richland Twp. Trustees.
Staked 60' wide

0+00 E.P. spt. found @ C.H. 39
See F.B. 579 pg 30 (Sta. 240+17)



18+06.18 Hub set as follows:

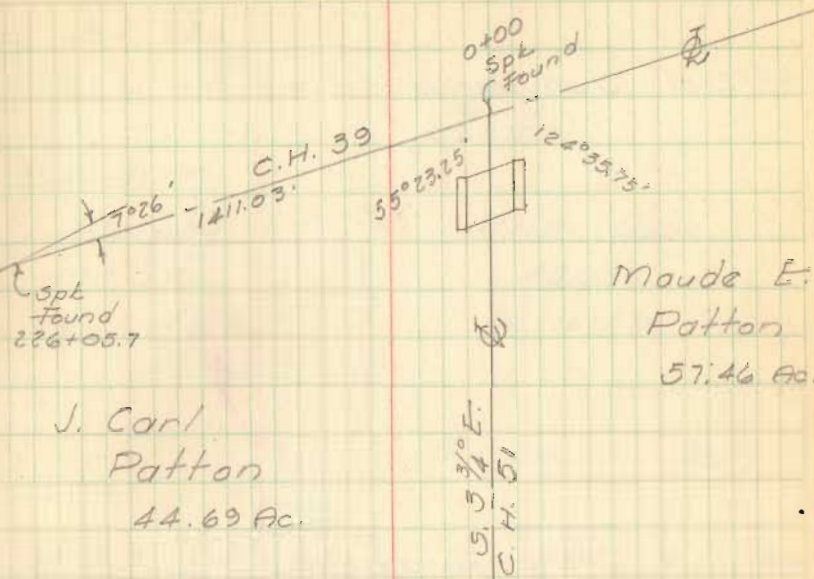
produced fence, E. line
V.L. Varner's 20.00 ac. tract
north 1077.8' (Vol. 269/150)
set hub, meas. E. 50.82' (257+12.09)
on line of hub & stone
@ N.W. cor. M. Phillips' 64.0 ac.,
set 4th Hub for C



D. Tevis
D. Bicketts
T. Tillman

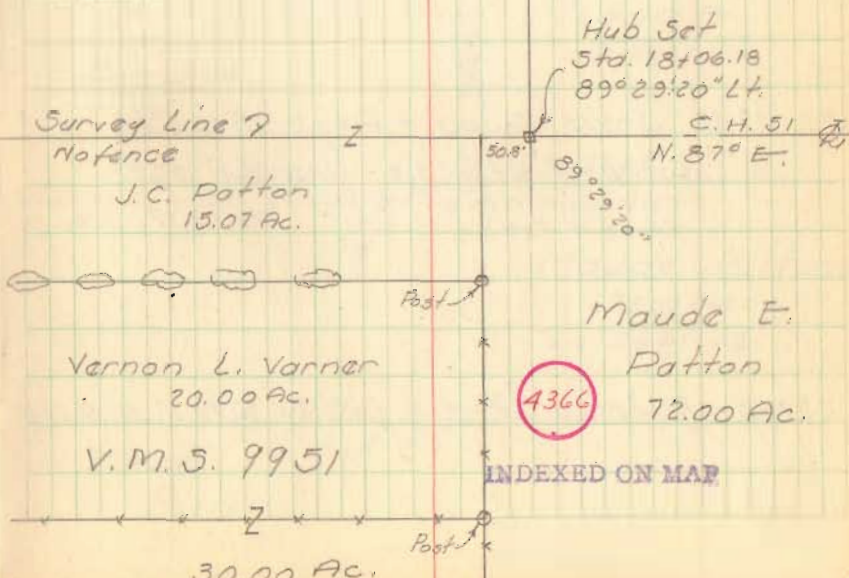
July 16, 1962
90°

17



V.M.S. 9972

Survey Line 7
No fence
J.C. Patton
15.07 Ac.



FB 700

C. H. 51 Cont'd

69+73.81 Iron bar found @ S.E. 638

44+53.27 Stone Found - Angle $0^{\circ}56.6'$ Et. "calc."
 Cor. post Lt. @ 29.1' - meas. from N.W.
 Cor. I. T. Murphy 1749.0 - Dug, found stone @ 1746'±

33+37.43 Stone Found - Angle $0^{\circ}15.2'$ Lt. "calc."
 Cor. post Et. @ 3.5' - fence Lt. @ 37.0'
 Meas. from S.W. cor. M. Phillips 1980.0 - Dug, found stone @ 1985'±

25+69 R fence Lt. - Cor. post Lt. @ 20.6' Et. @ 14.6'

Lewis
 Ricketts
 Tillman

July 17, 1962

18

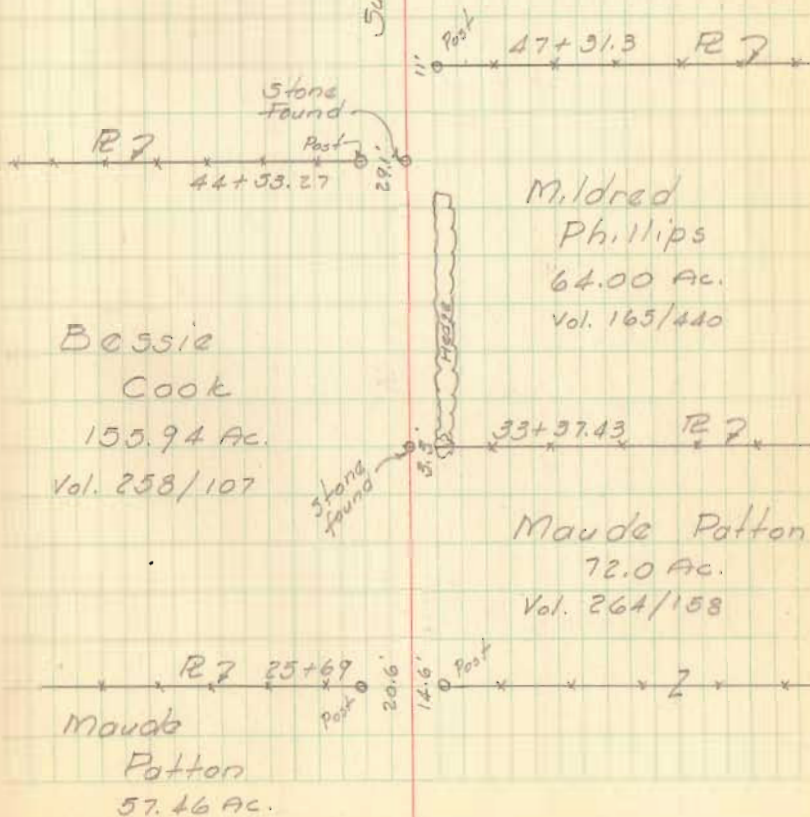
S.E. 638

Iron Bar
 Found
 69+73.81

Isabell T.
 Murphy
 100.0 Ac.
 Vol. 227/318

Ralph Quay
 40.0 Ac.
 Vol. 147/39

Survey Line ↙

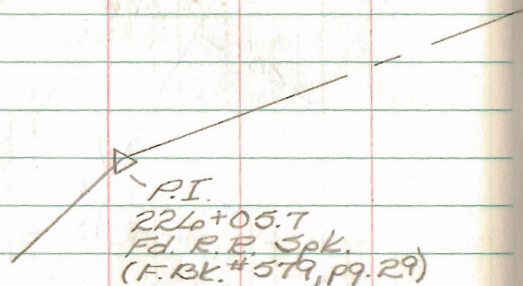


FB 712

Part of T.R. 51
Richland Twp.
Logan Co., Ohio

0+00 - P.I. - Fd. R.R. Spike -
Intersection C.R. 39 w/ T.R. 51 -
C.R. 39 notes (F.BK. # 579, pg. 30)
show no angle here but there
is a slight one.

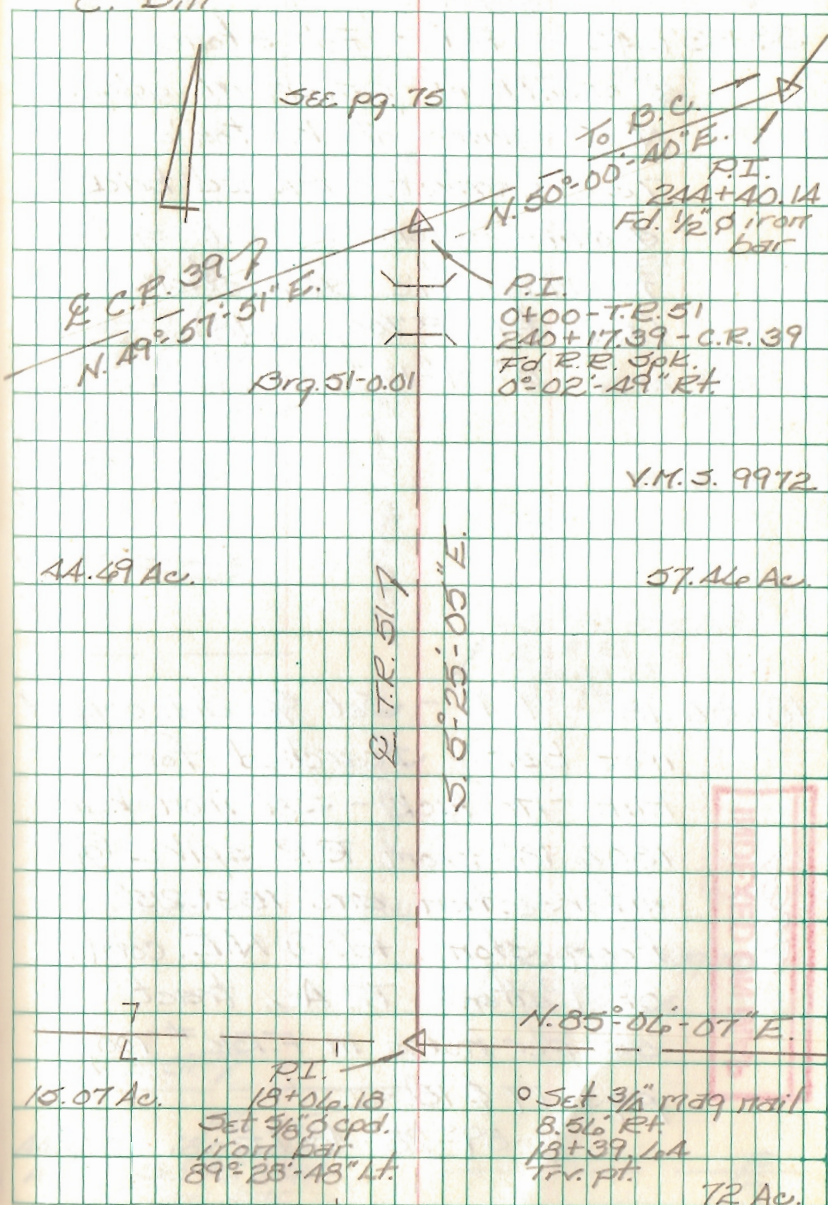
INDEXED ON MAP
438610



18+06.18 - P.I. - Set $\frac{3}{8}$ " dia. capped
iron bar - Searched for
hub - no luck - Set iron bar
1804.18' from R.R. spike @
intersection and 1531.25'
from stone fd. @ N.E. corner
of Patton's 72 Ac. tract
as per notes in F.BK. # 700,
pgs. 17 & 18.
89°-28'-48" Lt.

B. Simmons
G. Dappert
C. Dill

Sept. 2012



44.49 Ac.

57.46 Ac.

16.07 Ac.

72 Ac.

FB 712

Part of T.R. 51
Richland Twp.
Logan Co., Ohio

44+53.48 - P.I. - Fd. Stone -
S.E. corner Patton Farms
149.5 Ac. tract - Placed
brick around stone + a
R.R. Spike for magnetic
attraction.

(Ref: F.B.K. #700, pg. 18)
0°-22'-54" Rt.

INDEXED ON MAP
4 Plate

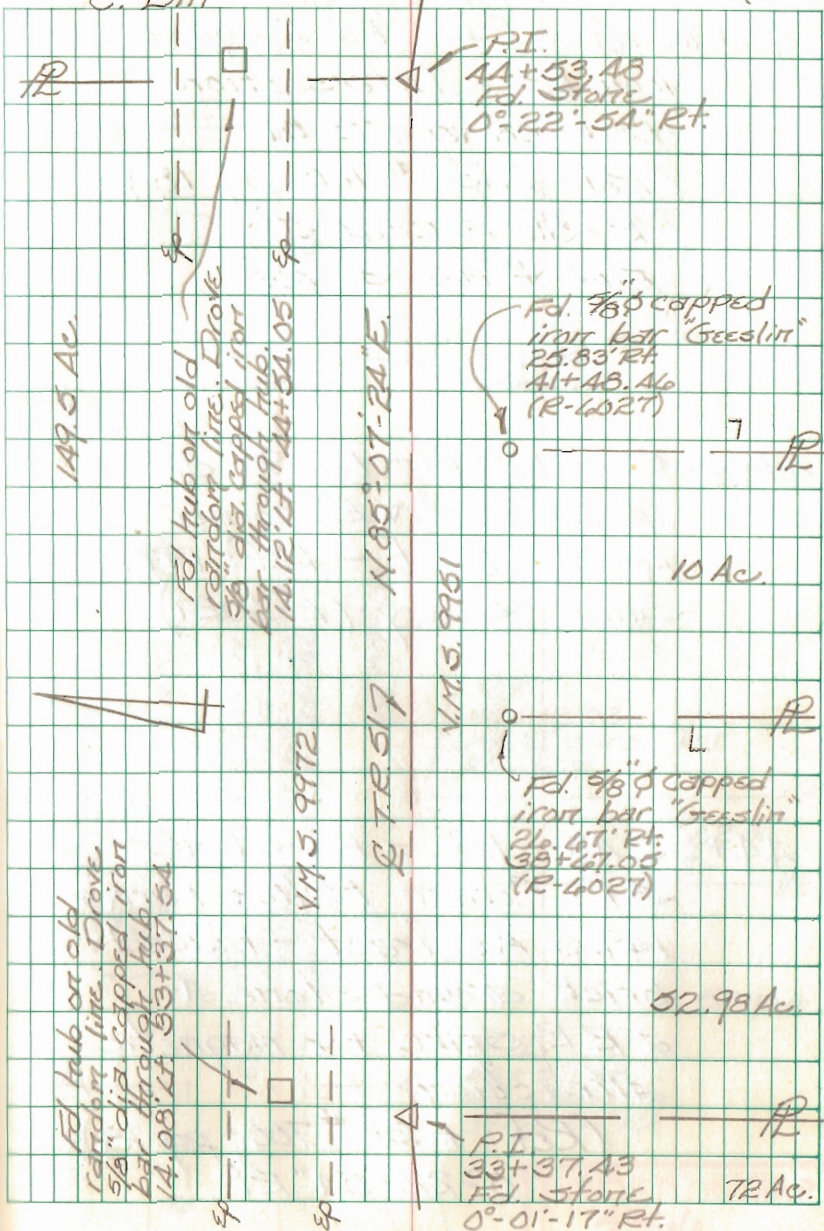
33+37.43 - P.I. - Fd. stone -
N.E. corner of Patton's 72 Ac.
tract - Placed brick
around stone + a R.R.

Spike for magnetic attraction.
(Ref: F.B.K. #700, pg. 18)
0°-01'-17" Rt.

B. Simmons
G. Dappert
C. Dill

Sept. 2012

7



FB 712

Part of T.R. 51
 Richland Twp.
 Logan Co., Ohio

49+76.67 - P.I. - Fd. 1" square
 iron bar - Intersection
 U.S.R. 48 w/ T.R. 51.
 (Ref: F.BK. #700; pg. 18)
 (R-8105; R-4027)
 End of this survey

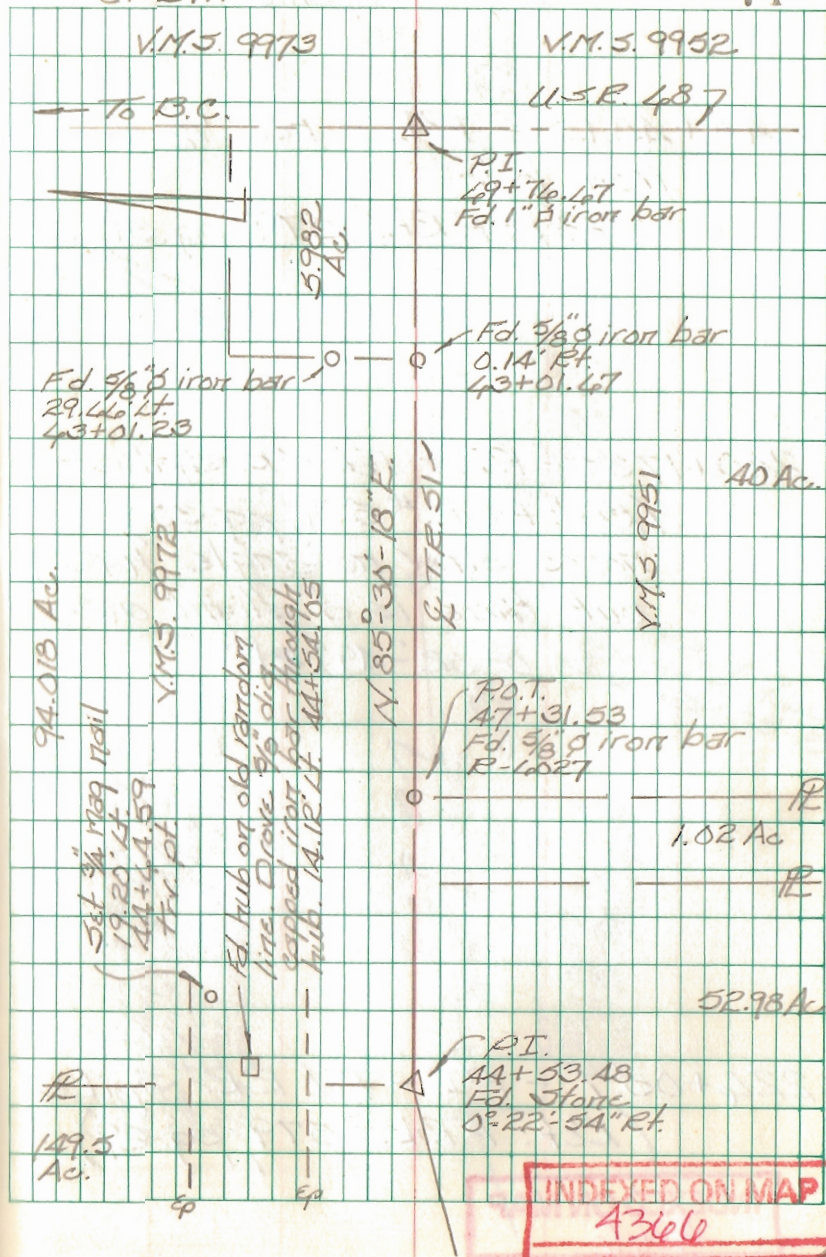
47+31.53 - P.O.T. - Fd. 5/8" dia.
 iron bar - N.E. corner
 1.02 Ac. tract - Ref: 1977
 Shirk Survey (R-4027)

44+53.48 - P.I. - Fd. Stone -
 S.E. Corner Patton Farms
 149.5 Ac. tract - Placed
 brick around stone +
 a R.R. Spike for magnetic
 attraction.
 (Ref: F.BK. #700; pg. 18)
 0°22'-54" Rt.

B. Simmons
 G. Doppert
 C. Dill

Sept. 2012

74



FB 712

Intersection C.R. 39 w/ T.R. 51
 Richland Twp.
 Logan Co., Ohio

244+40.14 - P.I. - Fd. $\frac{1}{2}$ " dia.
 iron bar
 (Ref: F.B.K.# 579, pg. 31)

240+17.39 - P.I. - Fd. R.R. Spike -
 (Ref: F.B.K.# 579, pg. 30)
 notes show no angle here
 but there is a slight one
 $0^{\circ}02'49''$ Rt.

224+05.7 - P.I. - Fd. R.R. Spike
 (Ref: F.B.K.# 579, pg. 29)

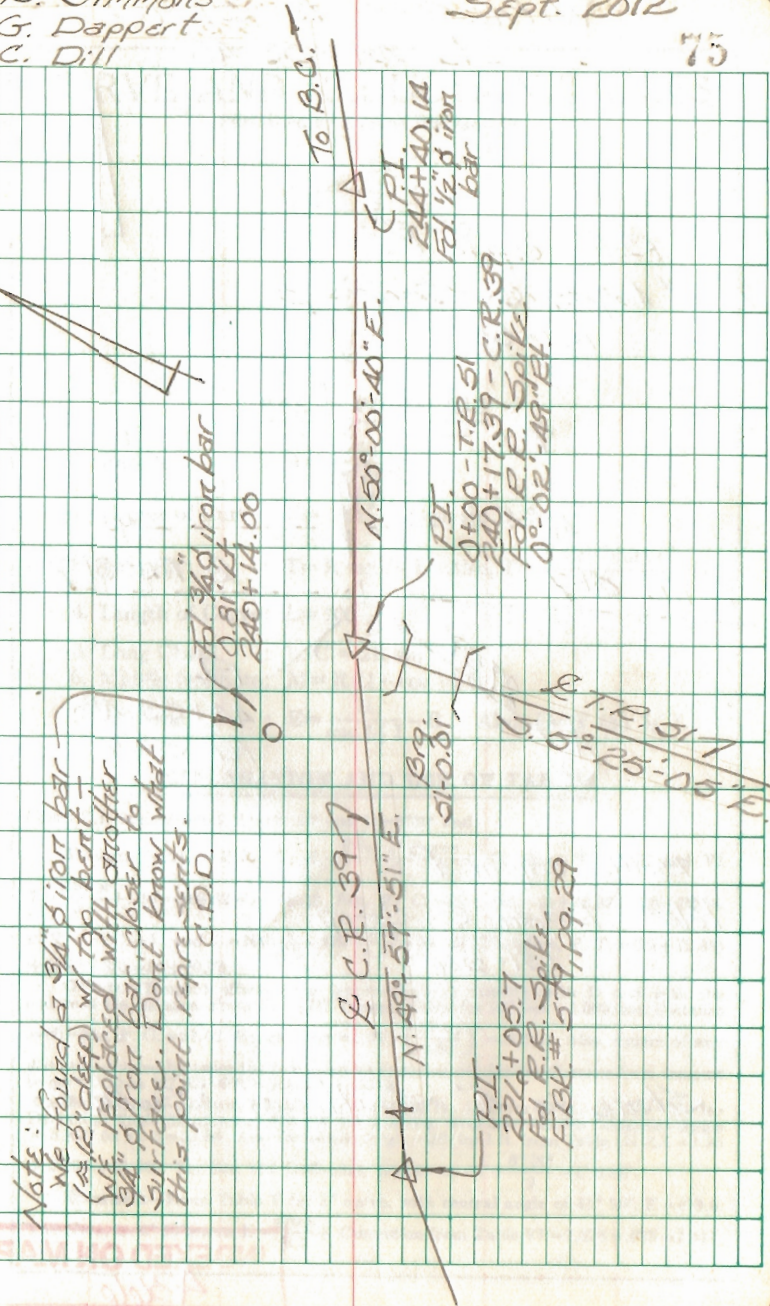
INDEXED ON MAP

4366

R. Simmons
 G. Dappert
 C. Dill

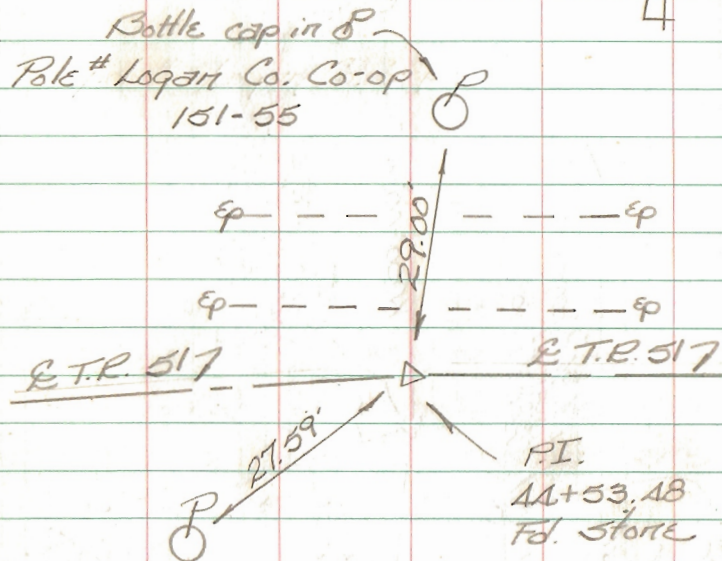
Sept. 2012

75



FB 712

Witnesses to Stone
Sta. 44+53.48



Bottle cap in P
Pole # Logan Co. Co-op
151-56

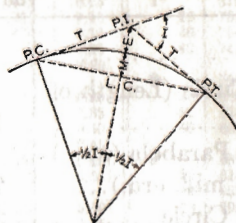
Stone is 4' South of South ep

INDEXED ON MAP

4366

CURVE AND REDUCTION TABLES

Published by Eugene Dietzgen Co.



CURVE FORMULAS

- Radius : $R = \frac{50}{\sin D/2}$
- Degree of Curve: $D = 100 \frac{I}{L}$. Also, $\sin D/2 = \frac{50}{R}$
- Tangent : $T = R \tan \frac{1}{2} I$. Also, $T = \frac{T \text{ for } 1^\circ \text{ curve}}{D} + C$.
- Length of Curve: $L = 100 \frac{I}{D}$
- Long Chord : $L.C. = 2R \sin \frac{1}{2} I$.
- Middle Ordinate: $M = R (1 - \cos \frac{1}{2} I)$
- External : $E = \frac{R}{\cos \frac{1}{2} I} - R$. Also, $E = T \tan \frac{1}{4} I$.

EXPLANATION AND USE OF TABLES

Given P.I. Sta. 83+40.7, $I = 45^\circ 20'$ and $D = 6^\circ 30'$ find:

Stations—P.C. = P.I. - T. $T = \frac{T \text{ for } 1^\circ \text{ Curve}}{D} + C$. From Tables V and VI
 $T = \frac{2392.8}{6.5} + 197 = 368.32 = 3 + 68.32$. Sta. P. C. = 83+40.7 - (3+68.32) = 79+72.38.
 P. T. = P. C. + L, and $L = 100 \frac{I}{D} = 100 \frac{45.33}{6.5} = 697.38$ Therefore, P. T. = (79+72.38) + (6+97.38) = 86+69.76.

Offsets—Tangent offsets vary (approximately) directly with D and with the square of the distance. From Table III Tangent Offset for 100 feet = 5.609 feet. Distance = 80 - Sta. P. C. = 27.62. Hence offset = $5.66 \times \left(\frac{27.62}{100}\right)^2 = 432$ ft. Also, square of any distance, divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(27.62)^2 \div (2 \times 881.95) = 432$ ft.

Deflections—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For "X" ft., Deflection Angle (in minutes) = $3 \times X \times D$. For Sta. 80 of above curve Deflection Angle = $3 \times 27.62 \times 6.5 = 53.86'$. Also Deflection Angle = $d \times I$, for 1 ft. from Table III $X \times X = 1.95 \times 27.62 = 53.86'$. For Sta. 181 Deflection Angle = $53.86' + \frac{6^\circ 30'}{2} = 4^\circ 8.86'$.

Externals—From Table V for 1° curve, with central angle of $45^\circ 20'$, $E = 479.6$. Therefore, for $6^\circ 30'$ curve, $E = \frac{479.6}{6.5} + \text{Correction from Table VI} = 7.378 + .039 = 7.417$.