

T145 R29

BK#3 TRAVERSE



Field Book
115300

T145 R29

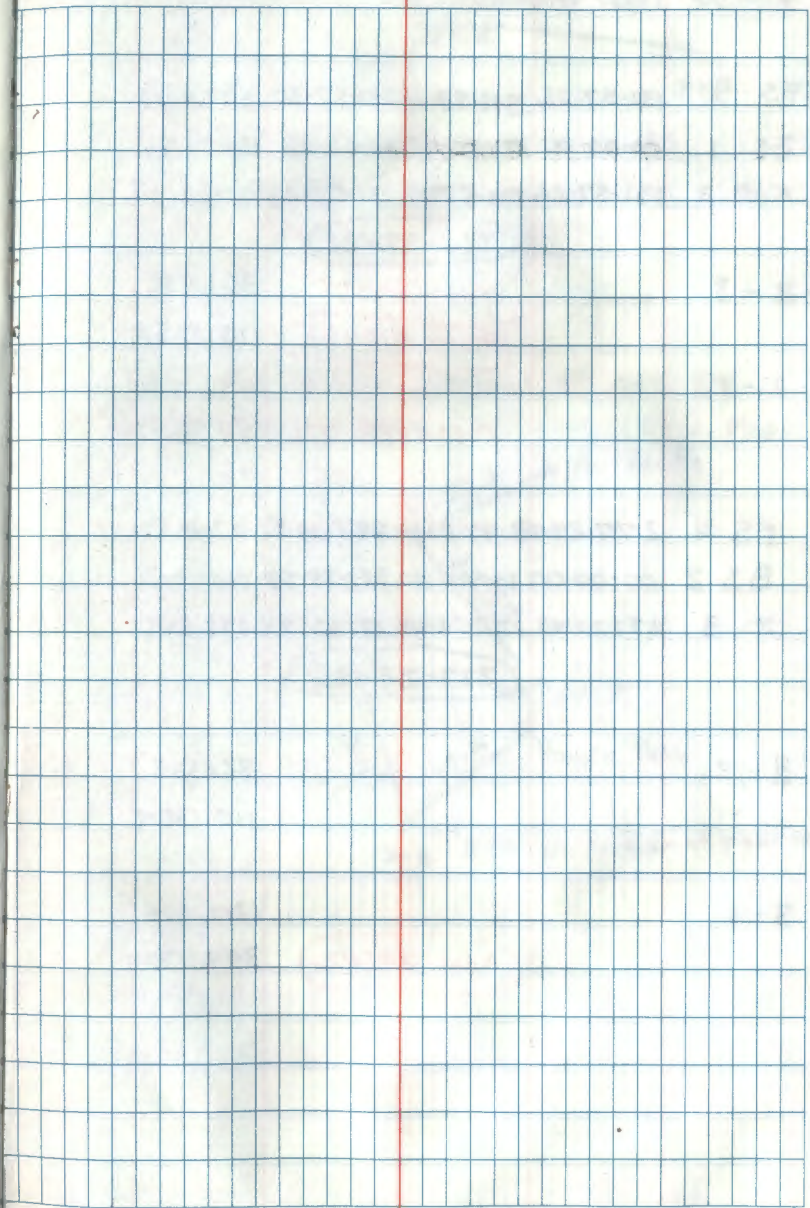
TRAVERSE

BOOK 3

CASS COUNTY, MN USFS

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| 34 | TRAVERSE TO CLAYPOOL C W $\frac{1}{2}$ 16 SEC 24 | |
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| 41 | SET 2 SPIKES FOR FINAL SET OF SW $\frac{1}{4}$ SECTION 24 | |
| 42-47 | TRAVERSE W $\frac{1}{2}$ $\frac{24}{25}$ TO SW $\frac{1}{4}$ 24 TO S $\frac{1}{2}$ 23-24 | |
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| | Horiz * | | Horiz. DIST. |
|---------|------------|-----------|---------------------|
| FS 3 | 131-57-26 | 311-58-11 | 131-57-30 311-58-03 |
| BS 1 | 00-00-00 | 180-00-49 | 00-00-08 180-00-46 |
| π 2 | 131-57-26 | 131-57-22 | 131-57-22 131-57-17 |

2-3 131-57-22
~~mean 110.935~~ 361.335'

mean 110.135 110.135M ✓

2-1 196.090'

mean 59.771 59.768M ✓

FS 4 277-29-48 97-30-29 277-29-37 97-30-29

BS 2 00-00-00 180-00-40 359-59-53 180-00-36

π 3 277-29-48 277-29-49 277-29-44 277-29-53

277-29-49

3-2 361.335'

110.135M ✓

3-4 1310.615'

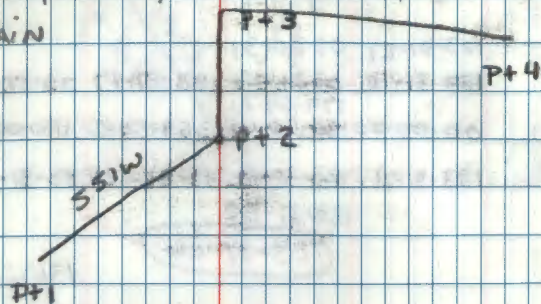
mean 399.476 399.475M ✓

Cloudy, 10°F

2

1/20/98 Gary BRAMA, Jim Schoonover, Curt Geiger

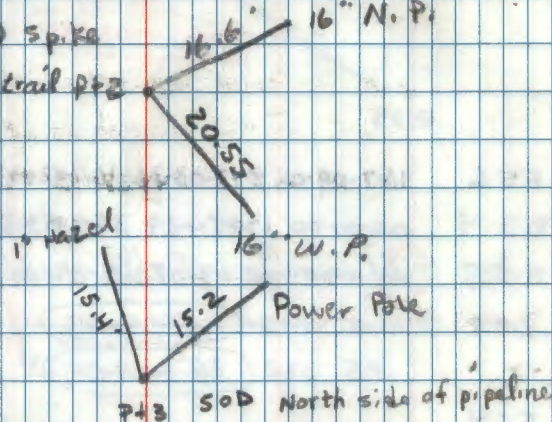
Rob MAIN



P+1 is SW section corner of sec 24
of T145N R24W Cast Iron Casing Co. Monument

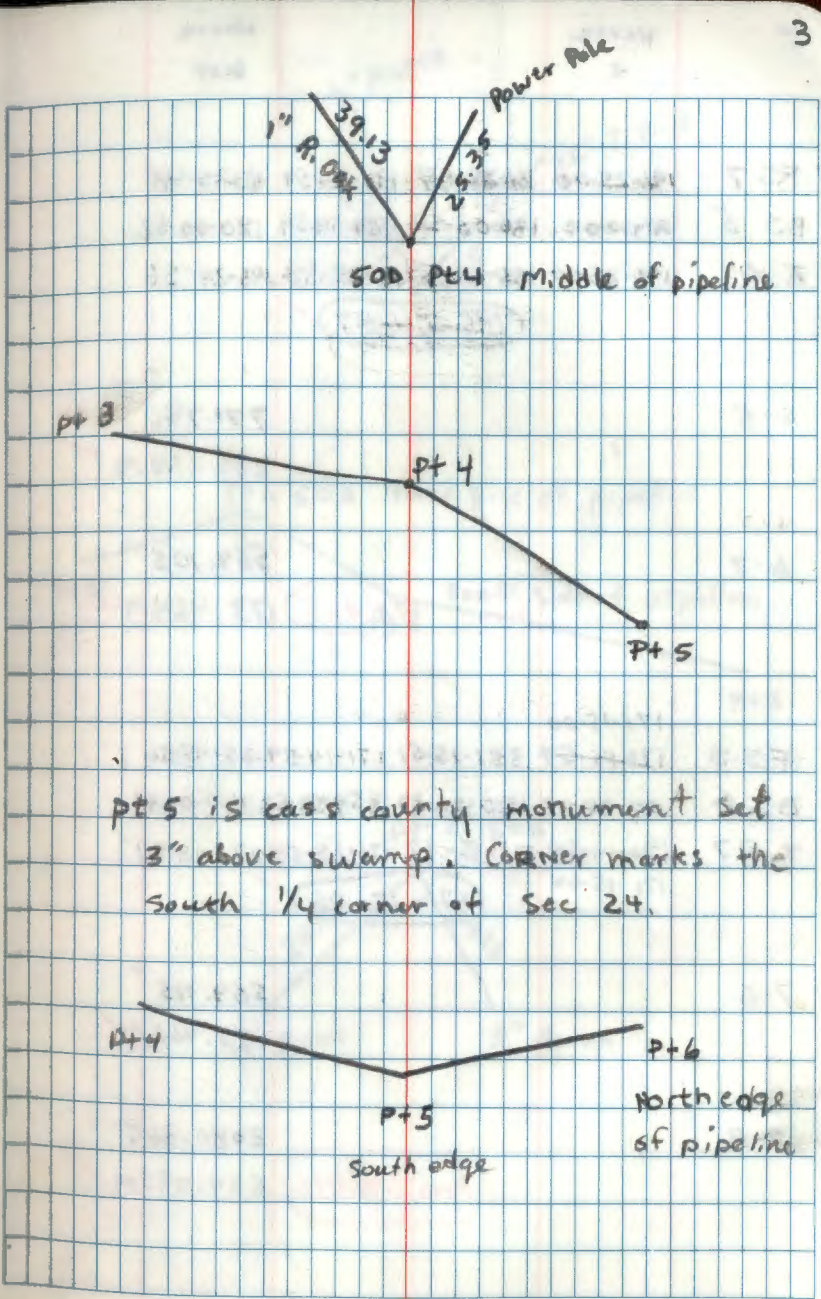
P+2 is 50D spike

East side of trail P+2



P+3 50D North side of pipeline

| | Horiz S | | Horiz DIST |
|------|----------------------|----------------------|---|
| | 183-31-21 | 03-30-31 | |
| FS 5 | 183-31-14 | 03-31-53 | 183-31-17 03-32-09 |
| | | 179-59-01 | |
| BS 3 | 00-00-00 | 180-00-44 | 359-59-52 18000-42 |
| T 24 | 183-31-21 | 183-31-14 | 183-31-25 183-31-27 |
| | | 183-31-30 | |
| 4-3 | | 183-31-26 | 1310.620 399.476M ✓ |
| 4-5 | | | 1240.455° mean 378.088 378.090M ✓ |
| FS 6 | 167-09-04 | 347-03-36 | 167-02-43 347-03-31 |
| BS 4 | 00-00-00 | 179-54-29 | 359-53-39 179-54-26 |
| T 25 | 167-09-04 | 167-09-07 | 167-09-04 167-09-05 |
| | | 169-09-05 | |
| | | 167-09-05 | |
| 5-4 | | | 1240.435° 378.085M ✓ |
| 5-6 | | | 771.775 mean 235.238 235.237M ✓ |



| | Horiz 2 | | | Horiz Dist |
|------|------------|-----------|-----------|---------------|
| FS 7 | 196-25-00 | 16-25-47 | 196-24-57 | 16-25-48 |
| BS 5 | 00-00-00 | 180-00-53 | 357-59-59 | 180-00-52 |
| X 6 | 196-25-00 | 196-24-57 | 196-24-58 | 196-24-56 |

196-24-57 ✓

6-5 771.780

235.239M ✓

6-7 569.105'

mean 173.465 173.464M ✓

171-15-00

FS 8 ~~171-14-57~~ 351-15-51 171-14-57 351-15-50

BS 6 00-00-00 180-00-39 359-59-58 180-00-41

X 27 ~~171-14-57~~ 171-15-12 171-15-04 171-15-09

171-15-00

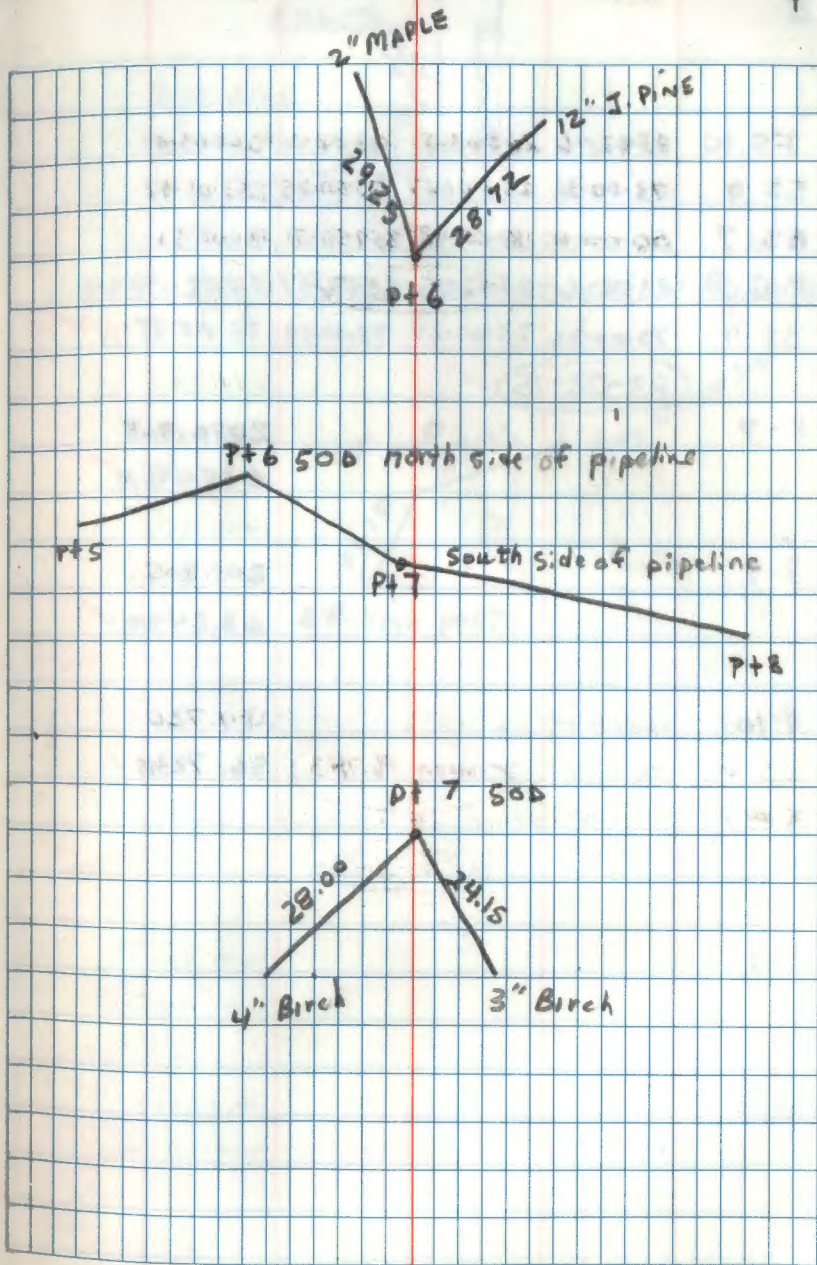
171-15-06 ✓

7-6 569.115'

173.466M ✓

7-8 2080.345

mean 634.096 634.092M ✓



| | | | | |
|-------|----------|-----------|-----------|-------------------|
| FS 10 | 83-02-16 | 263-03-03 | 93-02-08 | 263-03-04 |
| SS 9 | 73-00-36 | 253-01-47 | 73-00-25 | 253-01-18 |
| BS 7 | 00-00-60 | 180-00-48 | 354-54-51 | 180-00-51 |
| XO 8 | 83-02-16 | 83-02-15 | 83-02-17 | 83-02-13 |
| SS 9 | 73-00-36 | 73-00-29 | 73-00-34 | 73-00-27 73-00-32 |

83-02-15 ✓

8-7 2080.365

634.096M

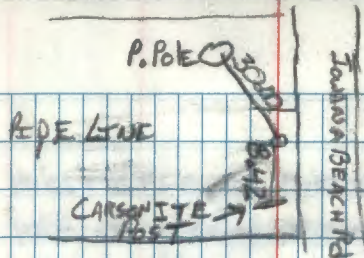
8-9 208.805

63.644M ✓

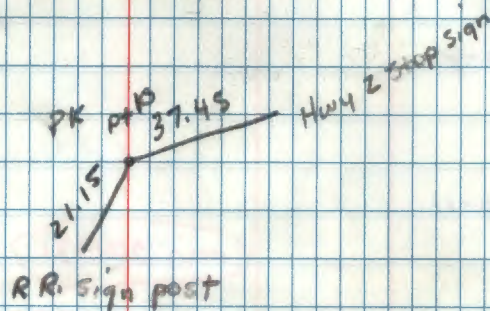
8-10 284.720

MEAN 86.783

86.783M ✓



pt 9 is G.B.S. monument called Ryan (1992)



| | | | | |
|--------|---------------|-----------|-----------|-----------|
| FS 11 | 101-19-25 | 281-20-19 | 101-19-24 | 281-20-14 |
| B 5 8 | 00-00-00 | 180-00-48 | 00-00-00 | 180-00-54 |
| X 2 10 | 101-19-25 | 101-19-31 | 101-19-24 | 101-19-20 |
| | (101-19-25) ✓ | | | |

| | | | |
|------|--|--|------------|
| 10-8 | | | 284.720 |
| | | | 86.783 M ✓ |

| | | | |
|-------|----------------|--|-------------|
| 10-11 | | | 735.335 |
| | (mean 224.131) | | 224.130 M ✓ |

| | | | | |
|--------|---------------|-----------|-----------|-----------|
| FS 12 | 181-09-49 | 01-10-44 | 181-09-52 | 01-10-42 |
| B 5 10 | 00-00-00 | 180-00-56 | 00-00-08 | 180-00-56 |
| X 2 11 | 181-09-49 | 181-09-48 | 181-09-44 | 181-09-46 |
| | (181-09-47) ✓ | | | |

| | | | |
|-------|--|--|-------------|
| 11-10 | | | 735.340 |
| | | | 224.132 M ✓ |

| | | | |
|-------|----------------|--|-------------|
| 11-12 | | | 913.010 |
| | (mean 278.884) | | 278.285 M ✓ |

6

pt 11 is the SE section corner of sec 24,
south shoulder of Hwy 2.

FS 13 267-11-12 87-12-00 267-11-10 87-11-57
 BS 11 00-00-00 180-00-43 359-59-55 180-00-44
 XW 12 267-11-12 267-11-17 267-11-15 267-11-13

267-11-14 ✓

12-11 913.005
 278.283 M

12-13 520.590
 mean 158.672 158.676 M

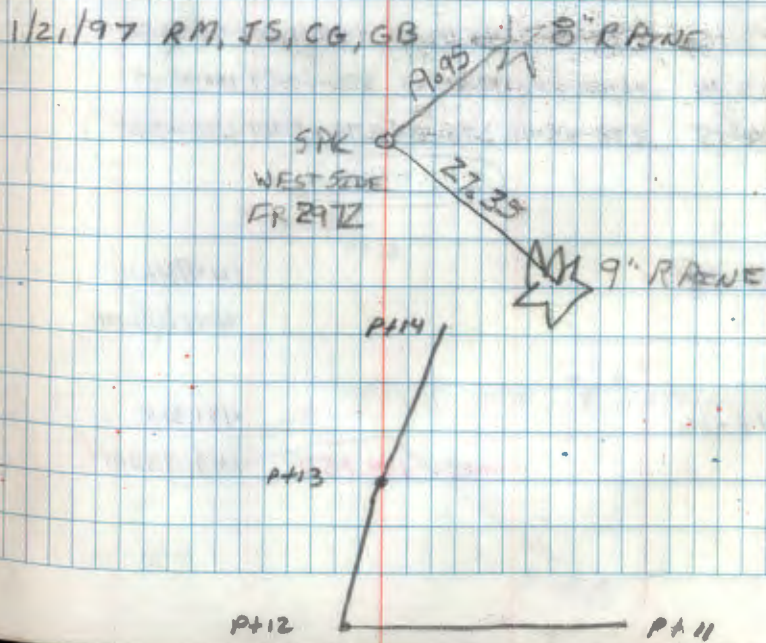
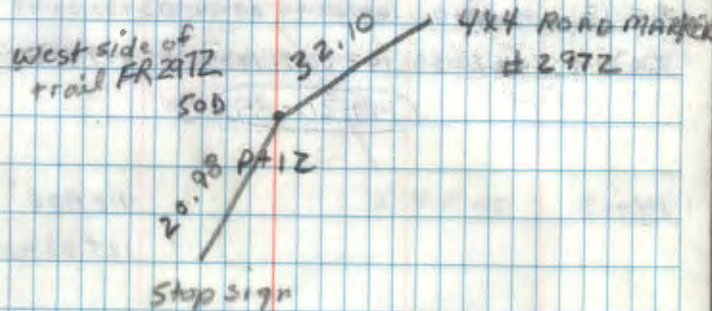
END OF DAY

FS 14 197-53-32 17-54-22 197-53-30 17-54-17
 BS 12 00-00-00 180-00-50 00-00-02 180-00-51
 XW 13 197-53-32 197-53-32 197-53-28 197-53-26

197-53-30 ✓

13-12 520.570
 158.669 M

13-14 412.905
 mean 125.854 125.854 M ✓



Horiz

*

Horiz

Dist

FS 15 149-20-59 329-21-40 149-20-55 329-21-47

BS 13 00-00-00 180-00-49 00-00-03 180-00-48

XW 14 149-20-59 149-20-51 149-20-52 149-20-59

149-20-55 ✓

14-13

412.905'

125.884M ✓

14-15

1447.460'

mean 441.186

441.187M ✓

FS 16 278-48-46 98-49-30 278-48-41 98-49-31

BS 14 00-00-00 180-00-47 359-59-57 180-00-47

XW 15 278-48-46 278-48-42 278-48-44 278-48-44

278-48-44 ✓

15-14

1447.460'

441.186M ✓

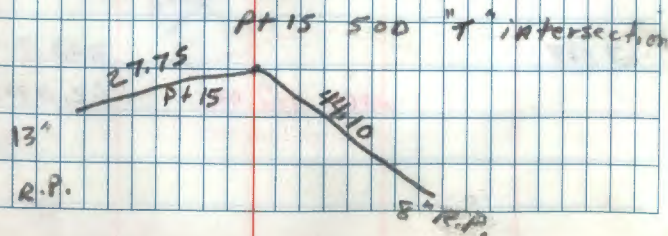
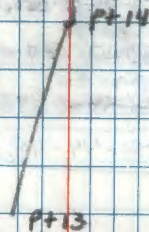
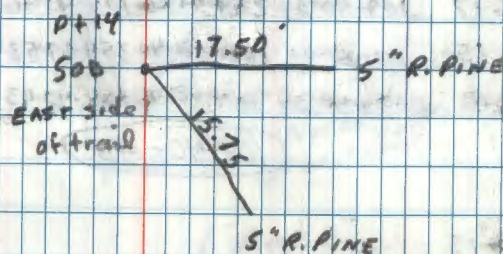
15-16

491.315'

mean 149.752

149.753M ✓

8



| | Horiz x | | Horiz DIST | |
|-------|------------|-----------|---------------|-----------|
| FS 17 | 104-40-34 | 284-41-26 | 104-40-36 | 284-41-19 |
| BS 15 | 00-00-00 | 180-00-40 | 359-59-53 | 180-00-43 |
| X 216 | 104-40-34 | 104-40-46 | 104-40-43 | 104-40-36 |

104-40-40

16-15 491.310'
149.751M ✓

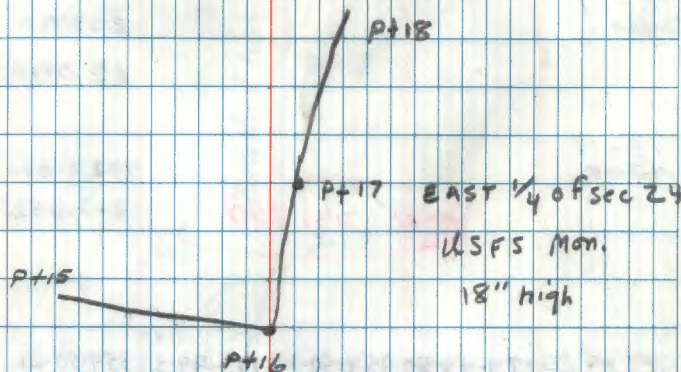
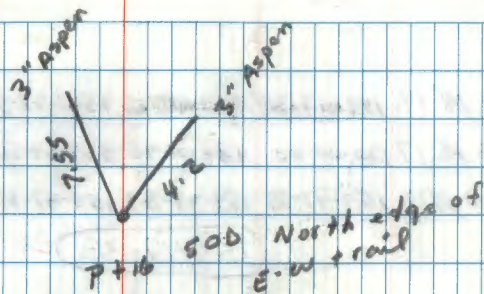
16-17 193.200'
mean 58,888 58,887M ✓

| | | | | |
|-------|-----------|-----------|-----------|--------------------|
| FS 18 | 178-44-40 | 358-45-31 | 121-45-20 | 358-45-45 |
| BS 16 | 00-00-00 | 180-00-39 | 179-59-21 | 00-00-03 180-00-51 |
| X 217 | 178-44-40 | 178-44-52 | 178-44-46 | 178-44-54 |

178-44-48

17-16 193.200'
58,888M ✓

17-18 203.710'
mean 62,091 62,091M ✓



~~5.95~~

| | Horiz * | | Horiz DIST |
|-----------|------------|-----------|---------------------|
| FS 18-19 | 159-47-28 | 379-48-25 | 159-47-31 339-48-25 |
| BS 16-17 | 00-00-00 | 180-00-48 | 359-57-56 180-00-44 |
| X 0 18-18 | 159-47-38 | 159-47-37 | 159-47-35 159-47-44 |

159-47-38

18-17
~~17-16~~

203.710
62.0910

18-19
~~17-18~~

1028.690
313.545M

mean 313.540

| | | | |
|-----------|-----------|-----------|---------------------|
| FS 19-20 | 179-49-30 | 359-50-19 | 179-49-31 359-50-21 |
| BS 17-18 | 00-00-00 | 180-00-52 | 00-00-02 180-00-50 |
| X 0 18-19 | 179-49-30 | 179-49-27 | 179-49-29 179-49-31 |

179-49-29

19-18
~~18-17~~

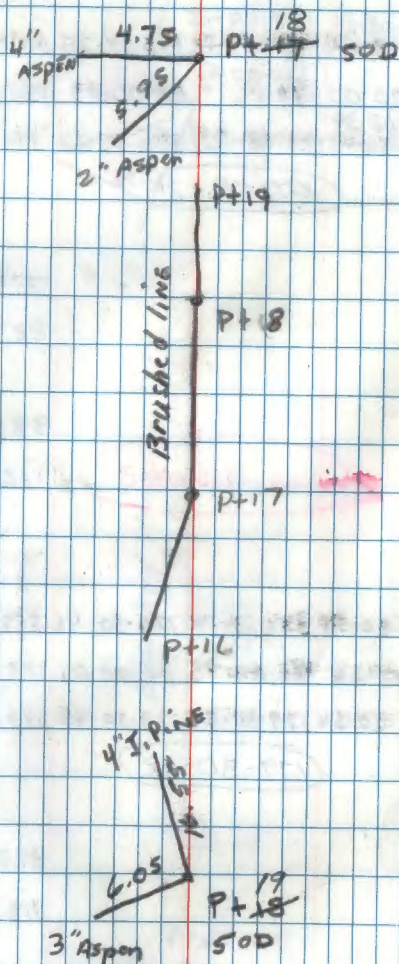
1028.660
313.536M

19-20
~~18-19~~

733.885

mean 223.680

223.688M



| | Horiz * | | Horiz Dist |
|----------|---|-----------|---------------|
| FS 20 21 | 180-08-30 00-09-15 179-52-46 359-53-32 | 180-08-25 | 00-09-15 |
| BS 18 19 | 00-00-00 179 180-08-30 180-00-51 | 00-00-03 | 180-00-51 |
| X 20 21 | 129-52-48 180-08-24 | 180-08-22 | 180-08-24 |
| | <u>180-08-25</u> | | |

20-19
19-18

733.885
223.688 ✓

20-21
19-20

383.495
mean 116.888
116.889M ✓

FS 21 22 179-30-54 359-31-40 179-30-46 359-31-35

BS 19 20 20-00-00 180-00-45 00-00-01 180-00-42

X 20 21 179-30-54 179-30-55 179-30-45 179-30-53

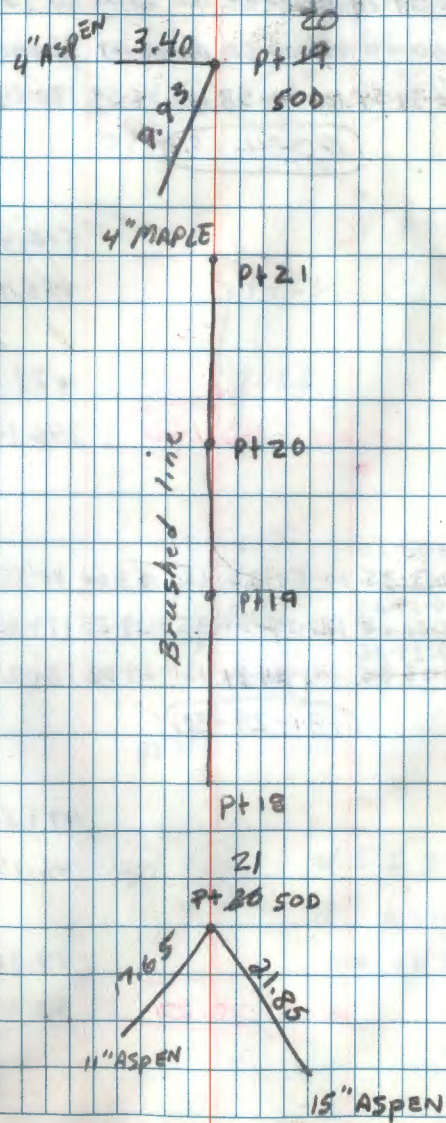
179-30-52 ✓

21-20
20-19

383.485
116.886M ✓

21-22
20-21

510.490
mean 155.598
155.598M ✓



| | Horiz x | | Horiz DIST |
|--|------------|--|---------------|
|--|------------|--|---------------|

| | | | |
|---------|-----------|-----------|---------------------|
| FS 2273 | 180-34-54 | 00-35-48 | 180-35-01 00-35-55 |
| BS 2021 | 00-00-00 | 180-00-50 | 00-00-07 180-00-55 |
| X 0221 | 180-34-54 | 180-34-58 | 180-34-54 180-35-00 |

180-34-57

| | | | |
|---------------------------|--|----------|--|
| 22-21 21-20 | | 510.490 | |
| | | 155.598m | |

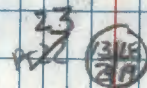
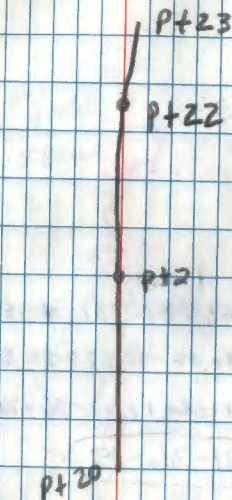
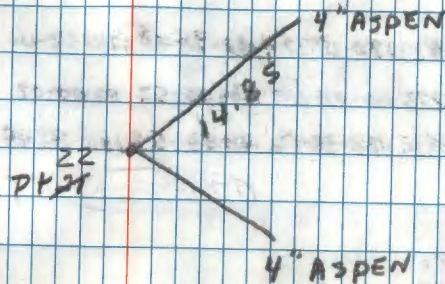
| | | | |
|---------------------------|--------------|----------|--|
| 22-23 21-22 | | 479.575 | |
| | mean 146.156 | 146.156m | |

| | | | |
|---------|-----------|-----------|-------------------------------|
| FS 2224 | 180-58-50 | 181-3-35 | 00-59-22 180-59-00 00-59-40 |
| BS 2122 | 359-29-24 | 02-00-00 | 179-29-51 359-29-25 179-30-10 |
| X 0223 | 181-29-26 | 181-17-25 | 181-29-31 181-29-35 181-29-30 |

181-29-30

| | | | |
|---------------------------|--|----------|--|
| 23-22 22-21 | | 479.510 | |
| | | 146.155m | |

| | | | |
|---------------------------|-------------|---------|--|
| 23-24 22-23 | | 99.320 | |
| | mean 30.274 | 30.273m | |



U.S.F.S Mon.
18" high marking
NE of sec 24

Horiz
#

Horiz
Dist

FS 2925 178-38-12 358-38-56 178-38-16 358-39-01

BS 2123 00-00-00 180-00-52 00-00-02 180-00-54

AO 2524 178-38-12 178-38-06 178-38-14 178-38-07

178-38-10

24-23

~~23-22~~

99.325

30.274M

24-23

~~23-24~~

497.360

mean 151.596

151.595M

FS 2526 81-36-18 261-37-00 81-36-15 261-37-00

BS 2524 00-00-00 180-00-48 359-59-51 180-00-44

AO 2925 81-36-18 81-36-18 81-36-24 81-36-16

81-36-19

25-24

~~24-23~~

497.365

151.598M

25-26

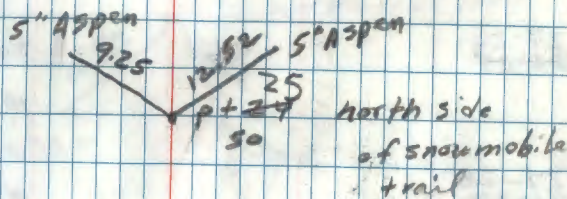
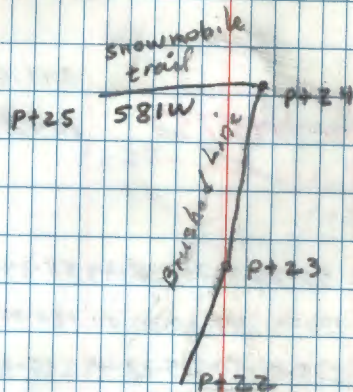
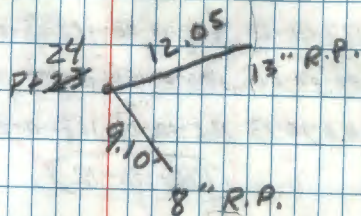
~~24-25~~

408.515

mean 124.513

124.515M

13



| | Horiz | | Horiz | | Dist |
|---------|-----------|-----------|-----------|-----------|------|
| FS 2627 | 166-10-13 | 346-11-00 | 166-10-12 | 346-11-05 | |
| BS 2428 | 00-00-00 | 180-00-54 | 00-00-00 | 180-00-49 | |
| KA 2526 | 166-10-13 | 166-10-06 | 166-10-12 | 166-10-16 | |

166-10-12

26-25
~~25-24~~

408,500

124,511M

26-27
~~25-27~~

343,680

104,754M

mean 104,753

FS 2728 235-28-52 55-29-39 235-28-49 55-29-45

BS 2526 00-00-00 180-00-49 00-00-00 180-00-51

KA 2627 235-28-52 235-28-50 235-28-49 235-28-54

235-28-51

27-26
~~26-25~~

343,675

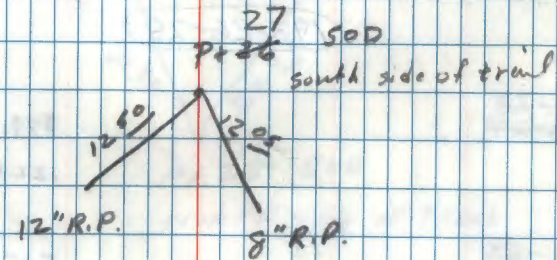
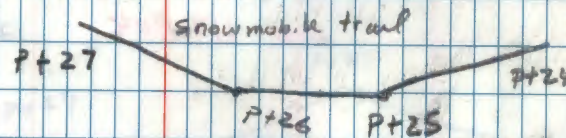
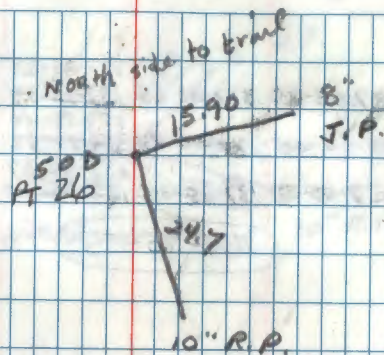
104,752M

27-28
~~26-27~~

422,545

128,792M

mean 128,792

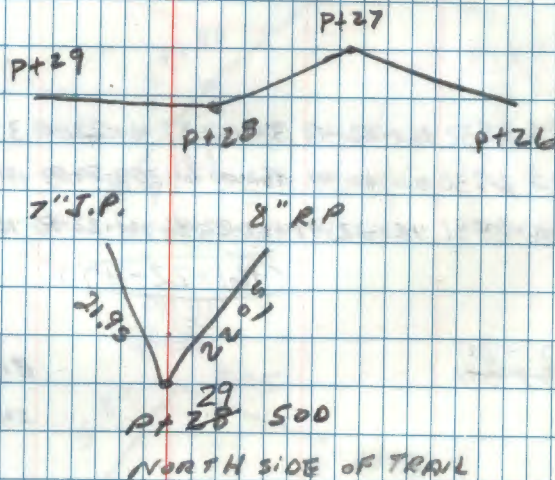
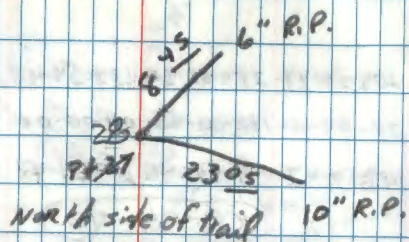


| | Horiz. x | | Horiz DIST |
|----------|-------------|-----------|---|
| FS 26 29 | 137.05-29 | 317.06-29 | 137.05-21 137.05-05 317.06-17 |
| BS 26 27 | 00.00-00 | 180.00-47 | 359.59-44 389.59-53 180.00-41 |
| FS 27 28 | 137.05-29 | 137.05-38 | 137.05-37 137.05-40 137.05-36 |
| | (137-05-35) | | |

| | | | |
|------------------|------|---------|------------|
| 28-27 | | 422.545 | 128,792M ✓ |
| 28-29 | | 399.930 | 121,899M ✓ |
| | mean | 121.899 | |

| | | | | |
|----------|-------------|-----------|-----------|-----------|
| FS 27 30 | 193-26-23 | 13-27-12 | 193-26-24 | 13-27-08 |
| BS 27 28 | 00-00-00 | 180-00-45 | 13-27-08 | 180-00-41 |
| FS 28 29 | 193-26-23 | 193-26-27 | 193-26-24 | 193-26-27 |
| | (193-26-25) | | | |

| | | | |
|------------------|------|---------|------------|
| 29-28 | | 399.920 | 121,899M ✓ |
| 29-30 | | 505.135 | 153,965M ✓ |
| | mean | 153,966 | |



| | Horiz | | Dist | |
|---------|---------------|-----------|-----------|-----------|
| FS 2631 | 109-54-47 | 289-55-30 | 109-54-47 | 289-55-33 |
| BS 2829 | 00-00-00 | 180-00-45 | 00-00-00 | 180-00-47 |
| TA 2930 | 109-54-47 | 109-54-45 | 109-54-47 | 109-54-46 |
| | (109-54-46) ✓ | | | |

~~30-29~~

505.140

153.967m ✓

~~30-31~~

812.470

247.641m ✓

mean 247.642

FS 2732 161-22-47 341-23-37 161-22-49 341-23-36

BS 2930 00-00-00 180-00-51 359-59-59 180-00-52

TA 3031 161-22-47 161-22-46 161-22-50 161-22-44

(161-22-47) ✓

~~31-30~~

812.475

247.642m ✓

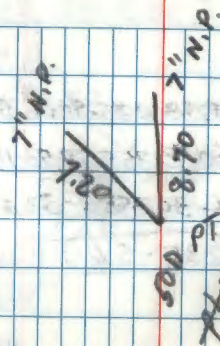
~~31-32~~

482.350

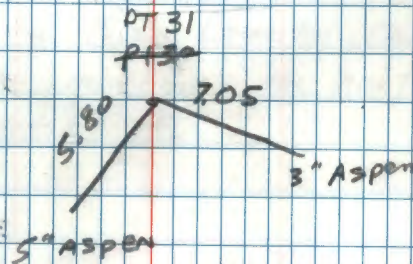
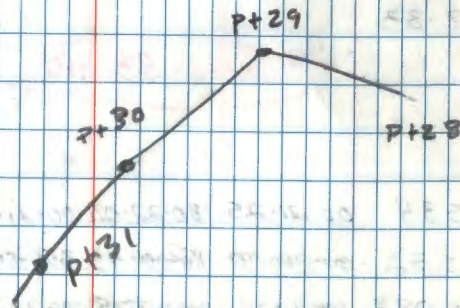
147.030m ✓

mean 147.030

END OF DAY



IN woods north of trail & east of another trail



| | Horiz * | | Horiz DIST |
|-------|---------------|-----------|------------------------|
| FS 33 | 235-56-34 | 55-57-13 | 235-56-26 55-57-13 |
| BS 31 | 00-00-00 | 180-00-43 | 359-59-53 180-00-36 |
| AW 32 | 235-56-34 | 235-56-30 | 235-56-33 235-56-37 |
| | (235-56-34) ✓ | | |
| 32-31 | | | 482.375 147.029 m ✓ |
| 32-33 | | | 290.050 88.407 m ✓ |
| | mean 88.406 | | |
| FS 34 | 00-21-25 | 180-22-08 | 00-21-24 180-22-10 |
| BS 32 | 00-00-00 | 180-00-43 | 359-59-54 180-00-39 |
| AW 33 | 00-21-25 | 00-21-25 | 00-21-30 00-21-31 |
| | (00-21-28) ✓ | | |
| 33-31 | | | 290.045 88.406 m ✓ |
| 33-32 | | | 300.535 91.603 m ✓ |
| | mean 91.602 | | |

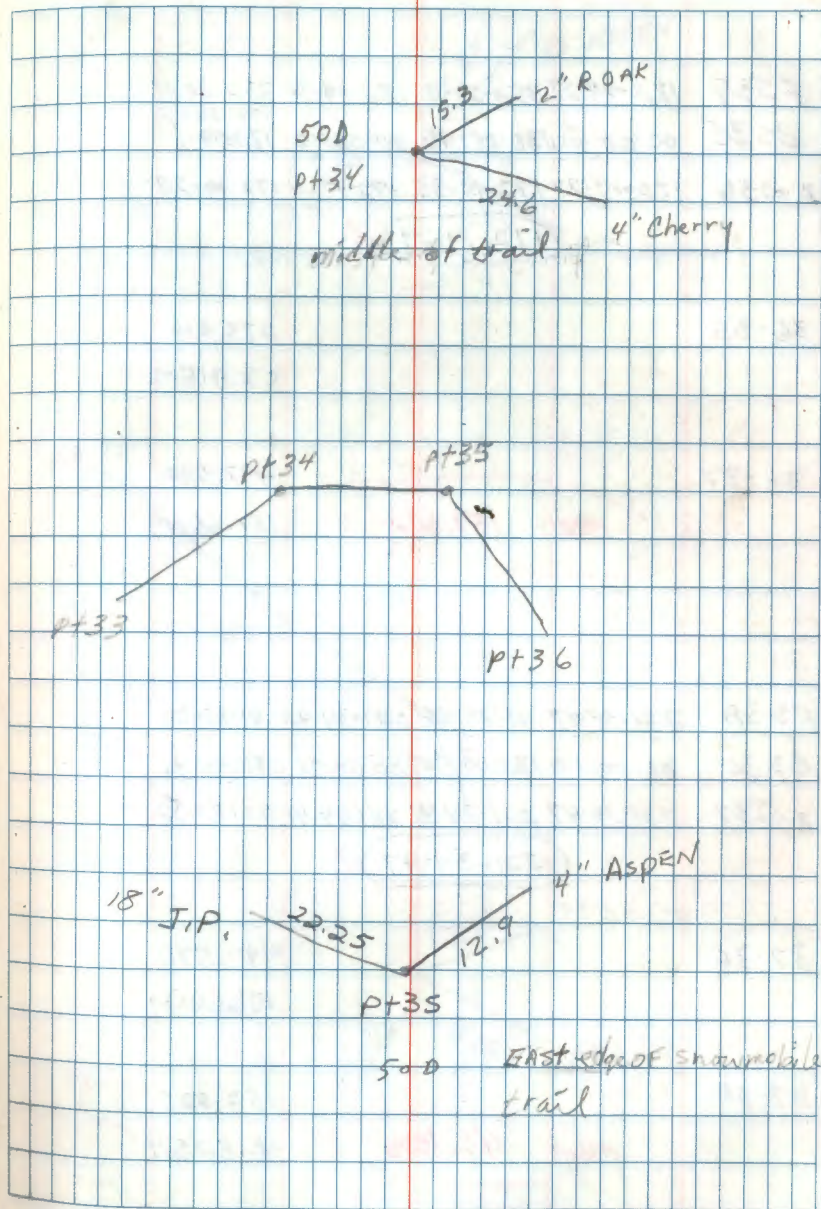
Cloudy 17
20ths

1/22/98 RM, GB, CG, JS

6" R.P.
27.80
P+32
500 spike
18.80
West edge of snowmobile trail
8" ASPEN
P+32
P+33
56.50
P+34
P+31

P+33 is a Cass County Cast Iron Mon. marking the north $\frac{1}{4}$ corner of section 26.

| | Horiz # | | Horiz Dist |
|-------|---------------|-----------|---|
| FS 35 | 255-16-36 | 75-17-19 | 255-16-28 75-17-17 |
| BS 33 | 00-00-00 | 180-00-47 | 359-59-58 180-00-47 |
| AO 34 | 255-16-36 | 255-16-32 | 255-16-28 255-16-30 |
| | (255-16-32) ✓ | | |
| 34-33 | | | 300.525 91.600M ✓ |
| 34-35 | | | 242.870 74.027M ✓ |
| | mean 74.024 | | |
| FS 36 | 217-21-00 | 37-21-57 | 217-20-46 37-21-33 |
| BS 34 | 00-00-00 | 180-00-46 | 359-59-42 180-00-23 |
| AO 35 | 217-21-00 | 217-21-00 | 217-20-52 217-20-45 217-21-04 217-21-10 |
| | (217-21-06) ✓ | | |
| 35-34 | | | 242.855 74.022M ✓ |
| 35-36 | | | 275.320' 83.918M ✓ |
| | mean 83.916 | | |



| | Horiz # | | Horiz DIST | |
|------|------------|-----------|---------------|---------------------|
| FS37 | 172-19-27 | 352-20-8 | 172-19-30 | 352-20-17 |
| BS35 | 00-00-00 | 30-00-45 | 00-00-01 | 180-00-49 179-57 |
| AW36 | 172-19-27 | 172-19-33 | 172-19-29 | 172-19-28 |

172-19-29 ✓

36-35 275.310

33.915M ✓

36-37 497.580

mean 151.661

151.662M ✓

FS38 221-34-47 41-35-38 221-34-42 41-35-38

BS36 00-00-00 180-00-50 00-00-01 180-00-46

AW37 221-34-47 221-34-48 221-34-41 221-34-52

221-34-47 ✓

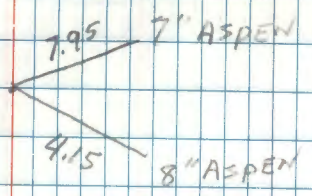
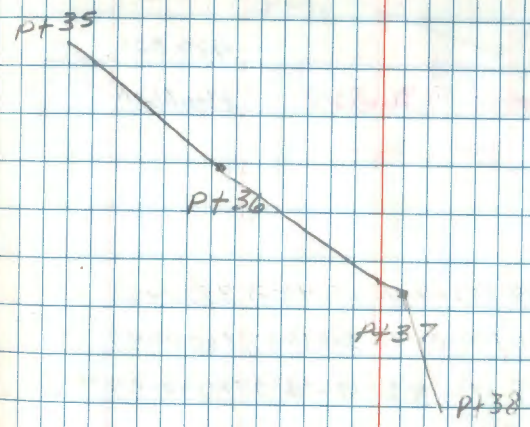
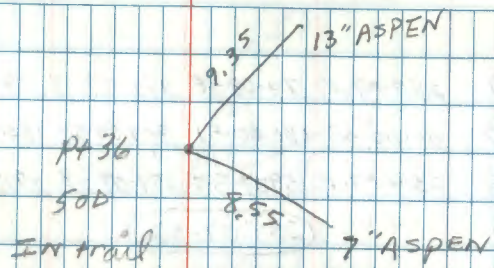
37-36 497.570

151.660M ✓

37-38 153.625

mean 46.825

46.825M ✓



| | Horiz Σ | | Horiz DIST | |
|-------|---------------|-----------|---------------|-----------|
| FS 39 | 259-07-25 | 79-08-18 | 259-07-27 | 79-08-20 |
| BS 37 | 00-00-00 | 180-00-41 | 359-59-34 | 180-00-47 |
| XW 38 | 259-07-25 | 259-07-37 | 259-07-33 | 259-07-33 |
| | (259-07-32) ✓ | | | |

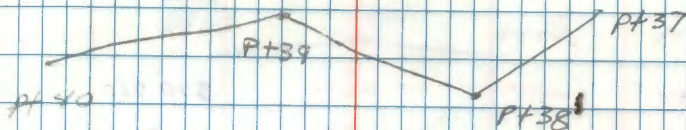
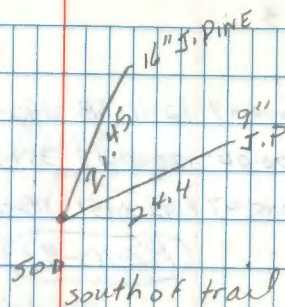
38-37 153.625
46.825M ✓

38-39 449.020
mean 136.862 136.862M ✓

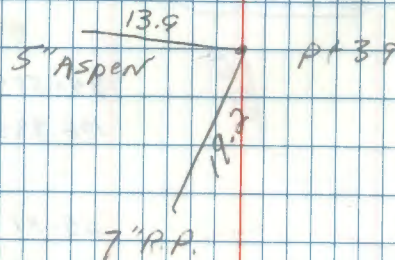
| | | | | |
|-------|---------------|-----------|-----------|-----------|
| FS 40 | 172-13-49 | 352-14-40 | 172-13-31 | 352-14-23 |
| BS 38 | 00-00-00 | 180-00-48 | 359-59-57 | 180-00-49 |
| XW 39 | 172-13-49 | 172-13-52 | 172-13-37 | 172-13-39 |
| | (172-13-44) ✓ | | | |

39-38 449.020
136.861M ✓

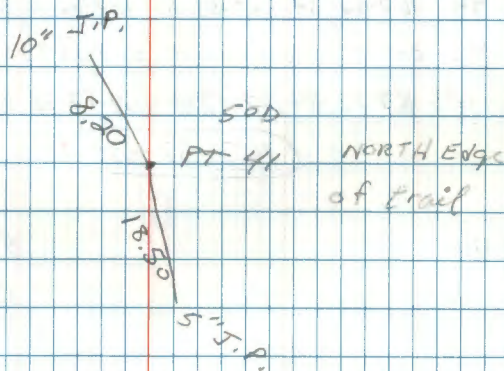
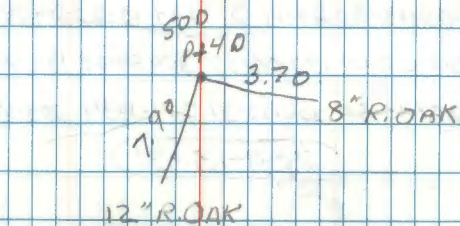
39-40 561.205
71.05
mean 171.050 171.056M ✓



* Lens at pt 40 was out of level.



| | Horiz | | Horiz | |
|-------|--------------|-----------|-----------|-----------|
| | Σ | | DIST | |
| FS 41 | 192-10-47 | 12-11-38 | 192-10-46 | 12-11-33 |
| BS 39 | 00-00-00 | 180-00-47 | 359-54-57 | 180-00-46 |
| TD 40 | 192-10-47 | 192-10-51 | 192-10-49 | 192-10-47 |
| | (192-10-49) | | | |
| 40-39 | | | 561.205 | |
| | | | 171.036M | |
| 40-41 | | | 350.570 | |
| | mean 106.854 | | 106.854M | |
| FS 42 | 157-19-15 | 337-20-05 | 157-19-13 | 337-20-05 |
| BS 40 | 00-00-00 | 180-00-54 | 00-00-00 | 180-00-50 |
| TD 41 | 157-19-15 | 157-19-11 | 157-19-13 | 157-19-15 |
| | (157-19-14) | | | |
| 41-40 | | | 350.575 | |
| | | | 106.855M | |
| 41-42 | | | 251.81 | |
| | mean 76.759 | | 76.752M | |



| | Horiz x | | Horiz Dist |
|-------|------------|-----------|---------------------|
| FS 43 | 204-13-30 | 24-14-21 | 204-13-32 24-14-14 |
| BS 41 | 00-00-00 | 180-00-50 | 359-59-58 180-00-46 |
| PO 42 | 204-13-30 | 204-13-31 | 204-13-34 204-13-28 |

204-13-31

42-41 251.860

76.767M

42-43

573.565

MEAN 174.824

174.822M

FS 44 167-52-34 347-53-24 167-52-31 347-53-24

BS 42 00-00-00 180-00-45 359-59-53 180-00-44

PO 43 167-52-34 167-52-39 167-52-38 167-52-40

167-52-38

43-42

573.575

174.826M

43-44

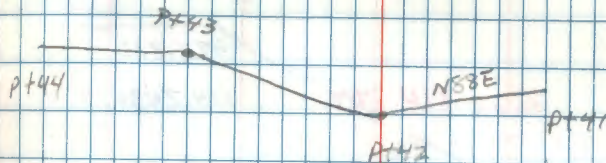
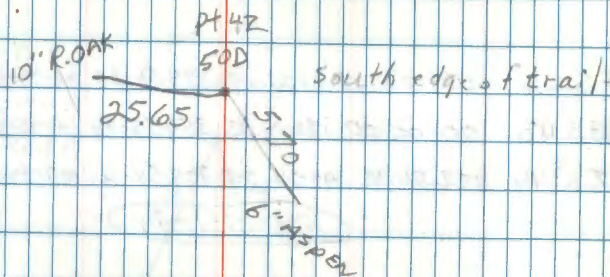
246.505

MEAN 75.134

75.134M

1/23/98 JS, CG, GB

22



12" ASPEN

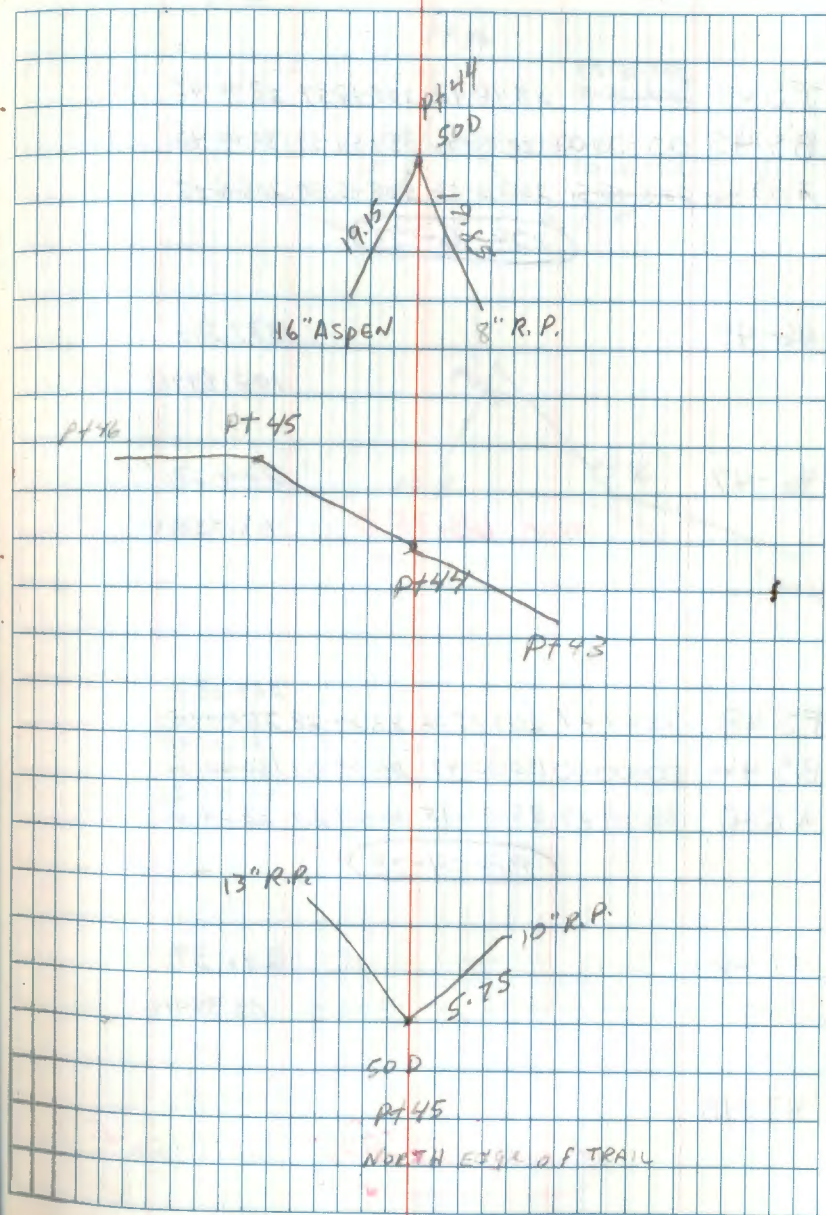
DEAD
17" J.P.

5.0

5.0 NORTH OF TRAIL

Pt 43

| | Horiz x | | Horiz DIST |
|-------|------------|----------------------|----------------------|
| | | | 19-55-17 |
| FS 45 | 199-54-84 | 19-55-23 | 199-54-30 |
| | | | 19-55-28 |
| BS 43 | 00-00-00 | 180-00-33 | 359-54-49 |
| | | | 180-00-37 |
| | | | 180-00-34 |
| XW 44 | 199-54-44 | 199-54-50 | 199-54-41 |
| | | | 199-54-57 |
| | | | 199-54-44 |
| 44-43 | | | 246.505 |
| | | | 75.134M |
| 44-45 | | | 374.810 |
| | | | 114.243M |
| | | | mean 114.243 |
| FS 46 | 160-54-09 | 340-54-52 | 160-54-02 |
| | | 340-54-28 | 180-00-56 |
| | | 180-00-49 | |
| BS 44 | 00-00-00 | 180-00-51 | 00-00-03 |
| | | 160-54-03 | 180-00-45 |
| XW 45 | 160-54-09 | 160-53-27 | 160-53-59 |
| | | | 160-54-01 |
| | | | 160-54-03 |
| 45-44 | | | 374.810 |
| | | | 114.243M |
| 45-46 | | | 337.610 |
| | | | 102.904M |
| | | | mean 102.902 |



Horiz.
x

Horiz
DIST

FS 47 ²⁰⁸⁻¹⁶⁻⁰³ 208-15-51 28-16-48 208-15-57 28-16-45

BS 45 00-00-00 180-00-42 359-59-59 180-00-40

TW 46 ²⁰⁸⁻¹⁶⁻⁰³ 208-15-51 208-16-06 208-15-58 208-16-05

208-16-03

46-45

337.595

102.899M ✓

46-47

224.270 ✓

man 68.358

68.358M

FS 48 88-04-27 268-05-02 88-04-28 ²⁶⁸⁻⁰⁵⁻¹⁰ 268-04-59

BS 46 00-00-00 180-00-47 00-00-01 ¹⁸⁰⁻⁰⁰⁻⁴⁸ 180-00-50

TW 47 88-04-27 88-04-15 88-04-27 ⁸⁸⁻⁰⁴⁻²² 88-04-09

88-04-23

47-46

224.275

68.359M ✓

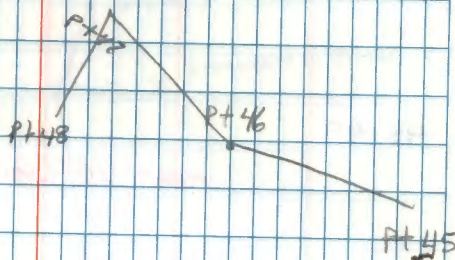
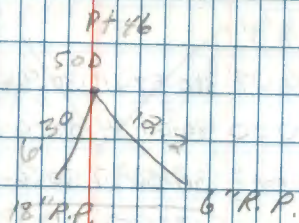
47-48

74.950

man 22.846

22.845M ✓

24



P+47 15 Cass county east iron
man marking NW corner of section
24.

Horiz
x

Horiz
DIST

FS 49 130-56-27 310-57-11 130-56-27 310-57-11
BS 47 0000-00 180-00-54 00-00-03 180-00-48
π@ 48 130-56-27 130-56-17 130-56-24 130-56-13

130-56-20

48-47

74.960

22.848M

48-49

524.280

mean 159.801

159.801M

FS 50 185-43-29 05-44-19 185-43-31 05-44-5
BS 48 00-00-00 180-00-47 359-59-54 180-00-44
π@ 49 185-43-29 185-43-32 185-43-35 185-43-31

185-43-32

49-48

524.280

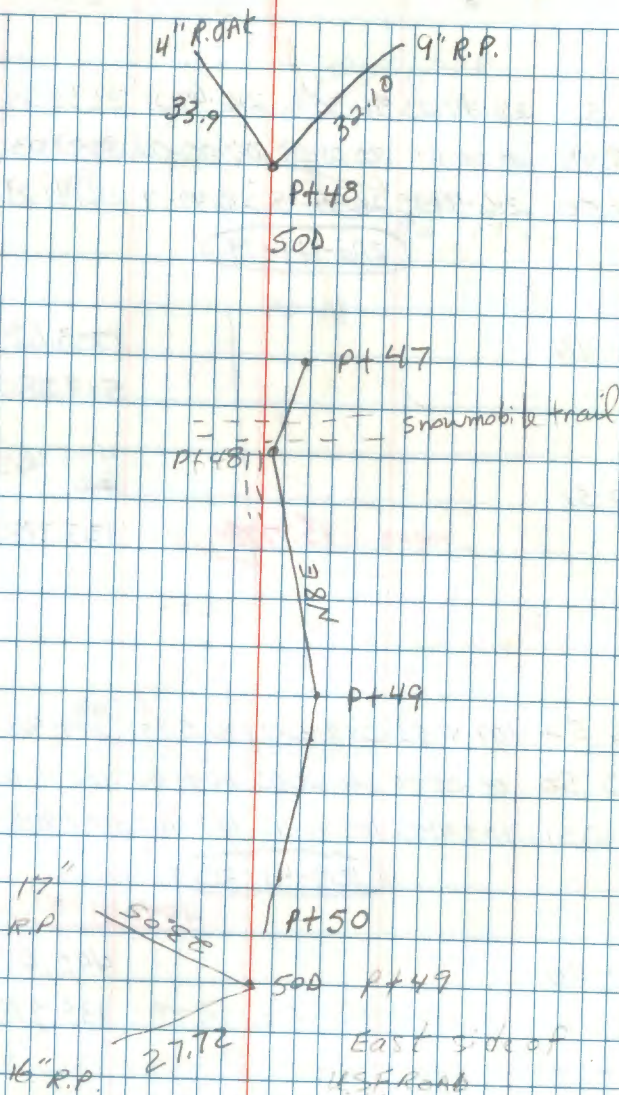
159.800M

49-50

1703.620

mean 519.278

519.276M



Horiz
Σ

Horiz
DIST

| | | | | |
|-------|-----------|-----------|-----------|-----------|
| FS 51 | 216-49-23 | 36-50-16 | 216-49-21 | 36-50-24 |
| BS 49 | 00-00-00 | 180-01-01 | 00-00-02 | 180-01-03 |
| Σ 50 | 216-49-23 | 216-49-15 | 216-49-19 | 216-49-21 |

216-49-19

50-49

1703.675

519.280M

50-51

445.465
216

mean 135.778

135.778M

| | | | | |
|-------|-----------|-----------|---------------------|-----------|
| FS 52 | 109-41-52 | 289-42-47 | 28-50-50 | 289-42-50 |
| BS 50 | 00-00-00 | 180-01-02 | 00-00-00 | 180-00-55 |
| Σ 51 | 109-41-52 | 109-41-45 | 109-41-50 | 109-41-55 |

109-41-50

109-41-51

51-50

445.465 ✓

135.778

51-52

762.240

mean 232.332

232.331M

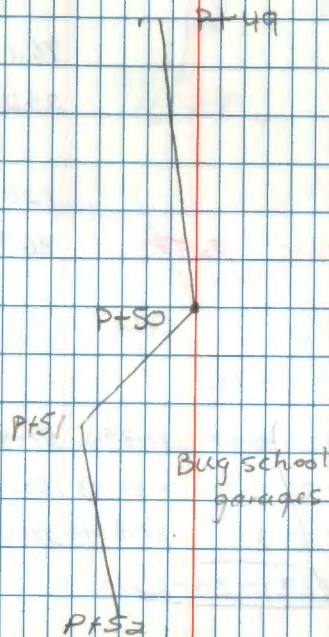
26

West side
of trail

P+50

32.50 17" R.P.

37.50 17" R.P.



P+51 is Cass County east
iron monument marking W 1/4 Sec. 24.

| | Horiz x | | Horiz DIST | |
|-------|------------------|-----------|---------------|-----------|
| FS 53 | 137-38-43 | 317-39-37 | 137-38-43 | 317-39-38 |
| BS 51 | 00-00-00 | 180-00-49 | 359-59-49 | 180-00-43 |
| TQ 52 | 137-38-43 | 137-38-48 | 137-38-54 | 137-38-55 |
| | <u>137-38-50</u> | | | |

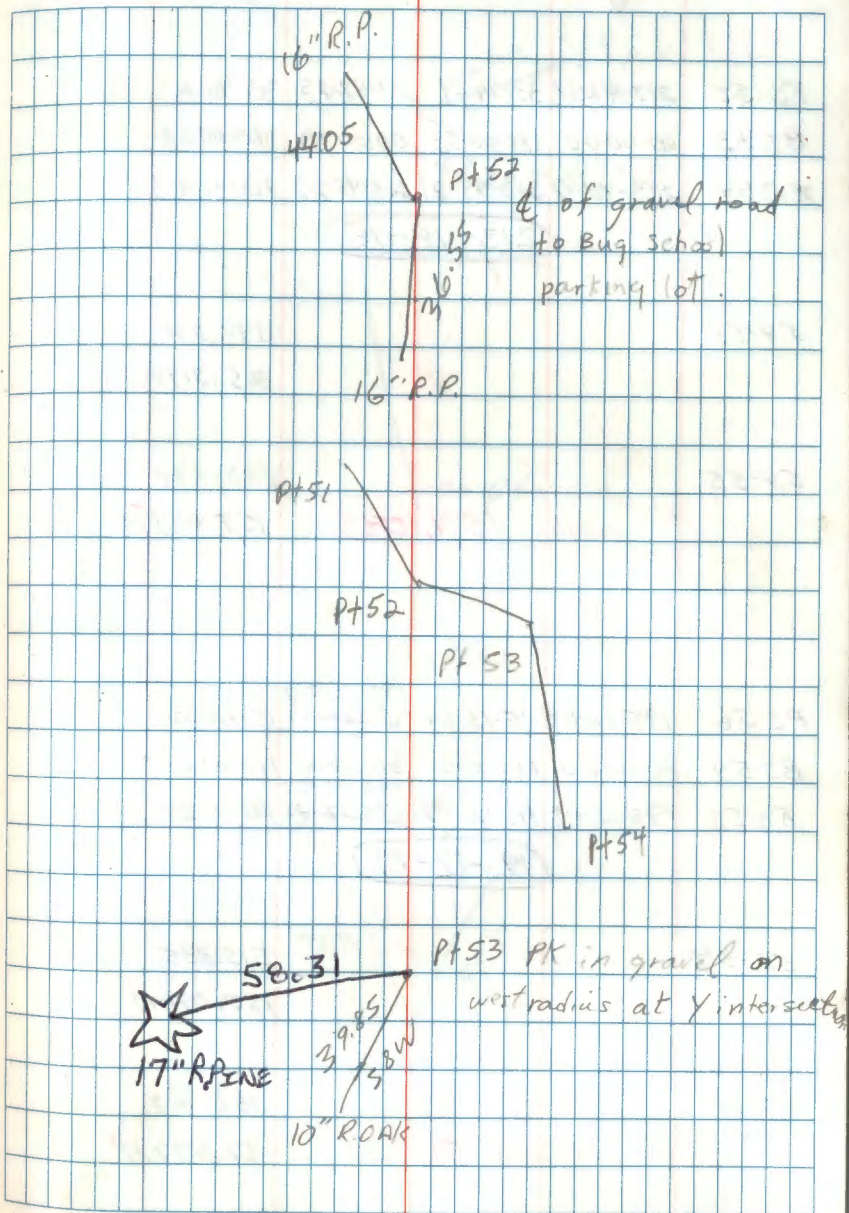
52-51 762.240
232.532

52-53 120.015
mean 36.582 36.581M

| | | | | |
|-------|------------------|-----------|-----------|-----------|
| FS 54 | 231-39-24 | 51-40-08 | 231-39-16 | 51-40-05 |
| BS 52 | 00-00-00 | 180-00-50 | 00-00-03 | 180-00-41 |
| TQ 53 | 231-39-24 | 231-39-18 | 231-39-13 | 231-39-24 |
| | <u>231-39-20</u> | | | |

53-52 120.025'
36.584M

53-54 mean 36.5219 1198.230
365.221M



| | Horiz 4 | | Horiz DIST | |
|-------|------------|-----------|---------------|-----------|
| FS 55 | 213-48-17 | 33-49-14 | 213-48-25 | 33-49-11 |
| B553 | 00-00-00 | 180-00-53 | 00-00-03 | 180-00-58 |
| TW 54 | 213-48-17 | 213-48-21 | 213-48-22 | 213-48-13 |

213-48-18

54-53

1198.220

365.217M

54-55

515.380

mean 157.098

157.087M

FS 56

195-12-08

15-13-09

195-12-22

195-12-02

15-12-55

B554

0000-00

180-00-50

00-00-00

180-00-34

TW 55

195-12-08

195-12-19

195-12-22

195-12-02

195-12-21

195-12-17

55-54

515.385

157.090M

55-56

168.960

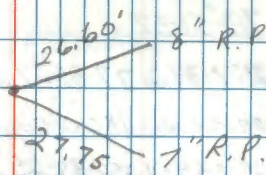
mean 51.500

51.499M

East edge
of blacktop PK

PT 54

PK



PT 53

PT 54

PT 55

PT 56

20' R.P.

20' R.P.

48.75

44.8

500 in north end of R.R. tie

PT 55

| | Horiz A | | Horiz DIST |
|-------|------------|-----------|---------------------|
| 55-4 | 78°51-37 | | |
| FS 57 | 257-34-21 | 77-35-27 | 257-34-23 77-35-20 |
| BS 55 | 00-00-00 | 180-01-02 | 00-00-04 180-00-54 |
| K@56 | 257-34-21 | 257-34-25 | 257-34-19 257-34-26 |

257-34-23

56-55
168.970'
51.502 m

56-57
738.190'
194.521 m ✓
mean 194.516

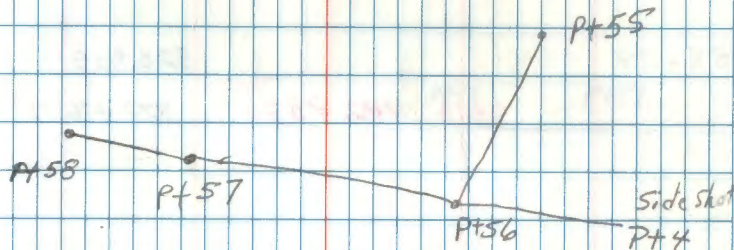
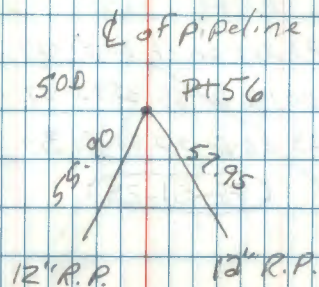
56-4
347.815
106.014 m

| | | | |
|-------|-----------|-----------|---------------------|
| | | | 00-21-39 |
| FS 58 | 180-20-47 | 00-21-37 | 180-20-52 180-00-53 |
| BS 56 | 00-00-00 | 180-00-59 | 00-00-00 180-00-53 |
| K@57 | 180-20-47 | 180-20-38 | 180-20-52 180-20-46 |

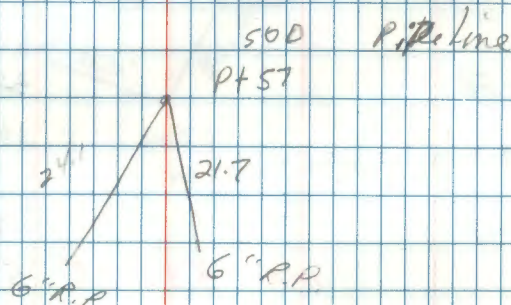
180-20-46 ✓

57-56
638.160
194.512 m ✓

57-58
309.700
94.397 ✓
mean 94.396



1/26/98 RM, GB, CG, JS Cloudy



Horiz
x

Horiz
DIST

FS 59 88-51-23 268-52-17 88-51-27 268-52-22

BS 57 00-00-00 180-00-55 359-59-57 180-00-56

TI 58 88-51-23 88-51-22 88-51-30 88-51-24

88-51-25

58-57

309.695

94.395 M

58-59

328.855

mean 100.235

100.236 M

FS 1 223-41-54 43-42-50 223-41-53 43-42-48

BS 58 00-00-00 180-00-59 00-00-04 180-01-01

TI 59 223-41-54 223-41-51 223-41-49 223-41-47

223-41-50

59-58

328.850

100.234 M

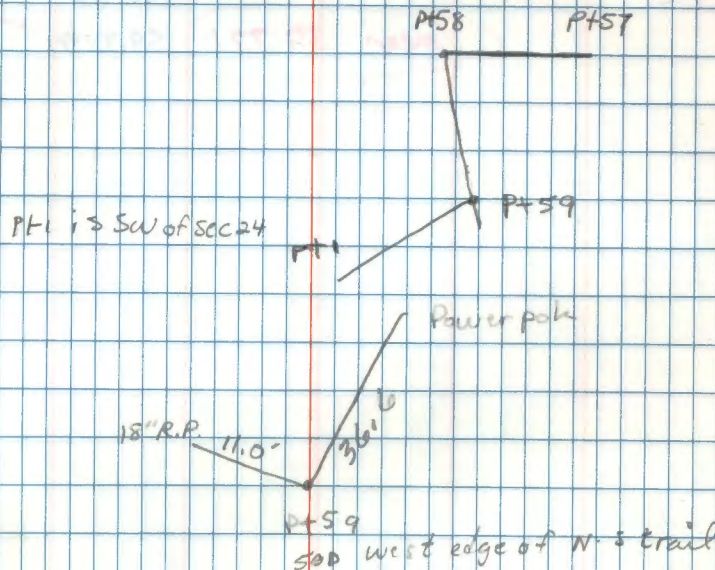
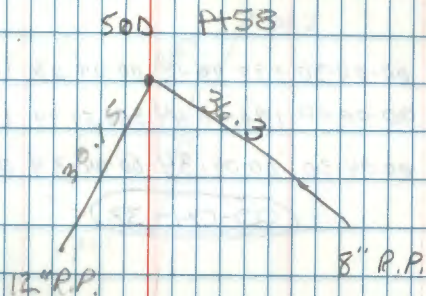
59-1

176.295

mean 53.735

53.735 M

30



| | Horiz x | | Horiz DIST |
|------|------------|-------------------|---------------------|
| F52 | 00-04-30 | 180-05-18 | 00-04-23 180-05-18 |
| B559 | 00-00-00 | 180-00-44 | 359-59-49 180-00-42 |
| X@1 | 00-04-30 | 00-04-34 | 00-04-34 00-04-36 |
| | | <u>00-04-33</u> ✓ | |

1-59

176.295

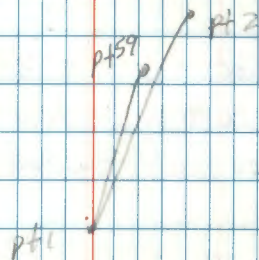
53.735M ✓

1-2

196.105

mean 59.771 59.774M ✓

31



Horiz
#

DIST

FS 61 284-15-56

FS 60 284-51-06

BS 3 00-00-00

T_W 4

4-60

303.665

92.557M

4-61

301.425

91.874M

| | | | | |
|-------|-----------|----------|-----------|----------|
| FS 62 | 279-40-40 | 99-41-45 | 279-41-00 | 99-41-55 |
| | 279-40-37 | 99-41-35 | 279-40-50 | 99-41-58 |

| | | | | |
|-------|-----------|-----------|-----------|-----------|
| BS 42 | 00-00-00 | 180-00-55 | 00-00-00 | 180-00-58 |
| | 180-00-49 | 359-59-54 | 180-00-55 | |

| | | | | |
|-------------------|-----------|-----------|-----------|-----------|
| T _W 43 | 279-40-40 | 279-40-50 | 279-41-00 | 279-40-57 |
| | 279-40-37 | 279-40-40 | 279-40-58 | 279-41-03 |

279-41-52

43-62

417.635

mean 127294

127.295

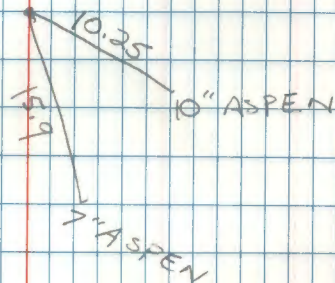
1/26/98

Pt 60 & 61 are approx W_{1/2} on the south
side of Sec 24

TRaversing to W_{1/2} bet. Secs 13/24

Pt 62

SOD



| | Horiz # | | | Horiz DIST |
|------|------------|-----------|-----------|---------------|
| FS63 | 179-44-36 | 359-45-28 | 179-44-37 | 359-45-29 |
| BS43 | 00-00-00 | 180-01-00 | 00-00-05 | 180-00-58 |
| X262 | 179-44-36 | 179-44-28 | 179-44-32 | 179-44-31 |

179-44-32

62-43.

417.625'

127.294M

62-63

62.325'

63.3

18.997M ✓

PT63

Re-rod with RLS 13296
on plastic cap marking w/16 but Sec's 13/24

Horiz
*

Horiz
DIST

FS400 322-30-53 142-31-40 322-30-42 142-31-38

BS-53 00-00-00 180-00-57 00-00-00 180-00-51

π@52 322-30-53 322-30-43 322-30-42 322-30-47

322-30-46 ✓

52-400

887.582

~~273.5365~~ 273.536M

mean = 270.537

FS401 142-18-38 322-19-30 142-18-37 322-19-32

BS52 00-00-00 180-00-47 359-59-55 180-00-46

π@400 142-18-38 142-18-43 142-18-42 142-18-46

142-18-42 ✓

400-52

887.585

270.537M

400-4.01

179.845

540918 54818M ✓

34

1/28/98 RM, JS, CG, GB P.C., 28°

PT64

PT65 is the CW/Vib, sec 24. It's marked by a re-rod with RLS plastic cap set on top.

| | Horiz x | Horiz Dist |
|--------|---------------------|----------------------------------|
| FS 300 | 185-47-35 05-48-30 | 185-47-40 5-48-31 |
| BS 48 | 00-00-00 180-00-54 | 00-00-00 ⁰⁴ 180-00-56 |
| X 2 49 | 185-47-25 185-47-36 | 185-47-36 185-47-35 |

185-47-35.5 ✓

49-300

724.445'

220.810 220.812M ✓

| | | |
|--------------------|--------------------------------|--------------------------------|
| FS 301 | 262-05-22 82-06-16 | 262-05-25 82-06-14 |
| BS 49 | 00-00-00 180-00-54 | 359-59-59 180-00-54 |
| X 2 300 | 262-05-22 262-05-22 | 262-05-26 262-05-20 |

262-05-22 ✓

300-49

724.440

220.809M ✓

300-301

134.185

40.900M ✓

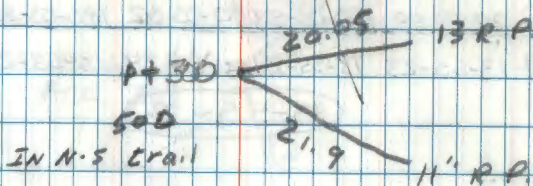
FS

BS

X 2

134.185

40.900M



FS 301 262-24-08 82-24-55 262-24-02 82-24-53

BS 49 00-00-00 180-00-45 359-59-50 180-00-41

Σ 300 262-24-08 262-24-10 262-24-12 262-24-12

262-24-11

300-301 134.200' FT

40.9015 40.903 M

FS 302 13-55-23 193-56-22 13-55-26 193-56-21

BS 300 00-00-00 180-00-53 00-00-02 180-00-55

Σ 302 13-55-23 13-55-29 13-55-24 13-55-26

13-55-26

301-300 134.185'

40.900M

301-302 491.935

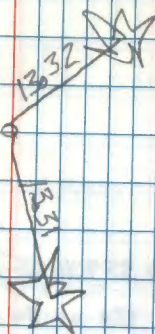
149.943 149.942M

1-29-98 Cloudy 25°

36

MAIN-BRAMA-SCHOONOVER-CRIGER

APPROX NTK 23/24
PT# 301



FS 303 180-02-08 00-03-02 180-02-05 00-03-04

BS 301 00-00-00 180-00-50 00-00-02 180-00-56

TR 302 180-02-08 180-02-12 180-02-03 180-02-08

180-02-08

302-301 491,940 F

M 149,943 149,944 M

302-303 700,035 F

213,37 M

FS 304 179-46-04 359-46-55 179-45-58 359-46-46

BS 302 00-00-00 180-00-54 00-00-00 180-00-54

TR 303 179-46-04 179-46-01 179-45-58 179-45-52

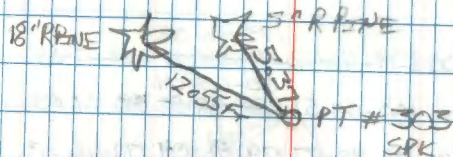
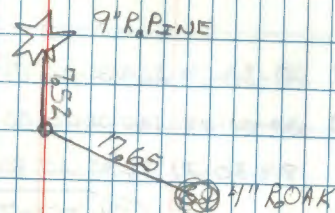
179-45-59

303-302 700,045'

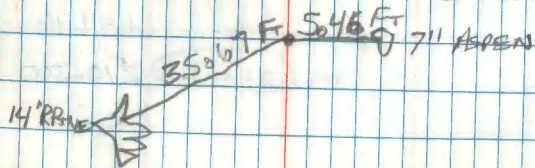
M 213,372 213,374 M

303-304 135,470'

41,291 M



pt 304 is a 500 spike marking
the NW 1/4 position for sec 24



Horiz
4

Horiz
Dist

FS 305 89-30-29 269-31-26 89-30-27 269-31-23

BS 303 00-00-00 180-01-06 00-00-10 180-01-02

X 304 89-30-29 89-30-20 89-30-17 89-30-21

(89-30-22)

304-303

135.465

m (41.2905) 41.290M

304-305

115.57 Ft

35.226 M

FS 306 179-46-00 359-46-48 ~~179-46-19~~ 352-47-03

BS 304 00-00-00 180-00-51 ~~359-51-01~~ 180 01 00

X 305 179-46-00 179-45-57 179-46-04 179-46 03

(179-46-01)

305-304

115.58 F

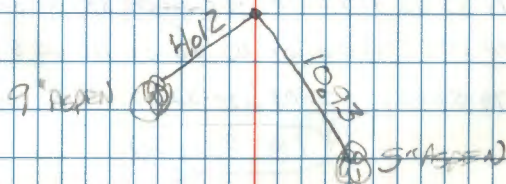
m (35.2275) 35.229

305-306

689.96

m (210.2965) 210.300

38



x

DIST

FS 307 180-33-28 00-34-19 180-33-22 00-34-17
 BS 305 00-00-00 180-00-58 00-00-00 180-00-57
 Re 306 180-33-28 180-33-21 180-33-22 180-33-20

180-33-73

306-305

689.940'
 210.293M

306-307

345.655
 345.655'
 M 105.356 105.356M

FS 63 179-52-08 359-53-04 179-52-08 359-53-01
 BS 306 00-00-00 180-01-01 00-00-01 180-00-57
 X 307 179-52-08 179-52-03 179-52-07 179-52-09

179-52-06

307-306

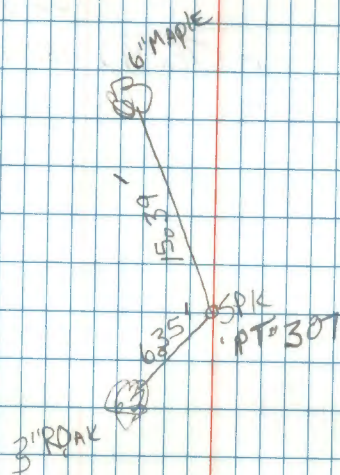
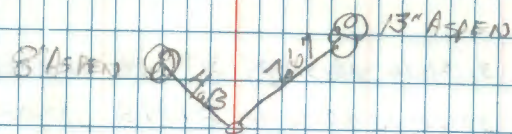
345.655
 105.356M

307-63

152.200'
 M 46.390 46.391M

2-2-98 Cloudy 20°
 CG, GB, JS, RM

39



DIST

| | | | | |
|--------|----------|-----------|-----------|-----------|
| FS 62 | 31-51-16 | 211-52-07 | 31-51-12 | 211-52-04 |
| BS 307 | 00-00-00 | 180-00-52 | 359-59-56 | 180-00-55 |
| Xw 63 | 31-51-16 | 31-51-15 | 31-51-16 | 31-51-09 |

(31-51-14)

| | | | |
|--------|--|--|---------|
| 63-307 | | | 152.195 |
| | | | 46.390m |

| | | | |
|-------|---|---------|---------|
| 63-62 | | | 62.305' |
| | m | (18.99) | 18.990m |

pt 63 is the w/16 bet sec's 13/24

4

DIST

FS 400 53-16-42 233-17-36 53-16-37 233-17-28

BS 53 00-00-00 180 01-05 00-00-00 180 00 59

TE 54 53-16-42 53-16-31 53-16-37 53-16-29

(53-16-35)

54-400

344.03 FT

 $\sqrt{104686.1}$

FS 401 53-18-44 233-19-38 53-18-42 233-19-37

BS 53 00-00-00 180 01 00 00 00 00 180 01 01

TE 54 53-18-44 53-18-38 53-18-42 53-18-36

(53-18-40)

54-401

367.39 FT

 $\sqrt{111981}$

2-4-98

41

X

DIST

FS 500 284-40-08 104-40-58 284-39-54 104-40-45

BS 3 00-00-00 180-00-51 359-59-53 180-00-42

TP 4 284-40-08 284-40-07 284-40-01 284-40-03

284-40-05

301.705 FT

4-500

√ 96.9585 91.096 M

FS 501 336-11-43 156-12-35 336-11-34 156-12-32

BS 4 00-00-00 180-00-39 359-59-44 180-00-37

TP 500 336-11-43 336-11-56 336-11-50 336-11-55

336-11-51

301.695 FT

500-4

91.957 M

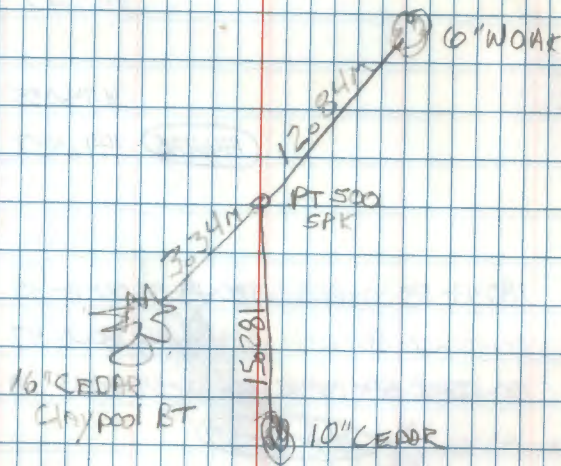
500-501

515.64 FT

√ 157.069 157.068 M

2-5-98

42



FS 502 179-55-47 359-56-35 179-55-35 359-56-32
 BS 500 00-00-00 180-02-55 00-00-02 180 00-53
 TP 501 179-55-42 179-55-40 179-55-33 179-55-39

179-55-39

501-500

515.65 FT

157.17 M

501-502

474.035

144.486 144.487 M

FS 508 180-13-55 00-14-51 180 13 50 00-14-45

BS 501 00-00-00 180 00 49 359-59-56 180 00 47

TP 502 180-13-55 180-14-02 180-13-54 180-13-58

180-13-57

502-501

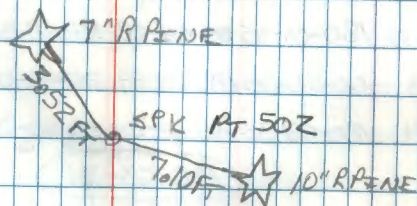
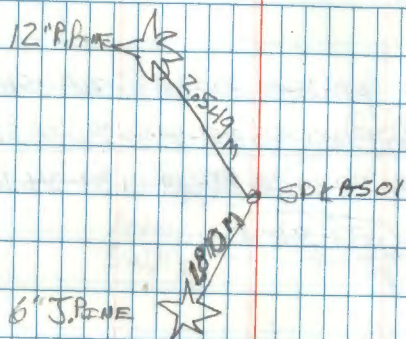
474.03 FT

144.484 M

502-503

335.82 FT

102.357 102.358 M



FS 504 89-34-08 287-35-01 89-34⁷⁰ 267-35-04
 BS 502 00-00-00 180-00-55 357-59-56 180-00-52
 TC 503 89-34-08 89-34-06 89-34-14 89-34-12

(89-34-10)

503-502

335.81 FT

102.356 M

503-504

683.565

(208.353) 208.35 M

FS 3000 180-03-35 00-04-28 180-03-32 00-04-32

BS 503 00-00-00 180-00-59 00-00-03 180-00-59

TC 504 180-03-35 180-03-29 180-03-29 180-03-33

(180-03-31)

504-503

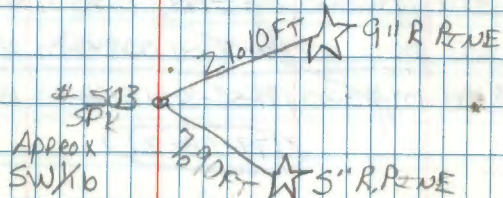
683.585 F

208.356 M

504-3000

690.295 F

(195.177) 195.167



2" OAK

13.9

6.55

2" OAK

P+504

500

Horiz
z

Horiz
DIST

FS 3001 179-58-30 359-59-29 179-58-31 359-59-28

RS 503 00-00-00 180-00-59 00-00-01 180-00-55

TC 504 179-58-30 179-58-30 179-58-30 180-58-33

179-58-31

504-3001

653.515 FT

199.193

199.192 M

2/9/98

FS 505 0°-01'-49" 180°-02'-30" 0°-00'-00" 180°-02'-43"

BS 504 00-00-00 180°-00'-46" 0°-01'-51" 180°-00'-44"

TC 3001 00-01-49 00-01-44 0-01-51 00-01-59

00-01-51

3001-504

653.520

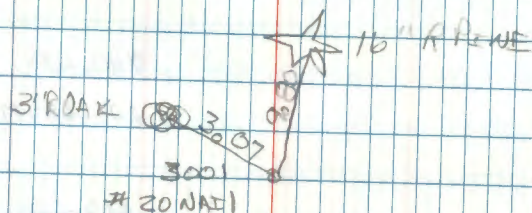
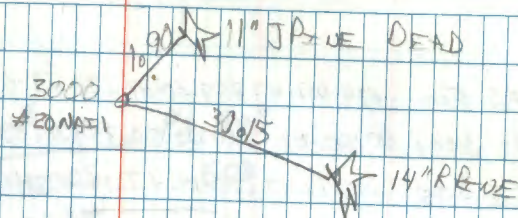
199.194

3001-505

740.445

225.685

225-687M



2/9/98 GB, CG, JS Cloudy, 30°

Horiz
4

Horiz
DIST

FS 506 179-49-47 359-50-37 179-49-37 359-50-31
 BS 3001 00-00-00 180-00-50 359-59-53 180-00-54
 X @ 505 179-49-47 179-49-47 179-49-44 179-49-37
 (179-49-44)

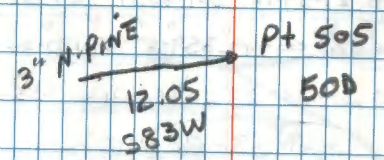
505-3001 740.435
 225.684M

505-506 319.625
 (97.422) 97.422M

FS 54 246-29-54 66-30-46 246-29-53 66-30-46
 BS 505 00-00-00 180-00-48 359-59-50 180-00-45
 X @ 506 246-29-54 246-29-58 246-30-03 246-30-01
 (246-29-59)

506-505 319.625
~~97.97.422M~~

506-54 357.265
 (108.885) 108.895M



Horiz

x

Horiz

Dist

FS 55 207°-53'-18" 27°-54'-12" 207°-53'-19" 27°-54'-09"

BS 506 80°-00'-00" 180°-00'-49" 359°-59'-59" 180°-00'-49"

T 054 207-53-18 207-53-23 207-53-26 207-53-22

207-53-22

54-506

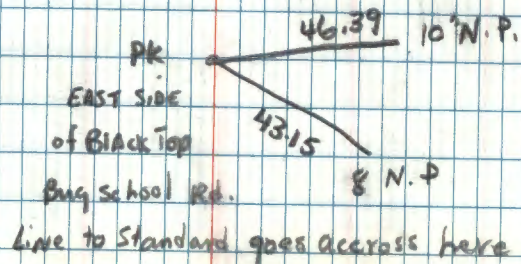
357.265

108.895M

54-55

157.088

47



REMAINDER OF
BOOK IS EMPTY