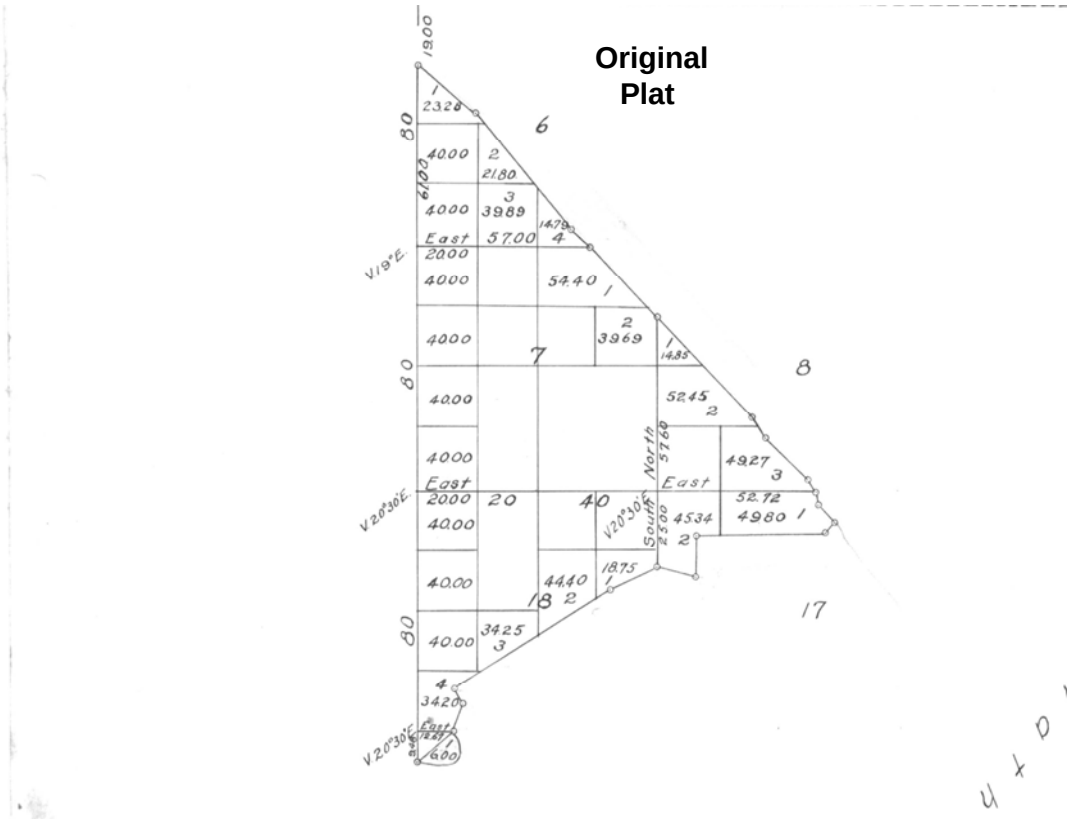
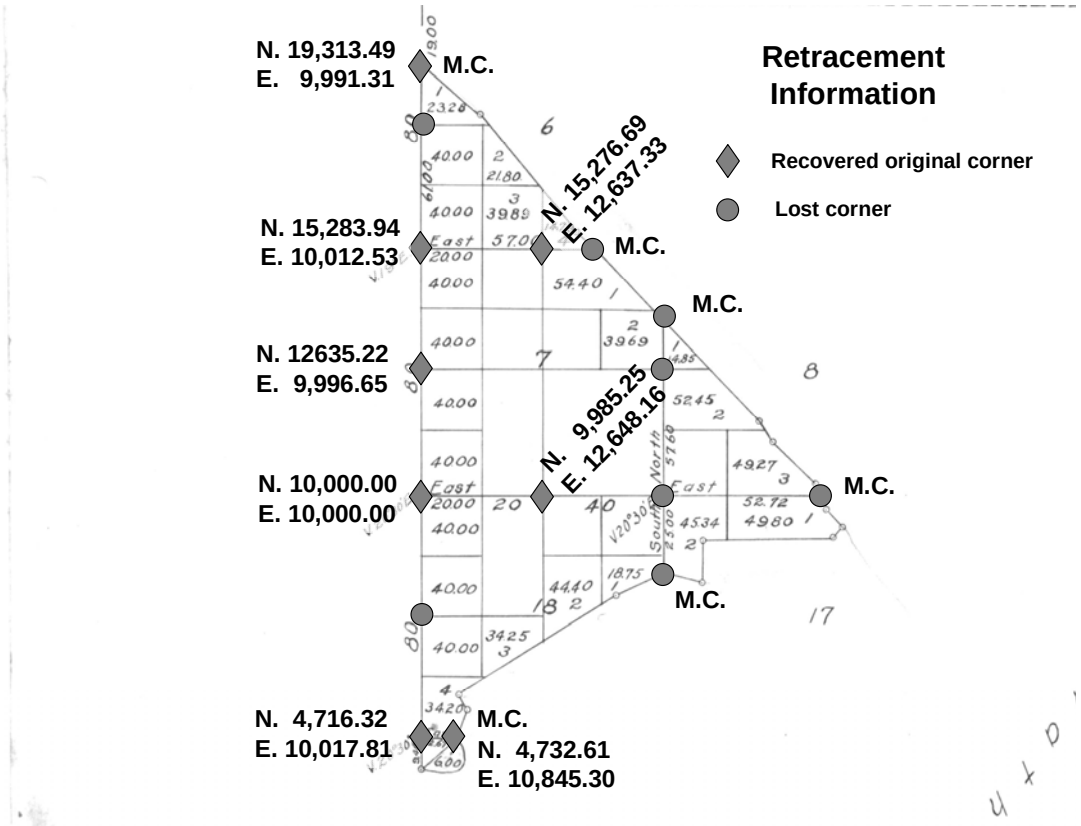
# Supplemental Exercise #1



## Record Meanders

| | | |
|---|---|---|
| | | *Beginning at the meaner corner in the west boundary of Sec. 6, 37 S., 8 E., Thence in sec. 6* |
| *S. 50° E.,* | *24.00 chs.* | |
| *S. 39¼° E.,* | *51.00 chs.* | |
| *S. 50° E.,* | *9.90 chs.* | *To corner to fractional secs. 6 & 7 Thence in sec. 7* |
| *S. 45° E.,* | *31.90 chs.* | *To corner to fractional secs. 7 & 8 Thence in sec. 8* |
| *S. 44° E.,* | *46.00 chs.* | |
| *S. 35° E.,* | *6.50 chs.* | |
| *S. 48° E.,* | *21.00 chs.* | |
| *S. 13° E.,* | *4.60 chs.* | *To corner to fractional secs. 8 & 17 Thence in sec. 17* |
| *S. 12¼° E.,* | *2.70 chs.* | |
| *S. 39° E.,* | *9.00 chs.* | |
| *S. 35½° W.,* | *4.50 chs.* | |
| *West,* | *43.50 chs.* | |
| *South,* | *15.00 chs.* | |
| *N. 74 W.,* | *12.80 chs.* | *To corner to fractional secs. 17 & 18 Thence in sec. 18* |
| *S. 62½° W.,* | *17.56 chs.* | |
| *S. 58° W.,* | *61.60 chs.* | |
| *S. 32° E.,* | *6.40 chs.* | |
| *S. 20° W.,* | *10.00 chs.* | *To corner to fractional secs. 18 & 19 Thence in Sec. 19* |
| *S. 52½° W.,* | *15.90 chs.* | *To the meander post in the West boundary of sec. 19.* |

**Questions**

**1. The prescribed method to reestablish the lost cor. of secs. 7, 8, 17 and 18 is**

a) **Three point**
b) **Double proportion between the reestablished ¼ section corner and the reestablished meander corners N., S. and E.**
c) **Record bearing and distance from the ¼ sec. cor. of secs. 7 and 18.**
d) **Project the line from the cor. of secs. 7 and 18 through the ¼ sec. cor. of secs. 7 and 18 and at record distance.**

**2. The prescribed method to reestablish the lost meander corner of secs. 7 and 8 is**

a) **Intersection of the section line with the adjusted record meander line.**
b) **Record bearing and distance from the reestablished ¼ sec. cor. of secs. 7 and 8.**
c) **Proportionate distance on the adjusted record meander line.**
d) **Modified three point method.**

**3. Calculate the position for the cor. of secs. 7, 8, 17 and 18**

**4. Calculate the position for the meaner corner of secs. 7 and 8**

## Answers

**1. The correct answer is "c". There is no control to the north, south or east of this corner therefore it must be reestablished at record bearing and distance from the nearest corner to the west. See Manual Sec. 5-45.**

**2. The correct answer is "b". This is a terminal meander corner. See Manual Sec. 5-45. The meander corner are reestablished before the meander line is adjusted except in *extreme cases*, where there is extensive obliteration of the original survey the bank may become the best evidence of the meander corner for both latitude and departure, in latitude only, or in departure only. See Sec. 5-40 of the Manual. Remember we will reestablish township corners/lines first, then section corners/lines and then the meander line.**

**3. Record bearing and distance from the ¼ sec. cor. of secs. 7 and 18 to the cor. of secs. 7, 8, 17 and 18.**

- **Record is: East, 40.00 chains (2,640.00 ft.)**
- **Coordinates of the ¼ sec. cor. of secs. 7 and 18:**
  **N. 9,985.25**
  **E.12,648.16**
- **Coordinates of the cor. of secs. 7, 8, 17 and 18.**
  **N. 9,985.25 + 0.00 = N. 9,985.25**
  **E. 12,648.16 + 2,640.00 = E. 15,288.16**

**4. The ¼ sec. cor. of secs. 7 and 8 must be reestablished before the meander corner. Record bearing and distance from the cor. of secs. 7, 8, 17 and 18 to the ¼ sec. cor. of secs. 7 and 8 is: North, 40.00 (2640 ft.)**

- **Coordinates of the cor. of secs. 7, 8, 17 and 18.**
  **N. 9,985.25**
  **E. 15,288.16**
- **Coordinates of the ¼ sec. cor. of secs. 7 and 8.**
  **N. 9,985.25 + 2,640.00 = N. 12,625.25**
  **E. 15,288.16 + 0.00 = E. 15,288.16**

**Next the meander corner is reestablished. Record bearing and distance from the ¼ sec. cor. of secs. 7 and 8, to the MC between secs. 7 and 8 is: North 17.60 (1,161.60 ft.) Note: on the plat this line**

**is labeled North, 57.60, so we subtract 40.00 to get 17.60, the distance from the ¼ sec. cor. to the M.C.**

- **Coordinates of the MC between secs. 7 and 8.**

  **N. 12,625.25 + 1,161.60 = N. 13,786.85**
  **E. 15,288.16 + 0.00 = E. 15,288.16**