

**19 March 2004 Stone Barn Traces  
Sec 7, Jordan Twp, Fillmore Co.**

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**Land Owners:**

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**Dye Input Points:**

**23D8834** – 339.9 gm of 20 wt% sol. Rhodamine WT @ 12:00 19 Mar 2004

**23D8855** – 499.2 gm of 35 wt% sol. fluorescein (uranine) @ 12:30 19 Mar 2004

**Monitoring Points:**

- 23X100** Road culvert north side of sec. 7, Jordan Twp. Down stream of A812.  
4853606 N, 554350 E (NAD 83)
- 23X101** West end of road culvert east side of sec. 7, Jordan Twp. Down stream of A17,  
A804 & A874.  
4852692 N, 555575 E (NAD 83)
- 23X102** Stream run down stream of A804, sec. 7 Jordan Twp.  
4852619 N, 555466 E (NAD 83)
- 23X103** Stream run down stream from A17 & A874, sec. 7, Jordan Twp.  
4852656 N, 555466 E (NAD 83)
- 23X104** East end of road culvert west side of sec. 8, Jordan Twp. Down stream of A17,  
A804 & A874.  
4852711 N, 555623 E (NAD 83)
- 23X105** Bear Creek Culvert, west end, sec. 9, Jordan Twp. Down stream of everything.  
4852271 N, 558088 E (NAD 83)
- A17 outfall.** Spring A17, Stone Barn Spring. Monitored at end of outfall pipe through dam.  
4852707 N, 555252 E (NAD 83)
- A17** Spring A17, Stone Barn Spring. Spring rise on west side of pond.  
4852736 N, 555214 E (NAD 83)
- A803** Spring Run from A803, sec. 9, Jordan Twp. Near X105.  
4852302 N, 558066 E (NAD 83)

- A874** Spring A874. Spring at the southwest end of the dam impounding A17. Monitoring point down stream from spring. Labeled "A17X" initially. 4852689 N, 555225 E (NAD 83)
- A874N** The rise of A874 at the south end of the dam ponding A17.
- A874S** The rise of A874 in the drainage way that heads south and west from the A17 pond.
- Anderson Well** Anderson house well, original well, 60' deep. Unique # 256150. 4852740 N, 555476 E. (NAD 83)

### **Results:**

- Positives:** Anderson Well: Water samples collected on 22 March and 23 March were both positive for fluorescein and Rhodamine WT.
- A17: Stone Barn Spring – large spring in pond behind dam. Water samples collected on 24 March and 31 March contained both fluorescein and Rhodamine WT. A background bug placed on 28 Feb and changed on 19 Mar was negative. Bugs changed on 24 Mar and 31 Mar were positive for both dyes.
- Stream sampling points down stream from A17: X103, X101, X104 and X105 positive for both dyes. Several of the samples had only fluorescein in them but Rhodamine WT was seen in many of them.
- Ambiguous:** A874: Spring near the south west corner of the dam ponding A17. One small fluorescein detect in a bug and one small Rhodamine WT detect in a water sample.
- Negatives:** X100 on the north side of section 7.  
X102 in the ravine draining the southeast corner of section 7.  
A803 1.5 miles east of section 7, near 105.

### **Interpretation:**

The two dyes washed into Sinkholes D8834 and D8855 both went to the pond formed by damming Spring A17. The transit time was less than 5 days. The dye was present in the first samples collected after the dye input.

Both dyes also went directly to the Anderson House Well. The limit on the transit time is less than 3 days set by the first water sample collected after the dye input.

Both dyes then flowed down the surface drainage to the east.

Stone Barn

UTM's

wel

555475/4852737

X102

555466/4852614

X103

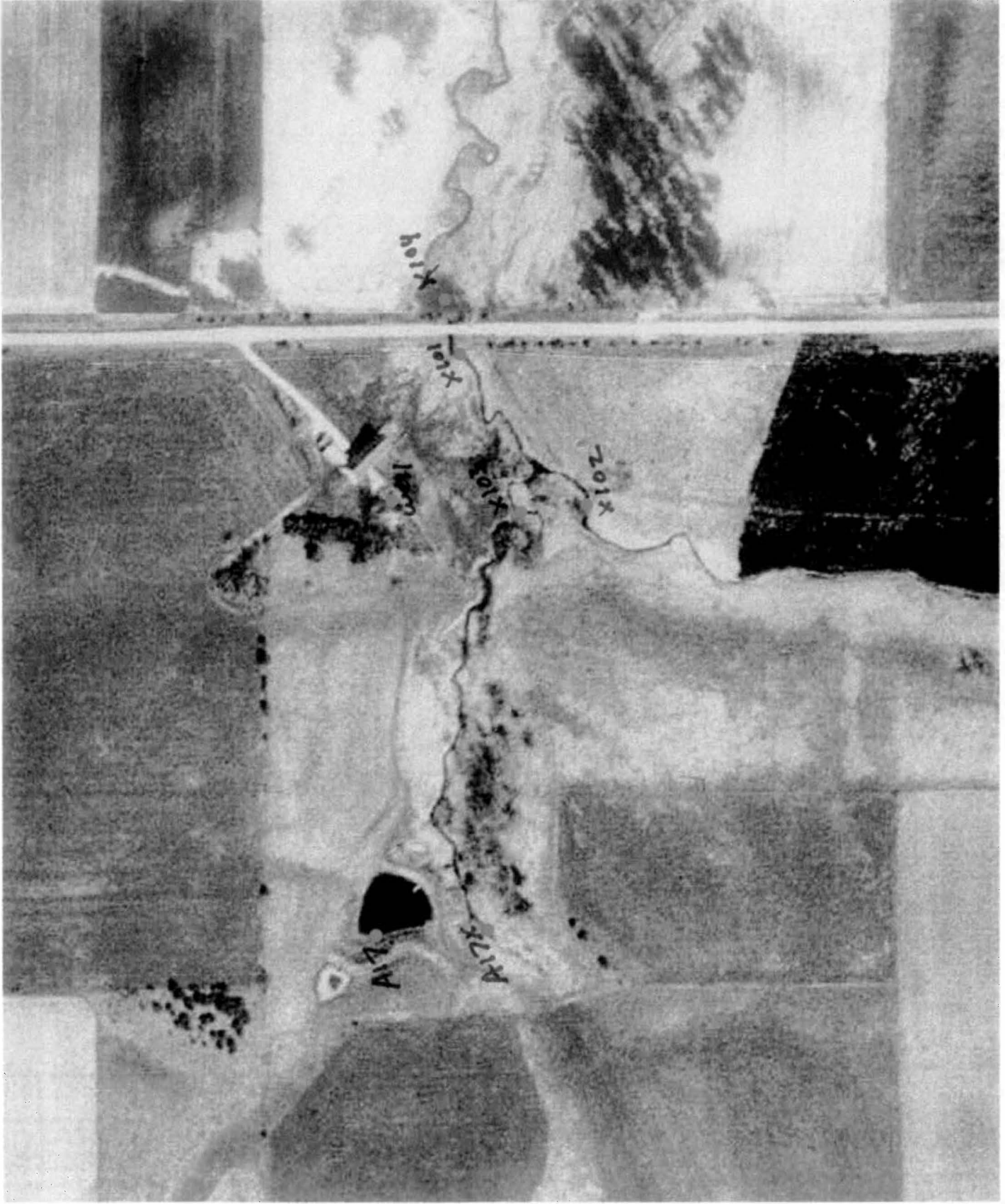
555466/4852656

X104

555600/4852713

X105 (not on  
this photo)

558088/4852271



400 Meters

200

0

200

