

August 16, 2016

## MEMORANDUM

To: Brian Hunt  
From: Tom Grimshaw  
Subject: Proposed Field Stops for Next Field Visit: FM 967 to Onion Creek

In my memo of July 7, 2016, I proposed that we focus our complementary mapping effort in the Mountain City Quadrangle on the area between FM 967 and Onion Creek and from the eastern extent of Edwards outcrop to FM 1626. As I mentioned in the memo, this effort will involve combining your field procedures and documenting in 11x17 format with my air photo stereo pair mapping. Both procedures involve field checks of outcrops and were well demonstrated in our recent joint work at the Rutherford Ranch tract.

Attachments A shows the suggested area with proposed field stops. A description of the proposed stops is shown in Attachment B. The area outlined in pencil (indicated by the letter "D") is the approximate boundary of Dahlstrom Ranch of the City of Austin's Water Quality Protection Lands.

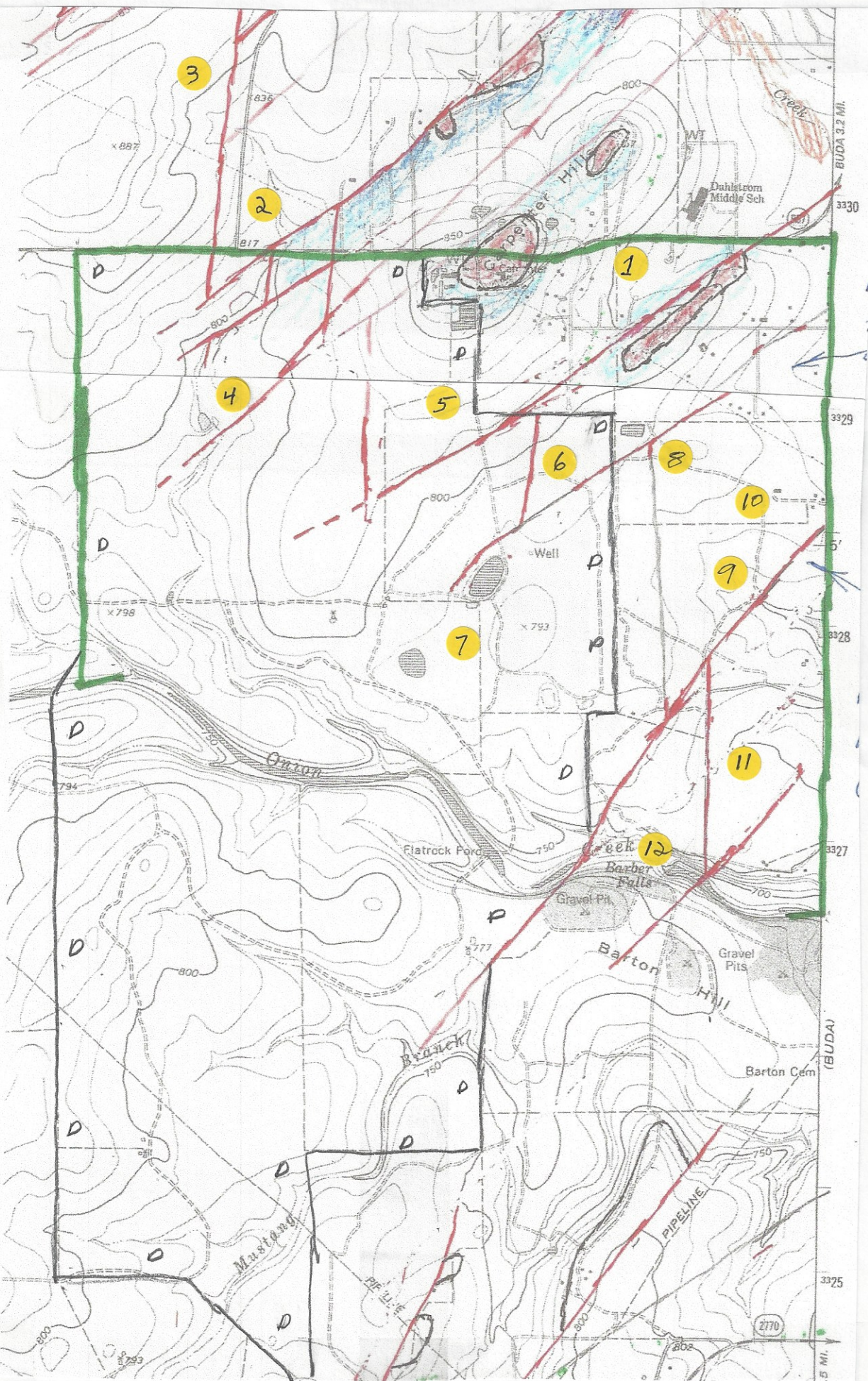
The Dahlstrom Ranch area was covered in a portion of Austin Geological Society Field Trip Guidebook 35 (Spring 2015). Copies of the most relevant pages (3, 8, and 9) are included in Attachment C for reference as we prepare for our field trip.

Perhaps in a future field trip we can address the area south of Onion Creek to FM150.

As I noted in my previous memo, I look forward to working with you on this next "piece of the puzzle" for geologic mapping of the Mountain City quad.

Attachment A.

Proposed Next Segment of Mapping Between FM 967 and Onion Creek,  
Showing Proposed Field Stops



Attachment B.

Description of Proposed Field Stops, FM 967 to Onion Creek

1. Brief stop to confirm Buda cap on Del Rio on two hills. Also, is it possible to accurately map the Georgetown-Del Rio contact? Use Del Rio thickness?
2. Confirm fault where it is crossed by the road. Also, confirm Edwards on west and northwest sides of the faults, and Del Rio on the east and southeast sides. Confirm Edwards along road extending north off FM 967.
3. Is there any evidence of the Regional Dense Member east of the road leading to the ranch house? Also, is the north-south cross fault correct? The two faults terminating on it could be dashed further.
4. Check the mapped fault of Edwards against Del Rio at location of stock pond.
5. Determine the relationship of the Edwards and Del Rio west of the road extending south of FM 967. A fault contact is suspected, but needs to be checked.
6. Confirm fault contact of Edwards and Del Rio east of the road near the sinkhole.
7. Examine the large sinkhole in the smaller one to the southwest. Look for evidence of faulting.
8. Check Edwards – Del Rio fault contact.
9. Check Edwards-Del Rio fault by walking up the small drain. Confirm Edwards on west side.
10. Proceed north of creek. Determine the relationship between Edwards and Del Rio. Cannot be determined on air photos.
11. Confirm the north-south cross fault with Edwards on the west side and Del Rio on the east side. Reconfirm Buda on Del Rio. Look for Buda on Del Rio to the west.
12. Reconfirm faults upstream and downstream from Barber Falls.

Attachment C.

Relevant Pages from AGS Field Trip Guidebook 35

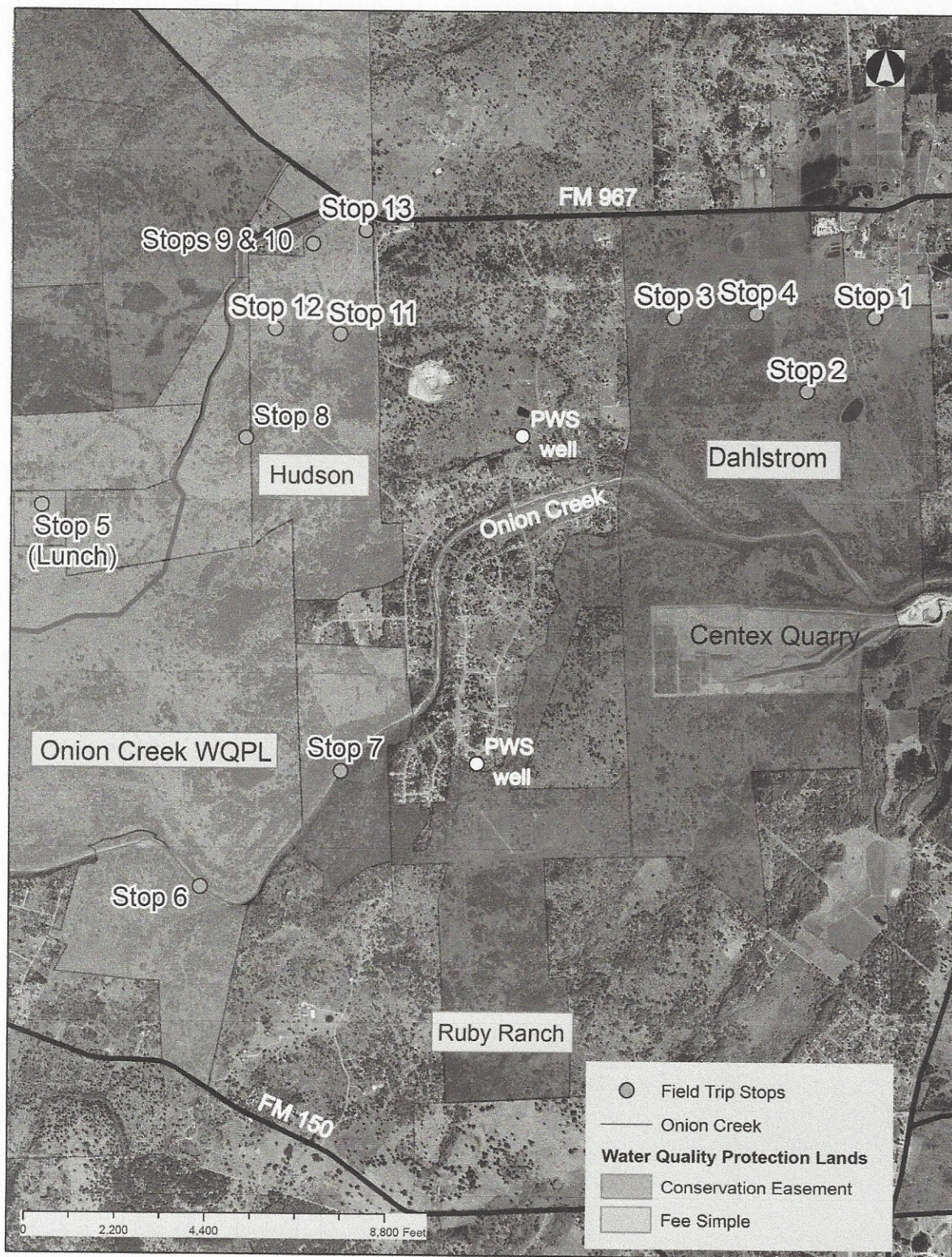
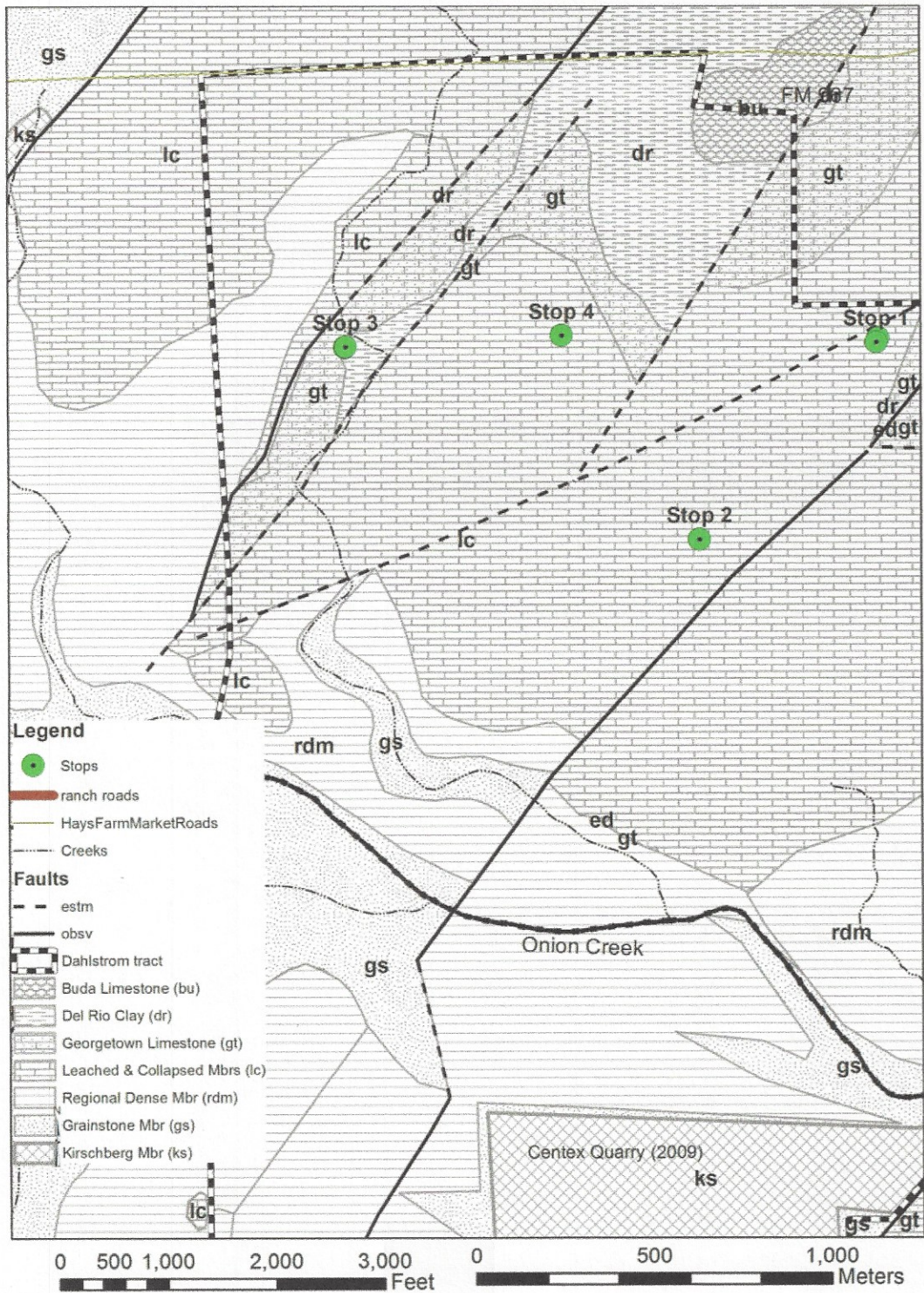


Figure 2. Location map of the three properties and stops in the Field Trip.



Geologic map of the Dahlstrom Ranch. Geology from Hauwert modified from Small et al., 1996.



*Dahlstrom Ranch location map.*