

July 16, 2018

MEMORANDUM

To: Brian Hunt
From: Tom Grimshaw
Subject: Report TBD Field Trip Notes Northeast of Blanco River

An area that has not yet been mapped (actually, remapped from my 1976 dissertation) in our Mountain City Quadrangle Geologic Mapping Project is the former Gregg Ranch. A base map showing this “unmapped” area extending from the Blanco River is in Attachment A.

During a recent field trip I was able to partially fill in this “hole”. The air photo showing the added mapping is in Attachment B. Outcrop visits that have been made are described below as Stops. The approximate locations are indicated on the air photo in Attachment B.

Stop 1. Confirmed Del Rio at entry point at cul-de-sac. Likely to be Buda also in this fault block, but fault not mapped.

Stop 2. Observed unexpected Del Rio fault block. Apparent Georgetown (could be Buda) on east side. (See Stop 4 for west side).

Stop 3. Noted Butor and Dell Rio in next full block to the south east. Need to confirm Butor on opposite side later, in visit to former Gregg Ranch road.

Stop 4. Confirmed Georgetown on the west side of fault. Possibly a thin strip of Del Rio in fault block, but not seen in photos. Subsequently found more complexity – more faults and a “tit” of Buda. Small graben of Georgetown and Del Rio with Edwards on either side. See sketch map below.

Stop 5. Confirmed Del Rio graben with fault against Edwards in two locations.

Stop 6. Walked a long way south along fault with Edwards on west end Del Rio on east side. Del Rio ends to the southwest. Very complex; another visit may be needed.

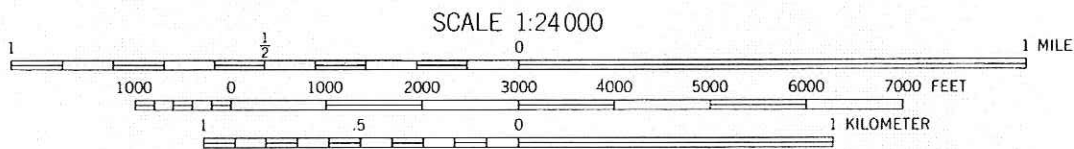
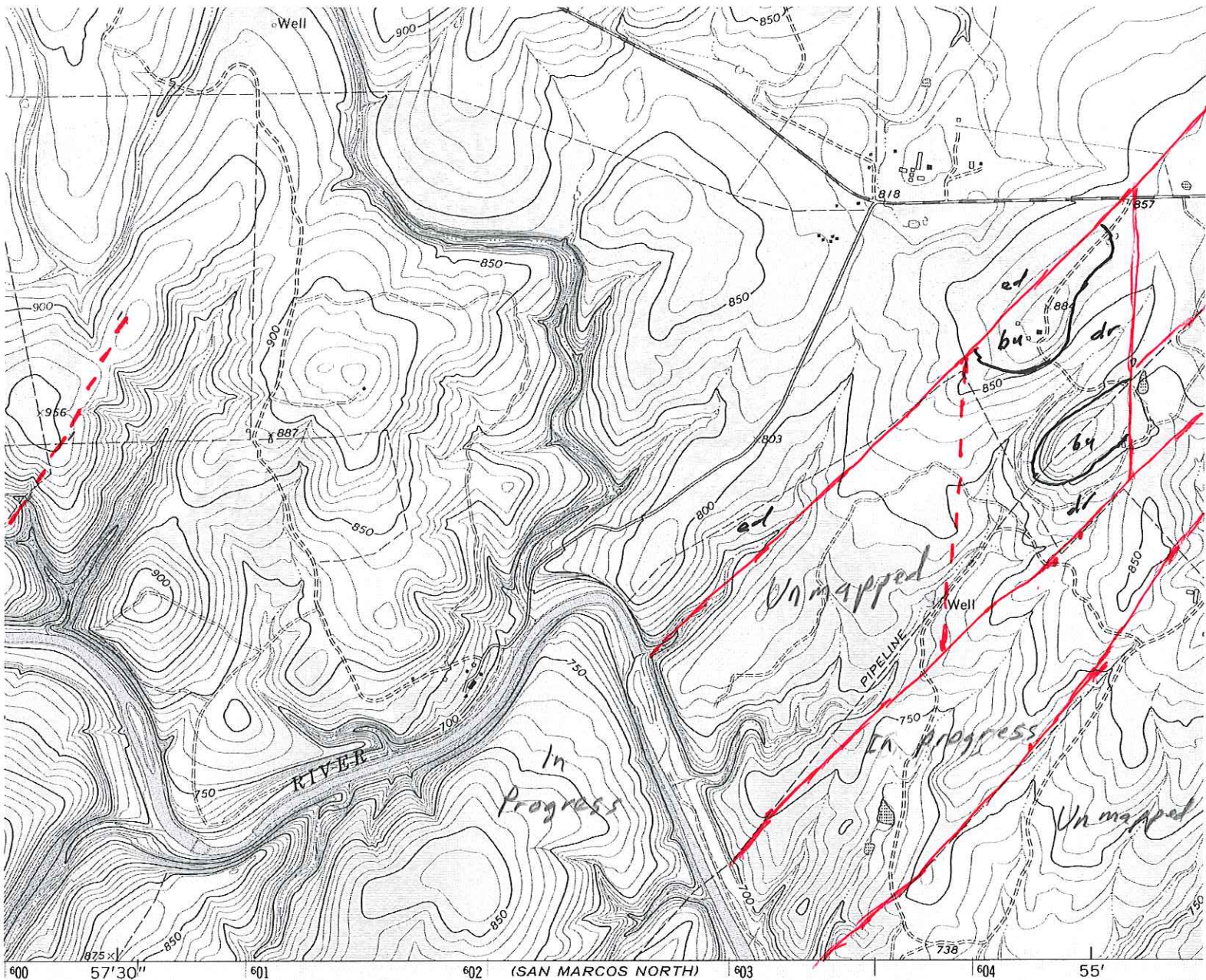
Stop 7. Walked further to the southeast to the edge of the Blanco River cliff. Then made my way down to the small tributary to the Blanco; very exhausting.

Stop 8. Took photos of stream bank of small unnamed tributary showing no tilting of beds – no apparent fault in the deep ravine. Also, found and photographed a sinkhole at the end of the stream in the ravine. Similar situation to Tarbutton Cave – could serve as a point of recharge during Blanco river flooding flood stage.

The field team departed for the BSEAD office at about 1:30 pm.

Attachment A.

Geologic Map Showing “Unmapped” Area Northeast of the Blanco River



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

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Attachment B.

Air Photo with Revised Geologic Map of “Unmapped” Area Shown in Attachment A

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Attachment C.

Exposure of Fault of Del Rio Clay Against Edwards Limestones



View is to the southwest. The grassy area...

Attachment D.

Collapsed Sinkhole at Mouth of Unnamed Tributary to the Blanco River

D1. Downward and Downstream View of the Sinkhole



Note the ferns growing at small springs on the edge. Upstream is to the left In the photo. The downstream you (right side) shows the “lip“ between the edge of the sink hole in the Blanco River.

D2. Closeup View of the Downstream Edge of the Sinkhole



This view shows the terra-rosa soil and cemented gravel at the edge of the sinkhole.

D3. Upstream View of the Sinkhole



This view shows the steep limestone ledge on the side of the sinkhole and on the streambed.

D4. View of the Sinkhole from Near the Blanco River



Attachment E.

Two Views of the Steep Cliffs on the East Side of the Blanco River



Photos taken in northward direction.

Attachment F.

Downstream and Upstream Views of the Blanco River



Photos taken near the sharp bend in the river generally northeastward and to a southeastward direction.

Attachment G.

Fault between Edwards (Left) and Del Rio



Attachment H.

Sinkhole in Georgetown Fault Block



Attachment I.

Two Views of “Hog Wallow” in Del Rio

