

May 10, 2016

DRAFT M E M O R A N D U M

To: Brian Hunt, Justin Camp
From: Tom Grimshaw
Subject: Field Trip Stops, Day 1 (May 9) At Rutherford Ranch

I believe we had a very successful first day of field trip stops and outcrop examinations at the Rutherford Ranch. The primary objectives were to verify (or modify) air photo mapping of the Walnut-Edwards contacts and to confirm the existence and locations of Balcones faults.

The main focus of the first day was on the northern part of the Ranch. The day began with a brief coordination meeting with Michael Rutherford near the gate. Justin Camp joined us shortly afterward. Field trip stops are shown on the air photo in Attachment A, and the stops are described below.

1. Walnut-Edwards contact on the hill south of the entrance gate. There are two candidate ledges for the contact, but for 1:24,000 scale mapping, the location of the contact will not be greatly affected.
2. Walnut-Edwards contact west of main road into Ranch on upthrown side of fault.
3. Walnut outcrop on east side of fault, demonstrating the existence of the fault. Top of Walnut difficult to discern on hillside.
4. Fault outcrop observed by Brian; exact location uncertain.
5. Walnut-Edwards contact on south side of hill.
6. Outcrop of highly weathered alluvium – Onion Creek terrace – on hillside. Former borrow pit.
7. Glen Rose outcrop, 8-10 foot high vertical bank, on east side of small tributary to Onion Creek. Flaggy beds noted.
8. Walnut-Edwards contact on road leading down hill.
9. Deeply cut ravine. No evidence of faulting, which confirms fault location northwest of the ravine. Location confirmed by Brian. Walnut-Edwards contact apparently at top of “grotto” at head of ravine.
10. Walnut-Edwards contact on hill.
11. Walnut-Edwards contact on east side of small drain where stock tank has been built. Demonstrate that cross fault is not needed.
12. Walnut-Edwards contact walked by Brian to small tributary to Onion Creek.

Plans for the second day call for outcrop checks in the southern part of the Ranch. I look forward to making these field visits.

Attachment A.

Air Photo of Rutherford Ranch Area Showing Field Stops During First Day

SSGS

Verify Red
Kwa-Ked
both sides
of fault

Verify
Kwa-Ked

Look for
fault
evidence

215 1372MCS USAF 15APR58 1140ET AF-58-4 ROLL-3

230 58004 R-3



CAL. C. L.
53.96mm

0263

52045

