

Field Notes

Description

4/23/04 – Field Mapping of RCRA Canyon

9/23/04 – Daily Summary

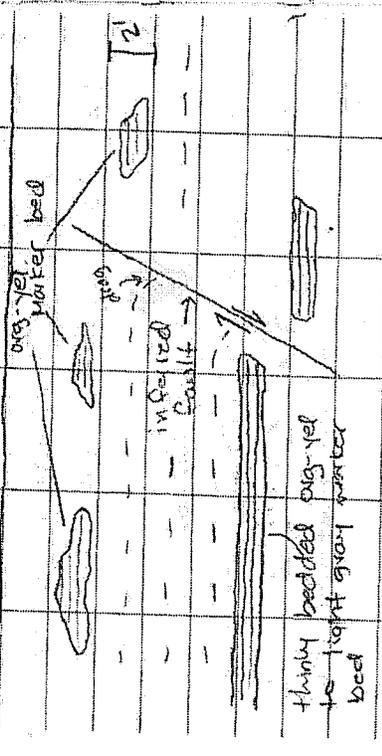
9/24/04 – Field Mapping of RCRA Canyon

10/22/16

CASHUA R1

FIELD MAPPING OF RURA CYN

- C-02** - Steep slope of E cgn wall 3/4 way up slope
- ↳ 7 sets of distinct orange yellow, sub horizontal marker beds ~ 6' apart stratigraphically
- appears to be near top of weathered claystone unit (w/ both sets of marker beds)
- apparently offset 1-2' vertically, poorly exposed



- reddish brown - org. yellow staining on exposed faces, some on internal fractures

Photos # 15, 16, 17

- inferred fault strikes ~ N75W/65N
- local bedding // joint attitudes for C-02
- N35W/04W N38W/06W
- N34W/09W N40W/11W
- fracture plane attitudes for C-02
- N54E/45S N70W/87N
- N79W/89N

- C-03** - near base of slope of E cgn wall 1/5 way to top
- ↳ thinly bedded (<2cm) to finely laminated (1-4mm) gray brown to light bluish gray claystone ~ 30 ft down
- Section from C-02 marker beds, horiz to shallowly dipping w/ sub vert. fractures

Photos # 2, 3, 4, 13, 14, 33-35

C-03 bedding || joint attitudes

N35W/07E
N30W/10E

N15W/05E

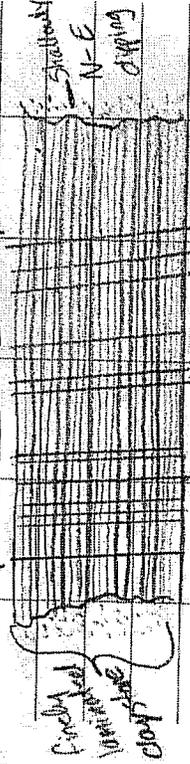
fracture plane attitudes

N73W/75N
N55E/74S

N78E/74N
N70E/76S

→ numerous sub-vertical to vert. joints / fractures w/in finely laminated light gray claystone
↳ 3 parallel fractures w/in 2' wide area. joints ~ N72E/85S

Diagram of finely laminated claystone w/ sub-vertical parallel fractures, sub-vertical fractures



~2'

DAILY SUMMARY - 9/23/04

- Mapped along E canyon wall in S portion of RCRA Cyn for 2 hrs in late afternoon.
- 1st location (C-02) is near top of weathered claystone unit, shallowly dipping claystone beds, 2 distinct marker beds present ~ 10-15' below top of section. Marker beds offset 1-2' along inferred N dipping fault. Numerous steeply dipping fractures and joints w/in marker beds.
- 2nd location (C-03) up canyon ~ 100ft along E wall. Claystone outcrop ~ 30' down section from C-02 marker beds. Shallowly dipping, finely laminated light gray claystone w/ numerous sub-vertical joints / fractures.

FIELD MAPPING
OF RCRA CYN

9/24/04

C-04 ~ 30' N of C-03, ~ 20' wide exposure of thin bedded to lineily laminated, light gray to light brown claystone
 ↳ along strike & @ ~ same strat. level as C-03 w/in weathered unit
 ↳ relatively high fracture density

Bedding // joint attitudes:
 N12W/14E N10W/17E

Fracture Plane attitudes:

N65E/71S N40E/79S
 N81W/99N N42E/72S
 N72E/75S N64E/69S

Photo # 36-38

C-05 ~ 25' upslope (ENE) of C-04, near 2 distinct marker beds defined @ C-02
 ↳ lower marker bed is well defined, upper marker bed (gray-yellow bed w/ lg. concretions) is well defined.

↳ thin bedded to lineily laminated lt. gray to lt. tan claystone
 ↳ pervasively fractured w/ 1 braided ~near vertical fracture w/ gypsum & other 2ndary mineralite in filling.

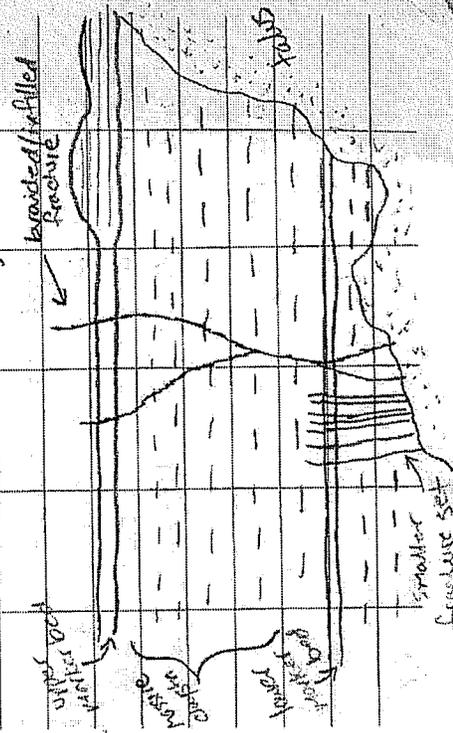


PHOTO # 39-45

Bedding II joint attitudes: N08W/72E
*horizontal N28W/14E

Fracture Plane Attitudes:

N28E/77E

N77E/88S

N69E/74S

N73E/79S

INJECTED FRAX. PLN. APERTURES

1mm, 2mm, 2mm, 5mm, 10mm, 15mm

1mm, 0.5mm, 0.5mm

C-06 ~ 50' S of C-05 along strike @ upper marker bed

- ↳ marker bed becomes less well defined → multiple levels of org-yel lg. concretions
- ↳ bedding is ~ horizontal
- ↳ many fractures w/ congl. sets

Fracture Plane Attitudes:

N64E/31S N68E/79S

N43W/69N N32W/72N

→ most fractures in this area have 0-1mm aperture w/ mineralization

PHOTO # 46-52

C-07 ~ 50-200' up cgn from

C-05 @ nearly same strat. level

↳ marker beds not well defined

can see some bedding but

mostly massive H. gny-H. bn

Chertystone

Bedding II joint attitudes: N4E/09E

Fracture Plane Attitudes:

N66E/84S

N62E/78S