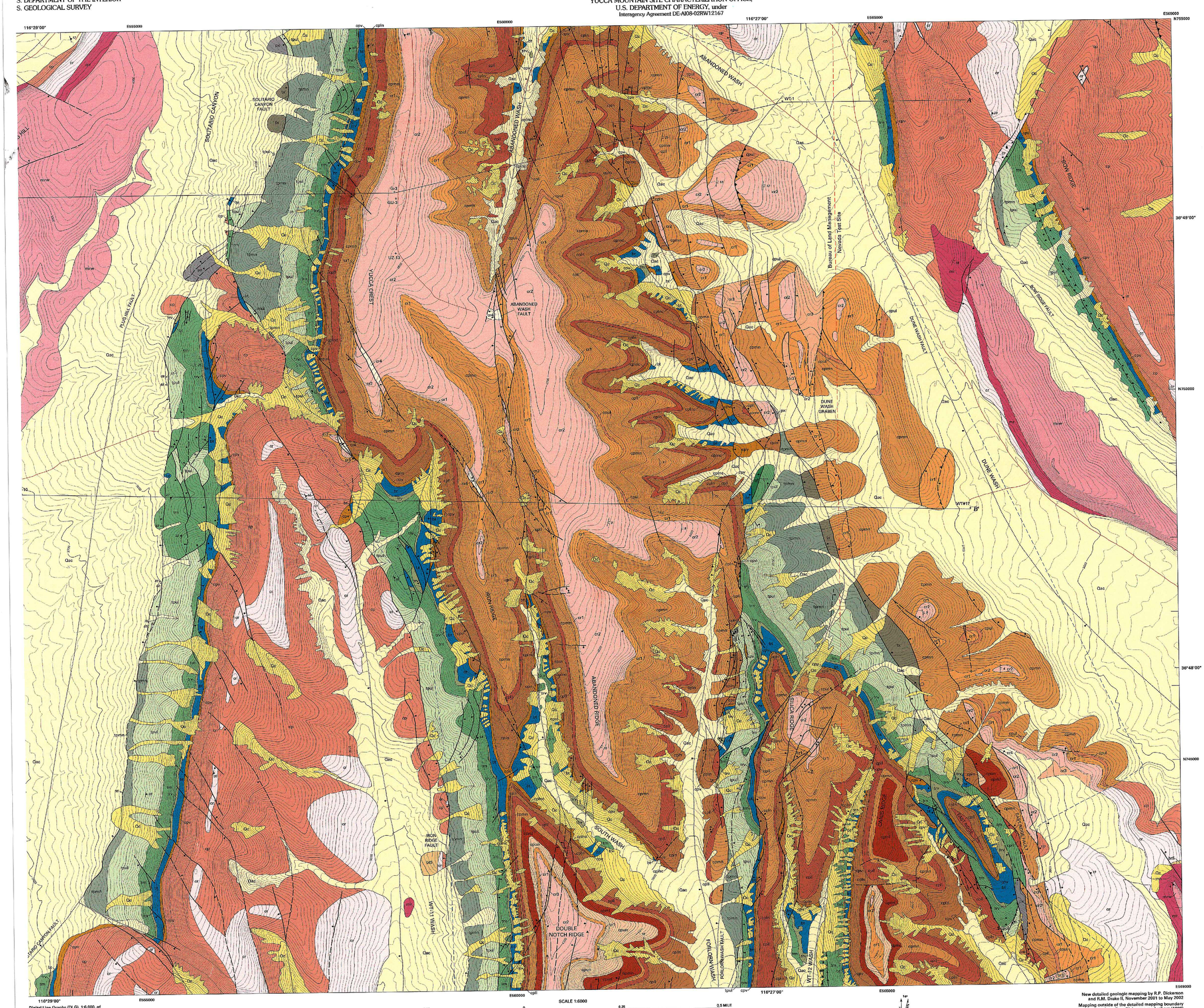
MOL.20031203.0380

S. DEPARTMENT OF THE INTERIOR
S. GEOLOGICAL SURVEY

Prepared in cooperation with the
YUCCA MOUNTAIN SITE CHARACTERIZATION OFFICE,
U.S. DEPARTMENT OF ENERGY, under
Interagency Agreement DE-AI08-02RW12167

MISCELLANEOU



Digital Line Graphs (DLG), 1:6,000, of photo mission flown by EG&G in 1990 for the

tate Plane coordinates

SCALE 1:6000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

APPROXIMATE MEAN DECLINATION, 1998

New detailed geologic mapping by R.P. Dickerson and R.M. Drake II, November 2001 to May 2002
Mapping outside of the detailed mapping boundary from Day, Dickerson, and others (1998)
Digital cartography by R.M. Drake II, C.A. San Juan, and Alessandro J. Donatich
Edited by Alessandro J. Donatich
Manuscript approved for publication August 22, 2003

CORRELATION OF MAP U

Qac, Qc
Unconformity
mr, mrw
Unconformity
bt5
Unconformity
cr4, cr3, cr2, cr1, cr, cpul, cpun, cpml, cpmn, cpll, cpln, cplnc, cpv, cp
px
Unconformity
bt
Unconformity
trv, trn, trl, tpul, tpmn, tpll, tpln, tpv, Tac, Top, tx, tr

LIST OF MAP UNITS

QUATERNARY SURFICIAL DE

- Qac — Alluvial and colluvial deposits (Holocene)
- Qc — Rock-fall, slope-failure, talus, and colluvial

MIOCENE VOLCANIC RO

Timber Mountain Group
- mrw — Rainier Mesa Tuff, welded
- mr — Rainier Mesa Tuff, nonwelded to partly w

Paintbrush Group
- bt5 — Bedded tuff
- px — Paintbrush Group, undivided tectonic fau

Tiva Canyon Tuff
Crystal-rich member
- cr — Crystal-rich member, undivided
- cr4 — Vitric and subvitric transition zone
- cr3 — Pumice-poor zone
- cr2 — Mixed pumice zone
- cr1 — Transition zone

Crystal-poor member
- cp — Crystal-poor member, undivided
- cpul — Upper lithophysal zone
- cpun — Upper nonlithophysal zone
- cpml — Middle lithophysal zone
- cpmn — Middle nonlithophysal zone
- cpll — Lower lithophysal zone
- cpln — Lower nonlithophysal zone
- cplnc — *Columnar subzone*
- cpv — Vitric zone

- bt — Pre-Pah Canyon bedded tuff

Topopah Spring Tuff
Crystal-rich member
- tx — Undivided tectonic fault slivers and l
- tr — Vitric and densely welded zones and
- trv — Vitric zone and densely welded zone
- trn — Nonlithophysal zone
- trl — Lithophysal zone

Crystal-poor member
- tpul — Upper lithophysal zone
- tpmn — Middle nonlithophysal zone
- tpll — Lower lithophysal zone—Shown in cr
- tpln — Lower nonlithophysal zone—Shown
- tpv — Vitric zone—Shown in cross sections c

- Tac — Calico Hills Formation—Shown in cross sect

Crater Flat Group
- Top — Prow Pass Tuff—Shown in cross sections c

Contact—Solid where exposed; dashed where where concealed beneath Quaternary co

Fault—Solid where exposed or tightly constra located; dotted where concealed beneath on downthrown side where relative move line indicates rake and plunge of slickensi arrow indicates dip of fault plane

Reverse fault—Sawteeth on upthrown side

Slide block

Nevada Test Site boundary

Unimproved road

Boundary of new detailed geologic mappin from Day, Dickerson, and others (1998)

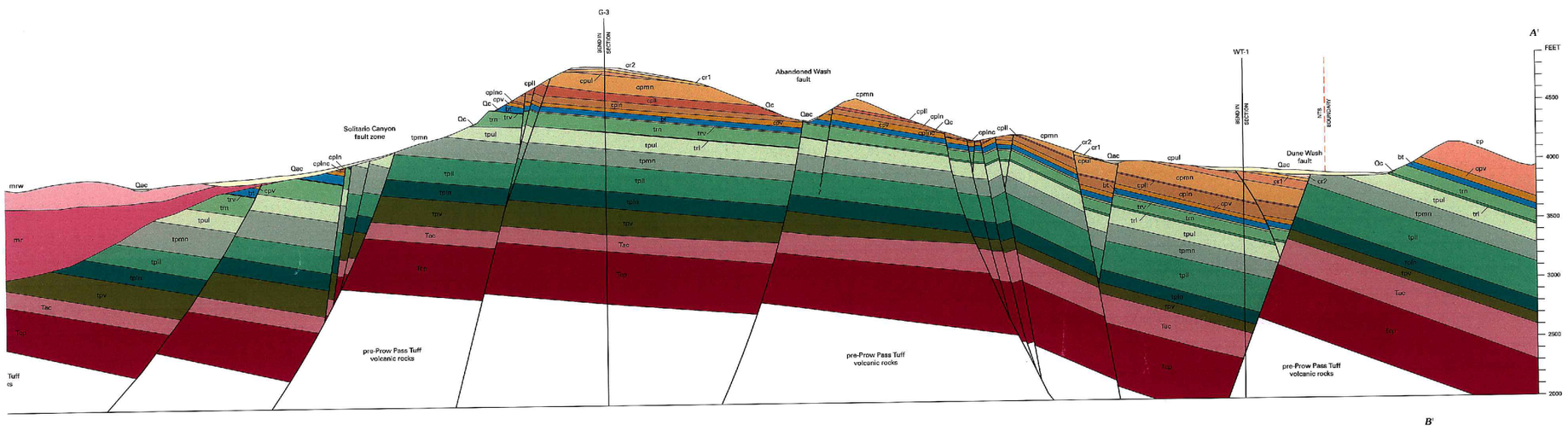
WT#17 Borehole location and number

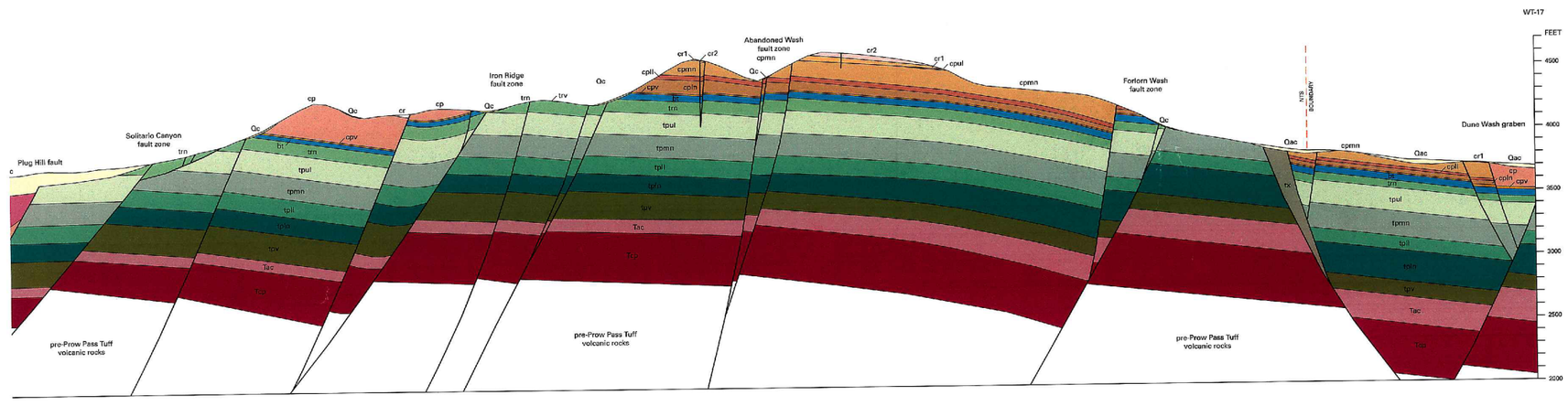
Strike and dip of bedding

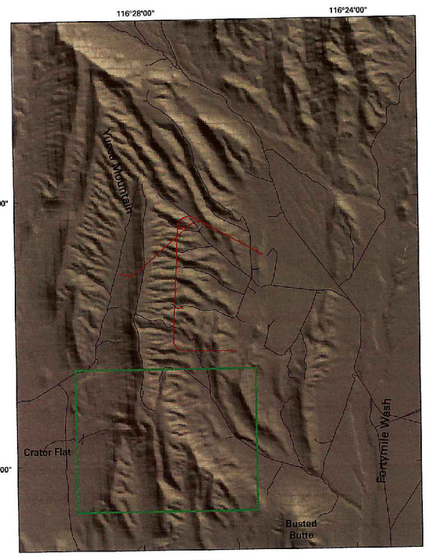
Strike and dip of compaction foliation

Strike and dip of contact—Calculated from

Breccia







EXPLANATION

- Study area
- Approximate location of the underground Exploratory Studies Facility and the Cross Drift
- Unimproved road

INDEX MAP

PRELIMINARY WORKING DRAFT

GEOLOGIC MAP OF SOUTH-CENTRAL YUCCA MOUN NYE COUNTY, NEVADA

By
Robert P. Dickerson[1] and Ronald M. Drake II[2]
2003

[1]S.M. Stoller Corp.
[2]U.S. Geological Survey

Any use of t descriptive endoseme
This map w digital files.
For sale by Box 25286, 1-888-ASK-
Ardefo.cov http://pubs.

QA:NA