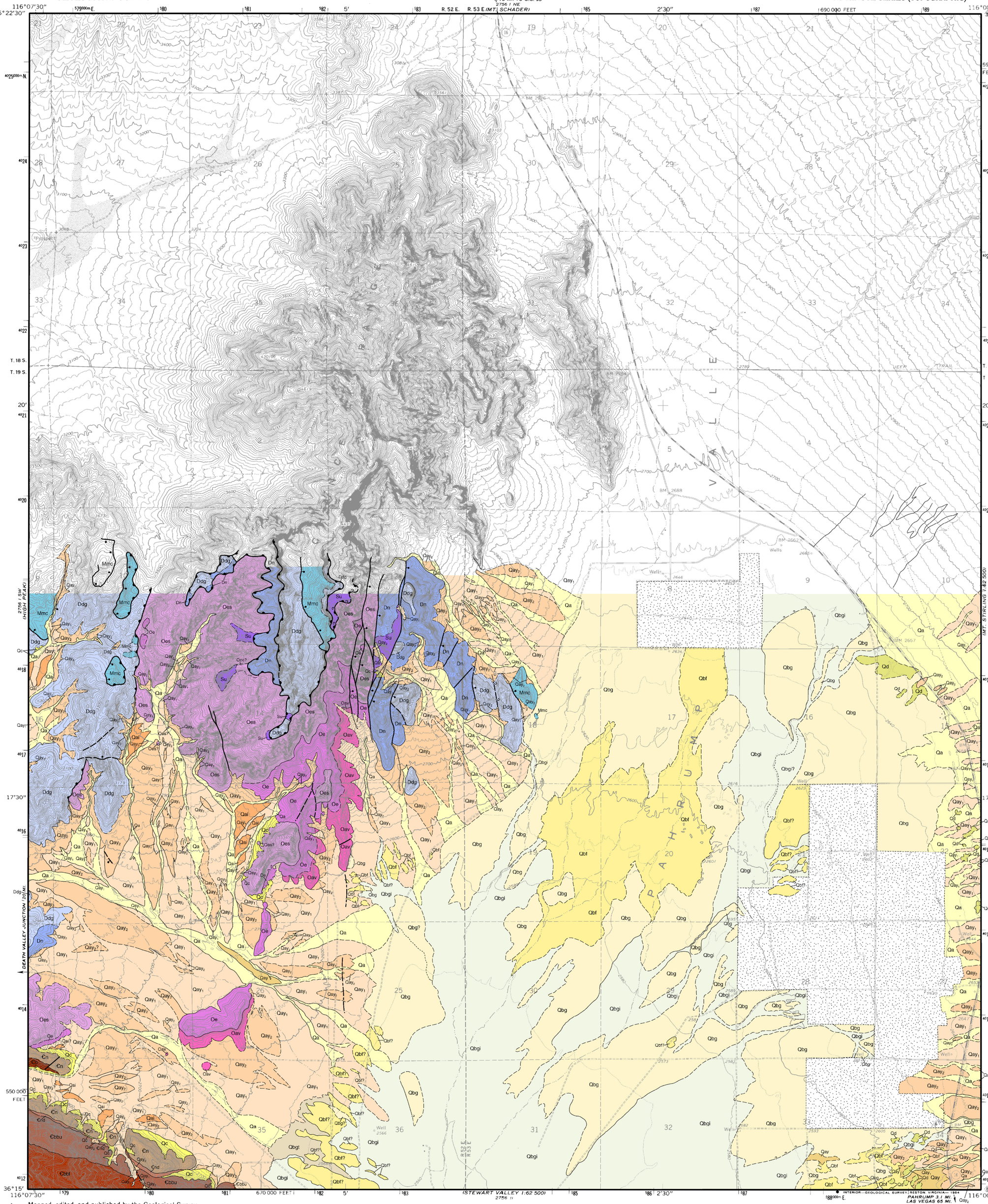
Prepared as part of the STATEMAP component of the National Cooperative Geologic Mapping Program in cooperation with the U.S. Geological Survey
and in cooperation with the Nye County Department of Natural Resources and Federal Facilities

OPEN-FILE REPORT 03-14
NEVADA BUREAU OF MINES AND GEOLOGY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAST CHANCE RANGE QUADRANGLE
NEVADA—NYE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Alluvial Fan Deposits

- Qa — Active alluvium
- Qc — Young colluvial deposits
- Qay — Young alluvial deposits
- Qay_1 — Later younger alluvium
- Qay_2 — Earlier younger alluvium
- Qai — Intermediate age alluvium

Basin Deposits

- Qd — Younger sand dune deposits
- Qbgt — Young transitional basin/fan deposits
- Qbgi — intermittently active youngest basin deposits
- Qbg — Youngest basin deposits (late Holocene)
- Qbf — Young basin deposits (late Holocene)

Bedrock Deposits

- Mmc — Monte Cristo Formation
- Ddg — Devils Gate Formation
- Dn — Nevada Formation
- Su — undivided Silurian deposits
- Oes — Ely Springs Formation
- Oe — Eureka Quartzite
- Oav — Pogonip Group; Antelope Limestone
- Ꞓn — Nopah Formation
- Ꞓnd — Nopah Formation; Dunderberg Shale

Bonanza King Formation

- Ꞓb — Bonanaza King Formation; undifferentiated
  - Ꞓbbu — Banded Mountain Member, upper part
  - Ꞓbbl — Banded Mountain Member; lower part

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Lithologic contact Dashed where inferred or approximately located; short dashes indicate internal contact between same unit; queried where uncertain.

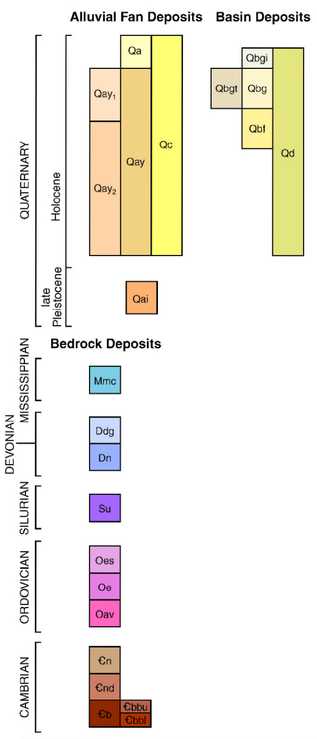
Normal-slip fault Bar and ball on downthrown side; dashed where inferred or approximately located; dotted where concealed.

Strike-slip fault Dashed where inferred or approximately located; dotted where concealed.

Low angle normal fault Dashed where approximately located; queried where uncertain; dotted where concealed.

Lineament Determined from aerial photography.

Areas of significant disturbance due to cultivation.



Field work done in 2002. Bedrock geology modified from Burchfiel and others (1982).

DRAFT

Preliminary geologic map.
Has not undergone office or field review.
May be revised before publication.

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Topography by photogrammetric methods from aerial photographs taken 1964. Field checked 1968

Polyconic projection. 1927 North American datum
10,000-foot grid based on Nevada coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue
To place on the predicted North American Datum 1983 move the projection lines 6 meters north and 77 meters east as shown by dashed corner ticks

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
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

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

QUADRANGLE LOCATION

PRELIMINARY GEOLOGIC MAP OF THE SOUTHERN HALF OF THE LAST CHANCE RANGE QUADRANGLE, NYE COUNTY, NEVADA

Craig M. dePolo and Alan R. Ramelli
2002