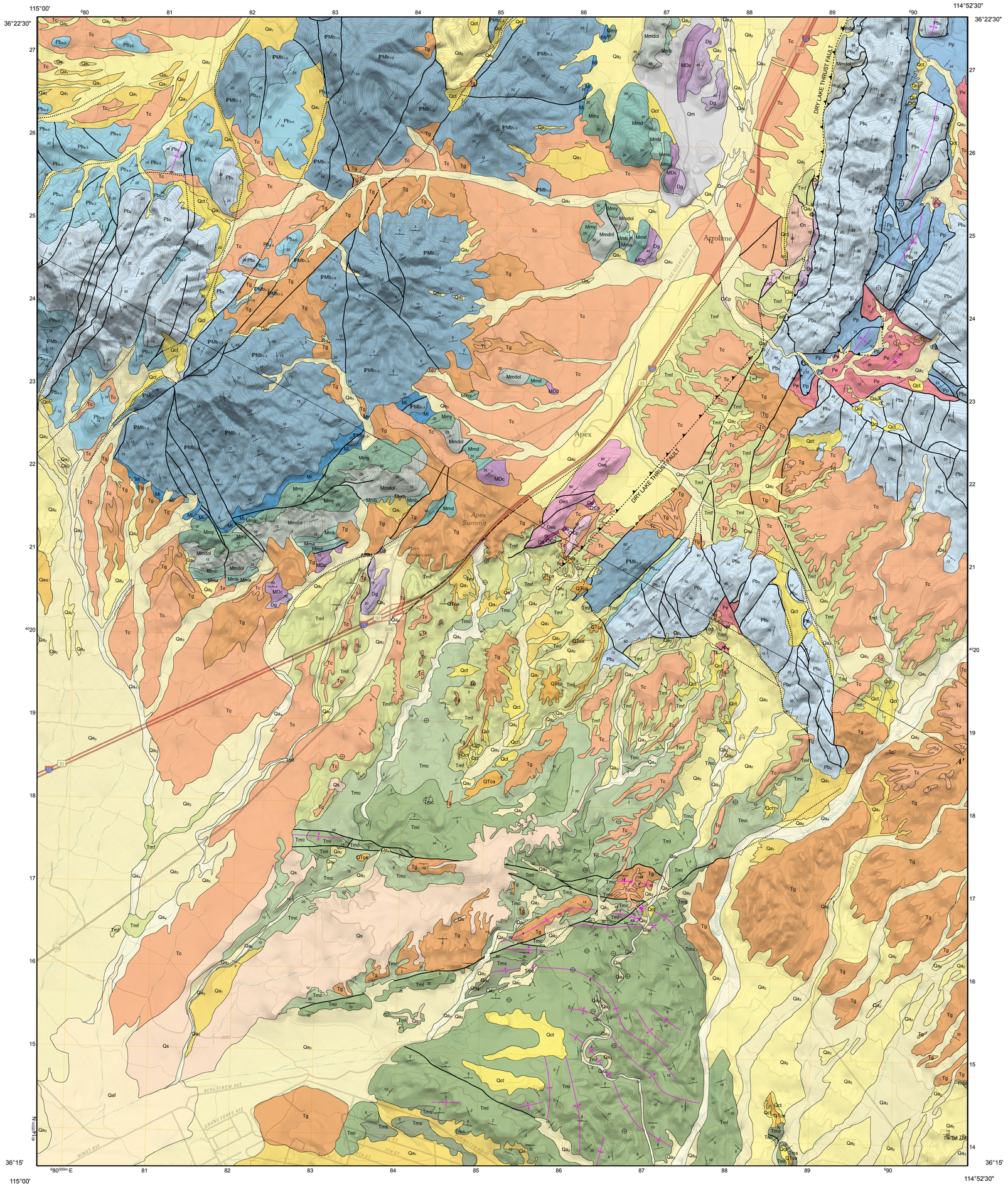
OPEN-FILE REPORT 16-3
PRELIMINARY GEOLOGIC MAP OF THE APEX QUADRANGLE, CLARK COUNTY, NEVADA
Text accompanies map



ANTHROPOGENIC FEATURES AND DEPOSITS

- Qm — Mine workings

QUATERNARY TO PLIOCENE DEPOSITS

- Qa_4 — Alluvium
- Qaf — Fan alluvium
- Qs — Sand
- Qct — Colluvium and talus
- Qa_3 — Alluvium
- Qa_2 — Alluvium in side streams and thin fans
- Qa_1 — Older alluvium
- Qau — Aluvium, undivided
- QTca — Calcrete and alluvium
- Tc — Calcrete deposits
- Tg — Gravel

PLIOCENE TO MIOCENE SEDIMENTARY ROCKS

- Tu — Undivided Tertiary rocks, in cross section only

Muddy Creek Formation

- Tmf — Siltstone and sandstone facies
- Tmc — Claystone and marl facies
- Tml — Limestone facies
- Tms — Sandstone facies

Horse Spring Formation

- Thbl — Bitter Ridge Limestone Member
- Tht — Thumb Member

PALEOZOIC ROCKS

- Pe — Esplanade Sandstone redbeds
- Pp — Pakoon Limestone

Bird Spring Formation

- Pb_6 — Upper part
- Pb_{4-5} — Middle part
- PMb_{1-3} — Lower part

- MI — Indian Springs Formation

Monte Cristo Group

- Mmy — Yellowpine Limestone and Arrowhead Member
- Mmb — Bullion Limestone
- Mmdol — Dolomitic zone
- Mma — Anchor Limestone
- Mmd — Dawn Limestone
- Mmu — Monte Cristo Group, undivided, in cross section only

- MDc — Crystal Pass Limestone
- Dg — Guilmette Formation
- MDu — Crystal Pass Limestone and Guilmette Formation, in cross section only
- Oes — Ely Springs Dolomite
- Oe — Eureka Quartzite
- OCp — Pogonip Group, undivided
- €n — Nopah Formation

Qm					
Qa_4	Qs	Qaf		Holocene	QUATERNARY
Qa_3					
Qa_2	Qau	Qct		Pleistocene	
Qa_1					
unconformity					
QTca			Tu	Pliocene	TERTIARY
unconformity					
Tc					
Tg					
unconformity					
Tmf				Miocene	
Tmc					
Tml					
Tms					
unconformity					
Thbl					
Tht					
unconformity					
Pe					EARLY PERMIAN
Pp					
Pb_6					
Pb_{4-5}					
PMb_{1-3}					PENNSYLVANIAN
MI					
Mmy	Mmu	Mmdol			MISSISSIPPIAN
Mmb					
Mma					
Mmd					
MDc	MDu				LATE TO MIDDLE DEVONIAN
Dg					
Oes					ORDOVICIAN
Oe					
OCp					LATE CAMBRIAN
€n					

Contact Solid where certain and location accurate; dashed where approximate (cross section only).

Fault Solid where certain and location accurate, dashed where approximate, dotted where concealed; queried if identity or existence uncertain.

Thrust fault Solid where certain and location accurate, dotted where concealed. Teeth on upper (tectonically higher) plate.

Anticline Solid where certain and location accurate.

Syncline Solid where certain and location accurate.

Plunging anticline Solid where certain and location accurate.

Plunging syncline Solid where certain and location accurate.

Strike and dip of bedding

41 Inclined — 19 Overturned

Vertical — Horizontal

A — A' **Line of cross section**

Scale 1:24,000

0 0.5 1 kilometer

0 0.5 1 mile

0 1000 2000 3000 4000 5000 feet

CONTOUR INTERVAL 40 FEET

Projection: Universal Transverse Mercator, Zone 11, North American Datum 1983 (m)

Base map: U.S. Geological Survey Apex 7.5' quadrangle (2012)

GN MN 12° 14' 1° 13'

UTM GRID AND 2012 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Suggested citation:
Bohannon, R.G., 2016, Preliminary geologic map of the Apex quadrangle, Clark County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 16-3, scale 1:24,000, 5 p.

See accompanying text for full unit descriptions and references for this map.

Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

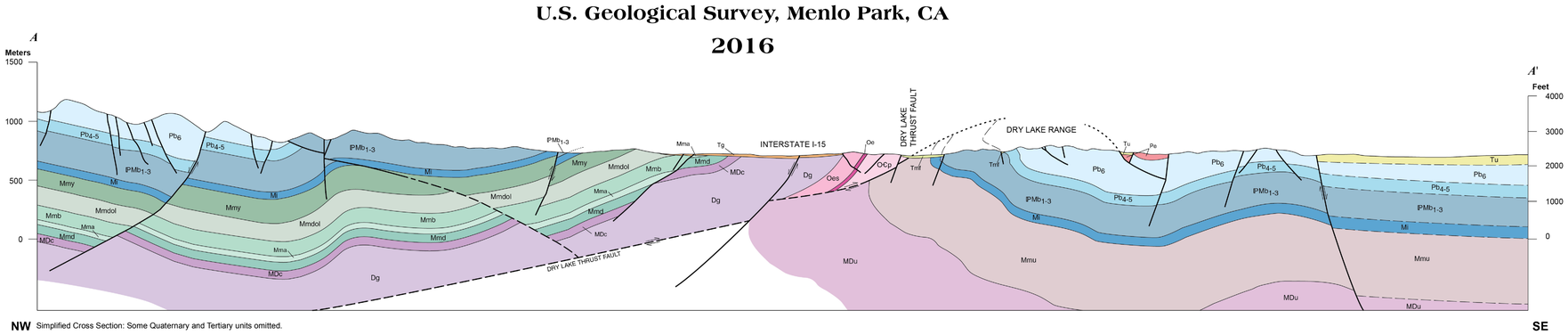
1 Gass Peak NE
2 Dry Lake NW
3 Dry Lake
4 Valley
5 Apex
6 Dry Lake SE
7 Las Vegas NE
8 Frenchman Mountain
9 Government Wash



PRELIMINARY GEOLOGIC MAP OF THE APEX QUADRANGLE CLARK COUNTY, NEVADA

Robert G. Bohannon
U.S. Geological Survey, Menlo Park, CA

2016



Simplified Cross Section: Some Quaternary and Tertiary units omitted.

Nevada Bureau of Mines and Geology
Mackay School of Earth Sciences and Engineering
College of Science
University of Nevada, Reno

Field work done in 1999, 2001

DRAFT
Preliminary geologic map
Has not undergone office, field review, or full editing
Will be revised before publication

Compilation by Robert G. Bohannon
Cartography and map production in ESRI ArcGIS v10.3.1 (ArcGeology v1.3) by Rachel E. Micander
Symbology (per FGDC-STD-013-2006)
First Edition, December 2016
Printed by Nevada Bureau of Mines and Geology

This map was printed on an electronic plotter directly from digital files. Dimensional calibration may vary between electronic plotters and X and Y directions on the same plotter, and paper may change size; therefore, scale and proportions may not be exact on copies of this map.

For sale by:
Nevada Bureau of Mines and Geology
2175 Raggio Pkwy.
Reno, Nevada 89512
ph. (775) 682-8766
www.nbmg.unr.edu; nbmg@unr.edu

2494