0160 0048

WASHOE COUNTY GENERAL
ITEM 106

Norm Melvin (W.E. Nork Inc 322-2604)
Kumiva Peak 1:100,000 scale
unpublished geol. map (Grose)

2 ea copies of W/½ of map.
(from 119°30' W to 120°00 W).
full size N/S.
also color Xerox copies (2 ea)
of explanations
Please call Mr. Melvin @
above # when finished

Geologic Map of Humina Peak 1° sheet, Nevada

T L T Grose Feb. 1988

(Preliminary edition)

Formations*

Quaternary

Qt – Travertine, sinter, tufa deposited from thermal spring water; also includes silicified tuff locally

Qlp – Lacustrine sand, silt, and clay of historic Pyramid Lake

Qp – Playa clay

Qle – Lacustrine, eolian, and fluvial clay and sand

Qd – Sand dunes

Qs – Sand sheets, piles and bars

Ql – Sand, silt, clay sheet deposits of Lake Lahontan

Qlg – Gravel, sand, silt of Lake Lahontan; local thick deposits, deltas, bars

Qa – Sand alluvium to boulder colluvium; coalescing alluv. fans

Qf – Alluvial fan, Holocene

Qfo – Alluvial fan, Pleistocene

Qls – Landslide and debris flow, Holocene

Qlso – Landslide and debris flow, Pleistocene

Qkp – Pediment clastics derived from underlying granitic and tuffaceous rocks; Humina Valley

QKa – Alluvial, eolian, and lacustrine sand and clay; Humina Valley

Qsha – Alluvial sheet derived from tuff and granitic rocks; Sage Hen Valley

Qshp – Pediment clastics derived from ~~[illegible]~~ underlying granitic, schistose and volcanic rocks; Sage Hen Valley

* no stratigraphic order in listing of formations

—cont.—

Tertiary

Fort Sage Mts	Tft	- Silicic tuff with minor andesite & basalt flows
Virginia Mts	Tvf	- Andesite & basalt, flows & flow breccia
	Tvsi	- Intermediate to silicic flows, domes, & pyroclastic rocks
Nevada Modoc	Tmf	- Andesite and basalt, flows + flow breccia
	Tmp	- Mafic to intermediate pyroclastic rocks
Terraced Hills	Tfft	- Mafic to intermediate flows and tuffs
Fox Range	Tfft	- Silicic to intermediate flows and tuffs
	Tfp	- Tuff, silicic, massive with minor flows
	Tfvu	- Flows and pyroclastics undiff.
	Tfvi	- Tuffs in lower part + flow above with local intrusions
San Emidio Desert	Tst	- Silicic crystal-vitric tuff, relatively uniform
Lake Range	Tlf	- Andesitic & basaltic flows, minor pyroclastics
	Tav	- Pyroclastics, flows, dikes, plugs, silicic to andesitic
	Tlp	- Pyroclastics with minor flows, mainly silicic to intermediate
Selenite Range	Tsb	- Basalt and mafic andesite flows
	Ts+s	- Silicic tuff and volcaniclastics
Nightingale Mts	Tnv	- Basaltic and andesitic flows + tuffs, lahars and volcaniclastics
Kumiva Valley	Tkb	- Flows, intermediate to mafic
	Tkr	- Rhyolite flows and tuffs
	Tkts	- Silicic tuff, relatively uniform, with clastics and volcaniclastics in lower part

-cont.-

Shawave Mts. Tga - Andesite flow

Tgt - Tuffs and lacustrine clays

Sage Hen Valley Tsht - Tuffs with minor breccias and volcanic sediments

Tshb - Andesitic and basaltic flows

Cretaceous?

Kg - Hornblende-biotite granodiorite, medium crystalline, with minor aplitic + pegmatitic masses (most typically Sierra Nevadan type)

Kag - Aplitic and gneissic granitic rocks; Fort Sage Mts.

Kd - Hornblende diorite; Fort Sage Mts.

Ksg - Quartz monzonite, aplitic + pegmatitic, strongly seriate; Shawave Mts

—cont.—

Mesozoic (Tr.-Juv.)?

Mgd – Granodiorite to diorite, locally migmatitic with intruded metavolcanic and metasedimentary rocks; Fox Range

Mfd – Dioritic to gabbroic (?), hornblendic, mostly massive; Fox Range

Mnd – Hornblende dioritic rocks with local gneissic pendants; Nightingale Mts

Mlgm – Granitic rocks and migmatite of intruded metavolcanics; Lake Range

Mlmt – Meta tuff + minor meta andesite flows; Lake Range

Mms – Metasedimentary rocks, quartzite, fine-grained schists, (Auld Lang Syne ?); Blue Wing Mts.

Mnms – Metasedimentary rocks, marbles and fine-grained schists (Nightingale ?); Nightingale Mts.

Msms – Metasedimentary rocks, marble, gypsum and minor metavolcanic rock

-cont.-

Pre-Cretaceous (Late Paleozoic ?, Tr.-Jur. ?)

pkmvs - Metavolcanics, mostly andesitic flows + minor tuff; Fort Sage Mts.

pkmv - Metavolcanics, massive flows + local flow breccias with small hornblende dioritic masses; Fox Range

pkfm - Metavolcanics, strongly layered sequence invaded by granitic rocks; Fox Range

pkms - Metasedimentary rocks, schist, phyllite, and slate; Lake Range

pkmc - Metasedimentary rocks, marble, and minor limestone, intensely deformed; Fox Range

Legend

Symbols:

Formation contact, depositional or intrusive

Fault certain, approx. location, concealed with bar on downthrown side of normal fau

Fault zone, relatively wide and diffuse zone of thrust faulting with teeth on hanging wall block

45 Strike and dip of depositional layering

60 Overturned strike and dip

Horizontal layering

Trends of locally continuous layering

75 Foliation, metamorphic

Foliation, vertical

Topographic contour of 1336 m (4380 ft.) elevation indicating highest stand of ancestral Lake Lahontan about 14 Ka (Xerox copy of original map does not show this darkened contour well)

Volcanic intrusives or conduits:

d Dike

p Pipe

dm Dome

VC Complex source including dikes, pipes, plugs, domes and internal and adjacent vent facies

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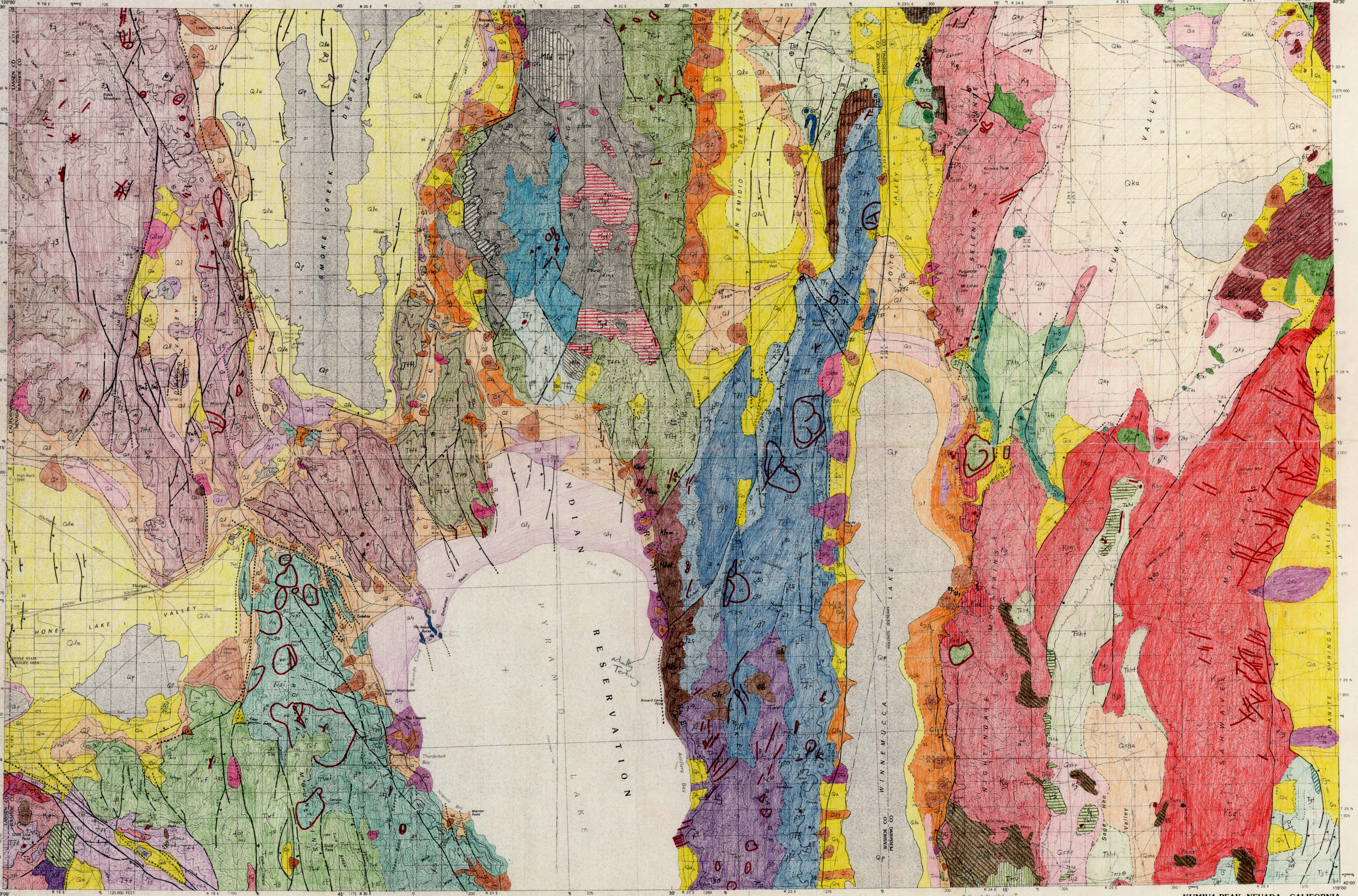
KUMIVA PEAK, NEVADA—CALIFORNIA

30X60 MINUTE SERIES (TOPOGRAPHIC)



KILOMETERS 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

MILES 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13

SCALE 1:100 000
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 50 METERS

1000 0 5000 10 000 15 000 20 000 METERS

5000 0 10 000 20 000 30 000 40 000 50 000 60 000 70 000 FEET

Tuff of Rattlesnake Canyon?

● INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1984

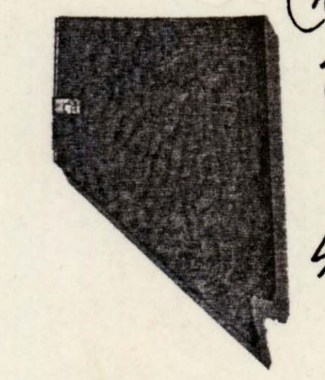
KUMIVA PEAK, NEVADA—CALIFORNIA
40119–A1–TM–100

1984

Kumiva Peak
NEVADA—CALIFORNIA

1:100 000-scale *metric*
topographic map

Geologic Map
by T.L.T. Grose
2-13-88
Submitted to NBMG
Attn: Larry Garside
2-13-88
TLTG



30 X 60 MINUTE QUADRANGLE SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names

GEOLOGICAL SURVEY

1984

Produced by the United States Geological Survey
in cooperation with the Nevada
Bureau of Mines and Geology

Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1964-1981. Planimetry revised from aerial photographs taken 1980 and other source data. Revised information not field checked. Map edited 1984

Projection and 10 000-meter grid, zone 11, Universal Transverse Mercator
25 000-foot grid ticks based on Nevada coordinate system, west zone. 1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 15 meters north and 86 meters east

There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 50 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

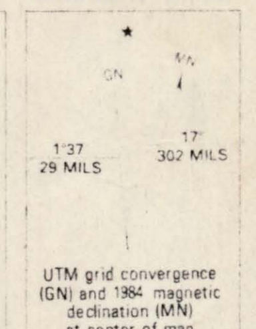
CONVERSION TABLE

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
8	26.2467
9	29.5276
10	32.8084

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

DECLINATION DIAGRAM



UTM grid convergence (GN) and 1984 magnetic declination (MN) at center of map
Diagram is approximate

ADJOINING MAPS

1	2	3
4		5
6	7	8

1 Eagle Lake
2 Gerlach
3 Eugene Mts.
4 Susanville
5 Lovelock
6 Portola
7 Reno
8 Carson Sink

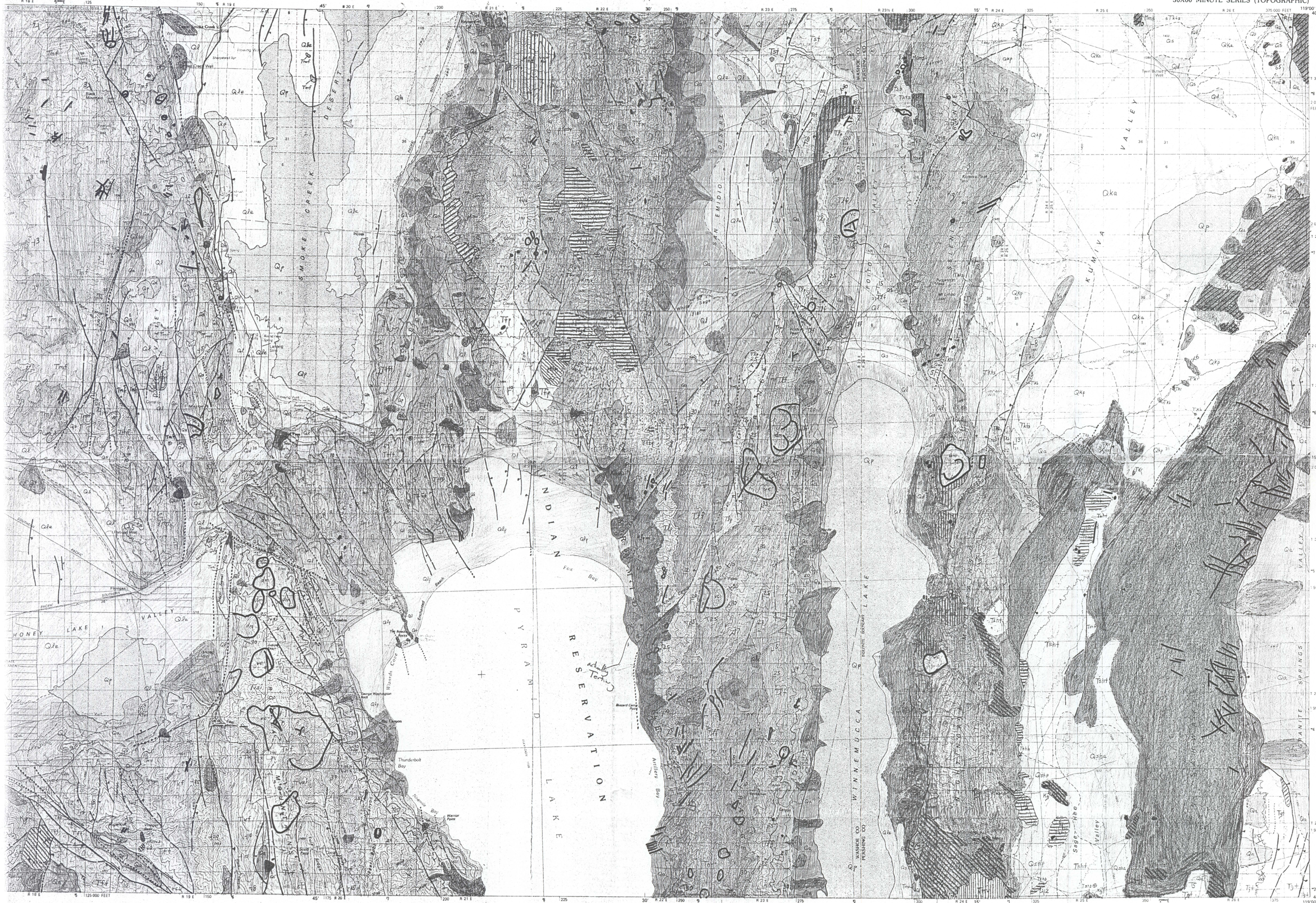
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 22092

Topographic Map Symbols

Primary highway, hard surface
Secondary highway, hard surface
Light duty road, principal street, hard or improved surface
Other road or street; trail
Route marker: Interstate; U. S.; State
Railroad: standard gage; narrow gage
Bridge; overpass; underpass
Tunnel: road; railroad
Built up area; locality; elevation 155
Airport; landing field; landing strip
National boundary
State boundary
County boundary
National or State reservation boundary
Land grant boundary
U. S. public lands survey: range, township; section
Range, township; section line: protracted
Power transmission line; pipeline
Dam; dam with lock
Cemetery, building
Windmill; water well; spring
Mine shaft; adit or cave; mine, quarry; gravel pit
Campground; picnic area; U. S. location monument
Ruins; cliff dwelling
Distorted surface: strip mine, lava; sand
Contours: index; intermediate; supplementary
Bathymetric contours: index; intermediate
Stream, lake: perennial; intermittent
Rapids, large and small; falls, large and small
Area to be submerged; marsh, swamp
Land subject to controlled inundation; woodland
Scrub; mangrove
Orchard; vineyard

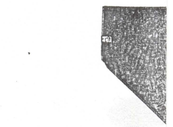
A pamphlet describing topographic maps is available on request

0160 0048



Kumiva
NEVADA—CAI

1:100 000-scale me
topographic map



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DECLINATION

1 37'
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UTM grid ov (GN) and 1 declinat at cente Diagram is ac

FOR SALE BY U. S. GEOLOGICAL SU
OR RESTON, VI

Topographic M

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