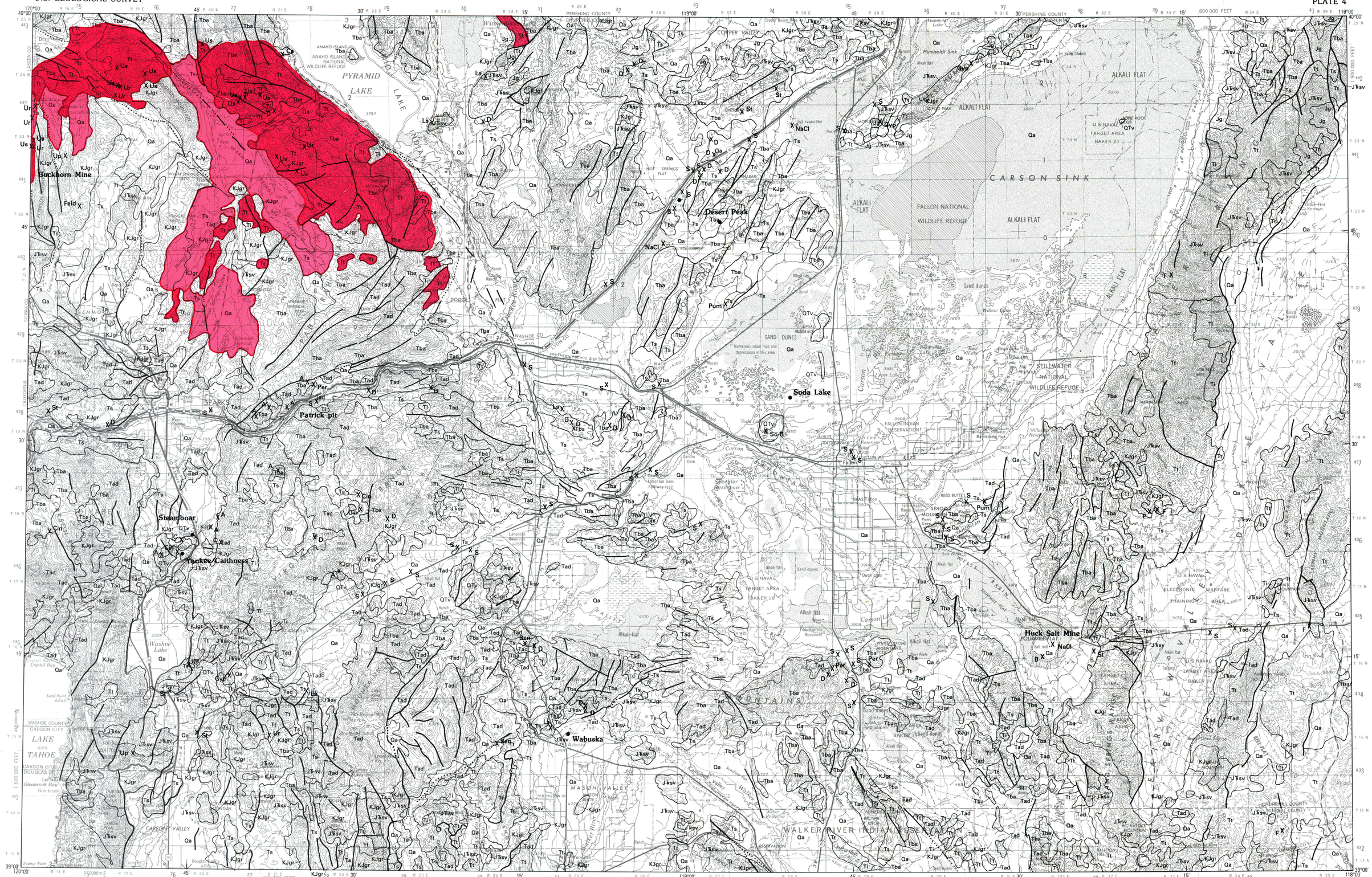
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

BULLETIN 2019
PLATE 4



Base from U.S. Geological Survey, 1957
(photorevised 1971)
Transverse Mercator projection

Geology modified from Greene and others (1991)

DESCRIPTION OF MAP UNITS

- **Qa** — **Alluvium (Quaternary)**
- **QTv** — **Volcanic rocks (Quaternary and Tertiary)**—Basalt and rhyolitic rocks
- **Ts** — **Sedimentary rocks (Tertiary)**
- **Tba** — **Basalt, andesite, and rhyolite (Tertiary)**—Mostly basalt and andesite, minor rhyolitic flows, domes, and shallow intrusive rocks. Bimodal basalt-rhyolite assemblage
- **Ti** — **Intrusive rocks (Tertiary)**—Includes granitic and fine-grained to porphyritic rocks
- **Tad** — **Andesite and dacite (Tertiary)**—Western andesite assemblage
- **Tt** — **Ash-flow tuff and minor andesitic to rhyolitic flows, domes, and shallow intrusive rocks (Tertiary)**—Interior andesite and rhyolite assemblage
- **Kjgr** — **Granitic rocks (Cretaceous and Jurassic)**
- **Jg** — **Gabbroic rocks (Jurassic)**
- **JTrsv** — **Metasedimentary and metavolcanic rocks (Jurassic and Triassic)**

Contact

Fault—Dotted where inferred

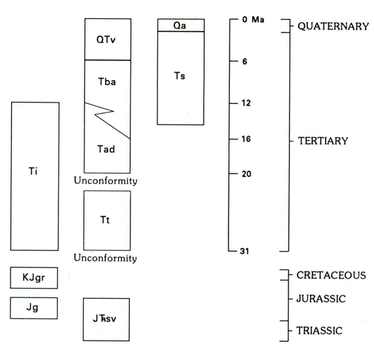
Area permissive and favorable for sandstone uranium deposits

Area permissive and favorable for volcanogenic uranium deposits

X — **Mines and prospects**—Symbol denotes type present

Ur	Volcanogenic uranium	F	Fluorspar
Us	Sandstone uranium	C	Clay
Up	Pegmatitic uranium	Ben	Bentonite
•	Geothermal energy	Gyp	Gypsum
S	Sand and gravel	B	Borate minerals
A	Lightweight aggregate	St	Building stones
Pum	Pumice	So	Soda
D	Diatomite	Cn	Cinder
NaCl	Salt (halite)	Feld	Feldspar
Per	Perlite	Ca	Calcium carbonate
Ls	Limestone		

CORRELATION OF MAP UNITS



FAVORABLE TRACTS FOR VOLCANOGENIC AND SANDSTONE URANIUM DEPOSITS, AND LOCATIONS OF NONMETALLIC MINERAL DEPOSITS AND GEOTHERMAL POWERPLANTS

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1993

*U.S. GOVERNMENT PRINTING OFFICE: 1993-0-785-489

John, D.A., Stewart, J.H., Kilburn, J.E., Silberling, N.J., and Rowan, L.C., 1993, Geology and Mineral Resources of the Reno 1° by 2° quadrangle, Nevada and California: U.S. Geological Survey Bulletin 2019.