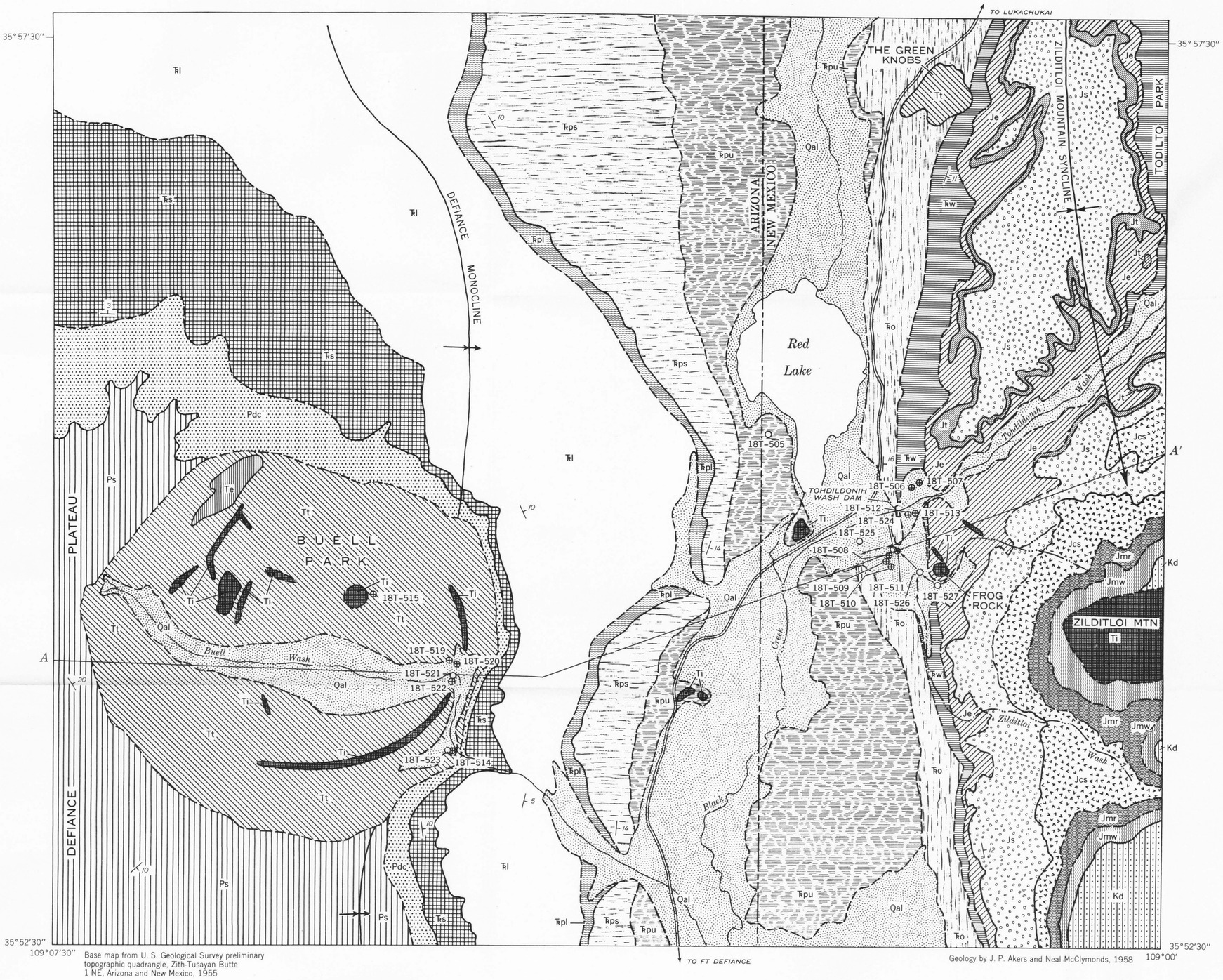
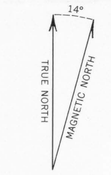


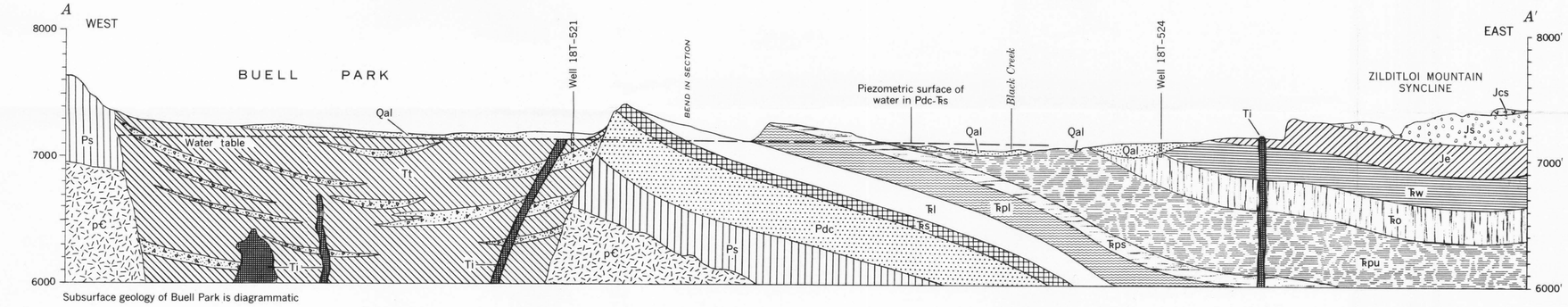
Base map from U. S. Geological Survey preliminary topographic quadrangle, Zith-Tusayan Butte 1 NE, Arizona and New Mexico, 1955

Geology by J. P. Akers and Neal McClymonds, 1958



APPROXIMATE MEAN DECLINATION, 1961

INDEX MAP SHOWING AREA MAPPED



Subsurface geology of Buell Park is diagrammatic

EXPLANATION

QUATERNARY

- Qal — Alluvium

TERTIARY (Contemporaneous in part)

- Tt — Intrusive volcanic rocks
- Te — Extrusive volcanic rocks
- Tt — Tuffaceous rock
- Cinders — *Shown in section only*

CRETACEOUS

- Kd — Dakota sandstone

JURASSIC

- Jmw, Jmr — Morrison formation
  Jmw, *Westwater Canyon member.*
  Jmr, *Recapture member*
- Jcs — Cow Springs sandstone
- Js — Summerville formation
- Jt — Todilto limestone
- Je — Entrada sandstone

TRIASSIC

- Trw — Wingate sandstone
- Trò, Trpu, Trps, Trpl, Tri, Trs — Chinle formation
  Trò, *Owl Rock member;* Trpu, *Petrified Forest member, upper part;* Trps, *Petrified Forest member, Sonsela sandstone bed;* Trpl, *Petrified Forest member, lower part;* Tri, *lower red member;* Trs, *Shinarump member*

PERMIAN

- Pdc — De Chelly sandstone
- Ps — Supai formation

PRECAMBRIAN

- pЄ — Precambrian rocks
  Shown in section only

Contact
Dashed where approximately located

Syncline, showing plunge

Monocline

5 — Strike and dip of beds

○ Production well

⊕ Test well (abandoned)

Approximate location of buried streambeds, now acting as channels for underflow

GEOLOGIC MAP AND SECTION OF THE RED LAKE AREA, ARIZONA AND NEW MEXICO

614172 O - 61 (In pocket)

SCALE 1:31 680

1 0 1 MILE

Datum is mean sea level