

**FIGURE 4.5.**

A portion of the geologic map of the Riegelsville, Pennsylvania and New Jersey quadrangle (Drake et al. 1967). This map reflects more detailed geologic fieldwork than what is shown in Figure 4.3, and is executed at a smaller scale (1:24,000). Since a USGS topographic quadrangle was used as a base, the relationship between geological formations/deposits with topography can be seen. Unfortunately, not all areas in Pennsylvania or other states have been mapped at this level. Refer to the key on page 63.



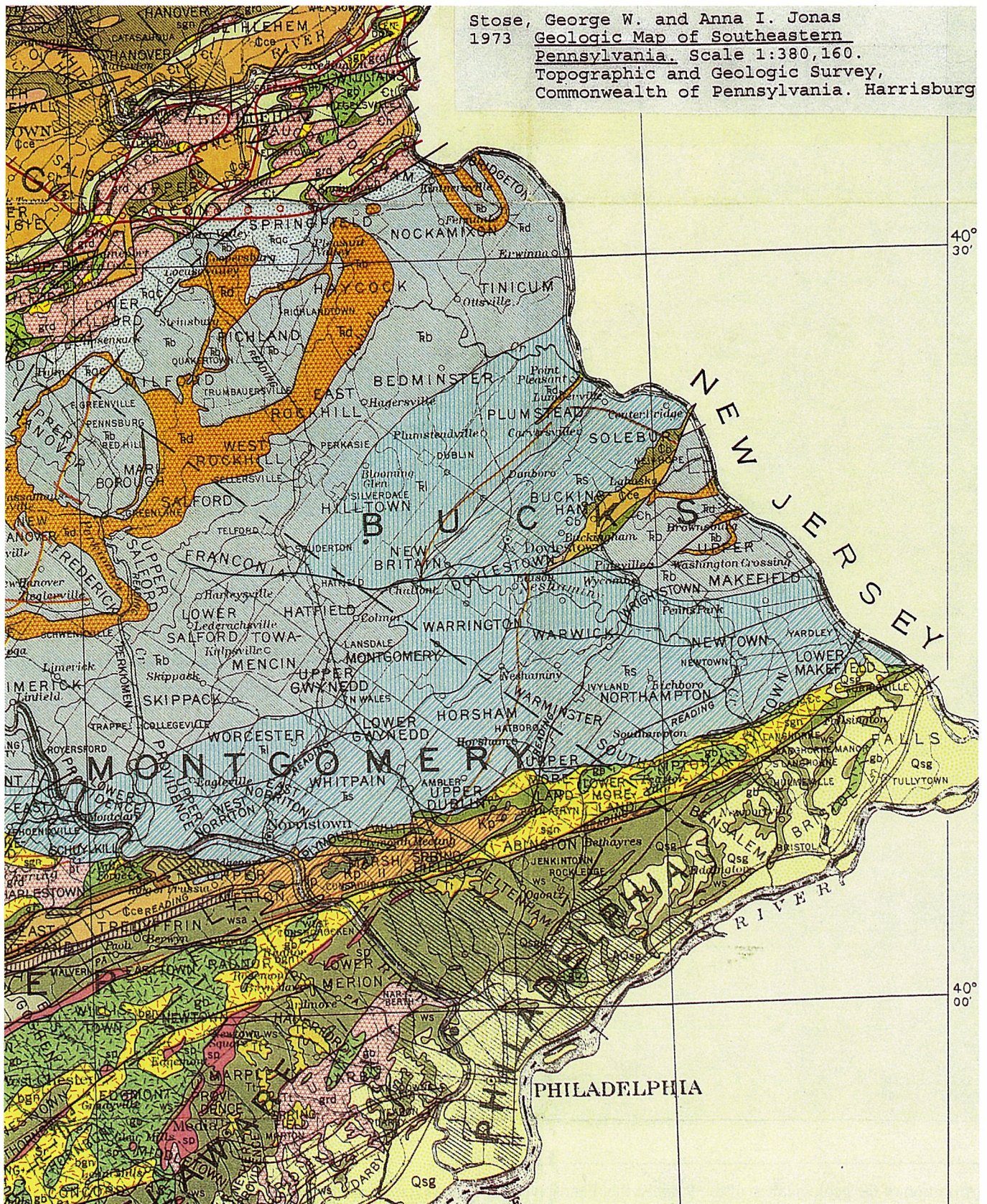


FIGURE 4.3.

A portion of a Geologic Map of Southeastern Pennsylvania (Stose and Jonas, 1973) and accompanying key. Scale 1:380,160.  
Colorplate 2



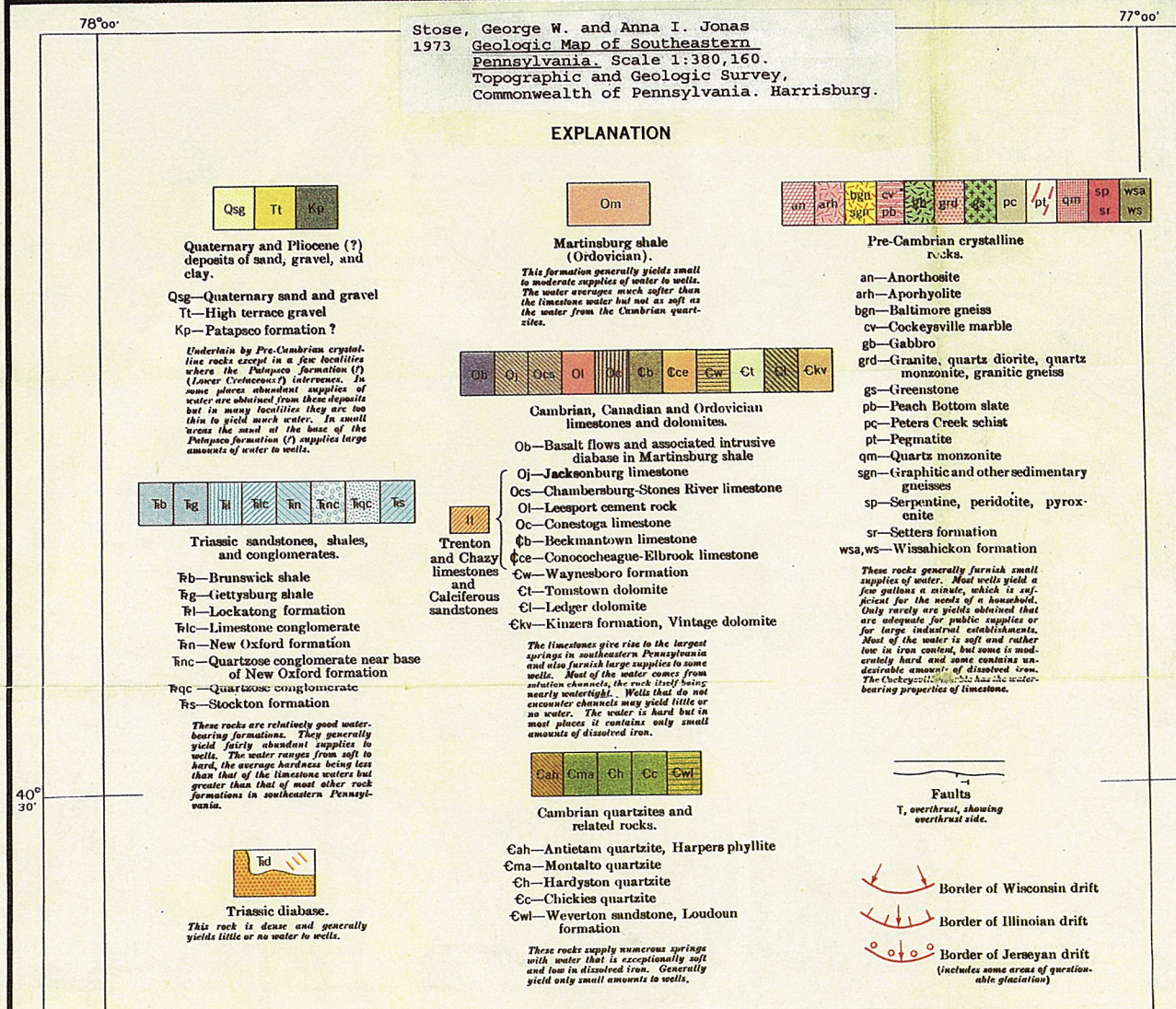
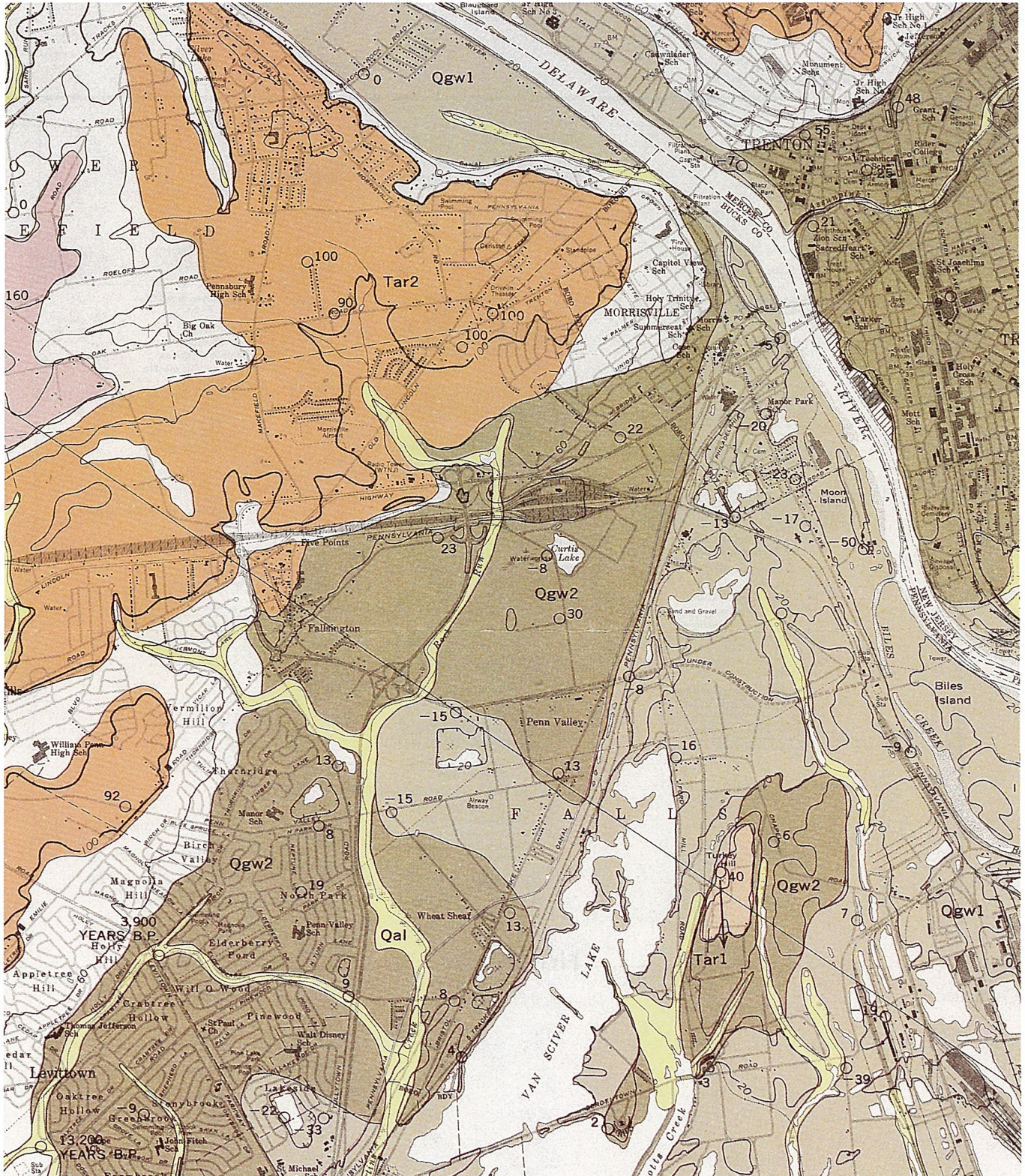


FIGURE 4.3.

Continued





**FIGURE 4.7.**

A portion of a Geologic Map of the Surficial Deposits in the Trenton Area, New Jersey and Pennsylvania and accompanying key. Scale 1:48,000 (Owens and Minard, 1975). This map segment overlaps the coverage provided by Figure 4.6. Since its focus is strictly surficial deposits, it provides detail not replicated by the mapping of Quaternary deposits shown on Figure 4.6. Refer to the key on pages 65-66.









Colorplate 4







## CONTROL DATA AND MONUMENTS

Aerial photograph roll and frame number\* 3-20





### Horizontal control


Third order or better, permanent mark	Neace 	Neace 
With third order or better elevation	BM  45.1	Pike  45.1
Checked spot elevation	 79.5	
Coincident with section corner	Cactus 	Cactus 
Unmonumented*		

### Vertical control

Third order or better, with tablet	BM  16.3	
Third order or better, recoverable mark	 120.0	
Bench mark at found section corner	BM  18.6	
Spot elevation	 5.3	






### Boundary monument

With tablet	BM  21.6	BM  71
Without tablet	 171.3	
With number and elevation	67  301.1	






U.S. mineral or location monument 

## CONTOURS








### Topographic

Intermediate	
Index	
Supplementary	
Depression	
Cut; fill	

### Bathymetric

Intermediate	
Index	
Primary	
Index Primary	
Supplementary	

## BOUNDARIES







National	
State or territorial	
County or equivalent	
Civil township or equivalent	
Incorporated city or equivalent	
Park, reservation, or monument	
Small park	

\*Provisional Edition maps only





Provisional Edition maps were established to expedite completion of the remaining large scale topographic quadrangles of the conterminous United States. They contain essentially the same level of information as the standard series maps. This series can be easily recognized by the title "Provisional Edition" in the lower right hand corner.

## LAND SURVEY SYSTEMS






### U.S. Public Land Survey System

Township or range line	
Location doubtful	
Section line	
Location doubtful	
Found section corner; found closing corner	
Witness corner; meander corner	







### Other land surveys

Township or range line	
Section line	
Land grant or mining claim; monument	
Fence line	





## SURFACE FEATURES

Levee	
Sand or mud area, dunes, or shifting sand	
Intricate surface area	
Gravel beach or glacial moraine	
Tailings pond	



## MINES AND CAVES

Quarry or open pit mine	
Gravel, sand, clay, or borrow pit	
Mine tunnel or cave entrance	
Prospect; mine shaft	
Mine dump	
Tailings	

## VEGETATION

Woods	
Scrub	
Orchard	
Vineyard	
Mangrove	

## GLACIERS AND PERMANENT SNOWFIELDS

Contours and limits	
Form lines	

## MARINE SHORELINE





Topographic maps	
Approximate mean high water	
Indefinite or unsurveyed	
Topographic-bathymetric maps	
Mean high water	
Apparent (edge of vegetation)	

FIGURE 6.1 TOPOGRAPHIC MAP SYMBOLS.



## COASTAL FEATURES

Foreshore flat	
Rock or coral reef	
Rock bare or awash	
Group of rocks bare or awash	
Exposed wreck	
Depth curve; sounding	
Breakwater, pier, jetty, or wharf	
Seawall	

## BATHYMETRIC FEATURES

Area exposed at mean low tide; sounding datum	
Channel	
Offshore oil or gas; well; platform	
Sunken rock	

## RIVERS, LAKES, AND CANALS

Intermittent stream	
Intermittent river	
Disappearing stream	
Perennial stream	
Perennial river	
Small falls; small rapids	
Large falls; large rapids	
Masonry dam	
Dam with lock	
Dam carrying road	
Perennial lake; Intermittent lake or pond	
Dry lake	
Narrow wash	
Wide wash	
Canal, flume, or aqueduct with lock	
Elevated aqueduct, flume, or conduit	
Aqueduct tunnel	
Well or spring; spring or seep	
<b>SUBMERGED AREAS AND BOGS</b>	
Marsh or swamp	
Submerged marsh or swamp	
Wooded marsh or swamp	
Submerged wooded marsh or swamp	
Rice field	
Land subject to inundation	

## BUILDINGS AND RELATED FEATURES

Building	
School; church	
Built-up Area	
Racetrack	
Airport	
Landing strip	
Well (other than water); windmill	
Tanks	
Covered reservoir	
Gaging station	
Landmark object (feature as labeled)	
Campground; picnic area	
Cemetery: small; large	

## ROADS AND RELATED FEATURES

Roads on Provisional edition maps are not classified as primary, secondary, or light duty. They are all symbolized as light duty roads.

Primary highway	
Secondary highway	
Light duty road	
Unimproved road	
Trail	
Dual highway	
Dual highway with median strip	
Road under construction	
Underpass; overpass	
Bridge	
Drawbridge	
Tunnel	

## RAILROADS AND RELATED FEATURES

Standard gauge single track; station	
Standard gauge multiple track	
Abandoned	
Under construction	
Narrow gauge single track	
Narrow gauge multiple track	
Railroad in street	
Juxtaposition	
Roundhouse and turntable	

## TRANSMISSION LINES AND PIPELINES

Power transmission line: pole; tower	
Telephone line	
Aboveground oil or gas pipeline	
Underground oil or gas pipeline	

FIGURE 6.1 TOPOGRAPHIC MAP SYMBOLS.

Continued.

Colorplate 6