

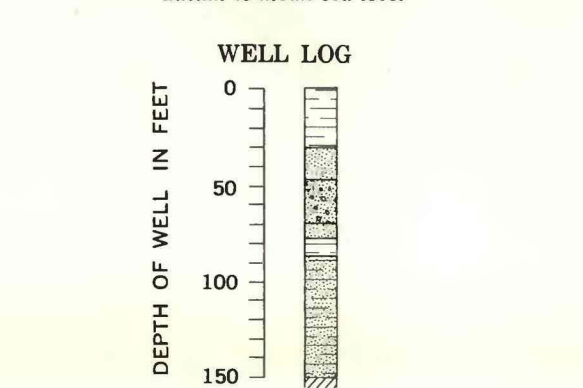
- EXPLANATION**
Note: well symbols may be combined on map
- Well, drilled
 - Well, driven
 - Well, dug
 - Well, water-level observation
 - Well, chemical analysis available
 - Well, log available
 - Well, chemical analysis and log available
 - Spring
 - Test boring or sounding
(Sounding in river may be to boulders, not bedrock)
 - Geologic section available

- TYPE OF PUMP** **YIELD**
- H Hand e Estimated
 - P Power r Reported
 - N None m Measured

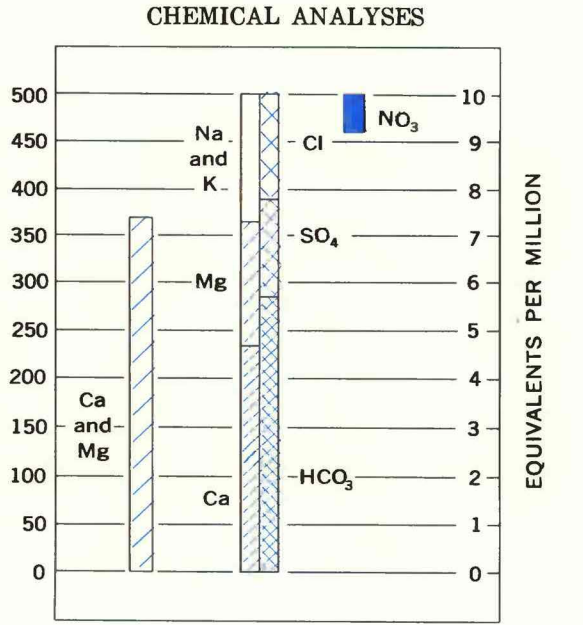
- Aquifer, if bedrock of Silurian (S) or Ordovician (O) age
- Depth to water, in feet below land surface
- Month and year of water-level measurement
- Key number for specific capacity, transmissibility, and permeability given in table below
- Yield of well, in gallons per minute
- When yield is unknown, type of pump is given
- Depth of well, in feet below land surface
- Bedrock elevation, in feet above mean sea level

Key number	Specific capacity of well (gpm/ft drawdown)	Duration of draw-down (hrs)	Transmissibility (gpd/ft)	Permeability (gpd/sq ft)	Remarks
(1)	1.7	3.5			At 58-ft depth
(1)	14	2			At 88-ft depth
(2)	13	2	18,000	300	At 250 gpm
(3)	146	2			At 429 gpm
(4)	154				
(5)	34	8			
(6)	35	2.75			
(7)	31	96			
(8)	59				At 400 gpm
(9)	21				At 600 gpm
(10)	27	13			Dug well
(11)	8	2			
(11)	164	5			

- MAP SYMBOLS**
- Qao Quaternary alluvium of Ohio Valley (Includes deposits of fill of Illinoian(?) age in places)
 - Qat Quaternary alluvium of tributary valley
 - SO Bedrock of Silurian and Ordovician age
 - Geologic contact (Dashed where approximately located)
 - Contour on bedrock (Dashed where approximately located; contour interval 10 feet; datum is mean sea level)

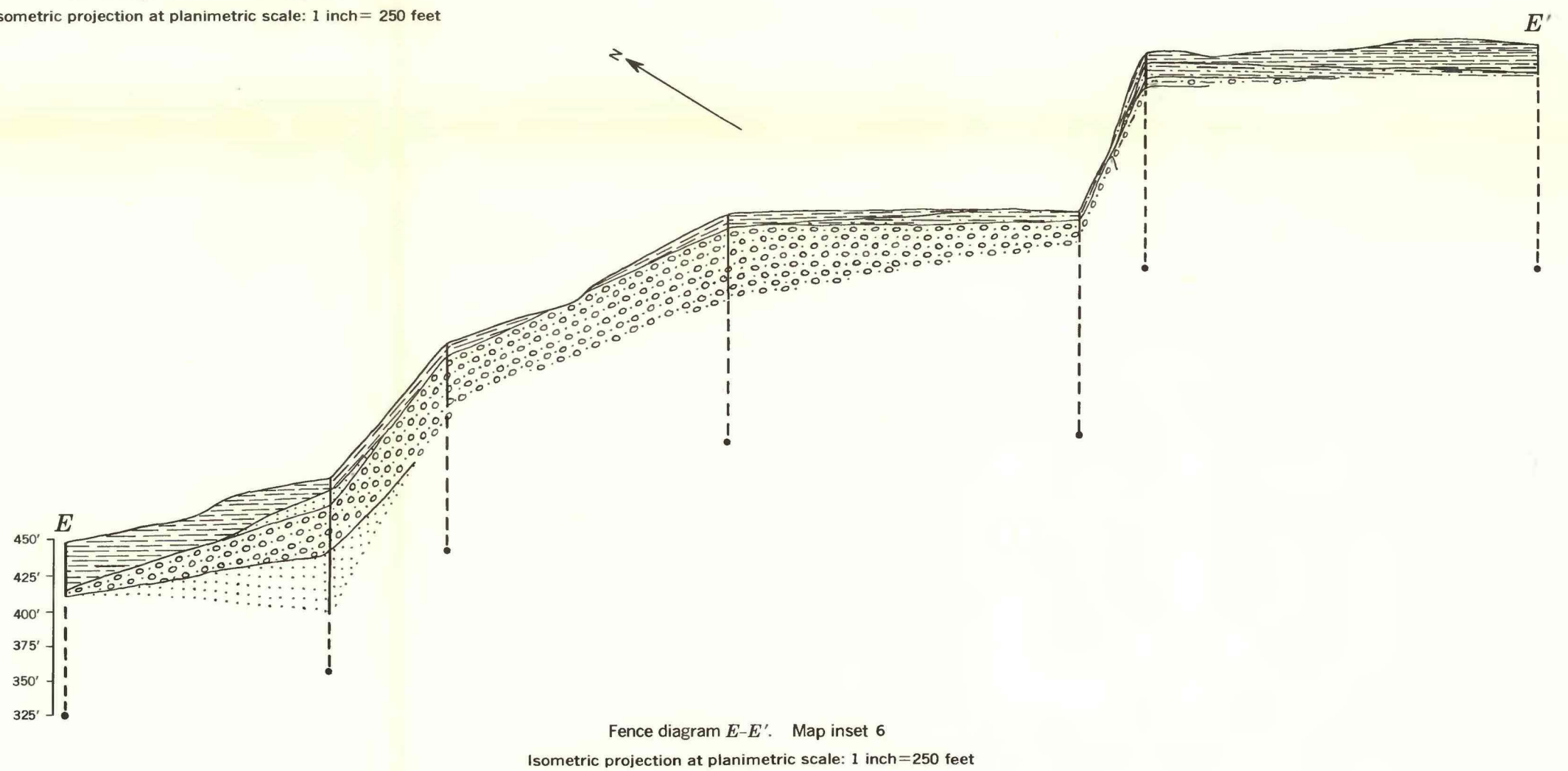
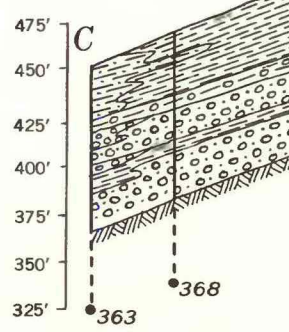
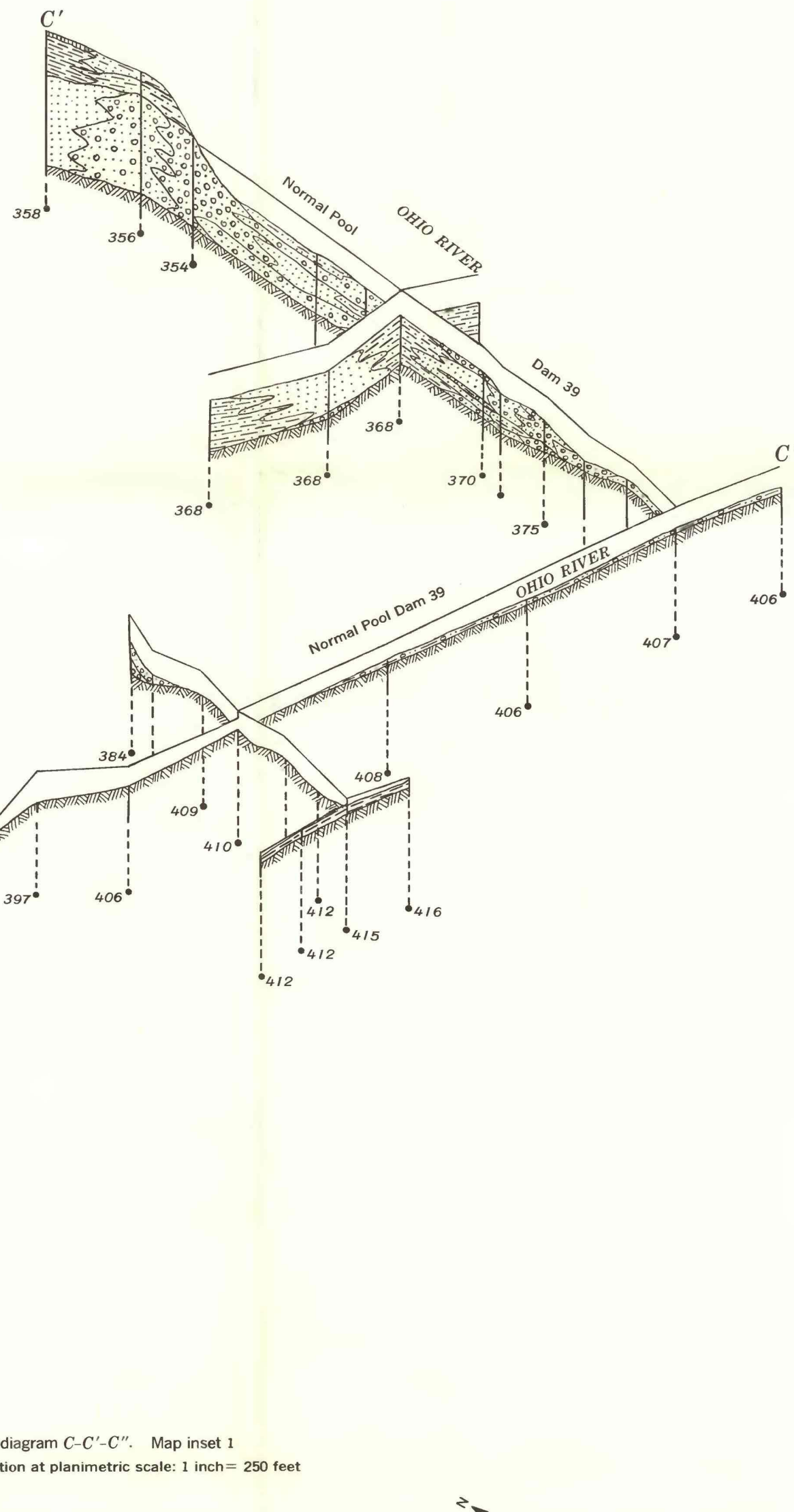
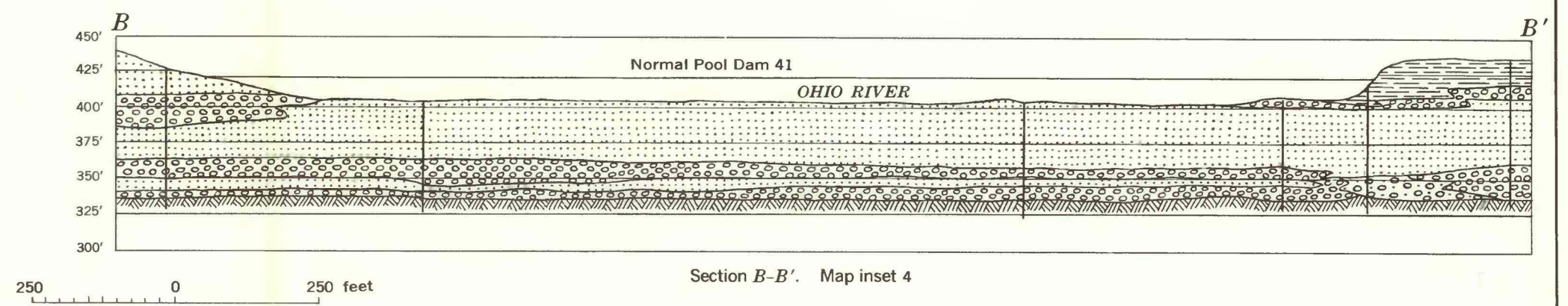
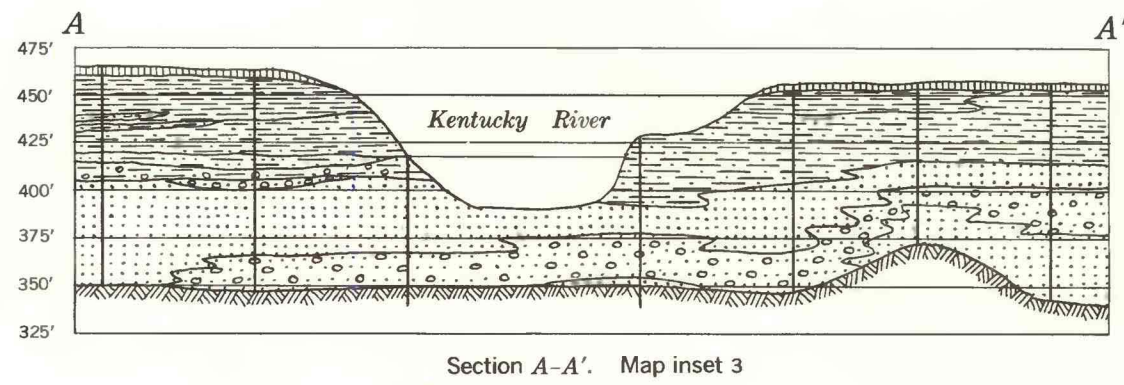


- LOG SYMBOLS**
- Soil or fill
 - Sand
 - Clay or silt
 - Gravel
 - Bedrock



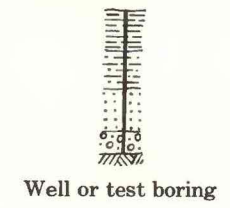
Hardness is read only to top of magnesium or sum of calcium and magnesium. When amount of nitrate is less than 10 parts per million (0.161 equivalents) it is combined with chloride. Dashed lines on bar graphs indicate that chemical data were estimated.

GEOLOGY AND HYDROLOGY OF ALLUVIAL DEPOSITS ALONG THE OHIO RIVER BETWEEN ETHRIDGE AND THE TWELVEMILE ISLAND, KENTUCKY



EXPLANATION

- Soil or fill
- Clay or silt
- Sand
- Gravel
- Bedrock



Dot represents the projected position of well or test boring on an imaginary datum plane. Number shows altitude of bedrock surface, in feet above mean sea level.

Approximate boundary between lithologic units generally gradational.

SECTIONS AND FENCE DIAGRAMS OF ALLUVIAL DEPOSITS ALONG THE OHIO RIVER
BETWEEN ETHRIDGE AND THE TWELVEMILE ISLAND, KENTUCKY

By
William E. Price, Jr.

1964

HA-97 ✓

Job # 63261 same size (cut + peel)

Ethridge-Twelve I Ky

	70 % T	Perm Red	Oriental Blue
No color			
Qa			
9/18/63 207 Qat	Z-10 Z-205		
"50" on printed map Bedrock contours and altitudes		—	Z-49
Ca and Mg			SI-9 ///
No color Na and K			
Mg			SI-8 ///
Ca			SI-7 ///
Cl			SI-9 #
SO4			SI-8 #
HCO3			SI-7 #
NO3			solid

See note on # 63258

2/25/63
LPF