

# Ground-Water Resources of UNION COUNTY

by  
James J. Schmidt

Ohio Department of Natural Resources  
DIVISION OF WATER  
Fourteen Square  
Columbus, Ohio 43224



Index Map

Depth (ft.) - Water-bearing Formation - Yield (gpm)

Depth to Bedrock (ft.)

- LS Limestone
- S Sand
- G Gravel
- Domestic Well
- ▲ Test Well
- ⊙ Industrial Well - Municipal

Contour Interval: 10 feet

AREAS IN WHICH YIELDS OF 100 TO 500, OR MORE,  
GALLONS PER MINUTE MAY BE DEVELOPED



Principal aquifer is the limestone bedrock. Yields in excess of 1000 gallons per minute have been developed at depths ranging from 190 to 270 feet. Farm and domestic supplies of 10 to 15 gallons per minute are usually encountered at depths of less than 125 feet.



Thin lenses of sand and gravel interbedded in thick layers of clay partially fill the buried valley. Yields of 5 to 10 gallons per minute may be developed. However, wells as much as 255 feet deep into the underlying limestone are noted.

— 950 —

Contour on bedrock surface  
Altitude in feet above mean sea level

Bedrock contour interval 50 feet

— 850 —

Contour near base of principal cavitated zone.  
(Estimated altitude to drill for large production wells)



WELL #	A	B	C	D	E	F	G	H	I	J
DEPTH	190'	175'	260'	270'	220'	235'	270'	235'	140'	210'
CRITICAL PUMPING LEVEL	170'	90'	190'	220'	110'	80'	180'	110'		
IRON	.88	.84	1.10	.96	2.00	1.00	.14	.86	14	21
DISSOLVED SOLIDS	882	928	907	886	728	442	488	552	1880	2490
HARDNESS as CaCO <sub>3</sub>	660	720	710	700	590	360	440	430	1500	1840
SULFATES	470	430	440	400	320	83	110	140	1100	1540

Chemical Constituents as mg/l



Scale in miles

