

Jim Pond Quadrangle, Maine

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Funding for the preparation of this map was provided in part by the
Maine Department of Environmental Protection.



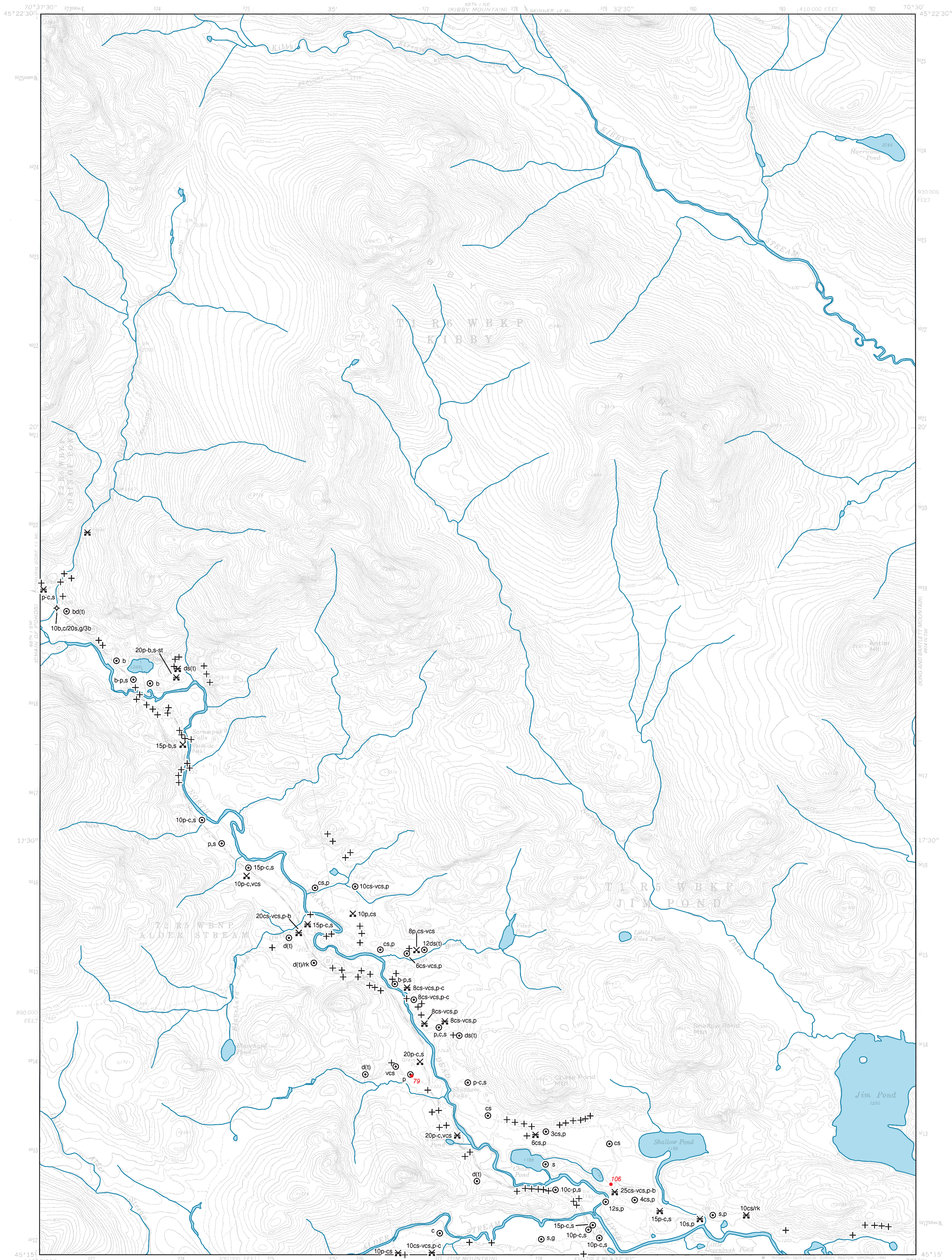
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Open-File No. 03-77

2003

Surficial Materials



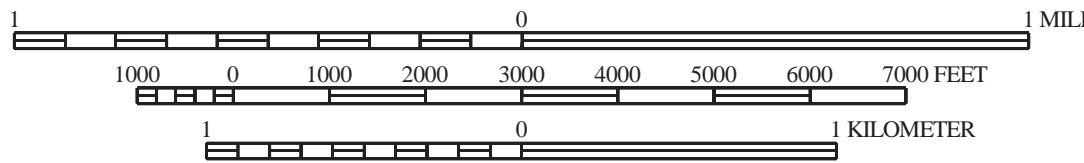
SOURCES OF INFORMATION

Materials data collected by the Maine Geological Survey Significant Sand and Gravel aquifer mapping program during the 2002 field season.



Quadrangle Location

SCALE 1 : 24,000



CONTOUR INTERVAL 20 FEET



Topographic base from U.S. Geological Survey Jim Pond quadrangle, scale 1:24,000 using standard U.S. Geological Survey topographic map symbols.

The use of industry, firm, or local government names on this map is for location purposes only and does not implicate responsibility for any present or potential effects on the natural resources.

This map shows the textures of surficial sediments in the quadrangle, independent of interpretations regarding their origin. For example, poorly sorted sediments deposited directly from glacial ice are shown here as "diamictic," although they may be genetically classified as "till."

The symbols listed below indicate materials observed in borrow pits and other surface exposures, as well as subsurface data from various sources. Where more than one textural class is present, materials are separated by commas and listed in decreasing order of abundance (e.g. s, st, cy). Individual materials may occur in distinct layers, or they may be mixed. Hyphens show the ranges of particle sizes present where their relative abundances are uncertain (e.g. st-c). "Σ" indicates a significant stratigraphic sequence of interbedded materials. Some borrow pits and other localities may be designated by numbers that refer to descriptions in the quadrangle text. Not all symbols will necessarily be found on the map.

GRAVEL **g** Undifferentiated gravel, used as a general term. Can be subdivided by size as follows:

b	Boulder gravel	>256 mm (10")
c	Cobble gravel	64-256 mm (2.5-10")
p	Pebble gravel	2-64 mm (0.1-2.5")

MIXED UNITS **gs** Gravelly sand (this is a special case for sand with lesser amounts of intermixed gravel, i.e. pebbly sand, cobbly sand, or boulder sand)

sg Sand and gravel (used only to describe slumped face or other site where relative abundances of sand vs. gravel are unknown).

SAND **s** Undifferentiated sand, used as a general term. Can be subdivided by size as follows:

vcs	Very coarse sand	(1-2 mm)
cs	Coarse sand	(0.5-1 mm)
ms	Medium sand	(0.25-0.5 mm)
fs	Fine sand	(0.125-0.25 mm)
vfs	Very fine sand	(0.0625-0.125 mm)

SILT **st** Silt (0.002-0.0625 mm)

CLAY **cy** Clay (<0.002 mm)

DIAMICTIC

d Undifferentiated diamict (poorly-sorted sediment in which particle sizes may range from clay to boulders). Used as a general term or subdivided as follows:

dg Gravelly-matrix diamict
ds Sandy-matrix diamict
dt Silty-matrix diamict
dy Clayey-matrix diamict

Note: Diamictics of glacial origin may be classified as one of the following varieties of till (shown on the map in parentheses):

t Till, undifferentiated. Usually of late Wisconsinan age (deposited by the last glacial ice sheet).

ta Ablation till. Deposited during retreat of the late Wisconsinan ice sheet. Typically sandy, stony, and not very compact.

tl Lodgement till. Inferred to have been deposited at the base of the late Wisconsinan ice sheet. Usually very compact.

tf Flow till. Deposited by slumping adjacent to glacial ice.

T Variably weathered till (usually a lodgment facies) of inferred pre-late Wisconsinan age.

ORGANIC MATERIALS

og Organic-rich sediment (can be any organic material, including forest litter, wood, shells, etc.)

pt Peat (reserved for actual fibrous peat)

OTHER MATERIALS

af Artificial fill (e.g. road fills, building sites, dumps)

bd Scattered boulders; interpreted as till where followed by (t)

rk Bedrock (observed in pit floor, boring, or natural exposure)

rs Rottenstone, disintegrated or weathered bedrock, saprolite.

u Unknown (material unidentified)

R Refusals (in test boring or well)

(f) Fossiliferous (used to indicate fossiliferous units within a sequence).

8b-b Materials data from shovel hole, hand-auger hole, natural exposure, or excavation (other than borrow pit).

56 Depth to bedrock from well (Σ is used to indicate minimum depth to bedrock), in feet below land surface

• Bedrock well

• Drilled overburden well

• Dug well

• Driven point

• Observation well with materials data

• Test boring with materials data

• Borrow pit, recently active at time of mapping, with materials data.

• Borrow pit, evidently abandoned or in long disuse at time of mapping, with materials data.

• Quarry

• Location of site for which a data sheet is on file at the Maine Geological Survey.

• Depth to bedrock from seismic line, in feet below land surface

• Bedrock outcrop

OTHER SOURCES OF INFORMATION

- Foley, M. E. (compiler), 2003. Significant sand and gravel aquifers in the Jim Pond quadrangle, Maine: Maine Geological Survey, Open-File Map 03-76.
- Thompson, W. B., and Borns, H. W., Jr., 1985. Surficial geologic map of Maine: Maine Geological Survey, scale 1:500,000.
- Caldwell, D. W., 1974. Surficial materials of the wildlands of northwestern Maine: Maine Geological Survey, Open-File Report 74-13, 32 p.