

GEOLOGIC MAP OF BUCKS COUNTY PENNSYLVANIA

BY
 B. WILLARD, D. B. McLAUGHLIN, E. H. WATSON AND OTHERS

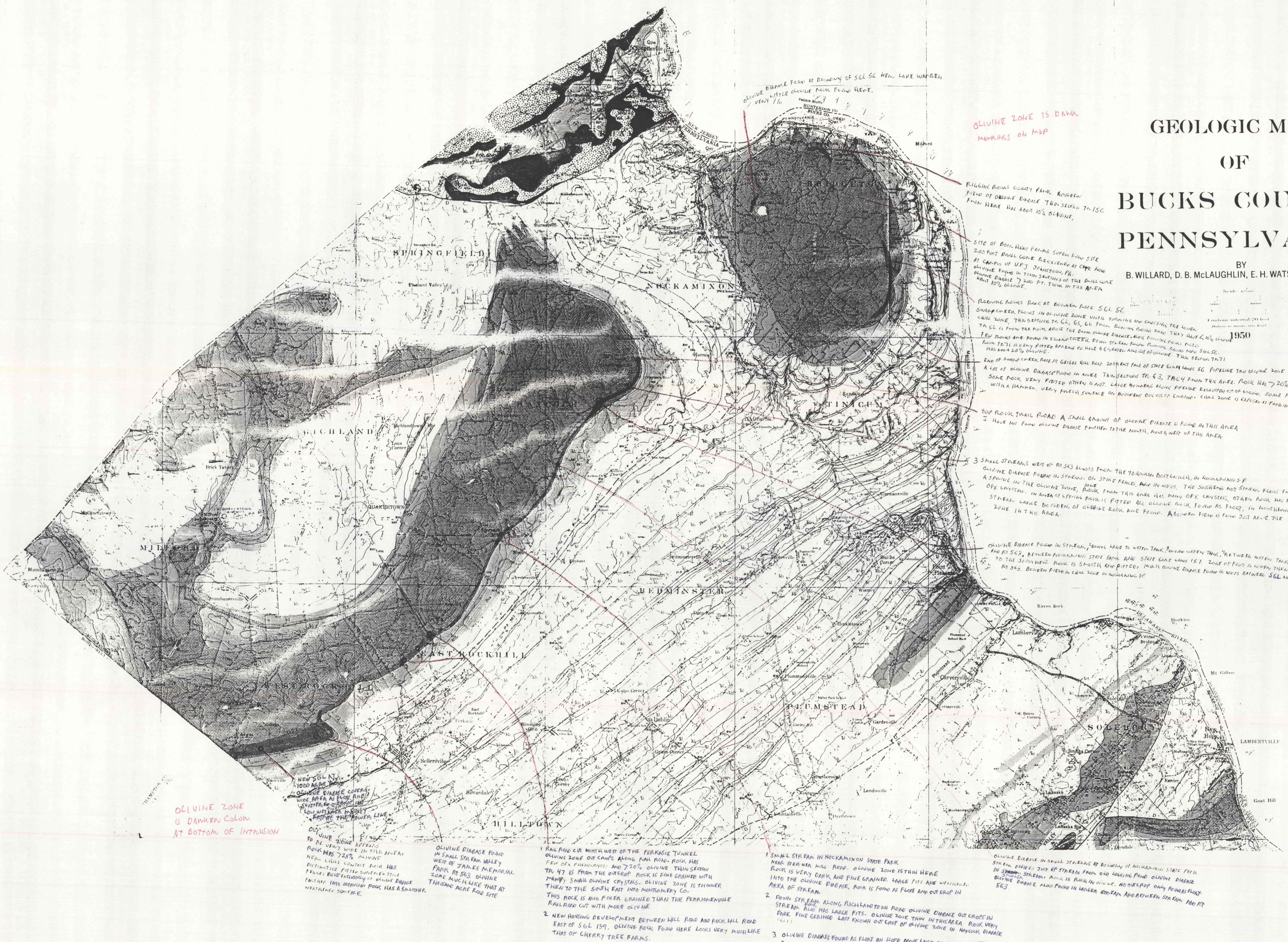
MODIFIED BY ROBERT
 R. KULP, 1997-1998

1950

STRUCTURE SYMBOLS	
	Fault
	Fault shown approximately located U. upthrown side; D. downthrown side
	Unconformity
	Thrust fault
	Strike and dip of bed
	Horizontal bed
	Strike and dip of foliation
	Strike of vertical foliation
	Direction and plunge of lineation and fold axes
	Fossil locality

ECONOMIC FEATURES	
	Sand and/or gravel pit
	Clay pit
	Mine or quarry
	Prospect

EXPLANATION	
	QUATERNARY Quaternary Unconsolidated sand, gravel and clay deposits to river terraces and flood plains
	PRE-WISCONSINIAN PLEISTOCENE Unconsolidated sand and gravel deposits to river terraces
	IGNEOUS ROCKS Igneous dikes and dikes intruding Triassic and other sedimentary rocks
	BRUNSWICK LIMESTONE Brunswick limestone Bedded limestone containing upward into limestone, shale and quartzite, etc.; fossiliferous along the horizontal margin. Altered to black, hornfels adjacent to diabase intrusions
	LOCKINGTON LIMESTONE Lockington limestone Gray bedded argillite, grades lateral to west. Brunswick. Altered to black hornfels adjacent to diabase intrusions
	STUCKEY LIMESTONE Stuckey limestone Red gray and brown shales and argillites, with local argillite conglomerates
	COCLEITE PHYLLITE Cocleite phyllite Gray to brown and various colors, highly altered, bedded shales
	MASONVILLE LIMESTONE Masonville limestone Massive bedded, high magnesian, non-fossiliferous
	CONOCOCHEAQUE LIMESTONE Conococheague (Limestone) limestone Massive bedded, high magnesian, crystalline and often abundant
	EBENSBURG LIMESTONE Ebensburg limestone Massive to laminated, high magnesian, non-fossiliferous
	CAMERON LIMESTONE Cameron limestone Generally high magnesian, well crystalline in lower beds, in shales (Conococheague (Allentown) and Tomstown (Lambertville) beds) in upper beds along Tomstown low bed
	HERSHEY AND CHALKO QUARTZITE Hershey and Chalko quartzite Hershey quartzite ... small quartzite. Quartzite, sandstone, argillite, quartzite and conglomerate. Heavy conglomerate members at base in south
	GRANITE GNEISS Granite gneiss Granitized gneiss in Hershey schist approximates to granodiorite in composition and grading into the schist
	ALTERED ULTRABASIC ROCK Altered ultrabasic rock Nepentite, talc schist and associated alteration products
	HORNFELS SCHIST Hornfels schist Altered igneous rocks associated with the Woodbury schist, locally quartzitic
	WOODBURY SCHIST Woodbury schist Hornfels schist and quartzite



OLIVINE ZONE IS DARK MARKING ON MAP

RILLING BOUNDS COUNTY PARK. ROUSEV FIELD OF OLIVINE DIABASE THIN SECTION TR-15G FROM HERE HAS ABOUT 10% OLIVINE.

SITE OF BRICK HERE FORMS SOFTEN FINE SITE 200 FOOT DRILL CORE RECOVERED AT CAMP OF U.S. JOINT ARMY. OLIVINE FOUND IN THIN SECTIONS OF THE DRILL CORE ABOUT 10% OLIVINE.

ROBBING ROCKS ROCK AT BOWEN ROAD SGL 5C. SANDY CREEK FLOWS IN OLIVINE ZONE VISIT TOWNSHIP AND CHECK THE OLIVINE ZONE. TRANSECTIONS TR 63, 65, 66 FROM ROBBING ROCKS ROAD THEY HAVE 20% OLIVINE. FEW PITS ARE FOUND IN SANDY CREEK. DOWN STREAM FROM FLOWS PITS ARE FOUND. SANDY CREEK PITS APPEAR TO HAVE A CONCENTRATION OF OLIVINE. THIS SECTION TR 71 HAS ABOUT 20% OLIVINE.

END OF SANDY CREEK ROAD AT GEESE HILL ROAD. SOUTH END OF SANDY CREEK. PIPELINE TWO OLIVINE ZONE. A LOT OF OLIVINE DIABASE FOUND IN AREA. TRANSECTIONS TR 63, TR 64 FROM THIS AREA. ROCK HAS 70% OLIVINE. SOME PITS VERY PITER OTHER IS NOT. LARGE BERRIES ALONG FLOWS. EXCEPTED OF KNOW. SOME PITS VARIOUS WITH A HAZARD. VERY FRESH SURFACE ON ROBBING ROCKS. OLIVINE ZONE IS RAISED AT PARKING AREA.

TOP ROCK TRAIL ROAD. A SMALL QUANTITY OF OLIVINE DIABASE FOUND IN THIS AREA. I HAVE NOT FOUND OLIVINE DIABASE FURTHER NORTH, NORTHWEST OF THIS AREA.

3 SMALL STREAMS WEST OF BR 533 ALONG FROM THE TOHICKON BOULEVARD. IN AGGREGATION OF OLIVINE DIABASE FOUND IN STREAMS. OLIVINE DIABASE FOUND IN WOODS. THE SOLE OF THE STREAMS FROM FROM A SPINE IN THE OLIVINE ZONE. SOME OLIVINE DIABASE FOUND IN WOODS. OTHER AREA HAS FEW OLIVINE DIABASE. IN AREA OF STREAM PITS ARE FOUND. ALL OLIVINE DIABASE FOUND AS FLOWS. IN NORTHWEST PART STREAM. LARGE BERRIES OF OLIVINE ROCK AND FOUND. A BERRIES FOUND JUST ABOVE THE OLIVINE ZONE IN THIS AREA.

OLIVINE DIABASE FOUND IN STREAM. FLOWING INTO WATER. TRAIL. BETWEEN WATER TRAIL AND BR 563. BETWEEN NOKKAMIXON STATE PARK AND STATE GAME LAND 157. ZONE OF FLOWS IN WOODS. THEN TO THE SOUTH. ROCK IS SMOOTH AND PITER. SMALL OLIVINE DIABASE FOUND IN WOODS. OLIVINE DIABASE FOUND IN WOODS. OLIVINE DIABASE FOUND IN WOODS. OLIVINE DIABASE FOUND IN WOODS. OLIVINE DIABASE FOUND IN WOODS.

OLIVINE ZONE IS DARKEN COLON AT BOTTOM OF INTRUSION

OLIVINE ZONE IS DARKEN COLON AT BOTTOM OF INTRUSION. OLIVINE ZONE IS DARKEN COLON AT BOTTOM OF INTRUSION. OLIVINE ZONE IS DARKEN COLON AT BOTTOM OF INTRUSION.

OLIVINE DIABASE FOUND IN SMALL STREAM. OLIVINE ZONE IS DARKEN COLON AT BOTTOM OF INTRUSION. OLIVINE ZONE IS DARKEN COLON AT BOTTOM OF INTRUSION.

1. RAIL ROAD CUT NORTH WEST OF THE PERRINVILLE OLIVINE ZONE CUT CROSS ALONG RAIL ROAD. ROCK HAS FEW OF OLIVINE DIABASE AND 70% OLIVINE. TRANSECTIONS TR 47 IS FROM THE OUTCROP. ROCK IS FINE GRAINED WITH MANY SMALL OLIVINE CRYSTALS. OLIVINE ZONE IS THINNER THAN TO THE SOUTH EAST INTO MONTGOMERY CO. THIS ROCK IS ALSO FINE GRAINED THAN THE PERRINVILLE RAILROAD CUT WITH MORE OLIVINE.

2. NEW HOUSING DEVELOPMENT BETWEEN HILL ROAD AND ROCK HILL ROAD EAST OF SGL 139. OLIVINE ROCK FOUND HERE LOOKS VERY MUCH LIKE THAT OF CHERRY TREE FARMS.

3. OLIVINE DIABASE ALSO COLLECTED IN SGL 139 AND ALONG HILL ROAD AT SGL 139.

1. SMALL STREAM IN NOKKAMIXON STATE PARK NEAR STRAHER MILL ROAD. OLIVINE ZONE IS THIN HERE. ROCK IS VERY DARK AND FINE GRAINED. LARGE PITS ARE VENTILATED INTO THE OLIVINE ZONE. ROCK IS FOUND AS FLOOR AND OUTCROP IN AREA OF STREAM.

2. DOWN STREAM ALONG RICHLAND TOWN ROAD OLIVINE DIABASE OUTCROPS IN STREAM. ALSO HAS LARGE PITS. OLIVINE ZONE THIN IN THIS AREA. ROCK VERY DARK. FINE GRAINED. LAST KNOWN OUTCROP OF OLIVINE ZONE IN NOKKAMIXON STATE PARK.

3. OLIVINE DIABASE FOUND AS FLOWS ON SLOPE FROM LAKE NOKKAMIXON. OLIVINE ZONE EXTENDS UP THE TOHICKON CREEK.

SGL = STATE GAME LANDS