



State of New Jersey
Department of Environmental Protection
Geological Survey

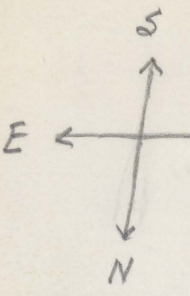


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 WEIGHERS, SAMPLERS, ASSAYERS, CHEMISTS
 STANDARD TESTING LABORATORIES, INC.
 Belleville, N. J.



POCHUCK MINE

JULY 10-1942

W.H.

DIAMOND DRILL PROSPECT HOLES - POCHUCK MINE - McAFEE - NEW JERSEY

DRILL HOLE A

DATE DRILLED	LOG	DEPTH	CORE	REMARKS
		0'-0"		SURFACE.
MAR. 17		22'-0"	NONE	Drove casing through soft broken rock. (LIMONITE).
MAR. 18		22'-0"	NONE	TIMBER
		29'-0"	NONE	VOID Chopped & drove casing from 22'-0" to 29'-0"
		31'-0"	NONE	VOID
MAR. 19		36'-0"	NONE	Chopped & drove casing.
		41'-0"	NONE	VOID
		48'-0"	NONE	VOID
MAR. 20		56'-0"	NONE	Chopped & washed. Formation too soft to core.
		68'-0"	NONE	HARD ROCK. (IRON ORE).
MAR. 21		72'-0"	NONE	Drilled soft rock. Hole started to cave.
		75'-0"	NONE	

DRILL HOLE A (Continued)

DATE DRILLED	LOG	DEPTH	CORE	REMARKS
MAR. 24 - 25 - 26		84'-0"	NONE	Like core, couldn't drive casing. Brake off. Surface and broke off again. Put in new string to 88'-0".
MAR. 27		96'-0"	NONE	Drilled & chopped through soft rock. (LIMONITE)
		120'-0"	NONE	
MAR. 29		162'-0"	NONE	Chopped & washed through soft rock.

DRILL HOLE A (Continued)

DATE DRILLED	LOG	DEPTH	CORE	REMARKS
MAR. 30		176'-0"	NONE	Hole caved in. Had to wash from 176'-0"
MAR. 31		200'-0"	NONE	Hole caved in. Had to wash from 175'-0". Hard at 205'-0".
		205'-0"	NONE	Hard Red Rock.
APR. 1		240'-0"	NONE	Drilled soft rock. Too soft to core. More mica in formation from 205'-0".
APR. 2		260'-0"	NONE	Drilled soft rock. Too soft to core.
APR. 3		266'-0"	NONE	Drilled soft rock. To 266'-0" stand at 244'-0". APR. 4. Hole caved from 160'-0". APR. 5. Hole ordered stopped by Mr. Smith.

COMPLETED - TOTAL DEPTH 266'-0"
ORDERED STOPPED BY MR. SMITH APR. 5, 1942.

DRILL HOLE B

DATE DRILLED	LOG	DEPTH	CORE	REMARKS
		0'-0"		SURFACE.
APR. 8		22'-0"	NONE	Drove 4" diameter casing through compact sand & gravel.
APR. 9		20'-0"	NONE	Drove casing through sand & gravel.
APR. 10		42'-0"	NONE	Drilled broken, seamy limestone.
APR. 11		55'-0"	NONE	On Apr. 11th could not drill deeper than 55'-0" so started new hole and drove casing to 66'-0". Drilled with 3" bit bit to 55'-0".
APR. 13		66'-0"	NONE	Drilled seamy white limestone with red intrusions.
APR. 14		85'-0"	NONE	Drilled seamy limestone. Red intrusions.
APR. 15		90'-0"	NONE	Seamy & broken limestone. Red intrusions.
APR. 16		100'-0"	NONE	Seamy & broken limestone. N.B. WATER FLOWS FROM HOLE AT RATE OF 6 GALS. PER MIN. RED INTRUSIONS. BLANKED.
APR. 17		105'-0"	NONE	Seamy & broken limestone. Red intrusions.
APR. 18		112'-0"	NONE	VERY SEAMY LIMESTONE. RED INTRUSIONS. HOLE CAVED.
APR. 19		117'-0"	NONE	VERY SEAMY LIMESTONE. RED INTRUSIONS. BLANKED.
APR. 20		121'-0"	NONE	SEAMY LIMESTONE. FEWER RED INTRUSIONS THAN ABOVE.
APR. 21		131'-0"	NONE	SOFT & SEAMY LIMESTONE. HOLE CAVED BADLY.
APR. 22		147'-0"	NONE	VERY SOFT LIMESTONE. HOLE CAVED BADLY.

Hole ordered stopped by Mr. Smith on Apr. 18, 42. TOTAL DEPTH 158'-0"

DRILL HOLE C

DATE DRILLED	LOG	DEPTH	CORE	REMARKS
		0'-0"		SURFACE.
APRIL 21		10'-0"	NONE	BROWN SAND & CLAY.
APRIL 22		45'-0"	NONE	BROWN SAND & CLAY.
APRIL 23		45'-0"	NONE	SOFT ROCK. DRILLED.
APRIL 24		15'-0"	NONE	HARD ROCK (IRON ORE)
APRIL 25		18'-0"	NONE	SOFT ROCK. DRILLED.
APRIL 26		29'-0"	NONE	SOFT ROCK. DRILLED.
APRIL 27		45'-0"	NONE	SOFT ROCK. DRILLED.
APRIL 28		45'-0"	NONE	SOFT ROCK. DRILLED.
APRIL 29		45'-0"	NONE	SOFT ROCK. DRILLED.

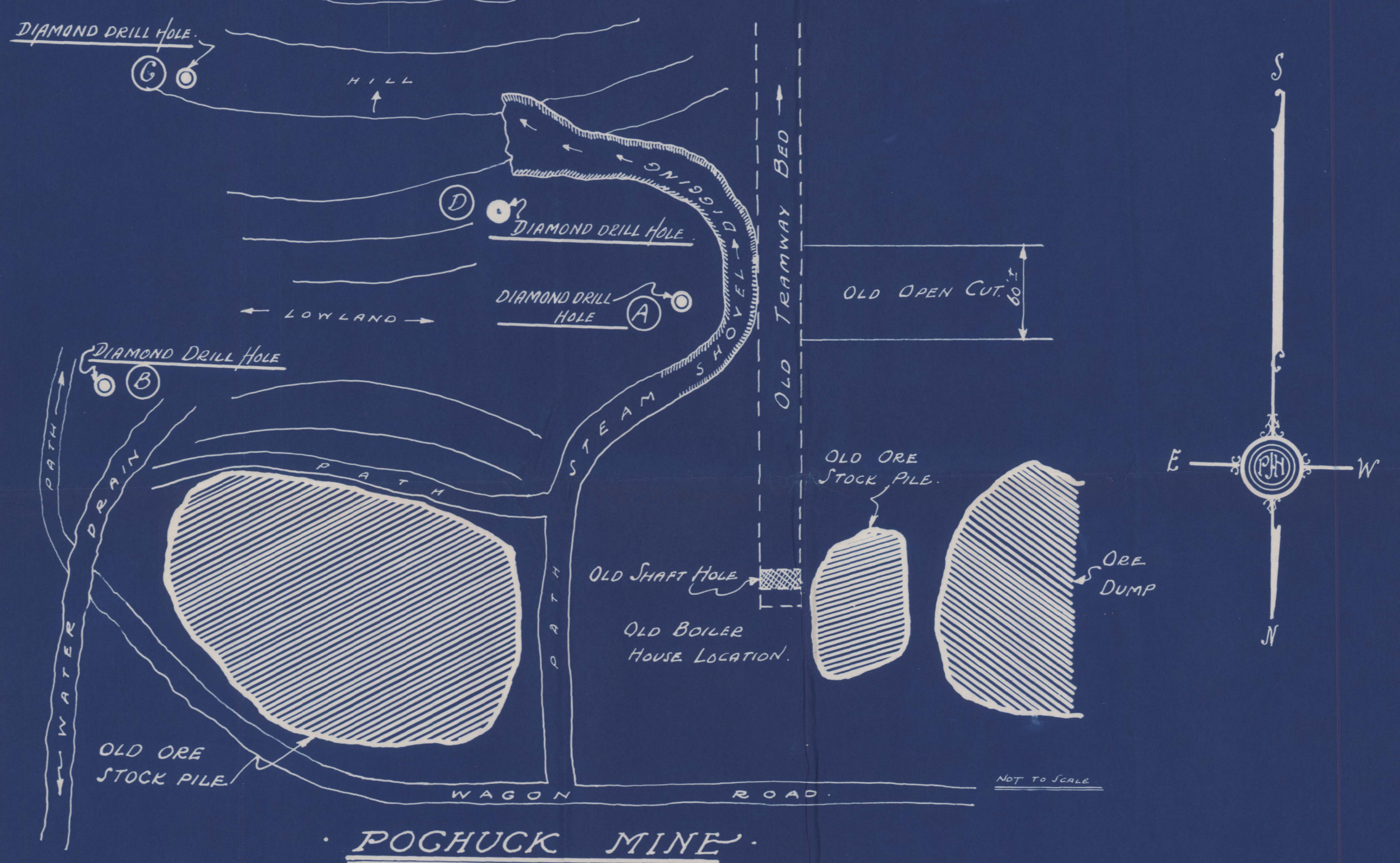
Hole completed. Total depth 95'-0"

DRILL HOLE D

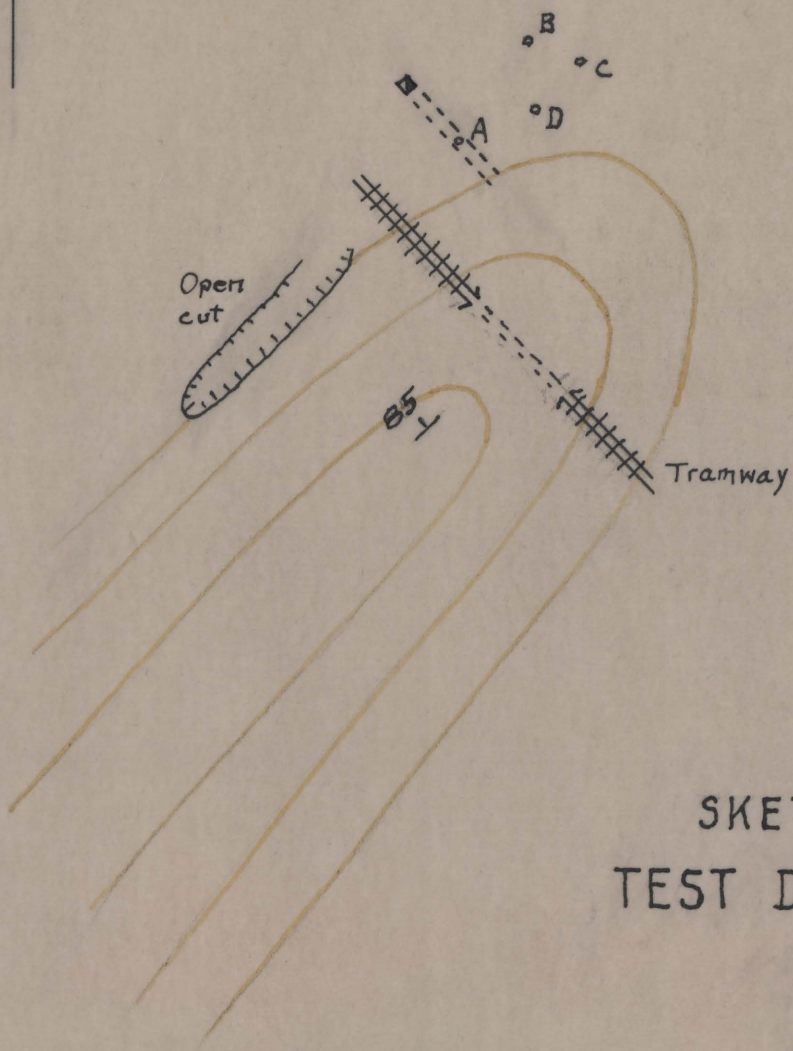
DATE DRILLED	LOG	DEPTH	CORE	REMARKS
APRIL 24		16'-0"	NONE	BROWN SAND & CLAY.
APRIL 25		16'-0"	NONE	BROWN SAND & CLAY.
APRIL 26		16'-0"	NONE	BROWN SAND & CLAY.
APRIL 27		16'-0"	NONE	BROWN SAND & CLAY.
APRIL 28		16'-0"	NONE	BROWN SAND & CLAY.
APRIL 29		16'-0"	NONE	BROWN SAND & CLAY.
APRIL 30		16'-0"	NONE	BROWN SAND & CLAY.
MAY 1		16'-0"	NONE	BROWN SAND & CLAY.
MAY 2		16'-0"	NONE	BROWN SAND & CLAY.
MAY 3		16'-0"	NONE	BROWN SAND & CLAY.
MAY 4		16'-0"	NONE	BROWN SAND & CLAY.
MAY 5		16'-0"	NONE	BROWN SAND & CLAY.
MAY 6		16'-0"	NONE	BROWN SAND & CLAY.
MAY 7		16'-0"	NONE	BROWN SAND & CLAY.
MAY 8		16'-0"	NONE	BROWN SAND & CLAY.
MAY 9		16'-0"	NONE	BROWN SAND & CLAY.
MAY 10		16'-0"	NONE	BROWN SAND & CLAY.
MAY 11		16'-0"	NONE	BROWN SAND & CLAY.
MAY 12		16'-0"	NONE	BROWN SAND & CLAY.
MAY 13		16'-0"	NONE	BROWN SAND & CLAY.
MAY 14		16'-0"	NONE	BROWN SAND & CLAY.
MAY 15		16'-0"	NONE	BROWN SAND & CLAY.
MAY 16		16'-0"	NONE	BROWN SAND & CLAY.
MAY 17		16'-0"	NONE	BROWN SAND & CLAY.
MAY 18		16'-0"	NONE	BROWN SAND & CLAY.
MAY 19		16'-0"	NONE	BROWN SAND & CLAY.
MAY 20		16'-0"	NONE	BROWN SAND & CLAY.
MAY 21		16'-0"	NONE	BROWN SAND & CLAY.
MAY 22		16'-0"	NONE	BROWN SAND & CLAY.
MAY 23		16'-0"	NONE	BROWN SAND & CLAY.
MAY 24		16'-0"	NONE	BROWN SAND & CLAY.
MAY 25		16'-0"	NONE	BROWN SAND & CLAY.
MAY 26		16'-0"	NONE	BROWN SAND & CLAY.
MAY 27		16'-0"	NONE	BROWN SAND & CLAY.
MAY 28		16'-0"	NONE	BROWN SAND & CLAY.
MAY 29		16'-0"	NONE	BROWN SAND & CLAY.
MAY 30		16'-0"	NONE	BROWN SAND & CLAY.
JUN 1		16'-0"	NONE	BROWN SAND & CLAY.
JUN 2		16'-0"	NONE	BROWN SAND & CLAY.
JUN 3		16'-0"	NONE	BROWN SAND & CLAY.
JUN 4		16'-0"	NONE	BROWN SAND & CLAY.
JUN 5		16'-0"	NONE	BROWN SAND & CLAY.
JUN 6		16'-0"	NONE	BROWN SAND & CLAY.
JUN 7		16'-0"	NONE	BROWN SAND & CLAY.
JUN 8		16'-0"	NONE	BROWN SAND & CLAY.
JUN 9		16'-0"	NONE	BROWN SAND & CLAY.
JUN 10		16'-0"	NONE	BROWN SAND & CLAY.
JUN 11		16'-0"	NONE	BROWN SAND & CLAY.
JUN 12		16'-0"	NONE	BROWN SAND & CLAY.
JUN 13		16'-0"	NONE	BROWN SAND & CLAY.
JUN 14		16'-0"	NONE	BROWN SAND & CLAY.
JUN 15		16'-0"	NONE	BROWN SAND & CLAY.
JUN 16		16'-0"	NONE	BROWN SAND & CLAY.
JUN 17		16'-0"	NONE	BROWN SAND & CLAY.
JUN 18		16'-0"	NONE	BROWN SAND & CLAY.
JUN 19		16'-0"	NONE	BROWN SAND & CLAY.
JUN 20		16'-0"	NONE	BROWN SAND & CLAY.
JUN 21		16'-0"	NONE	BROWN SAND & CLAY.
JUN 22		16'-0"	NONE	BROWN SAND & CLAY.
JUN 23		16'-0"	NONE	BROWN SAND & CLAY.
JUN 24		16'-0"	NONE	BROWN SAND & CLAY.
JUN 25		16'-0"	NONE	BROWN SAND & CLAY.
JUN 26		16'-0"	NONE	BROWN SAND & CLAY.
JUN 27		16'-0"	NONE	BROWN SAND & CLAY.
JUN 28		16'-0"	NONE	BROWN SAND & CLAY.
JUN 29		16'-0"	NONE	BROWN SAND & CLAY.
JUN 30		16'-0"	NONE	BROWN SAND & CLAY.

Hole completed. Total depth 94'-0"

NOTE - DIAMETER CORE EXTRACTED 1 3/8". ALL CORE SAMPLES ARE DRYED AND LABELLED FOR READY IDENTIFICATION.



DIAMOND DRILL PROSPECTING
DONE BY
PHILIP J. HEALEY, INC.
CORE DRILL CONTRACTORS
207 BALDWIN AVE. JERSEY CITY • 11 PARK PLACE, N. Y. C.



SKETCH TO SHOW POSITION OF
TEST DRILLHOLES AT POCHUCK MINE,
SUSSEX COUNTY, N.J.

4-10-44

MEJ