3. BARTHOLOMEW COUNTY

A. A summary of sand and gravel deposits

B. Memorandum Report: Driftwood Gravel Company

C. Geologic Map

D. Drift Thickness RP7

E. Memorandum Report: Spray Gravel

F. Memorandum Report: Columbus Gravel

MEMORANDUM REPORT BY DALLAS FIANDT, JR.

SAND AND GRAVEL DEPOSITS OF BARTHOLOMEW COUNTY

Date of field examination.--July 20, 21, 22, 1949

Sources of information.--The road materials of Bartholomew County were described in an old report (Ellis, 1906, pp. 823-838) which mentioned many earlier pits and deposits and was of some assistance in determining the general area of gravel occurrence.

U. S. Geological Survey topographic quadrangle maps cover the northern and western parts of the county.

A recently issued soil map (Ulrich, et al, 1947) was of great aid in determining areas underlain by sand and gravel.

Geology.--Illinoian glaciation covered all but a narrow strip along the southwestern edge of Bartholomew County. The Wisconsin ice sheet extended down over the northeastern half of the county. The Shelbyville Morainic System and the terminal moraine of the Champaign Glacial Substage lie diagonally across the county in a northwest-southeast direction. (See Malott, 1922, Pl. 3.)

Flatrock Creek and Driftwood River converge just west of Columbus to form the east fork of the White River. All of these streams run in a north-south direction through the middle of the county in broad shallow valleys, which were once deep glacial sluiceways, but are now nearly filled with assorted water-laid glacial materials.

Fox, Westland, and Homer soils overlie low terraces, usually underlain by gravel, in the old sluiceways, which have a total width of approximately 7 miles in the northern part of the county and 3 miles in the southern part. Alluvial soils, principally Genessee and Eel, are present in the lower areas between the terraces,

and are also often underlain by sand and gravel. The sluiceway area furnishes the county with large reserves of sand and gravel. Most of the material in Bartholomew County, however, tends to have a high sand ratio and yields a poor supply of the larger sizes when washed and sized.

The absence of Bellefontaine soil in this county is unusual. This soil type is found in abundance to the north in Johnson County, and its presence would be expected in Bartholomew County, as the northern and eastern parts of the county lie within the Shelbyville Morainic System. No evidence, however, of moraines can be found on the soil map. Soil types derived from kames, eskers, and outwash are lacking.

The valley of Clifty Creek acted as a minor sluiceway and contains gravel terraces, which appear to be of little value upstream from Newbern, but have been the sites of several sizable pits, now abandoned, between Newbern and the major sluiceway.

Two operations were visited at which gravel coarser than the Pleistocene sluiceway gravel was being taken directly from a present stream channel. The valley train material has been undercut by meanders and reworked by stream action, leaving bars of relatively coarse material and carrying the fines downstream. Deposits of this type are being worked in Flatrock Creek and White River. We were informed that these bars are built so rapidly that a small operation rarely needs to be moved.

Sources of materials.--Three active and two inactive pits were found at the time of examination. Thirty abandoned pits were visited. All active and inactive pits are located in the major north-south sluiceways. One pit in the north-central part of the county is producing washed and sized material. Several plants producing washed material in the vicinity of Seymour furnish sand and gravel to the southern

part of Bartholomew County.

Creek gravels derived from Borden rocks are being used by the county in the vicinity of Waymansville.

Crushed stone from a large quarry near Elizabethtown provides much of the coarse aggregate and road metal used in the county.

Respectfully submitted,

Dallas Fiandt Jr.

Dallas Fiandt Jr.
Geologic Field Assistant

Ellis, R. W. (1906) The roads and road materials of southeastern Indiana, Indiana Dept. of Geology and Nat. Resources, 30th Annual Report, pp. 757-871.

Malott, C. A. (1922) The physiography of Indiana in Handbook of Indiana Geology, Ind. Dept. of Conservation, Pub. No. 21, pp. 57-256.

Ulrich, H. R., et al (1947) Soil survey of Bartholomew County, Indiana, U. S. Dept. of Agriculture, Series 1936, No. 27, 105 pp, map.

March 22, 1951

MEMORANDUM REPORT BY ROBERT E. SARGENT

DRIFTWOOD GRAVEL COMPANY, BARTHOLOMEW COUNTY

Date of field examination - June 28, 1950.

Location - The Driftwood Gravel Company pit is located two miles south of Edinburg, Indiana, in the S.E.$\frac{1}{4}$, S.E.$\frac{1}{4}$, sec. 9, T. 10N., R. 5E.. The operation is on the west side of U. S. highway 31.

Ownership - The plant is managed by Martin Fishback and owned by Messrs E. and T. Burnside. The company has 92 acres of land in fee.

Information for this report was furnished by Martin Fishback, plant manager, and by the file card compiled by John B. Patton June 20, 1949.

Geology - The pit is in valley train material in the Driftwood sluiceway. The operation has been tested to depths of 30, 50, and 70 feet. In the upper 30 feet there is 20 percent gravel, in the next 20 feet there is 25 percent, and the percent increases to 30 in the lowest 20 feet tested. Only 3.3 feet of gravel was above water level at the time of investigation. This material was well stratified and well sorted, composed of generally subrounded material. The material above water level is finer than that encountered below water level.

The overburden, where the operation has cut back from the river, ranges from 1$\frac{1}{2}$ feet to 5 feet in thickness. It is a dark brown silty loam, which contains some gravel at the base. This overburden is the Genesee silt loam primarily, although Eel silty clay loam and Martinsville silt loam may have been encountered (See Ulrich et. al., 1947, Soil Map).

Samples - Since only 3.3 feet of sand and gravel were above water level at the time of investigation, sample S5010 was taken from an unwashed and unsorted pit run stockpile. This gravel was taken from the channel of the Driftwood River by cableway bucket. It should be quite representative of the valley train material.

Operations - The original operation was in the channel of the Driftwood River. The pit has been moved back into the river bank, widening the channel of the river. Gravel is removed with a cableway bucket and a portable dragline crane. Stripping is also done with the dragline crane. The plant has a gasoline powered washing plant. All transportation is by truck.

Production - The plant produces pit run gravel and graded gravel up to L #5. In 1949 approximately 90 yards of gravel were produced an hour, and the plant was operating on a 14 hour day. In 1950 the plant was producing 200 tons per hour on a 9½ hour day. No figures on annual production are available. The plant is in operation approximately 8 months a year.

Reserves - The Driftwood Gravel Company holds 92 acres of land, of which 5 acres have been worked. It is estimated that 40 more acres will be worked Under this land gravel has been found to a depth of 70 feet.

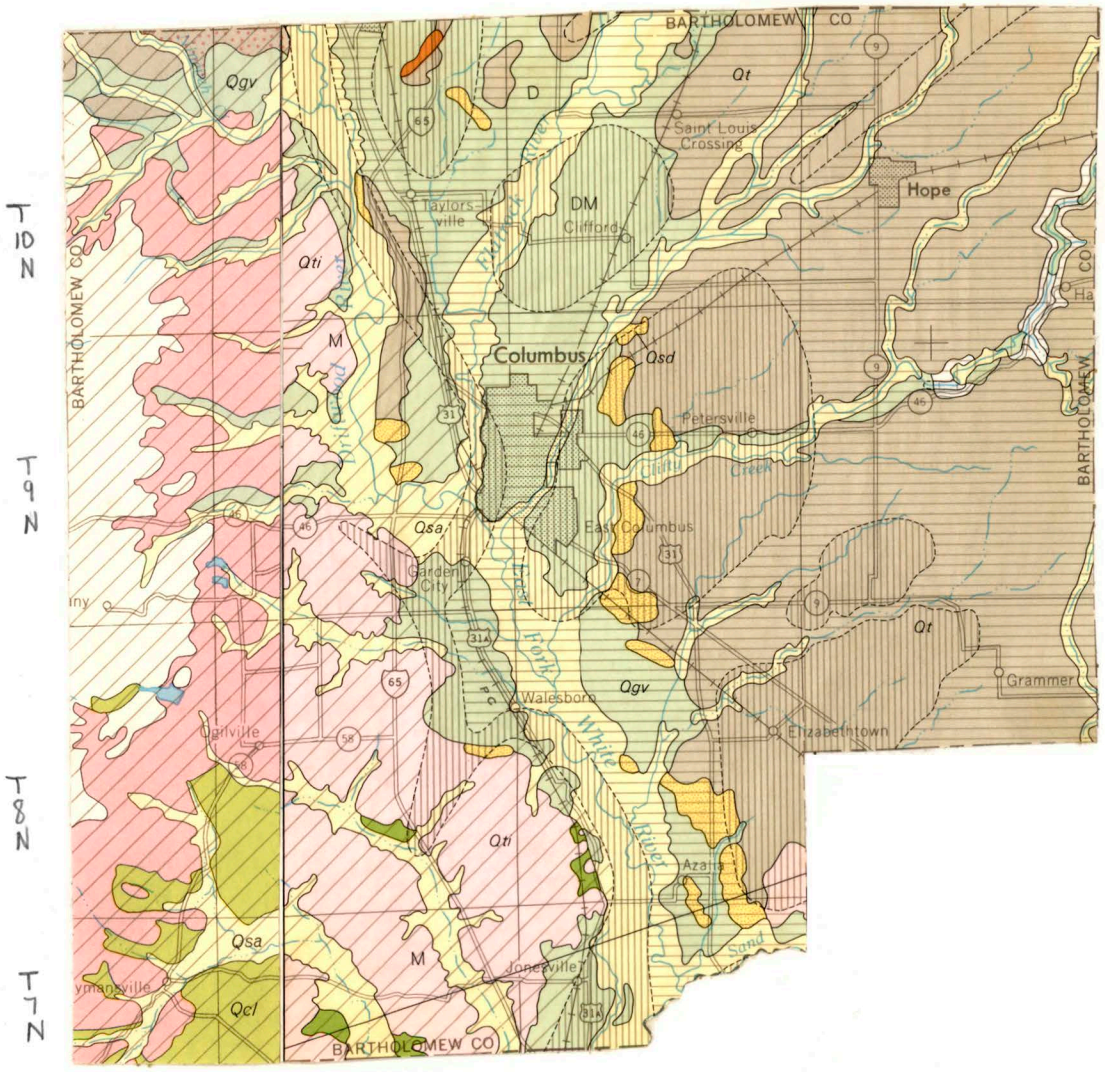
Respectfully submitted,

Robert E. Sargent

Robert E. Sargent
Party Chief

Ulrich, H. P. et. al. (1947) Soil Survey of Bartholomew County, Indiana, U. S. Dept. of Agriculture Series 1936, No.27., 105pp. Map.

3-C

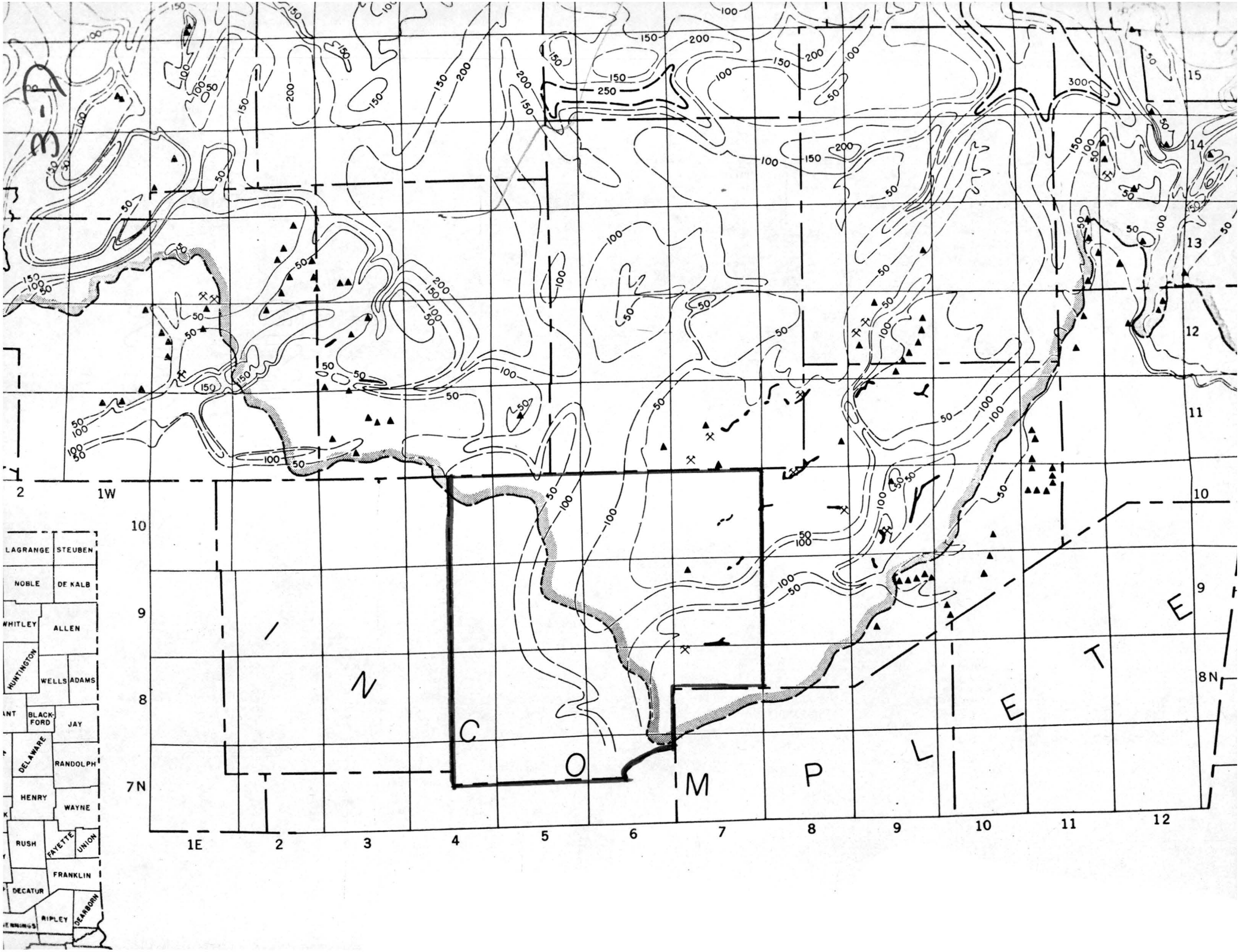


Scale 1:250,000

5 0 5 10 15 20 Statute Miles

5 0 5 10 15 20 25 30 Kilometers

5 0 5 10 Nautical Miles


COMPLETE
LAGRANGE
STEUBEN
NOBLE
DE KALB
WHITLEY
ALLEN
HUNTINGTON
WELLS
ADAMS
BLACK-FORD
JAY
DELAWARE
RANDOLPH
HENRY
WAYNE
RUSH
FAYETTE
UNION
FRANKLIN
DECATUR
RIPLEY
DEARBORN
1W
1E
7N
8N

Memorandum Report
by
Michael C. Moore
April 4, 1975

County: Bartholomew
Company: Spray Sand and Gravel Inc.
Mailing Address: 610 E. Redding Rd., Seymour, Indiana 47247
Phone: 812-372-7508
Date of Field Visit: April 2, 1975
Informant: Bill Finley, foreman
Descriptive Location of Pit: S. from Jct. U.S. 31A and S.R. 46W on 31A for 4 blocks, then E. 600 ft.
Congressional Location: SW¼ sec. 25, T. 9 N., R. 5 E., Columbus 7½' quad
No. Of Employees: 7
Products:

	Price per ton at time of visit
mortar sand	$ 1.30
coarse sand	1.20
fill sand	1.00
pit run	1.50
P gravel	2.00
county gravel	2.00
big gravel (over 5-L)	1.70
concrete gravel	2.00
5-L gravel, single wash	2.20
5-L, double wash	2.40
top dirt	.80
fill dirt	.60
minimum pick-up	4.00

Shipping: The company owns some trucks but most gravel is hauled by independent operators who charge $ .60/ton for the first mile and $ .05/ton/mile thereafter. The market area has a radius of about 30 mi.

This pit has been open since 1964, and gravel has been dredged from 15 acres of the terrace and flood-plain of the East Fork White River. The dredge was built by the Spray company and has several unique features. It is powered by three electric motors and has a gasoline driven generator on board. The material is broken free by water jets and then pumped through a 6 inch grate to an 8 inch pipe and to the plant on shore. The dredge has worked as deep as 72 feet, but is presently set up to go only 60 feet. It works back and forth over the deposit along a cable anchored with deadmen on both sides of the pit.

Stripping of the 18 inches to 8 feet of soil overburden is accomplished with a crane mounted dragline. A few feet of gravel above water is also excavated by the dragline. A sample of this material was taken from a stockpile (MM75-13) and is not representative of the majority of the material mined, but is probably nearer the pit-run composition than is that gravel brought up by the dredge. The sand to gravel ratio was estimated by Mr. Finley to range from 50/50 to 75/25. No crushing is done.

The coarseness and thickness of the deposit varies from place to place on the 100 acre property and the scale operator noted that at the places where gravel is near the surface the beans turn brown in the fall. A clay seam is encountered at 45 to 60 feet and at shallower depths to the east. Mr. Finley reports that dredging at the Imperial House Motel ½ mile to the north was hampered by clay unexpectedly encountered at a depth of 8 feet. Although the dredge has worked at greater depths it is uncertain whether there is gravel below the clay or whether the gravel from above slumps into the hole. The lower part of the deposit contains much Borden shale.

Memorandum Report
by
Michael C. Moore
April 4, 1975

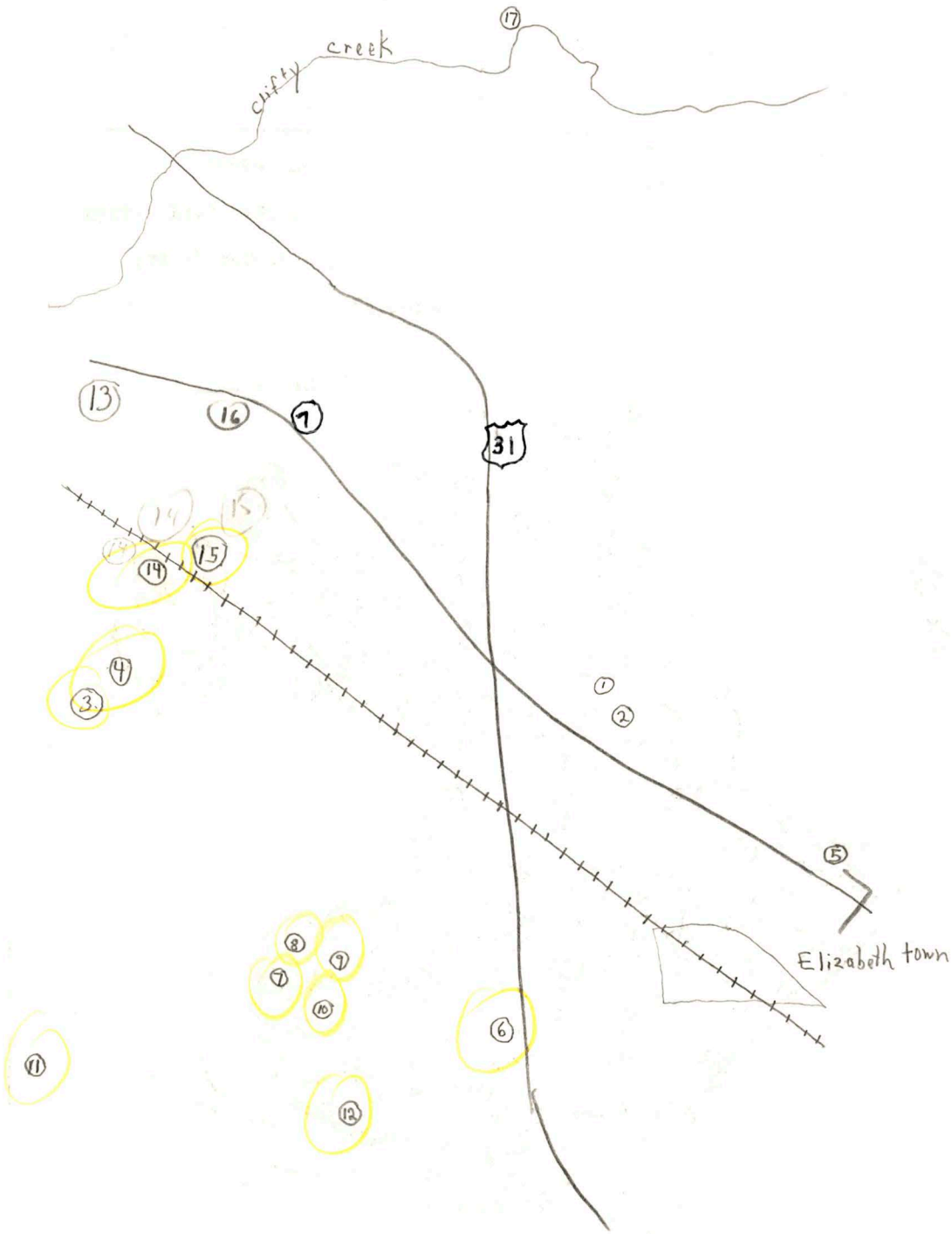
County: Bartholomew
Company: Columbus Gravel Division of B.D.W. Corp.
Mailing Address: P. O. Box 866, Columbus, Indiana 47201
Phone: 812-342-4497
Descriptive Location: 1 mi. E. of Jct. with U.S. 31A in Walesboro, at E. Fork White River
Congressional Location: NW¼ NW¼ NE¼ sec. 7, T. 8 N., R. 6 E., Columbus quad
Date of Field Visit: April 2, 1975
No. of Employees: 4
Products: pit run, coarse sand, mortar sand, top dirt
Market Area: local
Shipping: independent trucks

This is one of only a few operations in the state that exploits the bed-load of a flowing stream. The East Fork White River is normally about 4 feet deep at this spot, but Columbus Gravel's 10/8 inch dredge mines it out to 35 feet. They are required to get a permit from the state to do this, but do not pay a royalty. Approximately 50 acres (both sides of the river) are owned. The river refills the hole each time it floods.

A few feet to 6 feet of soil overlies sand along the banks, and occasionally this material caves in. The dredge generally stays away from the bank, however, because roots and mud pockets are found there. In the center of the current the mud and roots are washed away. If the dredge is stopped after pumping out a hole the normal current will refill the hole in 1 hour with enough sand to continue pumping for an additional 3 hours.

Recent flooding damaged the dredge and the pipeline, and the plant was not in operation at the time of this visit. The company plans to increase the dredge's reach to 50 feet. The processing plant will be replaced, as the present plant, constructed mostly of wood, operates only a few hours before breaking down.

The company has operated here for 2 years. Columbus Gravel was operated by the former owner for about 20 years before his death. B.D.W. Corp. is a land development company and owns no other aggregate production facilities.



1-10
13-17

11 – Jonesville , NW, NE, NW, 19, 8 N., 6 E.

12 – Azalia SE, SW, SE, 22, 8 N., 6 E.

3, 4, ~~[illegible]~~, 11

Clay

Hardpan

Blue Clay + Gray

Brown Clay + Yellow

Shale ~~Slate~~

LS

Sand

Gravel

Sand & Gravel

Clay & Sand

Drift

Columbus
Jonesville
Zalia

(1)

Barth County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

_____ County, Indiana

T 8N ; R 6E ; Section 2 Eton Quad

___ ¼, S ½, SE ¼, NW ¼,

___ NL, ___ EL, ___ SL, ___ WL,

Well Name _____ # _____

Oil ___, Water ✓, Eng. boring ___, Seismic ___, Strat. Sect. ___; Gas ___,

Abandoned ___; Date _____;

0 to 12 ft:	Clay
18 ft:	H.P.
42 ft:	B.C.
57 ft:	Shale
78 ft:	LS

Surface elevation 640 ; ___ ft: _____

Bedrock elevation 600 ; ___ ft: _____

Depth to Bedrock 40 ; ___ ft: _____

Bedrock formation _____ ; ___ ft: _____

Total depth _____ ; ___ ft: _____

Logs available _____, ___ ft: _____

_____ ; ___ ft: _____

Static Water Level _____ /Depth ___ : ___ ft: _____

___ ft: _____ ___ ft: _____

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(2)

Bartholomew County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

_____ County, Indiana

T 8N ; R 6E ; Section 2 E Town Quad

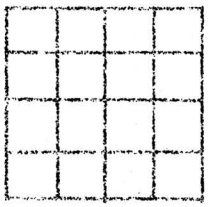
_____ ¼, NE ¼, NE ¼, SW ¼,

_____ NL, 2750 EL, 2300 SL, _____ WL,

Well Name _____ # _____

Oil ____, Water ____, Eng. boring ____, Seismic ____, Strat. Sect. ____; Gas ____,

Abandoned ____. Date _____;



0 to 15 ft: Yellow clay
42 ft: Gray Clay
57 ft: Black Shale
145 ft: Ls

Surface elevation 645 ; ____ ft: _____

Bedrock elevation 603 ; ____ ft: _____

Depth to Bedrock 42 ; ____ ft: _____

Bedrock formation _____ ; ____ ft: _____

Total depth _____ ; ____ ft: _____

Logs available _____, ____ ft: _____

_____ ; ____ ft: _____

Static Water Level _____ /Depth ____ ; ____ ft: _____

____ ft: _____ ____ ft: _____

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(3)

Barth County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

_____ County, Indiana Columbus ~~Edinburgh~~ Quad

T 8N ; R 6E ; Section 5

¼, SE ¼, SW ¼, SE ¼,

_____ NL, _____ EL, 150 SL, 3700 WL,

Well Name _____ # _____

Oil ____, Water ✓, Eng. boring ____, Seismic ____, Strat. Sect. ____; Gas ____,

Abandoned ____. Date _____;

0 to 3 ft: Clay
14 ft: Sd
27 ft: Clay
60 ft: Sd
65 ft: GV

Surface elevation 612 ;

Bedrock elevation _____ ; _____ ft: _____

Depth to Bedrock _____ ; _____ ft: _____

Bedrock formation _____ ; _____ ft: _____

Total depth _____ ; _____ ft: _____

Logs available _____ , _____ ft: _____

_____ ; _____ ft: _____

Static Water Level _____ /Depth ____ ; _____ ft: _____

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(4.

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Bartholomew County, Indiana Columbus

T 8N ; R 6E ; Section 5 ~~Lotta~~ Quad

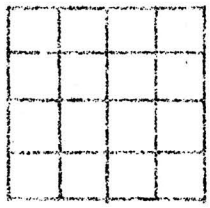
___ ¼, NW ¼, SE ¼, SE ¼,

___ NL, ___ EL, 1250 SL, 4450 WL,

Well Name _____ # _____

Oil ___, Water ✓, Eng. boring ___, Seismic ___, Strat. Sect. ___; Gas ___,

Abandoned ___, Date _____;



0 to 18 ft: Clay
25 ft: Sd + Clay
46 ft: Blue Clay
50 ft: S + G

Surface elevation 615 ; ___ ft: _____

Bedrock elevation _____ ; ___ ft: _____

Depth to Bedrock _____ ; ___ ft: _____

Bedrock formation _____ ; ___ ft: _____

Total depth _____ ; ___ ft: _____

Logs available _____ , ___ ft: _____

_____ ; ___ ft: _____

Static Water Level _____ /Depth ___ : ___ ft: _____

___ ft: _____ ___ ft: _____

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(5)

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Bartholomew County, Indiana

T 8N ; R 6E ; Section 12 Edinburg Quad

_____ ¼, NE ¼, SE ¼, SE ¼,

_____ NL, 150 EL, 700 SL, _____ WL,

Well Name _____ # _____

Oil____, Water____, Eng. boring____, Seismic____, Strat. Sect.____; Gas____,

Abandoned____, Date_____;

0 to 12 ft: Yellow Clay
18 ft: HP
24 ft: Blue Clay
34 ft: Slate
78 ft: LS

Surface elevation 660 ;

Bedrock elevation _____ ; ____ ft: _____

Depth to Bedrock _____ ; ____ ft: _____

Bedrock formation _____ ; ____ ft: _____

Total depth _____ ; ____ ft: _____

Logs available _____ , ____ ft: _____

_____ ; ____ ft: _____

Static Water Level _____ /Depth ____ : ____ ft: _____

____ ft: _____ ____ ft: _____

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(6)

Barth County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

_____ County, Indiana

T 8N ; R 6E ; Section 15 Grantown Quad

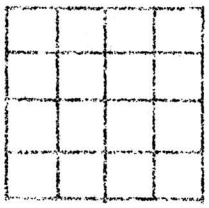
_____ ¼, _____ ¼, SE ¼, SE ¼,

_____ NL, _____ EL, _____ SL, _____ WL,

Well Name _____ # _____

Oil ____, Water ____, Eng. boring ____, Seismic ____, Strat. Sect. ____; Gas ____,

Abandoned ____, Date _____;



Surface elevation 640 ;

Bedrock elevation _____ ;

Depth to Bedrock _____ ;

Bedrock formation _____ ;

Total depth _____ ;

Logs available _____ ,

_____ ;

Static Water Level _____ /Depth ____ ;

0 to 25 ft:	Clay + Sd
30 ft:	Quicksand
38 ft:	HP
45 ft:	Blue Clay
60 ft:	Black Shale
62 ft:	White LS
65 ft:	Pk LS
ft:	
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(7)

Barth County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

_____ County, Indiana

T 8N ; R 6E ; Section 16 Etown Quad

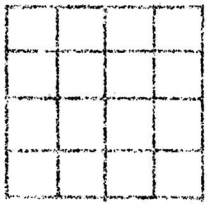
_____ ¼, NW ¼, NW ¼, SE ¼,

_____ NL, 2050 EL, 2100 SL, _____ WL,

Well Name _____ # _____

Oil ____, Water ____, Eng. boring ____, Seismic ____, Strat. Sect. ____; Gas ____,

Abandoned ____, Date _____;



0 to 2 ft: TS

12 ft: Gray HP

26 ft: Brown S+G

____ ft: _____

Surface elevation 612 ; ____ ft: _____

Bedrock elevation _____ ; ____ ft: _____

Depth to Bedrock _____ ; ____ ft: _____

Bedrock formation _____ ; ____ ft: _____

Total depth _____ ; ____ ft: _____

Logs available _____ , ____ ft: _____

_____ ; ____ ft: _____

Static Water Level _____ /Depth ____ : ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

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(8)

Bartholomew County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

_____ County, Indiana

T 8N ; R 6E ; Section 16 Etown Quad

____ ¼, ____ ¼, S ¼, NE ¼,

____ NL, ____ EL, ____ SL, ____ WL,

Well Name _____ # _____

Oil ____, Water ____, Eng. boring ____, Seismic ____, Strat. Sect. ____; Gas ____,

Abandoned ____, Date _____;

0 to 10 ft: Drift
50 ft: Yellow Sdy Clay
88 ft: Sand
109 ft: Ls

Surface elevation 610 ; ____ ft: _____

Bedrock elevation _____ ; ____ ft: _____

Depth to Bedrock _____ ; ____ ft: _____

Bedrock formation _____ ; ____ ft: _____

Total depth _____ ; ____ ft: _____

Logs available _____ , ____ ft: _____

_____ ; ____ ft: _____

Static Water Level _____ /Depth ____ : ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

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(9.)

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Barth County, Indiana

T 8N ; R 6E ; Section 16 Etown Quad

___ ¼, SE ¼, SE ¼, NE ¼,

___ NL, 650 EL, 2800 SL, ___ WL,

Well Name _____ # _____

Oil ___, Water ___, Eng. boring ___, Seismic ___, Strat. Sect. ___; Gas ___,

Abandoned ___, Date _____;

0 to 3 ft:	Clay
51 ft:	Sand
65 ft:	Clay
80 ft:	Sand
93 ft:	Clay
95 ft:	Gravel

Surface elevation 600 ;

Bedrock elevation _____ ;

Depth to Bedrock _____ ; ___ ft: _____

Bedrock formation _____ ; ___ ft: _____

Total depth _____ ; ___ ft: _____

Logs available _____, ___ ft: _____

_____ ; ___ ft: _____

Static Water Level _____ /Depth ___ : ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

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(10)

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Barth County, Indiana

T 8N ; R 6E ; Section 16 Elkhorn Quad

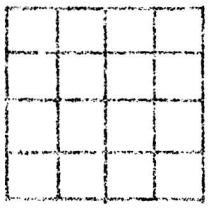
SE ¼, SE ¼, SE ¼, ¼,

NL, 2900 EL, 2900 SL, WL,

Well Name _____ # _____

Oil ____, Water ____, Eng. boring ____, Seismic ____, Strat. Sect. ____; Gas ____,

Abandoned ____, Date _____;



0 to 21 ft: Clay + Sand
35 ft: Sand
48 ft: Clay
71 ft: Sand
96 ft: Clay
98 ft: Gravel

Surface elevation 610 ;

Bedrock elevation _____ ;

Depth to Bedrock _____ ; ____ ft: _____

Bedrock formation _____ ; ____ ft: _____

Total depth _____ ; ____ ft: _____

Logs available _____ , ____ ft: _____

_____ ; ____ ft: _____

Static Water Level _____ /Depth ____ : ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

(11)

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Bartholomew County, Indiana

T 8N ; R 6E ; Section 19 Jonesville Quad

___ ¼, NW ¼, NE ¼, SW ¼,

___ NL, ___ EL, 2500 SL, 2000 WL,

Well Name _____ # _____

Oil ___, Water ✓, Eng. boring ___, Seismic ___, Strat. Sect. ___; Gas ___,

Abandoned ___, Date _____;

0 to 20 ft: Sandy Clay

75 ft: Lt. Brown Shale hard

___ ft: _____

___ ft: _____

Surface elevation 603 ; ___ ft: _____

Bedrock elevation _____ ; ___ ft: _____

Depth to Bedrock 20 ; ___ ft: _____

Bedrock formation _____ ; ___ ft: _____

Total depth _____ ; ___ ft: _____

Logs available _____ , ___ ft: _____

_____ ; ___ ft: _____

Static Water Level _____ /Depth ___ : ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Barth County, Indiana

T 8N ; R 6E ; Section 22 Azalia Quad

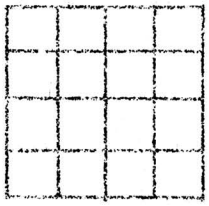
_____ ¼, SE ¼, SW ¼, SE ¼,

_____ NL, 1700 EL, 150 SL, _____ WL,

Well Name _____ # _____

Oil ____, Water ✓, Eng. boring ____, Seismic ____, Strat. Sect. ____; Gas ____,

Abandoned ____. Date _____;



0 to 12 ft: Clay
18 ft: Hp
40 ft: B.C.
48 ft: Shale
109 ft: LS

Surface elevation 620 ;

Bedrock elevation 580 ;

Depth to Bedrock 40 ;

Bedrock formation _____ ;

Total depth _____ ;

Logs available _____ ,

_____ ;

Static Water Level _____ /Depth ____ :

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

(13)

Barth. County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

_____ County, Indiana

T 9N ; R 6E ; Section 32 Cols Quad

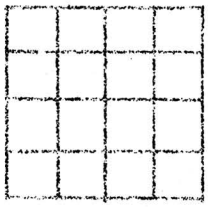
_____ ¼, NE ¼, NW ¼, NE ¼,

300 NL, 1400 EL, _____ SL, _____ WL,

Well Name _____ # _____

Oil ____, Water ✓, Eng. boring ____, Seismic ____, Strat. Sect. ____; Gas ____,

Abandoned ____, Date _____;



620

0 to 10 ft: Sandy Clay

24 ft: GV

____ ft: _____

____ ft: _____

Surface elevation _____; ____ ft: _____

Bedrock elevation _____; ____ ft: _____

Depth to Bedrock _____; ____ ft: _____

Bedrock formation _____; ____ ft: _____

Total depth _____; ____ ft: _____

Logs available _____, ____ ft: _____

_____; ____ ft: _____

Static Water Level _____ /Depth ____: ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

14

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Bartholomew County, Indiana

T 9N ; R 6E ; Section 32 Cols Quad

___ ¼, SE ¼, SE ¼, SE ¼,

___ NL, 400 EL, 350 SL, ___ WL,

Well Name _____ # _____

Oil ___, Water ___, Eng. boring ___, Seismic ___, Strat. Sect. ___; Gas ___,

Abandoned ___. Date _____;

0 to 20 ft: Yellow Sticky Clay
50 ft: Grey Sticky Clay
56 ft: Grey Sd
70 ft: S+G

Surface elevation 690 ; ___ ft: _____

Bedrock elevation _____ ; ___ ft: _____

Depth to Bedrock _____ ; ___ ft: _____

Bedrock formation _____ ; ___ ft: _____

Total depth _____ ; ___ ft: _____

Logs available _____ , ___ ft: _____

_____ ; ___ ft: _____

Static Water Level _____ /Depth ___ : ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

(15.)

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Bath County, Indiana

T 9N ; R 6E ; Section 33 Elkton Quad

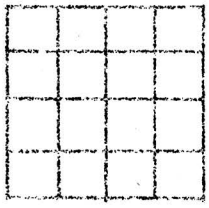
___ ¼, SE ¼, SW ¼, SW ¼,

___ NL, 3900 EL, 400 SL, ___ WL,

Well Name _____ # _____

Oil ___, Water ✓, Eng. boring ___, Seismic ___, Strat. Sect. ___; Gas ___,

Abandoned ___, Date _____;



0 to 20 ft: Sand
34 ft: Sandy Clay
80 ft: Sand
92 ft: Sand + Gv

Surface elevation 655 ; ___ ft: _____

Bedrock elevation _____ ; ___ ft: _____

Depth to Bedrock _____ ; ___ ft: _____

Bedrock formation _____ ; ___ ft: _____

Total depth _____ ; ___ ft: _____

Logs available _____ , ___ ft: _____

_____ ; ___ ft: _____

Static Water Level _____ /Depth ___ : ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

___ ft: _____ ___ ft: _____

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Bartholomew County, Indiana

T 9N ; R 6E ; Section 33 Edinburgh Quad

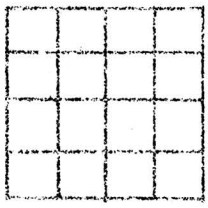
SE ¼, SE ¼, NW ¼, NW ¼,

1250 NL, 4400 EL, _____ SL, _____ WL,

Well Name _____ # _____

Oil ____, Water ✓, Eng. boring ____, Seismic ____, Strat. Sect. ____; Gas ____,

Abandoned ____, Date _____;



850

0 to 18 ft: Clay
28 ft: Sand
101 ft: Blue Clay
104 ft: Sand

Surface elevation _____; ____ ft: _____

Bedrock elevation _____; ____ ft: _____

Depth to Bedrock _____; ____ ft: _____

Bedrock formation _____; ____ ft: _____

Total depth _____; ____ ft: _____

Logs available _____, ____ ft: _____

_____; ____ ft: _____

Static Water Level _____ /Depth ____; ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

____ ft: _____ ____ ft: _____

(17)

_____ County

Water Well Data Sheet
INDIANA STATE GEOLOGICAL SURVEY
DEPT. OF NATURAL RESOURCES
611 N. Walnut Grove, Bloomington, IN 47401

Bartholomew County, Indiana

T. 9N ; R. 6E ; Section 14 Etown Quad

___ ¼, W ½, NW ¼, SW ¼,

___ NL, 3600 EL, 2500 SL, ___ WL,

Well Name _____ # _____

Oil ___, Water ✓, Eng. Boring ___, Seismic ___, Strat. Sect. ___; Gas ___,

Abandoned ___, Date _____;

0 to 14 ft:	Brown clay
18 ft:	Sand
28 ft:	B. C.
49 ft:	Sandy Sand
53 ft:	Gr. clay
66 ft:	Stone

Surface elevation 640 ;

Bedrock elevation _____ ;

Depth to Bedrock 53 ;

Bedrock formation _____ ;

Total depth _____ ;

Logs available _____ ,

_____ ;

Static Water Level _____ /Depth _____ ;

ft: _____ ft: _____

ft: _____ ft: _____

ft: _____ ft: _____

ft: _____ ft: _____

ft: _____ ft: _____

ft: _____ ft: _____

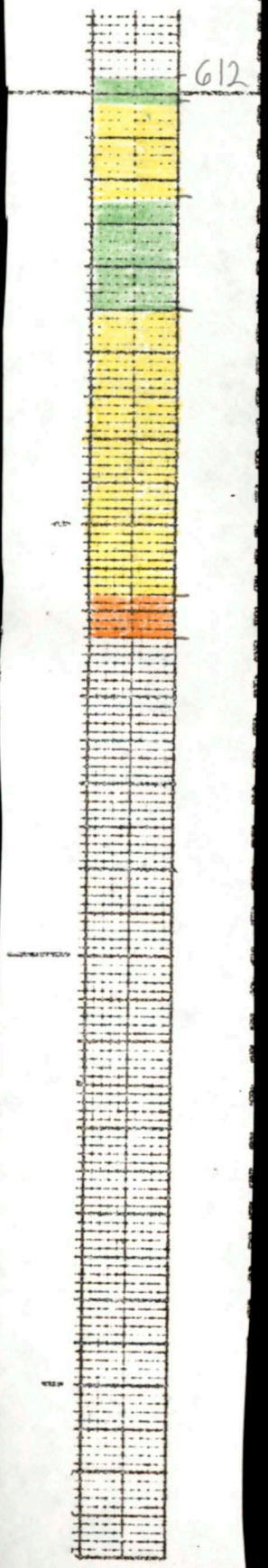
ft: _____ ft: _____

3

5 T. 8N R. 6E

Eliz Town quad

Bartholomew Co.



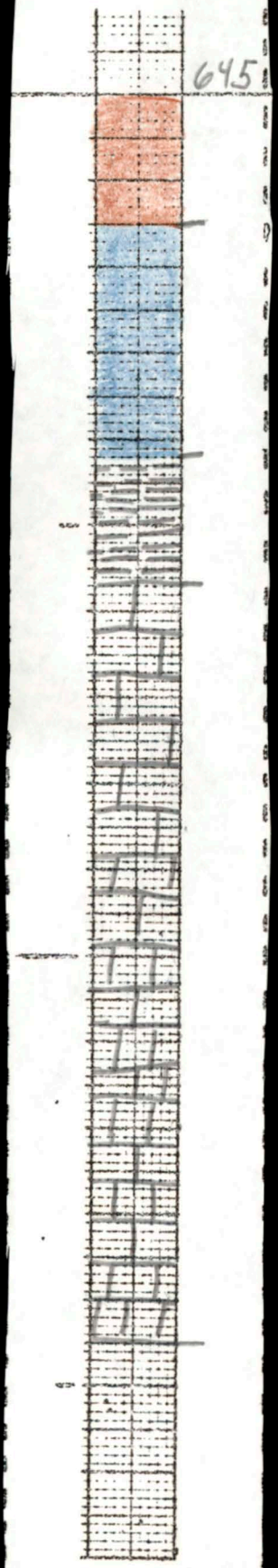
Bartholomew

2

2 T. 8N R. 6E

Eliz. Town quad

Barth. Co.



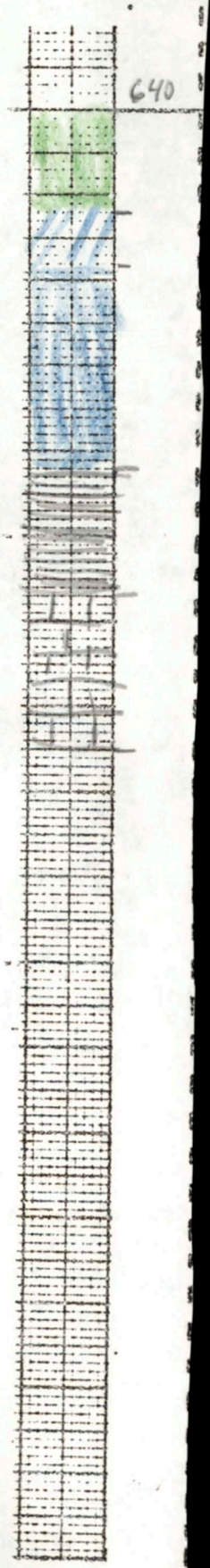
Bartholomew

1

2 T. 8N R. 6E

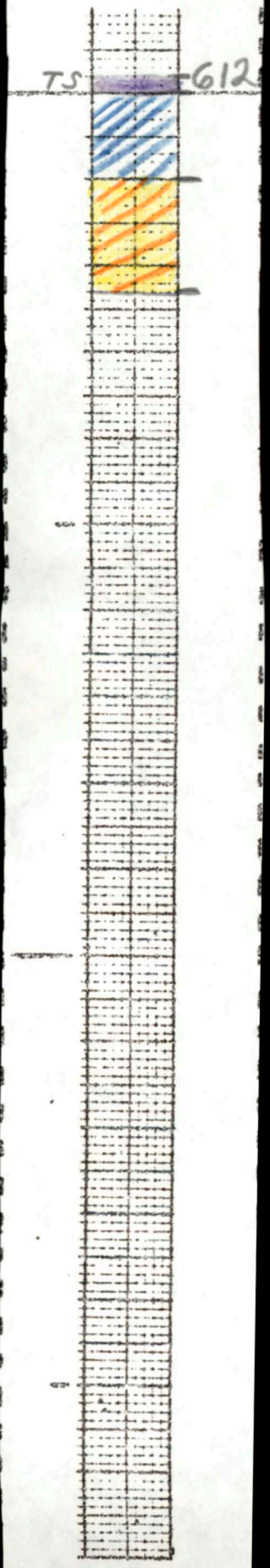
Eliz. Town quad

Barth. Co.



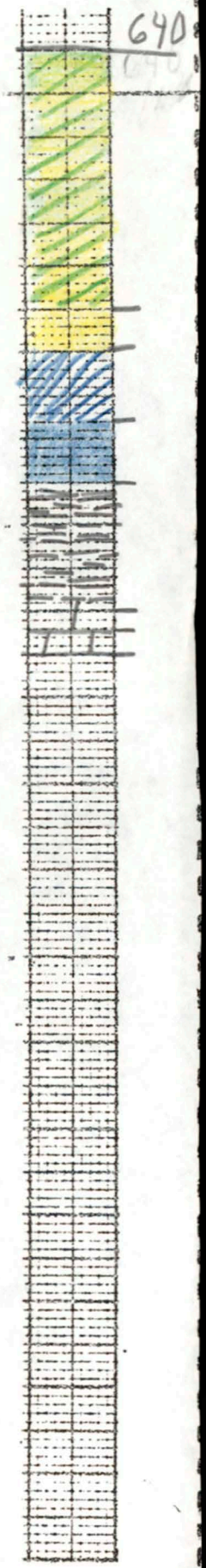
(7)

16 T. 8N R. 6E
Eliz. town quad
Bartholomew Co.



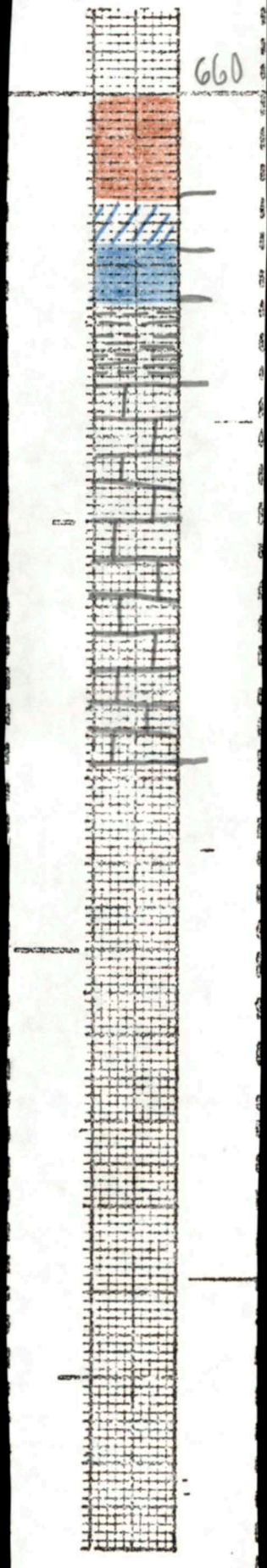
(6.)

15 T. 8N. R. 6E
Eliz. town quad
Bartholomew Co.



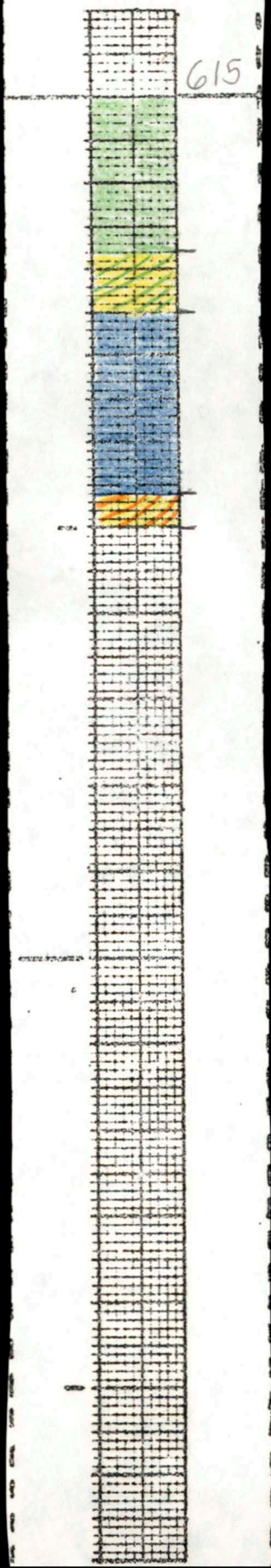
(5.)

12 T. 8N. R. 6E
Eliz Town quad
Bartholomew Co.



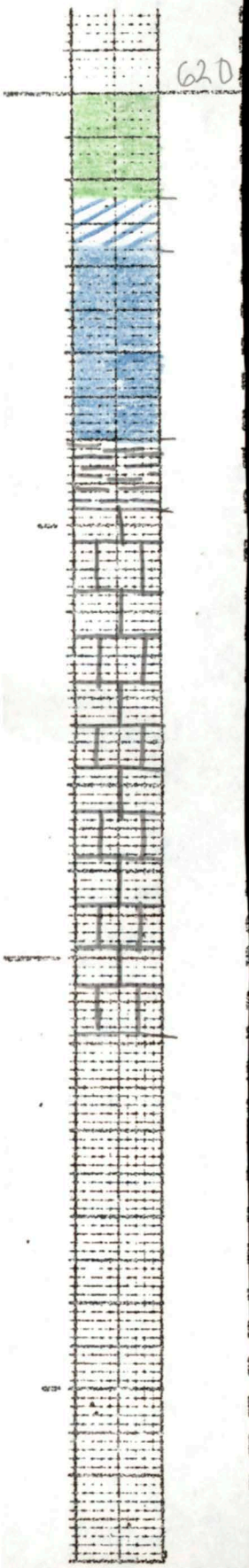
(4)

5 T. 8N. R. 6E.
Eliz Town quad
Bartholomew Co.



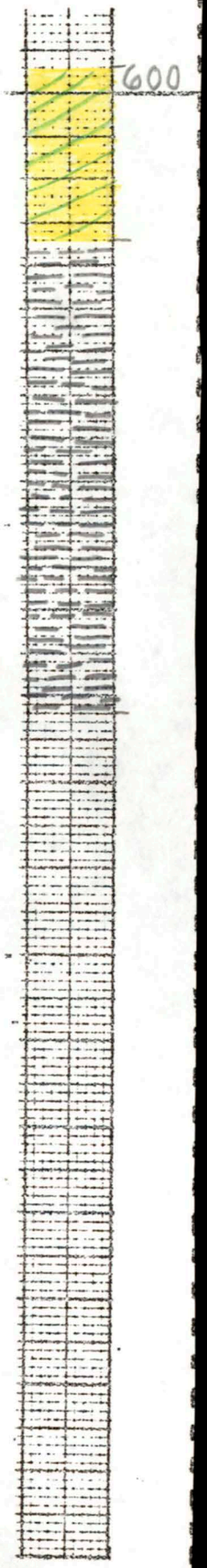
(12)

22 T. 8N R. 6E
Zalia quad
Bartholomew Co.



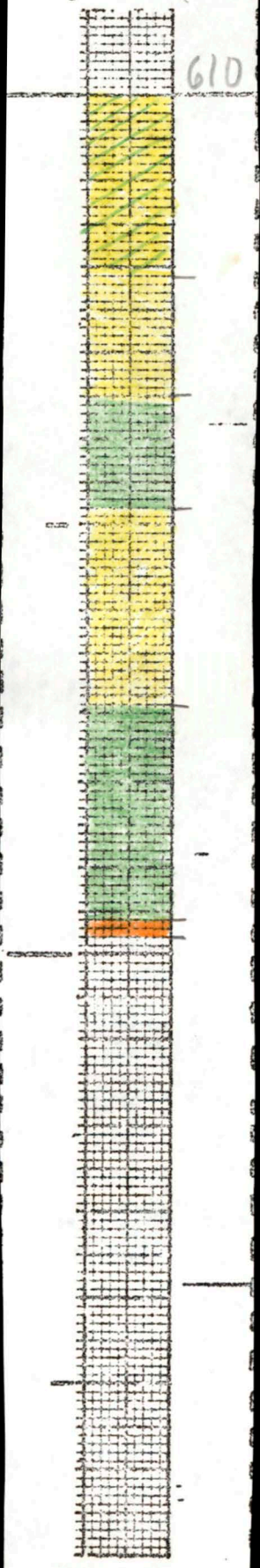
(11)

19 T. 8N R. 6E
Jonesville quad
Bartholomew Co.



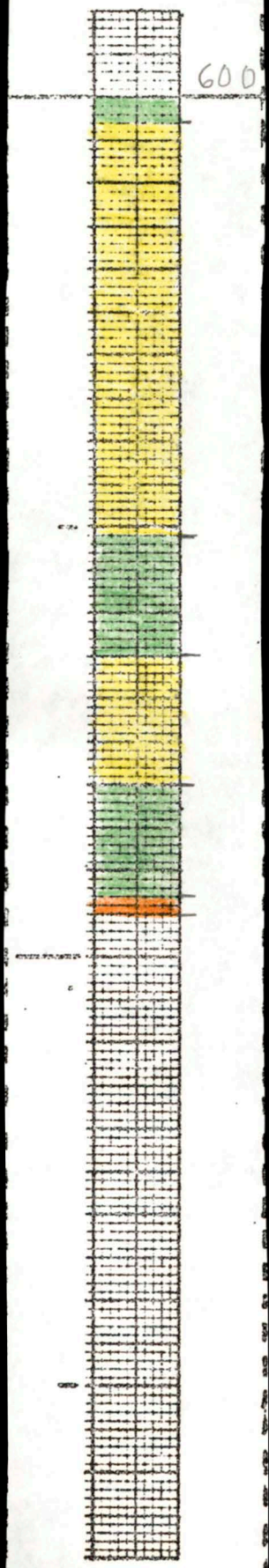
(10)

16 T. 8N R. 6E
Eliz. twn quad
Bartholomew Co.



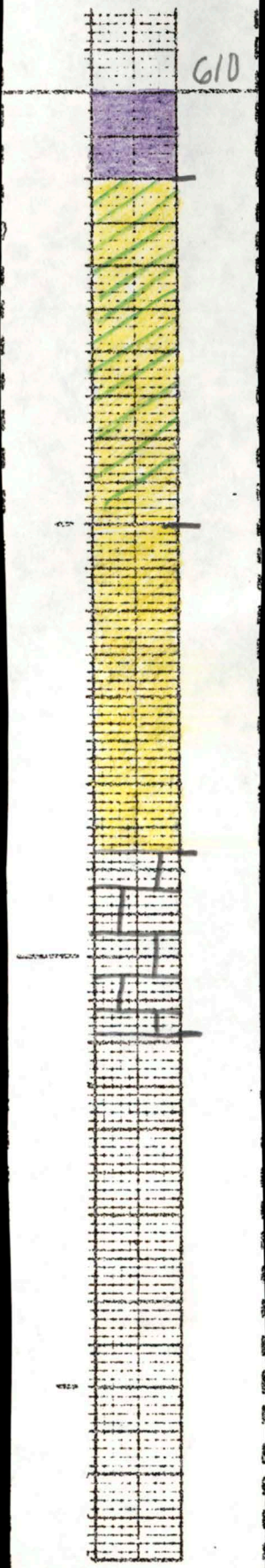
(9)

16 T. 8N R. 6E
quad
Co.



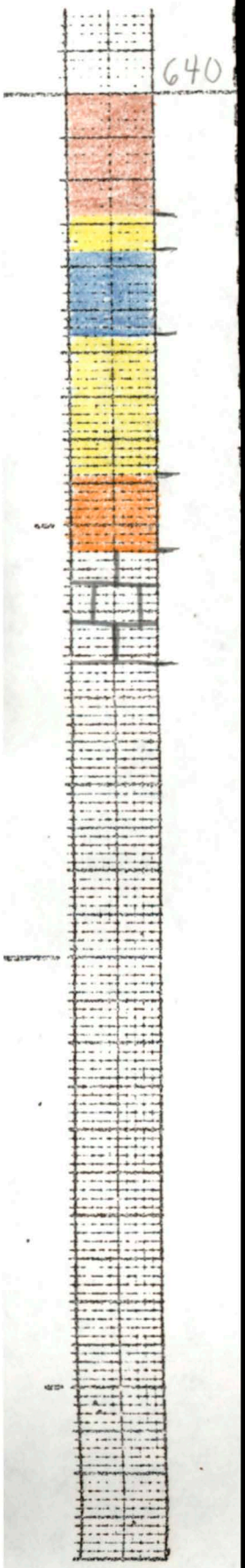
(8)

16 T. 8N. R. 6E.
Eliz. twn quad
Bartholomew Co.



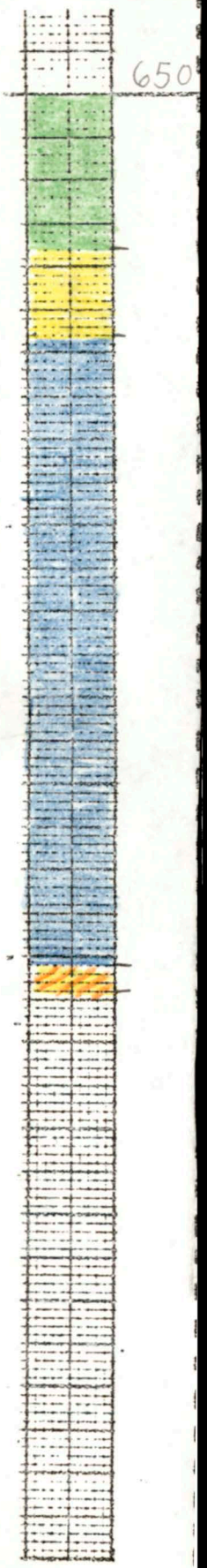
(17)

14 T.9N. R.6E
Eliz. Town quad
Barth. Co.



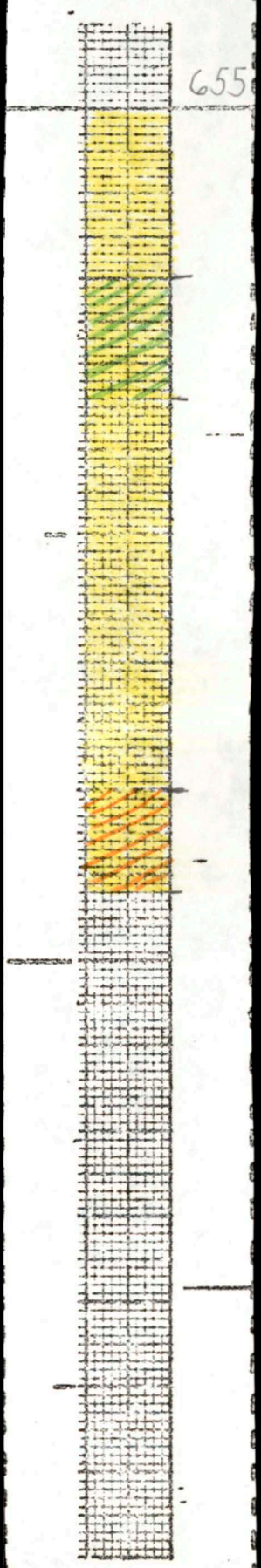
(16)

33 T.9N. R.6E
Eliz. Town quad
Barth. Co.



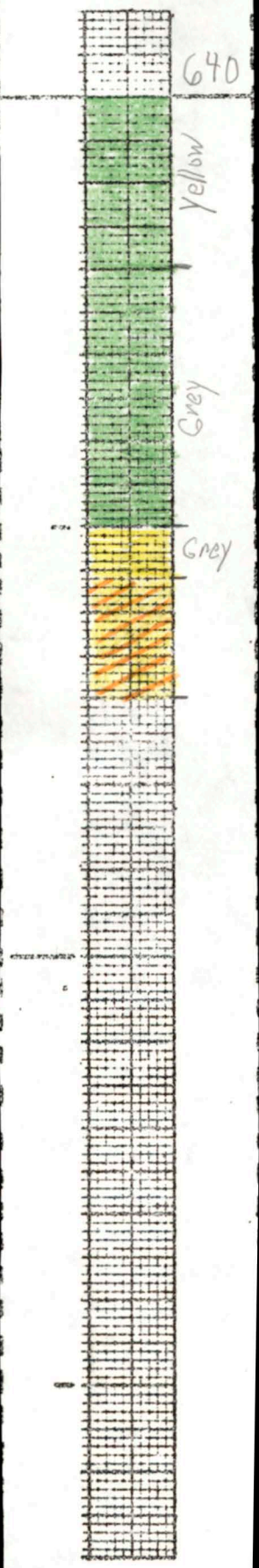
(15)

33 T.9N R.6E
quad
Co.



(14)

32 T.9N R. 6E.
Columbus quad
Barth. Co.



(13)

32 T.9N. R. 6E.
Columbus quad
Barth. Co.