KERAMIDA
ENVIRONMENTAL, INC.
ENGINEERING • CONSULTING • REMEDIATION
AIR • LAND • WATER • WASTE

330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034
email: keramida@keramida.com
web page: www.keramida.com

REMEDIATION WORK PLAN
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E

VOLUME 2
Attachments 1-8 and 10-11

Submitted To:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
William Wieringa, Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

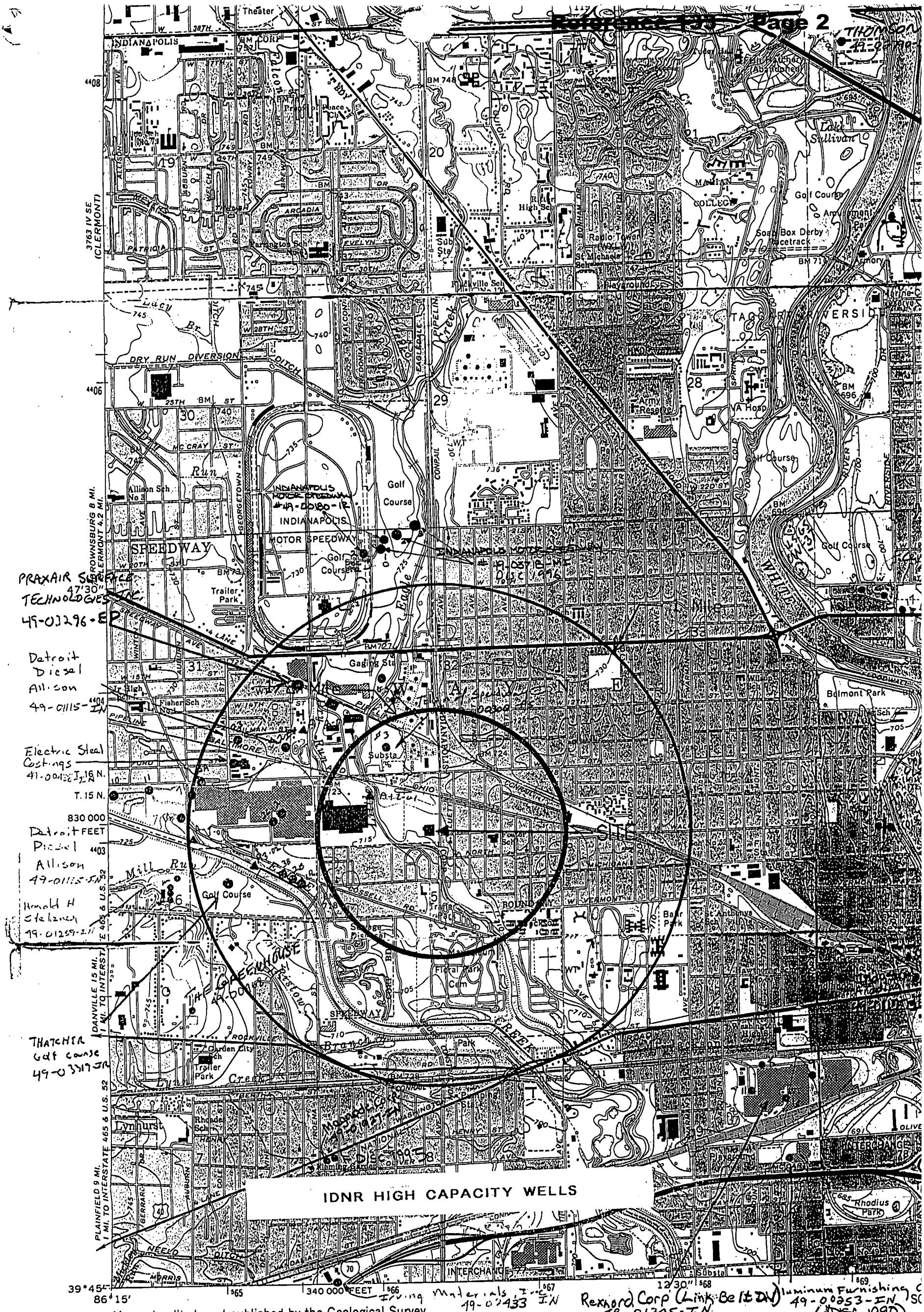
Submitted For:

GENUINE PARTS COMPANY
Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Submitted By:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

October 30, 2002



Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and Indiana Flood Control and Water Resources Commission

Planimetry by photogrammetric methods from aerial photographs taken 1941. Topography by planetable surveys 1946
Revised from aerial photographs taken 1966. Field checked 1967

Polyconic projection
10,000-foot grid based on Indiana coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue. 1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 1 meter south and 1 meter west as shown by dashed corner ticks

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Red tint indicates areas in which only landmark buildings are shown

49-00300-PS

SIGNIFICANT WATER WITHDRAWAL FACILITY REGISTRATION

State Form 20094

SEND TO: INDIANA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER
ROOM 605 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
TELEPHONE (317) 232-4160

AUTHORITY: IC 13-2-6.1-7 requires that every person who has a significant water withdrawal facility shall register it with the Natural Resources Commission. A "significant water withdrawal facility" means the water withdrawal facilities of a person that, in the aggregate from all sources and by all methods, has the capability of withdrawing more than one hundred thousand (100,000) gallons of ground water, surface water or ground and surface water combined in one (1) day; however, this does not include water withdrawal facilities located in or on an off-stream impoundment that is principally supplied by a significant water withdrawal facility.

NOTE: GPM = Gallons Per Minute, GPD = Gallons Per Day, MGD = Million Gallons Per Day
DETAILED DIRECTIONS ARE PROVIDED ON THE SEPARATE ENCLOSED INSTRUCTION SHEET

OWNER OF WATER WITHDRAWAL FACILITY

(Please Type or Print)

Owner's Name	Phone	Contact Person (if other than owner)	Phone
Town of Speedway	241-9766	Michael Littlejohn Supt.	241-9766

Mailing Address	Mailing Address
1450 N. Lynhurst Dr.	Same
City, State, Zip	**City, State, Zip**
Speedway, In. 46224	Same

WATER USE

Water to be used for the following purposes. Check one or more as appropriate (GW = Ground water/SW = Surface water)

	Supply sources/circle			Supply sources/circle			Supply sources/circle	
☒ Public Water Supply	GW	SW	☐ Livestock Watering	GW	SW	☐ Power Generation	GW	SW
☒ Drinking Water/Sanitary Facilities	GW	SW	☐ Cooling Water	GW	SW	☐ Heating/Air Conditioning	GW	SW
☐ Agricultural Irrigation	GW	SW	☐ Process Water	GW	SW	☐ Recreational Use	GW	SW
☐ Golf Course Irrigation	GW	SW	☐ Coal Preparation	GW	SW	☐ Other (Specify) _____	GW	SW
☐ Waste Assimilation	GW	SW	☐ Oil Recovery	GW	SW			
			☐ Mineral Extraction	GW	SW			

GM 1-12-90

WATER WITHDRAWAL FACILITY CAPABILITY

Total withdrawal capability of withdrawal facilities: ~~12.46~~ ~~[illegible]~~ GPD or MGD (Circle one) ~~11.766~~ ~~11.767~~ 10.603 MGD

NOTE: This total is the sum of the capabilities of all wells and surface water intakes.

SUPPLY SOURCES

Ground Water Sources	Surface Water Sources
Total number of wells ~~[illegible]~~ 12 ~~6077~~	Total number of intakes 1
Total withdrawal capability of all wells ~~9.46~~ ~~[illegible]~~ 5263 9,462,240 ~~[illegible]~~ GPM MGD or GPM (Circle one)	Total withdrawal capability of all surface water intakes ~~3.0~~ ~~[illegible]~~ 2100 MGD or GPM (Circle one)

FOR EACH WELL PROVIDE THE FOLLOWING: (Additional entries are provided on page 2)	FOR EACH SURFACE WATER INTAKE PROVIDE THE FOLLOWING: (Additional entries are provided on page 2)
A Owner's well number 2 — Pump Capacity 800 GPM	A Owner's intake number 1
Well depth 78 (ft) — Well diameter 42 (in)	Intake capacity 2,100 GPM
Aquifer utilized (check one): ☒ Sand and gravel ☐ Sand ☐ Sandstone ☐ Limestone ☐ Shale ☐ Other (Specify) _____	Source utilized (check one): ☒ River or stream ☐ Drainage ditch ☐ Lake ☐ Pond ☐ Reservoir ☐ Other (Specify) _____ — Name of body of water: Big Eagle Creek

LOCATION OF WELL:	County	Civil Township	LOCATION OF INTAKE:	County	Civil Township
	Marion	Wayne		Marion	Wayne
Township	**Range**	**Section**	**Township**	**Range**	**Section**
T 16 N or S (Circle one)	R 2 E or W (Circle one)	36	T 16 N or S (Circle one)	R 2 E or W (Circle one)	36

Nearest city or town	Nearest city or town
Speedway	Speedway
Describe location of well (Attach map or plat if possible)	Describe location of intake (Attach map or plat if possible)
N403975 E564125	N403450 E563400

Space is provided on the back of this form for a location sketch. Attach additional location sketches or maps as necessary.

SOURCE INFORMATION *(CONTINUED)*

B Owner's well number 3 — **Pump Capacity** 400 GPM
Well depth 62.5 (ft) — **Well diameter** 42 (in)

Aquifer utilized *(check one)*
- [x] Sand and gravel
- [ ] Sand
- [ ] Sandstone
- [ ] Limestone
- [ ] Shale
- [ ] Other *(Specify)* _____

LOCATION OF WELL: County: Marion — Civil Township: Wayne
Township: T 16 (N) or S *(Circle one)* — Range: R ~~4~~ 3 (E) or W *(Circle one)* — Section: ~~36~~ 32
Nearest city or town: Speedway
Describe location of well *(Attach map or plat if possible)*: N403675 E566025

B Owner's intake number _____
Intake capacity _____ GPM
Source utilized *(check one)*
- [ ] River or stream
- [ ] Drainage ditch
- [ ] Lake
- [ ] Pond
- [ ] Reservoir
- [ ] Other *(Specify)*

Name of body of water

LOCATION OF INTAKE: County — Civil Township
Township: T ____ N or S *(Circle one)* — Range: R ____ E or W *(Circle one)* — Section
Nearest city or town
Describe location of intake *(Attach map or plat if possible)*

C Owner's well number 4 — **Pump Capacity** 200 GPM
Well depth 69 (ft) — **Well diameter** 42 (in)

Aquifer utilized *(check one)*
- [x] Sand and gravel
- [ ] Sand
- [ ] Sandstone
- [ ] Limestone
- [ ] Shale
- [ ] Other *(Specify)* _____

LOCATION OF WELL: County: Marion — Civil Township: Wayne
Township: T 16 (N) or S *(Circle one)* — Range: R 2 (E) or W *(Circle one)* — Section: 36
Nearest city or town: Speedway
Describe location of well *(Attach map or plat if possible)*: N403500 E563500

C Owner's intake number _____
Intake capacity _____ GPM
Source utilized *(check one)*
- [ ] River or stream
- [ ] Drainage ditch
- [ ] Lake
- [ ] Pond
- [ ] Reservoir
- [ ] Other *(Specify)*

Name of body of water

LOCATION OF INTAKE: County — Civil Township
Township: T ____ N or S *(Circle one)* — Range: R ____ E or W *(Circle one)* — Section
Nearest city or town
Describe location of intake *(Attach map or plat if possible)*

ABANDONED 12-1-90 GM

Owner's well number 5 — **Pump Capacity** 500 GPM
Well depth 129 (ft) — **Well diameter** 50 (in)

Aquifer utilized *(check one)*
- [x] Sand and gravel
- [ ] Sand
- [ ] Sandstone
- [ ] Limestone
- [ ] Shale
- [ ] Other *(Specify)* _____

LOCATION OF WELL: County: Marion — Civil Township: Wayne
Township: T 16 (N) or S *(Circle one)* — Range: R ~~4~~ 3 (E) or W *(Circle one)* — Section: ~~36~~ 32
Nearest city or town: Speedway
Describe location of well *(Attach map or plat if possible)*: N404075 E565975

D Owner's intake number _____
Intake capacity _____ GPM
Source utilized *(check one)*
- [ ] River or stream
- [ ] Drainage ditch
- [ ] Lake
- [ ] Pond
- [ ] Reservoir
- [ ] Other *(Specify)*

Name of body of water

LOCATION OF INTAKE: County — Civil Township
Township: T ____ N or S *(Circle one)* — Range: R ____ E or W *(Circle one)* — Section
Nearest city or town
Describe location of intake *(Attach map or plat if possible)*

If owner has more than 4 wells, attach separate sheets providing above information for each additional well.

If owner has more than 4 intakes, attach separate sheets providing above information for each intake.

SOURCE INFORMATION *(CONTINUED)*

Owner's well number 6 Pump Capacity 500 GPM	B Owner's intake number
Well depth 70.5 (ft) Well diameter 42 (in)	Intake capacity GPM
Aquifer utilized *(check one)*: ☒ Sand and gravel ☐ Sand ☐ Sandstone ☐ Limestone ☐ Shale ☐ Other *(Specify)*	Source utilized *(check one)*: ☐ River or stream ☐ Drainage ditch ☐ Lake ☐ Pond ☐ Reservoir ☐ Other *(Specify)* Name of body of water
LOCATION OF WELL: County Marion Civil Township Wayne	LOCATION OF INTAKE: County Civil Township
Township T 16 N or S *(Circle one)* Range R 2 E or W *(Circle one)* Section 36	Township T ___ N or S *(Circle one)* Range R ___ E or W *(Circle one)* Section
Nearest city or town Speedway	Nearest city or town
Describe location of well *(Attach map or plat if possible)* N 403900 E 564075	Describe location of intake *(Attach map or plat if possible)*

C Owner's well number 7 Pump Capacity 600 GPM	C Owner's intake number
Well depth 65.5 (ft) Well diameter 18 (in)	Intake capacity GPM
Aquifer utilized *(check one)*: ☒ Sand and gravel ☐ Sand ☐ Sandstone ☐ Limestone ☐ Shale ☐ Other *(Specify)*	Source utilized *(check one)*: ☐ River or stream ☐ Drainage ditch ☐ Lake ☐ Pond ☐ Reservoir ☐ Other *(Specify)* Name of body of water
LOCATION OF WELL: County Marion Civil Township Wayne	LOCATION OF INTAKE: County Civil Township
Township T 16 N or S *(Circle one)* Range R 2 E or W *(Circle one)* Section 36	Township T ___ N or S *(Circle one)* Range R ___ E or W *(Circle one)* Section
Nearest city or town Speedway	Nearest city or town
Describe location of well *(Attach map or plat if possible)* N 404025 E 563825	Describe location of intake *(Attach map or plat if possible)*

D Owner's well number 8 Pump Capacity 305 GPM	D Owner's intake number
Well depth ~~60~~ 56 (ft) Well diameter 36 (in)	Intake capacity GPM
Aquifer utilized *(check one)*: ☒ Sand and gravel ☐ Sand ☐ Sandstone ☐ Limestone ☐ Shale ☐ Other *(Specify)*	Source utilized *(check one)*: ☐ River or stream ☐ Drainage ditch ☐ Lake ☐ Pond ☐ Reservoir ☐ Other *(Specify)* Name of body of water
LOCATION OF WELL: County Marion Civil Township Wayne	LOCATION OF INTAKE: County Civil Township
Township T 16 N or S *(Circle one)* Range R 2 E or W *(Circle one)* Section 36	Township T ___ N or S *(Circle one)* Range R ___ E or W *(Circle one)* Section
Nearest city or town Speedway	Nearest city or town
Describe location of well *(Attach map or plat if possible)* N 403800 E 563100	Describe location of intake *(Attach map or plat if possible)*
Owner has more than 4 wells, attach separate sheets providing above information for each additional well.	If owner has more than 4 intakes, attach separate sheets providing above information for each intake.

SOURCE INFORMATION *(CONTINUED)*

B Owner's well number 9 **Pump Capacity** 305 GPM
Well depth ~~60~~ 64 (ft) **Well diameter** 36 (in)

Aquifer utilized *(check one)*
- [x] Sand and gravel
- [ ] Sand
- [ ] Sandstone
- [ ] Limestone
- [ ] Shale
- [ ] Other *(Specify)*

LOCATION OF WELL: County: Marion; Civil Township: Wayne
Township: T 16 N or S *(Circle one)*; Range: R 2 E or W *(Circle one)*; Section: 36
Nearest city or town: Speedway
Describe location of well *(Attach map or plat if possible)*: N404050 E562950

B Owner's intake number _____
Intake capacity _____ GPM

Source utilized *(check one)*
- [ ] River or stream
- [ ] Drainage ditch
- [ ] Lake
- [ ] Pond
- [ ] Reservoir
- [ ] Other *(Specify)*

Name of body of water

LOCATION OF INTAKE: County; Civil Township
Township: T ____ N or S *(Circle one)*; Range: R ____ E or W *(Circle one)*; Section
Nearest city or town
Describe location of intake *(Attach map or plat if possible)*

C Owner's well number 10 **Pump Capacity** 596 GPM
Well depth 60 (ft) **Well diameter** 36 (in)

Aquifer utilized *(check one)*
- [x] Sand and gravel
- [ ] Sand
- [ ] Sandstone
- [ ] Limestone
- [ ] Shale
- [ ] Other *(Specify)*

LOCATION OF WELL: County: Marion; Civil Township: Wayne
Township: T 16 N or S *(Circle one)*; Range: R 2 E or W *(Circle one)*; Section: 36
Nearest city or town: Speedway
Describe location of well *(Attach map or plat if possible)*: N404175 E563225

C Owner's intake number _____
Intake capacity _____ GPM

Source utilized *(check one)*
- [ ] River or stream
- [ ] Drainage ditch
- [ ] Lake
- [ ] Pond
- [ ] Reservoir
- [ ] Other *(Specify)*

Name of body of water

LOCATION OF INTAKE: County; Civil Township
Township: T ____ N or S *(Circle one)*; Range: R ____ E or W *(Circle one)*; Section
Nearest city or town
Describe location of intake *(Attach map or plat if possible)*

D Owner's well number 11 **Pump Capacity** 682 GPM
Well depth ~~50~~ 46 (ft) **Well diameter** 18 (in)

Aquifer utilized *(check one)*
- [x] Sand and gravel
- [ ] Sand
- [ ] Sandstone
- [ ] Limestone
- [ ] Shale
- [ ] Other *(Specify)*

LOCATION OF WELL: County: Marion; Civil Township: Wayne
Township: 16 N or S *(Circle one)*; Range: R 2 E or W *(Circle one)*; Section: 36
Nearest city or town: Speedway
Describe location of well *(Attach map or plat if possible)*: N404675 E562800

If owner has more than 4 wells, attach separate sheets providing above information for each additional well.

D Owner's intake number _____
Intake capacity _____ GPM

Source utilized *(check one)*
- [ ] River or stream
- [ ] Drainage ditch
- [ ] Lake
- [ ] Pond
- [ ] Reservoir
- [ ] Other *(Specify)*

Name of body of water

LOCATION OF INTAKE: County; Civil Township
Township: T ____ N or S *(Circle one)*; Range: R ____ E or W *(Circle one)*; Section
Nearest city or town
Describe location of intake *(Attach map or plat if possible)*

If owner has more than 4 intakes, attach separate sheets providing above information for each intake.

SOURCE INFORMATION (CONTINUED)

Owner's well number 12 Pump Capacity 656 GPM	B Owner's intake number
Well depth ~~58~~ 72 (ft) Well diameter 36 (in)	Intake capacity GPM
Aquifer utilized (check one): ☒ Sand and gravel ☐ Limestone ☐ Sand ☐ Shale ☐ Sandstone ☐ Other (Specify)	Source utilized (check one): ☐ River or stream ☐ Pond ☐ Drainage ditch ☐ Reservoir ☐ Lake ☐ Other (Specify) — Name of body of water
LOCATION OF WELL: County Marion; Civil Township Wayne	LOCATION OF INTAKE: County; Civil Township
Township T 16 N or S (Circle one); Range R 2 E or W (Circle one); Section 36	Township T ___ N or S (Circle one); Range R ___ E or W (Circle one); Section
Nearest city or town: Speedway	Nearest city or town
Describe location of well (Attach map or plat if possible): N404850 E562725	Describe location of intake (Attach map or plat if possible)

C Owner's well number 13 Pump Capacity 503 GPM	C Owner's intake number
Well depth 58 (ft) Well diameter ~~36~~ 16 (in)	Intake capacity GPM
Aquifer utilized (check one): ☒ Sand and gravel ☐ Limestone ☐ Sand ☐ Shale ☐ Sandstone ☐ Other (Specify)	Source utilized (check one): ☐ River or stream ☐ Pond ☐ Drainage ditch ☐ Reservoir ☐ Lake ☐ Other (Specify) — Name of body of water
LOCATION OF WELL: County Marion; Civil Township Wayne	LOCATION OF INTAKE: County; Civil Township
Township T 16 N or S (Circle one); Range R 2 E or W (Circle one); Section 36	Township T ___ N or S (Circle one); Range R ___ E or W (Circle one); Section
Nearest city or town: Speedway	Nearest city or town
Describe location of well (Attach map or plat if possible): N404825 E563100	Describe location of intake (Attach map or plat if possible)

D Owner's well number 14R Pump Capacity 524 GPM	D Owner's intake number
Well depth ~~58~~ 61 (ft) Well diameter 1830 (in)	Intake capacity GPM
Aquifer utilized (check one): ☒ Sand and gravel ☐ Limestone ☐ Sand ☐ Shale ☐ Sandstone ☐ Other (Specify)	Source utilized (check one): ☐ River or stream ☐ Pond ☐ Drainage ditch ☐ Reservoir ☐ Lake ☐ Other (Specify) — Name of body of water
LOCATION OF WELL: County Marion; Civil Township Wayne	LOCATION OF INTAKE: County; Civil Township
Township T 16 N or S (Circle one); Range R 2 E or W (Circle one); Section 36	Township T ___ N or S (Circle one); Range R ___ E or W (Circle one); Section
Nearest city or town: Speedway	Nearest city or town
Describe location of well (Attach map or plat if possible): N404950 E563050	Describe location of intake (Attach map or plat if possible)
If owner has more than 4 wells, attach separate sheets providing above information for each additional well.	If owner has more than 4 intakes, attach separate sheets providing above information for each intake.

LOCATION OF WATER USE

5

Is the location of water use the same as the withdrawal facility? ☐ Yes ☒ No

If no, please complete	State	County	Civil Township
	Indiana	Marion	Wayne

Describe location of water use *(Attach map or plat if possible)*

Town of Speedway (See Attached Map)

LOCATION OF DISCHARGE POINT(S)

6

Is a portion of the water withdrawn returned to some source through a discharge facility? ☒ Yes ☐ No

If yes is checked, please complete the following. If no is checked, please proceed to section 7.

Estimated percentage of water withdrawn which is returned to some source 9.0 %

Water will be discharged to the following: *(Check one or more as appropriate)*

☐ Well ☐ Lake ☐ Drainage Ditch ☐ Storm Sewer ☐ Land Application
☐ Pond ☐ Reservoir ☐ River or Stream ☒ Sanitary Sewer ☐ Customer Service Connections
☐ Other *(Specify)* _____

Location of discharge facility:	State	County	Civil Township
	Indiana	Marion	Wayne

Township	Range	Section
T 16 N or S *(Circle one)*	R 2 E or W *(Circle one)*	36

Describe location of discharge facility *(Attach map or plat if possible)*

Discharge facillity located at water plant. (See Map)

If more than one point of discharge, please attach separate sheets providing the above information for each discharge point.

STATEMENT OF AFFIRMATION

7

I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is to the best of my knowledge and belief, true, accurate and complete.

Owner or authorized representative's signature	Date
Michael Feinholm	8/31/84

JK

WATER WITHDRAWAL FACILITY LOCATION SKETCH (Locate facility with reference to water supply, numbered roads, highways, buildings, or distinctive landmarks.) This section may be divided for additional maps or separate maps or plats may be attached.

FOR OFFICE USE ONLY	Date Received 9-4-84	County Marion	Basin West Frok White	Registration No. 49-00300-PS
UTM.N ~~403450~~ 403975	UTM.E ~~563400~~ 564125	Township 16N	Range 2E	Section 36
				Topographic Map Indpls. West & Clermont

WM07

N

SEP 1984
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DEPT OF
NATURAL RESOURCES
DIVISION OF WATER

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DIVISION OF WATER

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209

(29)

WATER WELL RECORD

INFORMATION ON WELL LOCATION

nty in which well was drilled: MARION Civil Township:

gressional township: Range: Number of section:

(Fill in as completely as possible)

cribe in your own words the well location with respect to nearby towns, roads, streets distinctive landmarks: 3659 W. Cossell Road (300N)

e of owner: FLORAL PARK CEMETARY Address: 3659 COSSELL RD

e of Well Drilling Contractor: HAMILTON BROS INC.

ss:

e of Drilling Equipment Operator: JOE STOVALL

INFORMATION ON THE WELL

pleted depth of well: 46 ft. Date well was completed: 7/23/70

meter of outside casing or drive pipe: 4" ~~4½"~~ Length: 45'

meter of inside casing or liner: Length:

meter of Screen: 3' Length: 5' PVC material Slot size: #40

e of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ HANDPUMP ☑

hod of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

tic water level in completed well (Distance from ground to water level) ft.

ler Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

Test: Hours tested 2 Rate 10 g.p.m. ~~Drawdown~~ ft.

Signature

Date 7/23/70

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	[illegible]
Sand	[illegible]	15
Clay	15	30
Sand	30	46

FOR ADMIN: 01-01 4033
(Well driller ....t)

COUNTY: Marion
TWP. 15N RGE. 3E SE ¼ NW ¼ SE ¼ SEC. 5
Topo Map: Lindsay West
Well log classified By ____ Date ____ Ft W of EL. Ground elevation 710
Courthouse located By ____ Date ____ Ft N of SL. Depth to bedrock ____
Field located By MCBN Date 1992 Ft E of WL. Bedrock elevation ____
Acc. w/o verification By ____ Date ____ Ft S of NL. Aquifer elevation 664

UTM NORTH	4402385
UTM EAST	566615
**COMMENTS	MC 664

RKS:

J

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water

38

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

OCT 1971
RECEIVED
DIVISION OF WATER

WATER WELL RECORD

#1

Permit # 1487

INFORMATION ON WELL LOCATION

nty in which well was drilled: Marion Civil Township:

gressional township: Range: Number of section:

(Fill in as completely as possible)

cribe in your own words the well location with respect to nearby towns, roads, streets distinctive landmarks:

e of owner: Floral Park Cemetery Address: 3659 Cassell Rd

e of Well Drilling Contractor: Hamilton Bros Inc

s:

e of Drilling Equipment Operator: Rash

INFORMATION ON THE WELL

pleted depth of well: 50' ft. Date well was completed: 8-23-71

meter of outside casing or drive pipe: 4" ~~Blk~~ Length: 52'

meter of inside casing or liner: Length:

meter of Screen: 3" Length: 5' PVC material Slot size: #40

e of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

tic water level in completed well (Distance from ground to water level) ft.

er Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

pi Test: Hours tested 2 Rate 18 g.p.m. ~~Drawdown~~ ~~22~~ 22' ft.

Signature Rash

Date 8-23-71

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Top soil	0	1
Sand	1	24
Clay	24	40
Sand	40	43
Clay	43	47
Sand	47	50

RKS:

01-01 180326

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY: Marion TWP. 15 N RGE. 3 E ¼ ¼ ¼ SEC. 5

Topo Map: Ft West 7½ Indianapolis West

Well log classified By N Date 3-2-3
Courthouse located By ___ Date ___
Field located By ___ Date ___
Acc. w/o verification By ___ Date ___

___ Ft W of EL. Ground elevation ___
___ Ft N of SL. Depth to bedrock ___
___ Ft E of WL. Bedrock elevation ___
___ Ft S of NL. Aquifer elevation ___

Comete

I

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a
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y be of great assistance in the planning and development of new water supplies.
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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted
n thirty days after the completion of a well to the Division of Water Resources, Indiana
tment of Conservation.

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209

2

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: Marion Civil Township: _____

essional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

ibe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: _____

of owner: Floral Park Cemetery Address: 3659 Cornell Rd

of Well Drilling Contractor: Hamilton Bros Inc

of Drilling Equipment Operator: Rash

INFORMATION ON THE WELL

eted depth of well: 48' ft. Date well was completed: 8-24-71

ter of outside casing or drive pipe: 4" Blk Length: 45'

ter of inside casing or liner: _____ Length: _____

ter of Screen: 3" Length: 5' PVC material Slot size: #40

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

f Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

d of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

c water level in completed well (Distance from ground to water level) _____ ft.

r Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

n est: Hours tested 2 Rate 10 g.p.m. ~~Drawdown~~ 16 ft.

Signature Rash

Date 8-24-71

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To

RKS:

FOR ADMINISTRATIVE U[illegible]LY
(Well driller does not fi[illegible] out)

01-01 180256

COUNTY: Mason TWP. 15N RGE. 31 ¼ ¼ ¼ SEC. 5

Topo Map: T. West Dr. Dodge West

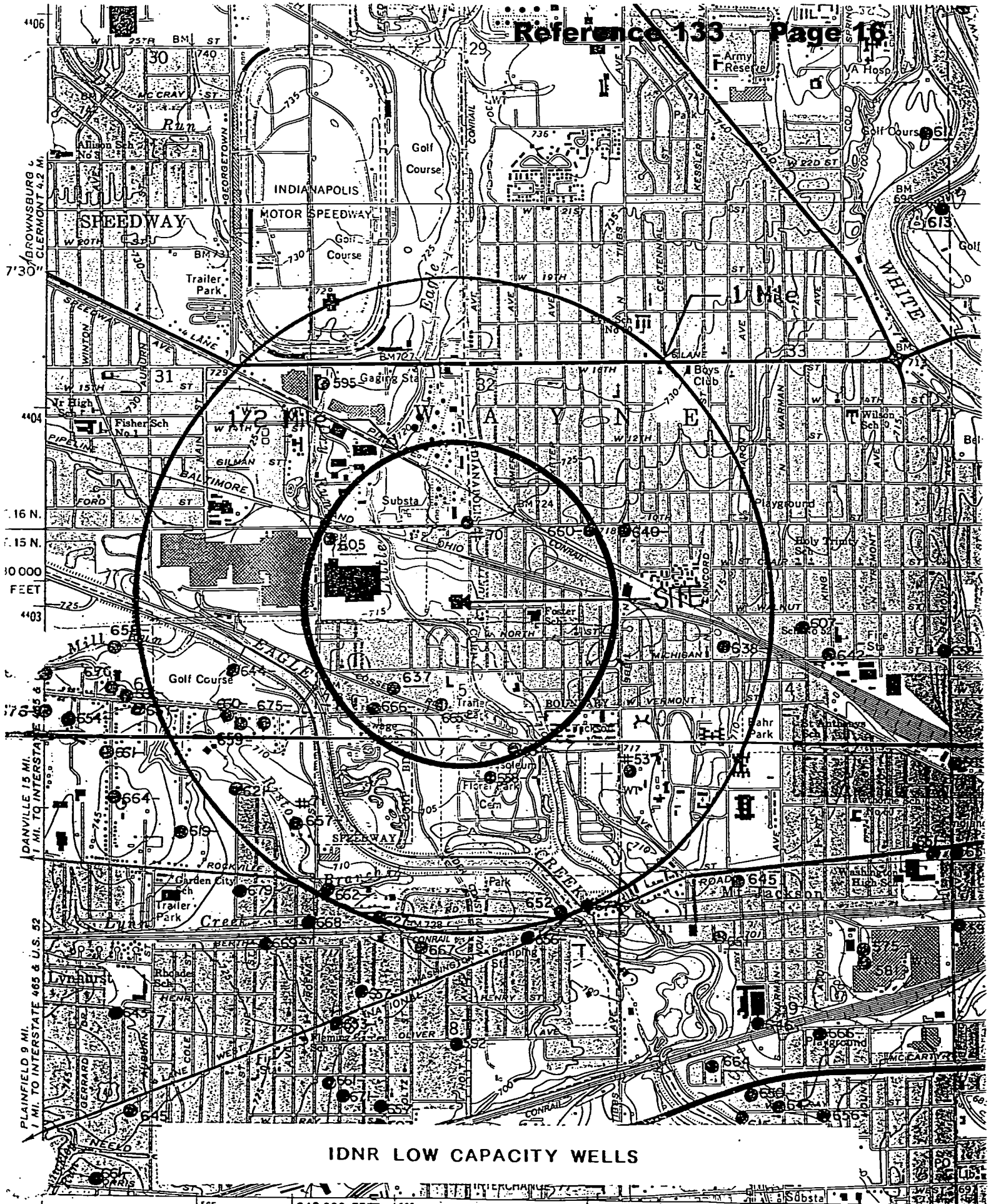
Well log classified By [illegible] Date 3-7-3
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By ____ Date ____

____ Ft W of EL. Ground elevation ____
____ Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
____ Ft S of NL. Aquifer elevation ____

Cemet.

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water



IDNR LOW CAPACITY WELLS

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and Indiana Flood Control and Water Resources Commission

~~2560N~~
~~6215E~~

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

Permit 9/10

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

3908 W Cossell Road
300 N

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Fred Strait Address

Building Contractor Address

e of Well Drilling Contractor: Hamilton Bros., Inc.
P.O. Box 24181, Indpls, Ind. 46224

e of Drilling Equipment Operator: Henry Arthur

LL INFORMATION

h of well: 50' Date well was completed: 11/13/77

neter of casing or drive pipe: 4" (p.v.c.) material Total Length: 47'

neter of liner (if used): Total Length:

neter of Screen: 4" Length: 3' Slot Size: .060

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

of Well: For Home ☒ For Industry ☐ For Public Supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

c water level in completed well (Distance from ground to water level) feet

r Test: Hours Tested Rate g.p.m. Drawdown ft.

est: Hours Tested 1 Rate 13 g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR AI 01 54037 LY
(We

COUNTY MARION TWP. 15N RGE. 3E NE ¼ NE ¼ SW SEC 5

Topo Map INDIANAPOLIS WEST

Field Located By MCBN Date 1992

Courthouse Location By _____ Date _____

Location accepted w/o verification by BRUNS 2-17-93

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation 715

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation 665

Subdivision Name _____

Lot Number _____

UTM NORTH 4402560

UTM EAST 5662 15

**COMMENTS MC 665

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Topsoil and Clay	0	10
Gravel	10	20
Clay	20	50

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

JUN 1966
RECEIVED
Dept. of Nat. Resources
Division of Water

WATER WELL RECORD

INFORMATION ON WELL LOCATION

nty in which well was drilled: Marion Civil Township: _____

gressional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

cribe in your own words the well location with respect to nearby towns, roads, streets distinctive landmarks: Southeast edge of Speedway at 4010 Cossell Road.

e of owner: Cossell Florists Address: 4010 Cossell Road Indianapolis, Indiana

e of Well Drilling Contractor: Willard English & Son

: R. R. # 1 Clayton, Indiana

e of Drilling Equipment Operator: Dester Harnesss

INFORMATION ON THE WELL

pleted depth of well: 270 ft. Date well was completed: June 3, 1966

meter of outside casing or drive pipe: ~~4½ in.~~ 4.5 Length: 80 ft.

meter of inside casing or liner: 4 ~~in.~~ Length: _____

meter of Screen: _____ Length: _____ Slot size: _____

e of Well: Drilled [x] Gravel Pack [ ] Driven [ ] Other _____

of Well: For home [x] For industry [ ] For public supply [ ] Stock [ ]

nod of Drilling: Cable Tools [ ] Rotary [x] Rev. Rotary [ ] Jet [ ] Driven [ ]

tic water level in completed well (Distance from ground to water level) 70 ft.

ler Test: Hours tested _____ Rate 10 g.p.m. Drawdown 220 ft. (Difference between static level and water level at end of test)

ping Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

9

Signature Dester Harness

Date June 3, 1966

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS

WATER WELL LOG

ATIONS (Color, type of material, hardness, etc.)	From	To
Clay Gray	1	10
Sand Brown	10	37
Clay Blue	37	80
Shale Black	80	190
Limestone	190	270

~~717~~
~~790~~
~~527~~ ~~Dev. Ls. Top~~ ?

S:
~~Had a Mission to bedrock imp by WZH 3-4-69~~

01-01 180311 MINISTRATIVE USE ONLY
(Driller does not fill out)

COUNTY: [illegible] TWP. 15N RGE. 3E SW ¼ NE ¼ NW ¼ SEC. 5

Topo Map: [illegible]

Well log classified By CB Date 7-66
Courthouse located By ___ Date ___
Field located By [illegible] Date 1-74
Acc. w/o verification By ___ Date ___

___ Ft W of EL. Ground elevation 717±
2800 Ft N of SL. Depth to bedrock 80
1700 Ft E of WL. Bedrock elevation 637
___ Ft S of NL. Aquifer elevation ___

UTM NORTH ___
UTM EAST ___
**COMMENTS MC ✓

Tops

9

INSTRUCTIONS

is Water Well Record form is designed to record the most essential data concerning a ell. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ent of Conservation.

~~66449E~~

525

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

(27)

WATER WELL RECORD

INFORMATION ON WELL LOCATION

nty in which well was drilled: MARION Civil Township: WAYNE

ngressional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

scribe in your own words the well location with respect to nearby towns, roads, streets distinctive landmarks: AT MAUSOLEUM FLORAL PARK CEMETERY COSSEL DR.

ne of owner: FLORAL PARK CEMETERY Address: COSSEL DR.

ne of Well Drilling Contractor: HARLAN MILLER WELL & PUMP CO.

: 1726 HAMBLEN W. DR. INDIANAPOLIS 31, IND.

e of Drilling Equipment Operator: JOHN WINKLER

INFORMATION ON THE WELL

npleted depth of well: 53' ft. Date well was completed: 8-1-61

ameter of outside casing or drive pipe: 4" Length: 50'

ameter of inside casing or liner: — Length: —

ameter of Screen: 3" Length: 6' Slot size: #6

pe of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

e of Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

thod of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

atic water level in completed well (Distance from ground to water level) 14 ft.

iler Test: Hours tested 1 Rate 20 g.p.m. Drawdown 21 ft. (Difference between static level and water level at end of test)

mping Test: Hours tested — Rate — g.p.m. Drawdown — ft.

Signature Harlan Miller

Date 8-30-61

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
CLAY	0	33'
GRAVEL & WATER	33'	53'

KS:

FOR ADMIN (Well Drill 01-01 32 Y out)

COUNTY: [illegible] TWP. 15N RGE. 5E SW ¼ NW ¼ SE ¼ SEC. 5

Topo. Map: S-Indianapolis West Loc. accepted w/o verification Yes ✓ No ___

El. of grnd. surface at well: 711 Courthouse Loc. By ___ Date ___

Depth to bedrock: ___ Field Located By MCBN Date 1992

Well Log processed by: [illegible] Placed in Master Well Log File Date 2-3-62

(Ag el-658)

UTM NORTH 4402215

UTM EAST 506490

**COMMENTS MC 658

INSTRUCTIONS

his Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana nent of Conservation, 311 West Washington Street, Indianapolis, Indiana.

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

State Form 35680

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township

ving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

North of Washington St. on Tibbs Ave. to Cossell Road. West to 3910 Cossell Road.

AME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner _____ Address _____

Building Contractor Andrew Kerl Address 3910 Cossell Road Indianapolis, Indiana

me of Well Drilling Contractor: Mills Pump & Well Drilling, Inc.

ss 2508 West Michigan St. Indianapolis, Indiana

of Drilling Equipment Operator: Russell Mills

ELL INFORMATION

epth of well: 53 ft. Date well was completed: Feb. 25, 1981

iameter of casing or drive pipe: 4 ~~in.~~ Total Length: 50 ft.

iameter of liner (if used): _____ Total Length: _____

iameter of Screen: 4 ~~in.~~ Length: 3 ~~ft.~~ Slot Size: 40

ype of Well: Drilled [x] Gravel Pack [ ] Driven [ ] Other _____

se of Well: For Home [x] For Industry [ ] For Public Supply [ ] Stock [ ]

lethod of Drilling: Cable Tools [ ] Rotary [x] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

tatic water level in completed well (Distance from ground to water level) 15 feet

ailer Test: Hours Tested 1 Rate 10 g.p.m. Drawdown 25 ft.

ur g Test: Hours Tested _____ Rate _____ g.p.m. Drawdown _____ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature _____

Date Feb. 25, 1981

01-01 180321

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY MARION TWP. 15N RGE. 5E ¼ NE ¼ SW SEC 5

Topo Map INDIANAPOLIS WEST

Subdivision Name

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by [illegible] 5/1/81

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay Gray	1	17
Clay Blue	17	45
Sand Blue	45	53

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

Permit # 477

RECEIVED MAY 1977 DEPT. OF NATURAL RESOURCES DIVISION OF WATER

WATER WELL RECORD

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled Marion Civil Township

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, Lot Number, distinctive landmarks, etc.

4012 Cossell Raod

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Leon Podigo Address

Building Contractor Podigo & Young Address

Name of Well Drilling Contractor: Hamilton Bros., Inc

Address P.O. Box 24181, Indpls., Ind 46224

Name of Drilling Equipment Operator: Ed Randolph

WELL INFORMATION

Depth of well: 62' Date well was completed: 1/13/77

Diameter of casing or drive pipe: 4" ~~steel~~ SS material Total Length: 59'

Diameter of liner (if used): Total Length:

Diameter of Screen: 4" Length: 3' Slot Size: .060

Type of Well: Drilled [XX] Gravel Pack [ ] Driven [ ] Other

Use of Well: For Home [XX] For Industry [ ] For Public Supply [ ] Stock [ ]

Method of Drilling: Cable Tools [XX] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

Static water level in completed well (Distance from ground to water level) feet

Bailer Test: Hours Tested Rate g.p.m. Drawdown ft.

Pumping Test: Hours Tested 1 Rate 10 g.p.m. ~~Drawdown~~ P.L. ~~25~~ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR AI 01-0 54036 ONLY
(W

COUNTY Marion TWP. 17N RGE. 3E SW ¼ SE ¼ NW SEC 5

Topo Map Inpls, West

Field Located By MCBN Date 1992

Courthouse Location By _____ Date _____

Location accepted w/o verification by W.H. 7/7/77

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation 717

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation 655

Subdivision Name _____

Lot Number _____

UTM NORTH 4402600

UTM EAST 5660060

**COMMENTS MC _____

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	1	Topsoil and Clay
1	35	Sand and Gravel
35	62	Brown Clay

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

Permit # 417

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

~~West~~ ~~300 N~~

4012 W. Cossell Rd. (300 N)

IE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Address

Building Contractor Address

e of Well Drilling Contractor:

e of Drilling Equipment Operator:

LL INFORMATION

h of well: Date well was completed:

meter of casing or drive pipe: 55 material Total Length:

meter of liner (if used): Total Length:

meter of Screen: Length: Slot Size:

e of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

of Well: For Home ☒ For Industry ☐ For Public Supply ☐ Stock ☐

hod of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

ic water level in completed well (Distance from ground to water level) feet

er Test: Hours Tested Rate g.p.m. Drawdown ft.

p Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180246

COUNTY MARION TWP. 15 N RGE. 3E ¼ ¼ SEC 5 Subdivision Name

Topo Map INDIANAPOLIS WEST 7½

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by BRUNS 2-11-77

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
[illegible]	0	1
[illegible]	1	85
[illegible]	35½	62½

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

.L LOCATION

(Fill in completely - Refer to instruction sheet)

ity in which well was drilled [illegible] Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

4017 [illegible]

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [illegible] Address

Building Contractor Address

of Well Drilling Contractor: [illegible] Inc.

P.O. Box [illegible], Indpls., Ind. 46224

of Drilling Equipment Operator: [illegible]

.L INFORMATION

of well: 54' Date well was completed: 3/25/77

eter of casing or drive pipe: ~~[illegible]~~ 55 material Total Length:

eter of liner (if used): Total Length:

eter of Screen: 3' Length: ~~[illegible]~~ 3' Slot Size: .060

of Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

f Well: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

d of Drilling: Cable-Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

st: Hours Tested 1 Rate 12 g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR AT 01- 54034 ILY ~~54034~~
(W

COUNTY Marion TWP. 15N RGE. 3E NW ¼ NE ¼ SW ¼ SEC 17 Subdivision Name

Topo Map Indpls. West

Field Located By MCBN Date 1992 ____ Ft W of EL. Ground Elevation 717

Courthouse Location By ____ Date ____ ____ Ft N of SL. Depth to bedrock ____

Location accepted w/o verification by WH 7/7/77 ____ Ft E of WL. Bedrock elevation ____

____ Ft S of NL. Aquifer elevation 663 Lot Number ____

UTM NORTH 4402550
UTM EAST 566060
**COMMENTS MC

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Topsoil and Clay	0	35
Sand and Gravel	35	[illegible]

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

1975 SEP 11 RECEIVED DEPT OF NATURAL RESOURCES DIVISION OF WATER

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

y in which well was drilled Marion Civil Township

g directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

4019 W. Cossell Road, Indianapolis, In. 46222

~~5021~~

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Darell Gillaspie Address 4019 Cossell Road Indianapolis, In. 46222

Building Contractor Address

e of Well Drilling Contractor: Clayton Ottinger

Route # 3, Box 162, Zionsville, In. 46077

e of Drilling Equipment Operator: Wm Stovall

LL INFORMATION

pth of well: 41 ~~ft.~~ Date well was completed: Sept. 5, 1975

meter of casing or drive pipe: 4 ~~in.~~ Total Length: 41 ~~ft.~~

meter of liner (if used): Total Length:

meter of Screen: Length: Slot Size: # 40 Cooks

pe of Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

e of Well: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

thod of Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

tic water level in completed well (Distance from ground to water level) 22 feet

ller Test: Hours Tested ~~2~~ Rate ~~500~~ ~~g.p.m.~~ Drawdown ~~8~~ ft.

g Test: Hours Tested 2 Rate ~~500~~ 10 GPM ~~g.p.m.~~ Drawdown 8 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Clayton Ottinger

Date Sept. 8, 1975

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

0 1 180236

FOR ADMINIS TIVE USE ONLY
(Well drille oes not fill out)

COUNTY MARION TWP. 15N RGE. 3E ¼ NE ¼ SW SEC 5

Topo Map INDIANAPOLIS WEST

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by TMB 9-15-75

_____ Ft W of EL.
_____ Ft N of SL.
_____ Ft E of WL.
_____ Ft S of NL.

Ground Elevation _____
Depth to bedrock _____
Bedrock elevation _____
Aquifer elevation _____

Subdivision Name _____
Lot Number _____

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	6	Brown clay
6	15	Dry Gravel
15	18	Brown clay & gravel
18	23	Sand, water
23	25	Gray clay
25	41	Water gravel
41		T.D.

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

MAR 22 REC'D BUREAU ENVIRONMENTAL

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unty in which well was drilled Marion Civil Township

ving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Eugene Williams Address 4020 Cassell Rd

Building Contractor Address

ne of Well Drilling Contractor: Hamilton Bros Inc.

lr

of Drilling Equipment Operator: Rack

LL INFORMATION

th of well: 51'

Date well was completed: 1-30-73

meter of casing or drive pipe: 4" Total Length: 51

meter of liner (if used): Total Length:

meter of Screen: 4" Length: 3' Slot Size:

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

of Well: For Home ☑ For Industry ☐ For Public Supply ☐ Stock ☐

od of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

c water level in completed well (Distance from ground to water level) ~~[illegible]~~ feet

r Test: Hours Tested ~~[illegible]~~ 5 Rate 18 g.p.m. Drawdown ft.

ping Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR WELL LOG SPACE USE REVERSE

FOR ADMINI[illegible]ATIVE USE ONLY
(Well driller does not fill out)

01-01 180241

COUNTY Marion TWP. 15N RGE. 3 E ____ ¼ ____ ¼ ____ SEC. 5 Subdivision Name

Topo Map ~~I. West 7½~~ Indpls West

Field Located By ____ Date ____

Courthouse Location By ____ Date ____

Location accepted w/o verification by ____

____ Ft W of EL.
____ Ft N of SL.
____ Ft E of WL.
____ Ft S of NL.

Ground Elevation ____
Depth to bedrock ____
Bedrock elevation ____
Aquifer elevation ____ Lot Number ____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
[illegible]	0	5
Sand	5	35
Clay	35	51

~~545 700 E~~

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209

Permit # 1028

WATER WELL RECORD

INFORMATION ON WELL LOCATION

nty in which well was drilled: MARION Civil Township: _____

gressional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

cribe in your own words the well location with respect to nearby towns, roads, streets

distinctive landmarks: _____

e of owner: Robert Norman Address: 4024 COSSELL Rd

e of Well Drilling Contractor: Hamilton Brown Inc

ss: _____

e of Drilling Equipment Operator: Terry Hamilton

INFORMATION ON THE WELL

pleted depth of well: 59' ft. Date well was completed: 11/7/70

meter of outside casing or drive pipe: 4 ~~[illegible]~~ Length: 57'

meter of inside casing or liner: _____ Length: _____

meter of Screen: 3" Length: 2' ~~[illegible]~~ PVC material Slot size: #6

e of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

of Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Driven ☐

tic water level in completed well (Distance from ground to water level) _____ ft.

er Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Test: Hours tested 2 Rate 10 g.p.m. ~~Drawdown~~ PL ~~[illegible]~~ ft.

D

Signature Terry Hamilton

Date 11/7/70

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	30
Sand	30	40
Clay	40	57
Sand	57	60

RKS:

FOR ADMIN 01-01
(Well drille.

COUNTY: Marion TWP. 15N RGE. 3E SE ¼ SW ¼ NW ¼ SEC. 5

Topo Map: Indianapolis West

Well log classified By ____ Date ____
Courthouse located By ____ Date ____
Field located By MCBN Date 1992
Acc. w/o verification By ____ Date ____

____ Ft W of EL. Ground elevation 718
____ Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
____ Ft S of NL. Aquifer elevation 658

UTM NORTH 4402625
UTM EAST 565960
**COMMENTS MC

D

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as y be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. e include all information possible in the space provided for well location. As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water

23

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

WATER WELL RECORD

INFORMATION ON WELL LOCATION

unty in which well was drilled: MARION Civil Township: _____

ngressional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

scribe in your own words the well location with respect to nearby towns, roads, streets

distinctive landmarks: 4025 COSSEL RD

ne of owner: LON MATHIS Address: 2

ne of Well Drilling Contractor: HAMILTON BROS INC

: 4025 ROCKVILLE RD

of Drilling Equipment Operator: WHEELER

INFORMATION ON THE WELL

pleted depth of well: 40 ft. Date well was completed: _____

meter of outside casing or drive pipe: ~~[illegible]~~ 4.25 Length: _____

meter of inside casing or liner: _____ Length: _____

meter of Screen: ~~[illegible]~~ 4.25 Length: 5 Slot size: _____

e of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Driven ☐

tic water level in completed well (Distance from ground to water level) _____ ft.

ler Test: Hours tested 1 Rate 10 g.p.m. Drawdown 23 ft. (Difference between static level and water level at end of test)

ping Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature _____

Date _____

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
LAY	0	11
AND	11	22
LAY	22	26
AND	26	40

KS:

FOR ADMINISTRATIVE U[illegible]ONLY
(Well Driller does not [illegible]il out) 01-01 180251

COUNTY: Marion TWP. 15N RGE. 3E ¼ ¼ NW ¼ SEC. 5

Topo. Map: Maywood Loc. accepted w/o verification Yes ✓ No ___

El. of grnd. surface at well: ___ Courthouse Loc. By ___ Date ___

Depth to bedrock: ___ Field Located By ___ Date ___

Well Log processed by: LWD 1/26/62 M Placed in Master Well Log File Date 2-3-62

INSTRUCTIONS

his Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

(2)

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ity in which well was drilled: Marion Civil Township: _____

ressional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

istinctive landmarks: Speedway

of owner: Chas Green Address: 4042 W. Vermont St

of Well Drilling Contractor: Manford Dean

841 West Summer ave

f Drilling Equipment Operator: Niles Crow

INFORMATION ON THE WELL

eted depth of well: 35 ft. Date well was completed: Sept 22-1961

ter of outside casing or drive pipe: ~~4½~~ 4.5 Length: 35

ter of inside casing or liner: 4 Length: 35

ter of Screen: 3" Length: ~~4'5"~~ 4.5 Slot size: 6

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) 20 ft.

Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Test: Hours tested ~~1½~~ 1.5 Rate 10 g.p.m. Drawdown 0 ft.

Signature Manford Dean

Date Dec 16-61

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
Yellow clay	0	6
Sandy Hard pan	5	18
Dry Sand	18	25
Sand and Gravel	25	35

RKS: [illegible]

graphic log

01 180630

FOR ADMINISTRATIVE [illegible] ONLY
(Well Driller does not [illegible]ll out)

COUNTY: Marion TWP. 15N RGE. 3E SE ¼ SW ¼ NW ¼ SEC. 5

Topo. Map: Indianapolis West Loc. accepted w/o verification Yes ✓ No ___

El. of grnd. surface at well: ___ Courthouse Loc. By ___ Date ___

Depth to bedrock: ___ Field Located By ___ Date ___

Well Log processed by: [illegible] Placed in Master Well Log File Date 4-3-67

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as y be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. e include all information possible in the space provided for well location. As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

~~452 525 N~~
~~565 555 E~~

(11)

RECORD OF WATER WELL
State Form 35680 (R3 / 11-87)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

completely)

WELL LOCATION

ity where drilled	Civil township	Township	Range	Section
Marion		Wayne		

ing directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there pace for a map on reverse side (From Indianapolis)

W on Michigan Rd. from Holt Rd. to Gasoline Alley, South go straight to Vermont East to 4120 (Do Not Cross River)

OWNER - CONTRACTOR

e of well owner: Mr. & Mrs. Fred Mueller 400N	Telephone Number: (317) 244-7590
ess (Street and number, city, state): 4120 W. Vermont 4100W Indpls IN	ZIP code: 46222
e of building contractor: —	Telephone number: (T
ess (Street and number, city, state): —	ZIP code: —
e of drilling contractor: Joseph Huser Services Inc.	Telephone number: (317) 784-4264
ess (Street and number, city, state): 728 S. Emerson Indpls IN	ZIP code: 46237

e ipment operator	License number	Date of completion
wn R Corey	436	9/89

CONSTRUCTION DETAILS

of well:
Home ☐ Industry ☐ Test ☐ Irrigation
Public supply ☐ Stock ☐ Other (specify):
od of drilling: ☒ Rotary ☐ Rev. rotary
Cable tool ☐ Jet ☐ Bucket rig ☐ Other

ng length	Material	Diameter
18 CAL feet	PVC	5 inches
en length	Material	Diameter
3 feet	~~STAINLESS~~ SS	4 inches

en slot size: .035
Total depth of well: 50 FT.
h of pump setting: 45 FT.
Water quality (Clear, cloudy, odor, etc.): OK
of pump ☐ Shallow-well jet
Submersible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

k one ☒ Air ☐ Pumping
Test rate: 20 gpm 1 hrs.
Bailing
wdown feet
Static level (depth to water): 18 feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
BROWN CLAY	0	7
SANDY CLAY	7	11
SAND + GRAVEL	11	39
GREY CLAY	39	45
SAND + GRAVEL	45	50

(Additional space for well log on reverse side)

UTING INFORMATION

aterial	Depth of grout	Sealing material	Depth filled
TONITE	From 4 To 40		From To
hod of installation	Number of bags used	Method of installation	Number of bags used
mped	1 1/2		

WELL ABANDONMENT

Sealing material	Depth filled
	From To
Method of installation	Number of bags used

ereby swear or affirm, under the penalties for perjury that information submitted herewith is to the best of my

Signature of owner of authorized representative

Date

RECEIVED NOV 1989 DEPT. OF NATURAL RESOURCES DIVISION OF WATER

FOR A/ (wel 01 54027

County	Township	Range		Section
Marion	15N	3E	NE ¼ NW ¼ SW	5

Topo map: Indpls. West	Ft. W of EL	Ground elevation: 716	Subdivision name
Field located By: MCBN Date: 1992	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation: 666	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

UTM NORTH 440 2525
UTM EAST 565885
**COMMENTS MC 666

W

E

COU. MARION TWP. 15N RGE. 3E ¼ SW ¼ SW 5 Subdivision

Reference 133 Page 43

Topo Map INDIANAPOLIS WEST 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by BRUNS 12-21-82

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL RECORD

PERMIT NO.

NTY CIVIL TOWNSHIP

MARION

ING DIRECTIONS

4140 W. VERMONT

. OWNER BUILDING CONTRACTOR DRILLING EQUIPMENT OPERATOR

DONALD STEVENS DESTER HARNESS

WELL INFORMATION

CASING DIAMETER	CASING LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
4" PVC (material)	32			4	4	60	DRILLED	HOME	ROTARY	11/08/82

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
20				1	10	~~25 P/L~~

TIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
SOIL & CLAY	0	15
/EL	15	36

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

STATE COPY

(1)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

State Form 35680

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township

ving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Guy Crawford Address 4018 West Vermont

Building Contractor Address

e of Well Drilling Contractor: Matlock Well Drilling

re 401 West Morris St.

ot Drilling Equipment Operator: Jerry Oakley

LL INFORMATION

h of well: 75' Date well was completed: 1/15/81

eter of casing or drive pipe: 4" Total Length: 75'

eter of liner (if used): Total Length:

eter of Screen: 4" Length: 5' Slot Size: #6

of Well: Drilled [x] Gravel Pack [ ] Driven [ ] Other

f Well: For Home [x] For Industry [ ] For Public Supply [ ] Stock [ ]

od of Drilling: Cable Tools [ ] Rotary [x] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

water level in completed well (Distance from ground to water level) 20 feet

Test: Hours Tested 1 Rate 5 g.p.m. Drawdown ft.

ing Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Allen Matlock

Date 1/15/81

FOR WELL LOG SPACE

01-01 180316

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY MARION TWP. 15N RGE. 3E ¼ NW ¼ SW SEC. 5 Subdivision Name

Topo Map INDIANAPOLIS WEST ~~7½~~

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by BRUNS 2-19-81

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Top Soil	0	3
Overburden	~~10~~ 3	10
Gravel	10	38
Overburden	38	75

(3)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

State Form 35680

RECEIVED

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unty in which well was drilled Marion Civil Township

iving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

South of Michigan St. on Roena to Vermont. East to 4044 W. Vermont

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Albert Ray Address 4044 W. Vermont Indianapolis, Indiana

Building Contractor Address

me of Well Drilling Contractor: Mills Pump & Well Drilling, Inc.

dr 2508 W. Michigan St. Indianapolis, Indiana a

of Drilling Equipment Operator: Russell Mills

LL INFORMATION

pth of well: 75 ~~ft.~~ Date well was completed: Jan. 29, 1981

meter of casing or drive pipe: 4 ~~in.~~ Total Length: 72 ~~ft.~~

meter of liner (if used): Total Length:

meter of Screen: 4~~in.~~ Length: 3 ~~ft.~~ Slot Size: 40

e of Well: Drilled [x] Gravel Pack [ ] Driven [ ] Other

of Well: For Home [x] For Industry [ ] For Public Supply [ ] Stock [ ]

nod of Drilling: Cable Tools [ ] Rotary [x] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ic water level in completed well (Distance from ground to water level) 20 feet

r Test: Hours Tested 1 Rate 10 g.p.m. Drawdown 10 ft.

ping Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Russell Mills

Date Jan. 29, 1981

FOR WELL LOG

FOR AD 01 54035 LY
(We

COUNTY MARION TWP. 15N RGE. 3E NW ¼ NE ¼ SW ¼ SEC. 5 Subdivision Name

Topo Map INDIANAPOLIS WEST

Field Located By MCBN Date 1992

Courthouse Location By _____ Date _____

Location accepted w/o verification by BROWNS 12-21-82

_____ Ft W of EL.
_____ Ft N of SL.
_____ Ft E of WL.
_____ Ft S of NL.

Ground Elevation 717
Depth to bedrock _____
Bedrock elevation _____
Aquifer elevation 642
Lot Number _____

UTM NORTH 4402525
UTM EAST 566010
**COMMENTS MC

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay Gray	1	21
Clay Blue	21	70
Sand Bleu	70	75

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

RECEIVED 1974 DEPT. OF NATURAL RESOURCES DIVISION OF WATER

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unty in which well was drilled Marion Civil Township

ving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Gerald Franck Address 4060 W. Vermont

Building Contractor Address

ne of Well Drilling Contractor: Hamilton Bros., Inc.

ress 4025 Rockville Road

t Drilling Equipment Operator: John Osborne

LL INFORMATION

th of well: 57' Date well was completed: 11-22-73

meter of casing or drive pipe: 4" ~~Blk.~~ Total Length: 55

meter of liner (if used): Total Length:

meter of Screen: 4" Length: 2' Slot Size: .060

e of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

of Well: For Home ☑ For Industry ☐ For Public Supply ☐ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

ic water level in completed well (Distance from ground to water level) feet

r Test: Hours Tested Rate g.p.m. Drawdown ft.

ping Test: Hours Tested 1 Rate 10 g.p.m. ~~Drawdown~~ 30 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR WELL LOG SHEET

01-01 180615 ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY _____ TWP. _____ RGE. _____ ¼ ____ ¼ ____ SEC ____ Subdivision Name

Topo Map _____

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	6
Sand & gravel	6	40
Clay	40	57

B

01-01 . 100220

FOR ADMINISTRATIVE USE ONLY
(Well drill... does not fill out)

COUNTY Marion TWP. 15N RGE. 3E ____ ¼ ____ ¼ NW SEC 5 Subdivision Name

Topo Map Andy West ½

Field Located By ____ Date ____

Courthouse Location By ____ Date ____

Location accepted w/o verification by SLP - S.W. 6-14-79

____ Ft W of EL. Ground Elevation ____

____ Ft N of SL. Depth to bedrock ____

____ Ft E of WL. Bedrock elevation ____

____ Ft S of NL. Aquifer elevation ____ Lot Number ____

WATER WELL RECORD

COUNTY MARION

CIVIL TOWNSHIP

PERMIT NO.

DRIVING DIRECTIONS 4050 W. VERMONT

WELL OWNER

BUILDING CONTRACTOR JEFF LE MAR

DRILLING EQUIPMENT OPERATOR DESTER HARNESS

WELL INFORMATION

WELL DEPTH	CASING DIAMETER	CASING LENGTH (material)	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
70	4" PVC	67			4	3	60	DRILLED	HOME	ROTARY	5/31/79

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
25				1	10	~~35 P/L~~

FORMATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
TOPSOIL & CLAY	0	5
GRAVEL	5	40
CLAY	40	70

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

...E COPY

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

RECEIVED 1974 DEPT. OF NATURAL RESOURCES DIVISION OF WATER

(8) Permit #2925

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

IE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Ken Boger Address 4110 W. Vermont

Building Contractor Address

e of Well Drilling Contractor: Hamilton Bros. Inc.

er 4025 Rockville Rd.

r Drilling Equipment Operator: Warren Farness

L INFORMATION

h of well: 60' Date well was completed: 11-28-73

eter of casing or drive pipe: 4" PVC Total Length:

eter of liner (if used): Total Length:

eter of Screen: 4" Length: 2' Slot Size: .060

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

f Well: For Home ☑ For Industry ☐ For Public Supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

ing Test: Hours Tested 1 Rate 15 g.p.m. Drawdown ~~25~~ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR WELL LOG SHEET

FOR ADMIN -01 54030
(Well dr.

COUNTY _____ TWP. 15 N RGE. _____ ¼ ____ ¼ ____ SEC ____ Subdivision Name

Topo Map _____

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Lot Number _____

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	7	Clay
7	44	Sand + gravel
44	60	Clay

4025254
565915E

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

RECEIVED

WATER WELL RECORD

INFORMATION ON WELL LOCATION

in which well was drilled: Marion Civil Township: Wayne

ssional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

be in your own words the well location with respect to nearby towns, roads, streets

tinctive landmarks: South of Eagle Creek Park

f owner: Mr Kenneth Boyer Address: 4110 W. Vermont St.

f Well Drilling Contractor: Indianapolis Pump & Equip. Co.
2720 Brill Rd.

f Drilling Equipment Operator: Joe Storall

INFORMATION ON THE WELL

eted depth of well: 40 ft. Date well was completed: 6-15-61

ter of outside casing or drive pipe: 4.5 ~~4½~~ Length: 32

ter of inside casing or liner: _____ Length: _____

ter of Screen: 3" Length: ~~5~~ 5.4 Slot size: #6 ga

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

f Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

d of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

c water level in completed well (Distance from ground to water level) 20 ft.

r Test: Hours tested 3 Rate 15 g.p.m. Drawdown 30 ft. (Difference between static level and water level at end of test)

est: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature Violet R Storall

Date 8-3-61

WATER WELL LOG **Reference 133** **Page 54**

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Red Clay	0	18
Gravel & Sand	18	28
Blue Mud	28	34
Sand	34	36
Red Gravel	36	40

~~715~~ ~~715~~ ~~715~~
~~-40~~ ~~-20~~
~~675~~ ~~695~~ S

FEET W OF EL
FEET N OF SL 2750
FEET E OF WL 1000
FEET S OF NL
BEDROCK ELEV
UTM NORTH
UTM EAST
SUBDIVISION
LOT #
**COMMENTS MC

UTM NORTH 4400525
UTM EAST 565915
**COMMENTS MC

RKS: graphic log

COUNTY: Marion ~~405525N~~ ~~565915E~~ (Well 01-01 180281 ONLY out) 54031
Topo. Map: Indianapolis West TWP. 15N RGE. 3E SE ¼ SW NW ¼ SEC. 35
El. of grnd. surface at well: 715 Loc. accepted w/o verification Yes ___ No ___
Depth to bedrock: ___ Courthouse Loc. ___ By ___ Date ___
Well Log processed by: Hale Field Located ✓ By D. Jordan Date 2/1962
Placed in Master Well Log File Date ___

1000' WL & 2750' SL

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

(a)

RECORD OF WATER WELL

State Form 35680 (R3 / 11-87)

..completely)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

WELL LOCATION

County where drilled	Civil township	Township	Range	Section
Marion		Wayne		

Driving directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there ...s space for a map on reverse side.

GO WEST ON MICHIGAN STREET FROM HOLT ROAD TO GASOLINE ALLEY, 500:- 4100
GO SOUTH AND STRAIGHT (DO NOT CROSS RIVER) TO VERMONT, THEN EAST TO 4110.

OWNER - CONTRACTOR

Name of well owner: n/m Ken Boger — Telephone Number: (317) 244-9707

Address (Street and number, city, state): 4110 W. Vermont Indpls IN — ZIP code: 46222

Name of building contractor: — — Telephone number: ( ) —

Address (Street and number, city, state): — — ZIP code: —

Name of drilling contractor: Joseph Huser Services Inc. — Telephone number: (317) 784-4264

Address (Street and number, city, state): 5728 S. Emerson Indpls IN — ZIP code: 46237

Name of equipment operator: WM R. COREY — License number: 436 — Date of completion: 10/89

CONSTRUCTION DETAILS

Use of well: [X] Home [ ] Industry [ ] Test [ ] Irrigation [ ] Public supply [ ] Stock [ ] Other (specify): ____

Method of drilling: [X] Rotary [ ] Rev. rotary [ ] Cable tool [ ] Jet [ ] Bucket rig [ ] Other

Casing length	Material	Diameter
36 feet	PVC	5 inches

Screen length	Material	Diameter
3 feet	STAINLESS SS	4 inches

Screen slot size: .035

Total depth of well: 38 FT

Depth of pump setting: 34 FT.

Water quality (Clear, cloudy, odor, etc.): OK

Type of pump: [ ] Shallow-well jet [X] Submersible [ ] Deep-well jet [ ] Other (specify): ____

WELL CAPACITY TEST

Check one: [X] Air [ ] Bailing [ ] Pumping

Test rate: 20 gpm 1 hrs.

Drawdown: ____ feet

Static level (depth to water): 13 feet

GROUTING INFORMATION

Material	Depth of grout	Sealing material	Depth filled
BENTONITE	From 4 To 30		From To

Method of installation	Number of bags used	Method of installation	Number of bags used
HAND	1.5		

WELL ABANDONMENT

I hereby swear or affirm, under the penalties for perjury that ... Signature of owner of authorized ...

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
CLAY	0	15
SAND + GRAVEL	15	38

(Additional space for well log on reverse side)

RECEIVED DEC 1989 DIVISION OF WATER

01-01 180271

FOR ADMIN[illegible]ATIVE USE ONLY
(well drill[illegible]es not fill out) ~~54029~~

County: Marion	Township: 15N	Range: 3E	NW ¼ NW ¼ SW	Section: 5
Topo map: Unaywood ~~7½~~				
Field located By / Date	Ft. W of EL	Ground elevation: 716	Subdivision name	
Courthouse location By / Date	Ft. N of SL	Depth to bedrock	Lot number	
Location accepted w/o verification by	Ft. E of WL	Bedrock elevation	U.T.M.	
(continued from front side)	Ft. S of NL	Aquifer elevation: 678		

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

MAY 1974 RECEIVED DEPT. OF NATURAL RESOURCES DIVISION OF WATER

10

Permit #2925

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Ken Boger Address 4110 W. Vermont

Building Contractor Address

f Well Drilling Contractor: Hamilton Bros, Inc.
4625 Lockville Rd.

f Drilling Equipment Operator: Warren Parness

INFORMATION

of well: 60' Date well was completed: 11-28-73

er of casing or drive pipe: 4" Blk. Total Length:

er of liner (if used): Total Length:

er of Screen: 4" Length: 2' Slot Size: .060

f Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

Well: For Home ☑ For Industry ☐ For Public Supply ☐ Stock ☐

l of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

st: Hours Tested 1 Rate 15 g.p.m. Drawdown ~~28~~ ft.

(Drawdown is the difference between static level and water level at end of test)

A

Signature

Date

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

MAY 1974 RECEIVED DEPT. OF NATURAL RESOURCES DIVISION OF WATER

Permit #2925

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Ken Boger Address 4110 W. Vermont

Building Contractor Address

f Well Drilling Contractor: Hamilton Bros. Inc.
4625 Lockville Rd.

f Drilling Equipment Operator: Warren Harness

INFORMATION

of well: 60' Date well was completed: 11-28-73

er of casing or drive pipe: 4" ~~Blk~~ Total Length:

er of liner (if used): Total Length:

er of Screen: 4" Length: 2' Slot Size: .060

f Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

Well: For Home ☑ For Industry ☐ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

t: Hours Tested 1 Rate 15 g.p.m. Drawdown ~~28~~ ft.

(Drawdown is the difference between static level and water level at end of test)

A

Signature

Date

-01 180276

FOR ADMINI[illegible]IVE USE ONLY
(Well drille[illegible] not fill out)

COUNTY Marion TWP. 15 N RGE. 3E ¼ SW ¼ NW SEC. 5

Topo Map [illegible] 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

716 Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Subdivision Name _____

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	7
Sand + gravel	7	44
Clay	44	60

A

01-01 180231

(27)

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY Marion TWP. 20 RGE. 3 ¼ SW ¼ NW SEC 5 Subdivision Name

Topo Map Indpls W N

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by [illegible]

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL RECORD

COUNTY MARION CIVIL TOWNSHIP PERMIT NO.

DRIVING DIRECTIONS 4036 COSSELL ROAD (N 300 & [illegible])

WELL OWNER BUILDING CONTRACTOR CAPITOL BUILDERS DRILLING EQUIPMENT OPERATOR JAMES HERMAN

WELL INFORMATION

WELL DEPTH	CASING DIAMETER	CASING LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
40	4" PVC (material)	36			4	4	60	DRILLED	HOME	ROTARY	5/03/84

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
15				1	10	~~25 P/L~~

FORMATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
TOPSOIL & CLAY	0	3
GRAVEL	3	40

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

25

WATER WELL RECORD

State Form 35680

Mail completed record within 30 days to:
DIVISION OF WATER
INDIANA DEPARTMENT OF NATURAL RESOURCES
605 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
PHONE (317) 232-4160

RECEIVED FEB 1984 DEPT. OF NATURAL RESOURCES DIVISION OF WATER

WELL LOCATION
(Fill in completely)

where drilled: Marion

wnship:

g directions to the well location (Include county road names, numbers, sub-
ns, lot number with consideration to intersecting roads and trip origina-
here is space for a map on reverse side.

tween Roena & Holt Rd
f Michigan N300 3400 W

OWNER — CONTRACTOR

Well owner: Clarence Gregory

Address: 4239 W. Cassell

Building contractor:

Address:

Drilling contractor: DEAN WELL DRILLING, INC.

Address: 1854 FRIENDSHIP DR. INDIANAPOLIS, INDIANA 46217

Equipment operator: John Aufderheide

Completion date: 10-28-79

CONSTRUCTION DETAILS

well:
ed ☐ Gravel pack ☐ Driven ☐ Other

vell:
☐ Industry ☐ Test ☐ Irrigation
supply ☐ Stock ☐ Other (specify)

of drilling:
le tool ☐ Rotary ☐ Jet ☐ Rev. rotary ☐ Bucket rig

length 50 feet	Diameter 4 inches
length 5 feet	Diameter 3 inches
slot size 30	

pump setting 40

pump
mersible ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (specify)

WELL CAPACITY TEST

one)
ng ☐ Pumping

10 gpm 1 hrs | Drawdown 12 feet

vel
water) 23 feet

ua' ear, cloudy, odor, etc.)
clear

WELL LOG

Formations: type of material	From	To
clay	0 ft.	10 ft.
sand & gravel	10	35
clay	35	45
soupy sand	45	49
sand & gravel	49	52

(Additional space for Well Log on reverse side)

John F. Aufderheide

Date: 12-13-83

01-01 180590

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

County	Twp.	Rge.		Sec.
Marion	15N	15	¼ [illegible] ¼ NW	5

Topo map: [illegible] West	Ft. W of EL	Ground elevation	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot no.
Courthouse location By Date	Ft. E of WL	Bedrock elevation	
Location accepted w/o verification by [illegible]	Ft. S of NL	Aquifer elevation	

WELL LOG
(Continued from front side)

Formations: type of material	From	To
	ft	ft

SKETCH SHOWING LOCATION
Locate with reference to highways, intersecting county roads, and distinctive landmarks.

N

W

E

RECORD OF WATER WELL

State Form 35680 (R3 / 11-87)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

mpletely)

WELL LOCATION

ty where drilled	Civil township	Township	Range	Section
MARION				

ving directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there space for a map on reverse side.

LYNHURST TO RAYMOND, GO EAST TO RYBOLT, GO NORTH, HOUSE IS ON THE WEST SIDE OF THE STREET

~~17: H-16~~

OWNER - CONTRACTOR

e of well owner: Mike Back	Telephone Number: (317)638-6404
ess (Street and number, city, state): 2946 S. RYBOLT	ZIP code: 46241
e of building contractor:	Telephone number: ( )
ess (Street and number, city, state):	ZIP code: 46241
e of drilling contractor: WATER WELLS BY WILHITE	Telephone number: (317) 257 2393
ss (Street and number, city, state): 5455 N. ALTON AVE. INDPLS, IN.	ZIP code: 46208
e of equipment operator: AN WILHITE	License number: 844 / Date of completion: 4-18-90

CONSTRUCTION DETAILS

f well:

ome ☐ Industry ☐ Test ☐ Irrigation

ublic supply ☐ Stock ☐ Other (specify): _____

d of drilling: ☒ Rotary ☐ Rev. rotary

able tool ☐ Jet ☐ Bucket rig ☐ Other

g length	Material	Diameter
37 feet	pvc	4 inches
n length	Material	Diameter
4 feet	pvc	4 inches

n slot size: .060

Total depth of well: 41'

of pump setting: 5'

Water quality (Clear, cloudy, odor, etc.):

f pump: ☒ Shallow-well jet

ubmersible ☐ Deep-well jet ☐ Other (specify): _____

WELL CAPACITY TEST

one ☒ Air

ailing ☐ Pumping

Test rate: 20 gpm 1 hrs.

own 0 feet

Static level (depth to water) 10 feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
CLAY	0	15
GRAVEL	15	41

NG INFORMATION

rial	Depth of grout	Sealing material	Depth filled
viroplug	From 0 To 30		From To
d of installation	Number of bags used	Method of installation	Number of bags used
ump	2		

WELL ABANDONMENT

(Additional space for well log on reverse side)

by swear or affirm, under the penalties for perjury that information submitted herewith is to the best of my ledge and belief, true, accurate

Signature of owner or authorized representative

Date

RECEIVED JUL 1990 NATURAL RESOURCES DIVISION OF WATER

FOR ADMINI... (well driller does) 01-01 180266

County	Township	Range		Section
Marion	15N	3E	¼ SW ¼ NW	5

Topo map			Ground elevation	Subdivision name
Maywood 7½		Ft. W of EL		
Field located By Date		Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date		Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w/o verification by		Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

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E

RECORD OF WATER WELL
State Form 35680 (R3 / 11-87)

mpletely)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

WELL LOCATION

nty where drilled	Civil township	Township	Range	Section
Marion				

ving directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there space for a map on reverse side.

3216 S. Rybolt

OWNER - CONTRACTOR

e of well owner: Agnes Davis — Telephone Number: (247-8749

ess (Street and number, city, state): 216 S. Rybolt Indianapolis, In — ZIP code: 46241

e of building contractor — Telephone number: ( )

ess (Street and number, city, state) — ZIP code

e of drilling contractor: Hamilton Bros. Inc. — Telephone number: (241-2571

ess (Street and number, city, state): 025 Rockville Rd - Indpls, In — ZIP code: 46222

e of equipment operator: id R. Harness — License number: #35 — Date of completion: 3/9/89

CONSTRUCTION DETAILS

of well:

Home ☐ Industry ☐ Test ☐ Irrigation

Public supply ☐ Stock ☐ Other (specify):

od of drilling: ☒ Rotary ☐ Rev. rotary

Cable tool ☐ Jet ☐ Bucket rig ☐ Other

g length	Material	Diameter
34 feet	P.V.C.	4 inches

n length	Material	Diameter
4 feet	P.V.C.	4 inches

n slot size: .060 — Total depth of well: 38'

of pump setting: 30' — Water quality (Clear, cloudy, odor, etc.): Clear

of pump: ☐ Shallow-well jet

Submersible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

one ☐ Air — Test rate: 10 gpm 1 hrs.

ailing ☐ Pumping

own: 10' feet — Static level (depth to water): 20 feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
Topsoil + Clay	0	6
Gravel	6	38

ING INFORMATION

al	Depth of grout	Sealing material	Depth filled
raplug	From 5 To 30		From To

d of installation	Number of bags used	Method of installation	Number of bags used
mmie	2		

WELL ABANDONMENT

(Additional space for well log on reverse side)

eby swear or affirm, under the penalties for perjury that information submitted herewith is to the best of my ledge and belief, true, accurate and complete.

Signature of owner of authorized representative — Date

FOR ADMINISTRATIVE USE ONLY 01-01 180261
(well driller does not fill out)

County	Township	Range		Section
Marion	15N	3E	¼ SW ¼ NW	5

Topo map Indpls. West 7½	Ft. W of EL	Ground elevation	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

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29.

RECORD OF WATER WELL
State Form 35680 (R3 / 11-87)

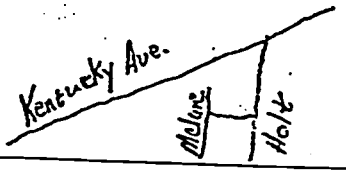
Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

...mpletely)

WELL LOCATION

...y where drilled	Civil township	Township	Range	Section
Marion				

...ng directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there ...ace for a map on reverse side.



OWNER - CONTRACTOR

...of well owner

...ss (Street and number, city, state): 3248 McClure — Telephone Number ( ) — ZIP code

...of building contractor

...s (Street and number, city, state) — Telephone number ( ) — ZIP code

...of drilling contractor: Water Wells By Wilhite — Telephone number ( )

...ss (Street and number, city, state): 7453 N. Dobson — ZIP code

...of equipment operator: Charlie Sullivan — License number: 843 — Date of completion

CONSTRUCTION DETAILS

...f well:

...ome ☐ Industry ☐ Test ☐ Irrigation

...ublic supply ☐ Stock ☐ Other (specify):

...d of drilling: ☒ Rotary ☐ Rev. rotary

...able tool ☐ Jet ☐ Bucket rig ☐ Other

...g length	Material	Diameter
25 feet	PVC	4 inches

...n length	Material	Diameter
5 feet	PVC	4 inches

...n slot size: .060 — Total depth of well: 30'

...of pump setting — Water quality (Clear, cloudy, odor, etc.): Clear

...f pump ☐ Shallow-well jet

...bmersible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

...one ☒ Air — Test rate: 7 gpm 6 hrs.

...lling ☐ Pumping

...own — Static level (depth to water): 13 feet

...feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
~~0 4~~ clay	0	4
~~4 30~~ gravel	4	30

(Additional space for well log on reverse side)

...NG INFORMATION

...d	Depth of grout	Sealing material	Depth filled
...0-Ben	From 0 To 20		From To

...d of installation	Number of bags used	Method of installation	Number of bags used
...mpel	3		

WELL ABANDONMENT

...by swear or affirm, under the penalties for perjury that ...formation submitted herewith is to the best of my ...edge and belief ...

Signature of owner of authorized representative — Date

FOR ADMINISTRATIVE U
(well driller does not f 01-01 180605

County	Township	Range		Section
Marion	15N	3E	NE ¼ NE ¼ NW	5

Topo map Maywood 7½	Ft. W of EL	Ground elevation	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

S

3750 W

WATER WELL RECORD

OCT 1966
RECEIVED
Dept. of Nat. Resources
Division of Water

INFORMATION ON WELL LOCATION

ty in which well was drilled: Marion Civil Township:

ressional township: Range: Number of section:
(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

istinctive landmarks:

(3750 W)

of owner: Harding Address: 1039 N. Luett.

of Well Drilling Contractor: Hamilton Bros Well drillers
4025 Rockville Rd

of Drilling Equipment Operator: John Golladay

INFORMATION ON THE WELL

leted depth of well: 58 ft. Date well was completed: August 12, 1966

eter of outside casing or drive pipe: 4 Inch Length: 55 ft

eter of inside casing or liner: MATERIAL (PVC) Length:

eter of Screen: 3 Inch Length: 5 ft plastic Slot size:

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

tic water level in completed well (Distance from ground to water level) 29 ft.

ler Test: Hours tested Rate g.p.m. Drawdown f . (Difference between static level and water level at end of test)

pir Test: Hours tested Rate 10 g.p.m. Drawdown 1 ft.

Signature John Golladay

Date August 12, 1966

D-6-7-0

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Fill	0	10
Gravel	10	58

0 +

30'

MARKS: graphic log

FOR ADMINIS 01-01 3779
(Well driller does not fill out)

COUNTY: Marion TWP. 16N RGE. 3E SW ¼ SW ¼ SE ¼ SEC. 32

Topo Map: Indiana West

Well log classified By [illegible] Date 10-66
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By ____ Date ____

____ Ft W of EL. Ground elevation ____
____ Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
____ Ft S of NL. Aquifer elevation ____

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a ter well. We request that you be as accurate as possible in recording this information as may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. ease include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thin thirty days after the completion of a well to the Division of Water

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

S

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Indpls. Park Bd. Address
Little Eagle Creek Park

Building Contractor Address

e of Well Drilling Contractor:

e of Drilling Equipment Operator:

LL INFORMATION

h of well: 65' Date well was completed:

eter of casing or drive pipe: 2 Total Length:

eter of liner (if used): Total Length:

eter of Screen: Length: Slot Size:

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

f Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

e water level in completed well (Distance from ground to water level) feet

r Test: Hours Tested Rate g.p.m. Drawdown ft.

est: Hours Tested Rate Few g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Source of Data: Mr. Geo. Adams, Indpls. Park Bd.
~~Signature~~

~~Date~~ McGuinness, USGS, 11-4-41

FOR ADM 01-01 180625 Y
(Well driller does ...)

COUNTY Marion TWP. 15N RGE. 3E ¼ NW ¼ NW SEC 5 Subdivision Name

Topo Map Indianapolis West

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)
		Sand & gravel
		rks: In community house, also 41¼" driven
		s, 1 outside comm. house, 23' deep; C
		1 bank of Eagle Cr. E. of comm.
		se, 2 across creek to west Latter
		are 22-25' deep.

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

S

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

ounty in which well was drilled Marion Civil Township Wayne

iving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

East of Grande Street, South of 10th Street, 150' North of South Fence, 12' W. of E. Fence

AME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Div. Address

Building Contractor Address

ame of Well Drilling Contractor: Layne Northern Company

ddress Mishawaka, IN

Drilling Equipment Operator: E. Allen

ELL INFORMATION

epth of well: 108 Date well was completed: 3/27/75

iameter of casing or drive pipe: Total Length:

iameter of liner (if used): Total Length:

iameter of Screen: Length: Slot Size:

ype of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

se of Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

ethod of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

atic water level in completed well (Distance from ground to water level) feet

iller Test: Hours Tested Rate g.p.m. Drawdown ft.

umping Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Copied from drillers log

Date 11-16-95

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

01-01 265026

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

C (Detm. Diesel) ~~Layne~~ 75-D ~~Fert~~

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NW SEC 5 Subdivision Name

Topo Map INDIANAPOLIS WEST 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by TMB 7-75

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)

From	To
0	10
10	13
13	28
28	42
42	50
50	96
96	106
106	108
108	

Brown Clay

Gray Clay

Coarse Medium to fine gravel

Gray Clay

Very Dark Gray Clay with Sand

Trees of Gravel

Gray Clay

Light Gravel with Gray Clay

Gray Clay

Brown Shale

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

S

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

ounty in which well was drilled Marion Civil Township Wayne

iving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

E. of Grande Street, South of 10th Street, 25' N. of 75-B.

AME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Address

Building Contractor Address

ame of Well Drilling Contractor: Layne Northern Company

ddress Mishawaka, IN

of Drilling Equipment Operator: E. Allen

VELL INFORMATION

epth of well: 100' Date well was completed: 4/12/75

iameter of casing or drive pipe: 12" Total Length: 91'

iameter of liner (if used): Total Length:

iameter of Screen: 12" Length: 10' material (SS) Slot Size: .050

ype of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

se of Well: For Home ☐ For Industry ☐ For ~~Public Supply~~ IGSS ☒ Stock ☐

ethod of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

tatic water level in completed well (Distance from ground to water level) feet

ailer Test: Hours Tested Rate g.p.m. Drawdown ft.

umping Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Copied from driller's log

Date 11-16-95

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

01-01 265031

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

C (Petro Diesel) Layer 75-12-B

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NW SEC 5 Subdivision Name

Topo Map INDIANAPOLIS WEST 7½

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

(TENTATIVE LOC BY TMB 7-75)

Ft W of EL Ground Elevation

Ft N of SL Depth to bedrock

Ft E of WL Bedrock elevation

Ft S of NL Aquifer elevation Lot Number

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Soft Brown Clay	0	6
Coarse medium and fine gravel	6	90
Soft Gray Clay (No gravel)	90	100
Coarse medium and fine gravel with light traces of gray clay.	90	

Date

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

(Fill in completely - Refer to instruction sheet)

LL LOCATION

ity in which well was drilled Marion Civil Township Wayne

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

of Grande St., S of 10th Street, 65' N. of S line, and 12' West of
Front Fence

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Division Address

Building Contractor Address

e of Well Drilling Contractor: Layne Northern Company

ress Mishawaka, IN

Drilling Equipment Operator: E. Allen

LL INFORMATION

th of well: 100' Date well was completed: 3/26/75

neter of casing or drive pipe: Total Length:

neter of liner (if used): Total Length:

neter of Screen: Length: Slot Size:

e of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

of Well: For Home ☐ For Industry ☐ For ~~Public Supply~~ Test ☒ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

ic water level in completed well (Distance from ground to water level) feet

er Test: Hours Tested Rate g.p.m. Drawdown ft.

ping Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Copied from driller's log

Date 11-16-95

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 265036

C (Detroit Diesel Layne 75-B Test)

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NW SEC 5 Subdivision Name

Topo Map INDIANAPOLIS WEST 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by TMB 7-75

_____ Ft W of EL. Ground Elevation 715±

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)

From	To
0	10
10	11.5
11.5	15
15	24
24	34
34	44
44	90
90	100
100	

Brown Clay + Very light traces of medium
gravel
rse to fine gravel
ft. Gray Clay, no gravel
rse to fine gravel
ft Gray Clay
and Gravel with 60% Gray
ft Gray Clay
d + Gravel with light traces of soft green clay
Brown Shale

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unty in which well was drilled Marion Civil Township Wayne

iving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

170' East of West Fence, 45' N. of South Fence

AME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Division Address

Building Contractor Address

ame of Well Drilling Contractor: Layne Northern Company

ldress Mishawaka, IN

e of Drilling Equipment Operator: E. Allen

ELL INFORMATION

pth of well: 106 Date well was completed: 3/27/75

ameter of casing or drive pipe: 12" Total Length:

ameter of liner (if used): Total Length:

ameter of Screen: 12" Length: 10' Slot Size:

pe of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

e of Well: For Home ☐ For Industry ☐ For ~~Public Supply~~ TEST ☒ Stock ☐

ethod of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

atic water level in completed well (Distance from ground to water level) feet

iler Test: Hours Tested Rate g.p.m. Drawdown ft.

mping Test: Hours Tested Rate 50 g.p.m. Drawdown ft.

(Drawdown is the differ between static level and level at end of test)

Signature Copied from driller's log

Date 11-16-95

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

01-01 265016

FOR ADMINIST[illegible]IVE USE ONLY
(Well driller does not fill out)

Det. Diesel
Layne 75-12-A Test

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NW SEC 5 Subdivision Name

Topo Map Indianapolis West 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by TMB 7-75

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Top Soil and Sand	0	7
[illegible]edium Sand and Gravel with Boulder	7	29
Clay	29	45
[illegible]rty Sand + Gravel - Some Clay	45	50
Clay	98	106
Tank	50	98

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township Wayne

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

est of Grande Street, South of 10th Street, 65' North of U line, and 2' West of East Fence

IE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Div. Address

Building Contractor Address

ne of Well Drilling Contractor: Layne Northern Company

ess Mishawaka, IN

Drilling Equipment Operator: E. Allen

LL INFORMATION

th of well: 24 Date well was completed: 4/11/75

meter of casing or drive pipe: 12" Total Length: 25'

meter of liner (if used): Total Length:

meter of Screen: 12" Length: 10' Slot Size:

e of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

of Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

tic water level in completed well (Distance from ground to water level) feet

r Test: Hours Tested Rate g.p.m. Drawdown ft.

ing Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Copied from driller's log

Date 11-16-95

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY 01-01 265021 C (Detroit Diesel Test 75-12-B Shallow Layne
(Well driller does not fill out)

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NW SEC 5 Subdivision Name

Topo Map INDIANAPOLIS WEST 7½

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

(TENTATIVE LOC. BY TMB) C

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
...wn Clay + Very light traces of medium gravel	0	10
...rse Medium to fine gravel	10	11.5
...ft Gray Clay, No Gravel	11.5	15
...rse Medium to fine gravel	15	24

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

S

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unty in which well was drilled Marion Civil Township Wayne

ving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

East of Grande St., South of 10th street, 5' North of Test well 75-12-A

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Div. Address Speedway, IN

Building Contractor _____ Address _____

me of Well Drilling Contractor: Layne Northern Company

dress Mishawaka, IN

Drilling Equipment Operator: E. Allen

ELL INFORMATION

pth of well: 50' Date well was completed: 4/7/75

meter of casing or drive pipe: 4" Total Length: 51'

meter of liner (if used): _____ Total Length: _____

meter of Screen: 4" Length: 5' Slot Size: _____

pe of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

of Well: For Home ☐ For Industry ☐ For ~~Public Supply~~ TEST ☒ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

tic water level in completed well (Distance from ground to water level) _____ feet

ler Test: Hours Tested _____ Rate _____ g.p.m. _____ Drawdown _____ ft.

nping Test: Hours Tested _____ Rate _____ g.p.m. _____ Drawdown _____ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Copied from drillers log

Date 11-16-95

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY 01-01 265011
(Well driller does not fill out)

C (Detroit Diesel Layne 75-4-A Test)

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NW SEC 5 Subdivision Name

Topo Map INDIANAPOLIS WEST 7½

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by TMB 7-75

Ft W of EL. Ft N of SL. Ft E of WL. Ft S of NL.

Ground Elevation 715 ±

Depth to bedrock

Bedrock elevation

Aquifer elevation

Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Top Soil and Sand	0	7
Medium Sand and Gravel with Boulder	7	29
Clay	45	50

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unty in which well was drilled Marion Civil Township Wayne

iving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

E of Grande Street, South of 10th Street

2' East of West Fence, 10' North of north gate

AME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Div. Address

Building Contractor Address

me of Well Drilling Contractor: Layne Northern Company

dress Mishawaka, IN

Drilling Equipment Operator: E. Allen

ELL INFORMATION

pth of well: 136' Date well was completed: 3/25/75

ameter of casing or drive pipe: 8.75" Total Length: 20'

ameter of liner (if used): Total Length:

ameter of Screen: Length: Slot Size:

pe of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

e of Well: For Home ☐ For Industry ☐ For ~~Public Supply~~ Test ☒ Stock ☐

thod of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

atic water level in completed well (Distance from ground to water level) feet

iler Test: Hours Tested Rate g.p.m. Drawdown ft.

mping Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Copied from driller's log

Date 11-16-95

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 265041

C (Detroit Diesel ~~Layne~~ 75-C Test)

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NW SEC 5 Subdivision Name

Topo Map INDIANAPOLIS WEST 7½

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by TMB 7-75

Ft W of EL. Ft N of SL. Ft E of WL. Ft S of NL.

Ground Elevation

Depth to bedrock

Bedrock elevation

Aquifer elevation Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To

13

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

APR 1967

INFORMATION ON WELL LOCATION

ty in which well was drilled: Marion Civil Township: _____

ressional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

istinctive landmarks: 4200 W - 400 N.

of owner: Swalley Address: 4200 W. Vermont

Well Drilling Contractor: Hamilton Cross Welldrilling Co

ss: 4025 Rockville Rd

of Drilling Equipment Operator: John Galladay

INFORMATION ON THE WELL

pleted depth of well: 150 ft. Date well was completed: Dec. 27, 1966

meter of outside casing or drive pipe: 4 inch Length: 97 ft

meter of inside casing or liner: _____ Length: _____

meter of Screen: 5 inch Length: 5 ft (PVC) material Slot size: _____

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

hod of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

tic water level in completed well (Distance from ground to water level) _____ ft.

ler Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ f. (Difference between static level and water level at end of test)

Test: Hours tested _____ Rate 70 g.p.m. Drawdown 60 ft.

E

Signature John Galladay

Date Dec. 27 1966

180595

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY: Marion TWP. 15N RGE. 3E ___ ¼ ___ ¼ W ¼ SEC. 5

Topo Map: Indpls. West

Well log classified By Web Date 5/67
Courthouse located By ___ Date ___
Field located By ___ Date ___
Acc. w/o verification By ___ Date ___

___ Ft W of EL.
___ Ft N of SL.
___ Ft E of WL.
___ Ft S of NL.

Ground elevation ___
Depth to bedrock ___
Bedrock elevation ___
Aquifer elevation ___

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	6
Gravel	6	34
Clay	34	96
Gravel	96	100

REMARKS:

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ty in which well was drilled: Marion Civil Township: Wayne

ressional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: 3445 W. 10th St.

of owner: William H. Walker Address: 2738 Hickorywood Ct.

of Well Drilling Contractor: Earl H. Merritt Well Drilling Co., Inc.

2998 Westlane Road

of Drilling Equipment Operator: Don Kennedy

INFORMATION ON THE WELL

eted depth of well: 59 ft. Date well was completed: 7/27/69

ter of outside casing or drive pipe: 4" Length: 56

ter of inside casing or liner: _____ Length: _____

ter of Screen: 3" Length: 4' Slot size: No.8

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

Well: For home ☐ For industry ☒ For public supply ☐ Stock ☐

l of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) 25 ft.

Test: Hours tested ~~1~~ Rate ~~10~~ g.p.m. Drawdown ~~5~~ 2 ft. (Difference between static level and water level at end of test)

g Test: Hours tested 2 Rate 30 g.p.m. Drawdown 5 ft.

Signature Thomas B Hadley

Date August 27, 1969

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
op soil & clay	0	6
rown gravel	6	21
ellow gravel	21	40
ray gravely clay	40	43
ray dirty gravel (little water)	43	47
ellow sand & gravel	47	59

KS:

FOR ADMINI...
(Well driller 01-01 5...8:)

COUNTY: MARION TWP. 15N RGE. 3E NE ¼ NE ¼ NE ¼ SEC. 5

Topo Map: INDIANAPOLIS WEST 7½

Well log classified By — Date —
Courthouse located By — Date —
Field located By MCBN Date 1992
Acc. w/o verification By — Date —

Ft W of EL. Ground elevation 719
Ft N of SL. Depth to bedrock
Ft E of WL. Bedrock elevation
Ft S of NL. Aquifer elevation 660

UTM NORTH 4403450
UTM EAST 566975
**COMMENTS MC 660

719
59
660 aqu

INSTRUCTIONS

his Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water

(Well dr... ...s not fill out)

COU... Marion TWP. 15N RGE. ... ¼ ... ¼ ... SEC. ...

Topo Map Indpls. W ...

Field Located By ____ Date ____

Courthouse Location By ____ Date ____

Location accepted w/o verification by ...

____ Ft W of EL. Ground Elevation ____ Subdivision Name ____

____ Ft N of SL. Depth to bedrock ____

____ Ft E of WL. Bedrock elevation ____

____ Ft S of NL. Aquifer elevation ____ Lot Number ____

WATER WELL RECORD

OUNTY: MARION

CIVIL TOWNSHIP

PERMIT NO:

IVING DIRECTIONS: 150 N. ROENA W 4200 500N

LL OWNER

BUILDING CONTRACTOR: SKILES ELECTRIC

DRILLING EQUIPMENT OPERATOR: WARREN HARNESS

WELL INFORMATION

CASING DIAMETER	CASING LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
4" PVC (material)	51			4	4	60	DRILLED	COMMERCIAL	ROTARY	9/04/84

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
15				1	10	~~30 P/L~~

ATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
SOIL & CLAY	0	40
VEL	40	55

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

3

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

ity in which well was drilled Marion Civil Township Wayne

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

E. of Grande St south of 10th St.

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Address

Building Contractor Address

of Well Drilling Contractor: Layne Northern Co., Inc.

es Mishawaka

Drilling Equipment Operator: E. Allen

L INFORMATION

of well: 110 Date well was completed: 5/7/75

eter of casing or drive pipe: Total Length:

eter of liner (if used): Total Length:

eter of Screen: Length: Slot Size:

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

Well: For Home ☐ For Industry ☒ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

ng Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Copied from Driller's log

Date

01-01 180286 S... TIVE USE ONLY
(... ...iller does not fill out)

~~Detroit Diesel~~
~~Layne 75-E Test~~

COUNTY Marion TWP. 15N RGE. 3E NE ¼ NW ¼ NW SEC 5

Topo Map INDIANAPOLIS WEST 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

~~TENTATIVE LOC BY TMB 7-75~~

_____ Ft W of EL.

_____ Ft N of SL.

1100 Ft E of WL.

200 Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Subdivision Name _____

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)

From	To
0	9
9	11
11	13
13	31
31	39
39	55
55	57
57	83
83	85
85	95
95	99
99	102
102	105
105	108
108	110

...clay
...y gravel
...e clay
...ium sand and gravel
...y clay
...tty clay
...l strip
...y clay
...l strip
...clay
...k clay
...y clay
...tty clay
...sand and gravel
...k shale

C (20 feet S.W. of N.E. fence post, 50 feet W. of W. bank of creek)

•C APPROX. LOCATION

C (similar test wells on site)

(32)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township Wayne

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

East of Grande, South of 10th St.

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Division Address

Building Contractor Address

e of Well Drilling Contractor: Layne Northern Co., Inc.

ess Michigan City

rilling Equipment Operator: E. Allen

LL INFORMATION

h of well: 152 Date well was completed: 3/24/75

eter of casing or drive pipe: Total Length:

eter of liner (if used): Total Length:

eter of Screen: Length: Slot Size:

of Well: Drilled ☐ Gravel Pack ☐ Driven ☒ Other

f Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

ing Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS

FOR ADMINISTRATIVE USE ONLY 01-01 180221
(Well driller does not fill out)

~~Petro~~ Diesel
~~Layne 75A Test~~

COUNTY Marion TWP. 15N RGE. 3E NW ¼ NW ¼ NW SEC 5 Subdivision Name

Topo Map INDIANAPOLIS WEST ~~7½~~

Field Located By WDH Date 7/26/76

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

~~TENTATIVE LOCATION BY TMB 7-75~~

200 Ft W of EL. Ground Elevation 715

_____ Ft N of SL. Depth to bedrock 110

_____ Ft E of WL. Bedrock elevation 605

300 Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
(100 feet east of west fence, 45 feet north of south fence)		
715 715		
110 152		
605 BA(NA) 563 Dev 25 Top		
soil and sand	0	7
fine sand and gravel with boulders	7	29
y	29	45
ty sand and gravel with some clay	45	50
y	50	98
use gravel with clay strip	98	106
y clay	106	110
black shale	110	152
ark limestone	152	

•C APPROX. LOCATION

UTM NORTH _____

UTM EAST _____

**COMMENTS MC X

(similar test wells on site)

3

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ity in which well was drilled: Marion Civil Township: _____

ressional township: 15N Range: 3E Number of section: SW 5

(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

listinctive landmarks: SW 1/4 Sec 5 — 180' W. of E. property line.
660' S. of Vermont St.

Test #21

e of owner: Speedway Water Co. Address: _____

e of Well Drilling Contractor: Neer

e of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

pleted depth of well: 73 ft. Date well was completed: 2-5-43

meter of outside casing or drive pipe: _____ Length: _____

meter of inside casing or liner: _____ Length: _____

meter of Screen: _____ Length: _____ Slot size: _____

e of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other Test

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

tic water level in completed well (Distance from ground to water level) 12 ft.

ler Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

ping Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature Layne-Northern

Date ~~State~~ GWD

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
soil-dirt	0	4
med gravel	4	31
hard clay	31	40
gravel	40	43
hardpan	43	73
shale	73	—

S: (Test #21) c

~~Marion Co. bedrock map by~~ 3

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180620

COUNTY: Marion TWP. 15N RGE. 3E ¼ ¼ SW ¼ SEC. 5

Topo Map: Indpls. West ½

Well log classified By ____ Date ____
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By ____ Date ____

Ft W of EL. ____ Ft N of SL. ____ Ft E of WL. ____ Ft S of NL. ____

Ground elevation 710
Depth to bedrock 73
Bedrock elevation 637
Aquifer elevation ____

INSTRUCTIONS

is Water Well Record form is designed to record the most essential data concerning a ell. We request that you be as accurate as possible in recording this information as e of great assistance in the planning and development of new water supplies. accurate location of the well is equally as important as an accurate well log. nclude all information possible in the space provided for well location. specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted hirty days after the completion of a well to the Division of Water

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

State Form 35680

Telephone 317-232-4160

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

y in which well was drilled Marion Civil Township

g directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Test #19

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Speedway Water Co. Address

Building Contractor Address

of Well Drilling Contractor:

of Drilling Equipment Operator: Ness

INFORMATION

of well: 91' Date well was completed: 1-27-43

er of casing or drive pipe: Total Length:

er of liner (if used): Total Length:

er of Screen: Length: Slot Size:

f Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

Well: ~~For Home~~ Dom. [X] For Industry [ ] For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

water level in completed well (Distance from ground to water level) 14 feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

t: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Layne-Northern

~~Date~~ Collected by: Ground Water Div.

Copied from Card [illegible]

01-01 180301 ATIVE USE ONLY
(does not fill out)

COUNTY Marion TWP. 15N RGE. 3E ¼ NW ¼ SW SEC 5 Subdivision Name

Topo Map Indpls. West ~~7½~~

Field Located By _____ Date _____

Courthouse Location By JMH Date 3-61 (office)

Location accepted w/o verification by JMH 3-61

_____ Ft W of EL. Ground Elevation 714

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Soil & Gravel	0	8
boulders & gravel	8	14
hard clay	14	27
Sand - gravel	27	35
Hard clay	35	45
Sand	45	52
Gravel	52	54
Hard pan	54	64
Gravel	64	65
Hard pan	65	89
Gravel	89	90
Shale	90	91

35

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

:y in which well was drilled: Marion Civil Township:

:essional township: 15N Range: 3E Number of section: 5

(Fill in as completely as possible)

:ibe in your own words the well location with respect to nearby towns, roads, streets

:stinctive landmarks: SW¼ Sec 5 – SW Corner of Area South of Eagle Creek, 150' E. of Roena St.

Test #22

of owner: Speedway Water Co. Address:

r^ Well Drilling Contractor: Ness

of Drilling Equipment Operator:

INFORMATION ON THE WELL

leted depth of well: 88 ft. Date well was completed: 2-22-42

eter of outside casing or drive pipe: Length:

eter of inside casing or liner: Length:

eter of Screen: Length: Slot size:

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

ic water level in completed well (Distance from ground to water level) 10 ft.

er Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

ɔj Test: Hours tested Rate g.p.m. Drawdown ft.

Signature Layne-Northern

Date State GWD

WATER WELL LOG

ATIONS (Color, type of material, hardness, etc.)	From	To
soil-clay	0	6
gravel	6	9
hard pan	9	28
fine gravel	28	32
hardpan	32	38
gravel	38	47
"	47	57
hardpan	57	63
gravel	63	64
hardpan	64	88
shale	88	—

~~707~~

Test #22

~~Marion Co bedrock map by?~~

graphic log

FOR ADMINI 01-01 67069:)
(Well driller -

COUNTY: Marion TWP. 15N RGE. 3E ¼ SW ¼ SW ¼ SEC. 5

Topo Map: Chdpls. West 7½

Well log classified By ____ Date ____
Courthouse located By ____ Date ____
~~Field~~ located By JMH Date 3-61
Acc. w/o verification By ____ Date ____

Ft W of EL. Ground elevation 708
Ft N of SL. Depth to bedrock 88
Ft E of WL. Bedrock elevation 620
Ft S of NL. Aquifer elevation ____

INSTRUCTIONS

s Water Well Record form is designed to record the most essential data concerning a
ll. We request that you be as accurate as possible in recording this information as
e of great assistance in the planning and development of new water supplies.
ccurate location of the well is equally as important as an accurate well log.
clude all information possible in the space provided for well location.
specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted
irty days after the completion of a well to the Division of Water

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

36

State Form 35680

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

200' from E. Fence, 185' from Vermont St on N. side of Test Well.
Test #18

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Speedway Water Co. Address

Building Contractor Address

Well Drilling Contractor: E. Poole

ing Equipment Operator:

INFORMATION

well: 80' Date well was completed: 1-9-43

of casing or drive pipe: Total Length:

of liner (if used): Total Length:

of Screen: Length: Slot Size:

Vell: Drilled [X] Gravel Pack [ ] Driven [ ] Other

ll: ~~For Home~~ Dom. [X] For Industry [ ] For Public Supply [ ] Stock [ ]

f Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

er level in completed well (Distance from ground to water level) 18 feet

: Hours Tested Rate g.p.m. Drawdown ft.

Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Layne-Northern
Collected by:
~~Date~~ Ground Water Div.

Copied from Card log 7-19-82 DSH

FOR WELL LOG SPACE

01-01 180306 FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY Marion TWP. 15N RGE. 3E ¼ NE ¼ SW SEC. 5 Subdivision Name

Topo Map Indpls. west ~~1/2~~

Field Located By _____ Date _____

~~Courthouse~~ Office Location By JMH Date 3/61

Location accepted w/o verification by JMH

_____ Ft W of EL. Ground Elevation 712

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
op Soil	0	2.5
Gravel - Clay	2.5	7
" Gravel and Clay	7	11
oulders	11	13
and & Gravel	13	26
Sand and Gravel	26	34
Boulders	34	37
Clay	37	52
Hard pan	52	75
Clay	75	79
Shale	79	80

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

JAN 1968 RECEIVED Dept. of Nat. Resources Division of Water

WATER WELL RECORD

INFORMATION ON WELL LOCATION

nty in which well was drilled: Marion Civil Township: Wayne

gressional township: T15N Range: R3E Number of section: 4
(Fill in as completely as possible)

cribe in your own words the well location with respect to nearby towns, roads, streets

distinctive landmarks: Mt Jackson cemetary on Hills Just north of Hi Way 40

e of owner: Wayne Trouble Trustee Address: [illegible]

e of Well Drilling Contractor: Claude Royston
RR 2 Box 125 Greenwood

e of Drilling Equipment Operator: Same

INFORMATION ON THE WELL

pleted depth of well: 54 ft. Date well was completed: Oct 9 [illegible]

eter of outside casing or drive pipe: 2" Length: 51

eter of inside casing or liner: Length:

eter of Screen: ~~1"~~ 1.25 Length: 30 Slot size: 60 gauge

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☒ Driven ☐

ic water level in completed well (Distance from ground to water level) 25 ft.

er Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

ing Test: Hours tested 1 Rate 10 g.p.m. Drawdown ____ ft.

Signature Claude Royston

Date Jan 4 1967

FOR WELL LOG SPACE USE REVERSE SIDE

WATER WELL LOG

FOR ADM
(Well dri 01-01 6707 Y
ut)

COUNTY: Marion TWP. 15N RGE. 3E ¼ ¼ SE ¼ SEC. 5

Topo Map: [illegible]

Well log classified By WLB Date
Courthouse located By Date
Field located By Date
Acc. w/o verification By Date

Ft W of EL. Ground elevation
Ft N of SL. Depth to bedrock
Ft E of WL. Bedrock elevation
Ft S of NL. Aquifer elevation

ORMATIONS (Color, type of material, hardness, etc.)	From	To
(all gravel)		
720±		

RKS: [illegible] Cemetery
[illegible]
graphic log

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as y be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. e include all information possible in the space provided for well location. As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted n thirty days after the completion of a well to the Division of Water

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

JAN 1968 RECEIVED Dept. of Nat. Resources Division of Water

INFORMATION ON WELL LOCATION

nty in which well was drilled: Marion Civil Township: Wayne

gressional township: T 15 N Range: R 3 E Number of section: 4

(Fill in as completely as possible)

cribe in your own words the well location with respect to nearby towns, roads, streets distinctive landmarks: [illegible] Just South of [illegible] 40

e of owner: [illegible] Address: [illegible]

e of Well Drilling Contractor: Claude Royston

: RR 2 Box 125 [illegible]

of Drilling Equipment Operator: Claude Royston

INFORMATION ON THE WELL

pleted depth of well: 45 ft. Date well was completed: 8-19-[illegible]

meter of outside casing or drive pipe: 2 Length: 41

meter of inside casing or liner: Length:

meter of Screen: 1.25 Length: 30 Slot size: 60 gauge

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☒ Driven ☐

ic water level in completed well (Distance from ground to water level) 25 ft.

er Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

ing Test: Hours tested 1 Rate 16 g.p.m. Drawdown ____ ft.

Signature

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF [illegible]

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
[illegible]		

KS: [illegible]

FOR ADMIN 01-01 67
(Well drille t)

COUNTY: Marion TWP. 15N RGE. 3E ¼ ¼ SE ¼ SEC. 5

Topo Map: INDIANAPOLIS West ¼

Well log classified By WFK Date
Courthouse located By Date
Field located By Date
Acc. w/o verification By BRUNS Date 2.27.76

Ft W of EL. Ground elevation
Ft N of SL. Depth to bedrock
Ft E of WL. Bedrock elevation
Ft S of NL. Aquifer elevation

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

~~T25 # 20~~

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Speedway Water Co. Address

Building Contractor Address

f Well Drilling Contractor:

f Drilling Equipment Operator: NCSS

INFORMATION

of well: 76' Date well was completed: 2-1-43

er of casing or drive pipe: Total Length:

er of liner (if used): Total Length:

er of Screen: Length: Slot Size:

Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

Well: ~~For Home~~ Dom. [X] For Industry [ ] For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ater level in completed well (Distance from ground to water level) 8 feet

est: Hours Tested Rate g.p.m. Drawdown ft.

: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Layne-Northern

~~Date~~ Ground Water Div.

Copied from card 1 on 7-19-82 DSH

FOR A[illegible] (W 01-01 180610 [illegible]NLY

COUNTY Marion TWP. 15N RGE. 3E ¼ SE ¼ SW SEC. 5 Subdivision Name

Topo Map Indpls. West ~~7½~~

Field Located By _____ Date _____

~~Courthouse~~ office Location By JMH Date 3-61

Location accepted w/o verification by JMH 3-61

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

(test well #20)

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Soil dirt	0	5
Gravel	5	9
Hard clay	9	20
Sand & Gravel	20	45
Hard pan	45	74
Shale	74	76

(44)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: [illegible] Civil Township: _____

essional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

ibe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: _____

of owner: Carl R. Stow Address: 4500 W Vermont St

of Well Drilling Contractor: [illegible]

of Drilling Equipment Operator: [illegible]

INFORMATION ON THE WELL

ted depth of well: 35 ft. Date well was completed: May-10 1962

er of outside casing or drive pipe: 8.5 Length: 22 [illegible]

er of inside casing or liner: _____ Length: 22 [illegible]

er of Screen: 7.5 Length: 14.92 Slot size: .010

f Well: Drilled ☐ Gravel Pack ☐ Driven ☑ Other _____

Well: For home ☐ For industry ☑ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) 6 ft.

Test: Hours tested 1 Rate — g.p.m. Drawdown — ft. (Difference between static level and water level at end of test)

g t: Hours tested 2 Rate 150 g.p.m. Drawdown 20 ft.

3

Signature 5/27/62

Date _____

WATER WELL LOG

ATIONS (Color, type of material, hardness, etc.)	From	To
Topsoil	0	2
yellow sand	2	15
sand gravel	15	35
clay	35	
~~graphic log~~		

3

FOR ADMINISTRATIVE USE ONLY
(Well Driller does not fill out)

01-01 180378

COUNTY: Marion TWP. 15N RGE. 3E ¼ NW ¼ NE ¼ SE SEC. 6

Topo Map: INDPS. West ~~SE~~

Loc. accepted w/o verification Yes ✓ No ___

Well log classified By 21 Date 8-62 Ground elevation 710 875 Ft W of EL
Courthouse located By ___ Date ___ Depth to bedrock ___ 2550 Ft N of SL
Field located By DRH Date 8-31-70 Bedrock elevation ___ Ft E of WL
Placed in master well log file Date 26-8-62 Aquifer elevation 675 Ft S of NL

C.(MC)

INSTRUCTIONS

s Water Well Record form is designed to record the most essential data concerning a
ll. We request that you be as accurate as possible in recording this information as
e of great assistance in the planning and development of new water supplies.
accurate location of the well is equally as important as an accurate well log.
nclude all information possible in the space provided for well location.
specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted
hirty days after the completion of a well to the Division of Water Resources, Indiana
nt of Conservation.

45

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ity in which well was drilled: Marion Civil Township:

ressional township: 15N Range: 3E Number of section: 6

(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

istinctive landmarks:

Century Block Co.

of owner: C. I. Brinley Address: 4511 W. Vermont

of Well Drilling Contractor:

of Drilling Equipment Operator: Woodie

INFORMATION ON THE WELL

leted depth of well: 51 ft. Date well was completed: 1-31-61

eter of outside casing or drive pipe: 4 Galv. (MATERIAL) Length:

eter of inside casing or liner: Length:

eter of Screen: Length: Slot size:

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

d of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

c water level in completed well (Distance from ground to water level) ft.

r Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

r est: Hours tested Rate 10 g.p.m. Drawdown 19 ft.

Signature

Date

WATER WELL LOG

FOR ADMINISTRATIVE USE ONLY
(Well Driller does not fill out)

COUNTY: Marion TWP. 15N RGE. 3E ___ ¼ ___ ¼ SE ¼ ___ SEC. 6 01-01 180424

Topo Map: Cicero Loc. accepted w/o verification Yes ✓ No ___

Well log classified By [illegible] Date 2/16/62 Ground elevation ___ ___ Ft W of EL
Courthouse located By ___ Date ___ Depth to bedrock ___ ___ Ft N of SL
Field located By ___ Date ___ Bedrock elevation ___ ___ Ft E of WL
Placed in master well log file Date 4-3-62 Aquifer elevation ___ ___ Ft S of NL

IATIONS (Color, type of material, hardness, etc.)	From	To
Sandy clay	0	15
Gravel	15	51
~~Graphic log~~		

INSTRUCTIONS

s Water Well Record form is designed to record the most essential data concerning a ll. We request that you be as accurate as possible in recording this information as e of great assistance in the planning and development of new water supplies. accurate location of the well is equally as important as an accurate well log. nclude all information possible in the space provided for well location. specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted irty days after the completion of a well to the Division of Water Resources, Indiana t of Conservation.

~~C-475N~~
~~C115E~~

(46)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

RECEIVED DIV. OF NATURAL RESOURCES DIVISION OF WATER

WATER WELL RECORD

INFORMATION ON WELL LOCATION

unty in which well was drilled: MARION Civil Township: _____

ngressional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

scribe in your own words the well location with respect to nearby towns, roads, streets

distinctive landmarks: _____

ne of owner: INDPLS. PARK DEPT Address: 4625 W Vermont

ne of Well Drilling Contractor: Hamilton Bros Inc

s: _____

e of Drilling Equipment Operator: [illegible]

INFORMATION ON THE WELL

pleted depth of well: 51 ft. Date well was completed: 11/26/68

meter of outside casing or drive pipe: 4" [illegible] Length: 51'

meter of inside casing or liner: _____ Length: _____

meter of Screen: 3" Length: 5' PVC. ← MATERIAL Slot size: #40

e of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

of Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

ic water level in completed well (Distance from ground to water level) _____ ft.

ler Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

p Test: Hours tested 2 Rate 10 g.p.m. ~~Drawdown~~ 20 ft.

Signature _____

Date _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	17
Sand	17	30
Clay	30	42
Sand & gravel	42	54

FOR ADMT (Well drill 01-01 54(Y

COUNTY: MARION TWP. 15 N RGE. 3 E NE ~~SE~~ ¼ NW ~~SW~~ ¼ SE ~~NE~~ ¼ SEC. 6

Topo Map: INDIANAPOLIS WEST ~~XX~~

Well log classified By — Date —
Courthouse located By — Date 1992
Field located By MCBN Date 5-74
Acc. w/o verification By — Date —

1400 Ft W of EL. Ground elevation 718.4
2500 Ft N of SL. Depth to bedrock
Ft E of WL. Bedrock elevation
Ft S of NL. Aquifer elevation 660

UTM NORTH 4402475
UTM EAST 565115
**COMMENTS MC 660

KS:

INSTRUCTIONS

his Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water

Park Dept.

(47)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

OCT 1966 RECEIVED Dept. of Nat. Resources Division of Water

INFORMATION ON WELL LOCATION

y in which well was drilled: Marion Civil Township: _____

essional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

ibe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: _____

4703 Doesn't Know

of owner: Harold SITZNER Address: 4700 W VERMONT

'ell Drilling Contractor: Hamilton Bros Inc
4025 Rockville Rd.

of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

eted depth of well: 57 ft. Date well was completed: 6-27-66

ter of outside casing or drive pipe: 8" Length: 47'

ter of inside casing or liner: _____ Length: _____

ter of Screen: 7.87 ~~7 7/8~~ Length: 11' ~~Cook~~ Slot size: #60

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

f Well: For home ☐ For ~~industry~~ Irrigation ☐ For public supply ☐ Stock ☐

d of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

c water level in completed well (Distance from ground to water level) 6' ft.

r Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ f . (Difference between static level and water level at end of test)

est: Hours tested 6 Rate 200 g.p.m. Drawdown 35' ft.

Signature _____

Date _____

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Top soil	0	6
Clay - Rocky	6	10
Clay	10	32
Sand Gravel	32	41
Clay	41	45
Sand & Gravel	45	57

S:

graphic log

FOR ADMINISTRATIVE ONLY
(Well driller does not fill out)

COUNTY: [illegible] TWP. 15N RGE. 3E NE ¼ SE ¼ NW ¼ SEC. 6

Topo Map: Indian Heat Ax

Well log classified By ____ Date ____
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By ____ Date ____

3250 Ft W of EL. Ground elevation 715
3750 Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
____ Ft S of NL. Aquifer elevation 658

C. (MC)

01-01 180383

INSTRUCTIONS

s Water Well Record form is designed to record the most essential data concerning a
ll. We request that you be as accurate as possible in recording this information as
e of great assistance in the planning and development of new water supplies.
accurate location of the well is equally as important as an accurate well log.
nclude all information possible in the space provided for well location.
specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted
irty days after the completion of a well to the Division of Water

58

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180370

COUNTY Marion TWP. 15N RGE. 3E ¼ NW ¼ SE SEC 6 Subdivision Name

Topo Map Indianapolis West ~~7½'~~

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by JR 7-11-80

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL RECORD

PERMIT NO. 0322

UNTY MARION CIVIL TOWNSHIP

IVING DIRECTIONS 4717 W. VERMONT

LL OWNER

BUILDING CONTRACTOR JIM HAMILTON

DRILLING EQUIPMENT OPERATOR DEXTER HAMILTON

MATERIAL

WELL INFORMATION

CASING DIAMETER	CASING LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
4" PVC	[illegible]			4	3	60	[illegible]	[illegible]	ROTARY	[illegible]

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
[illegible]				1	[illegible]	~~[illegible]~~

MATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
P SOIL & CLAY	0	55
ND	55	60
AY	60	92

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

~~564665F~~

(49)

WATER WELL RECORD
State Form 35680

Mail completed record within 30 days to:
DIVISION OF WATER
INDIANA DEPARTMENT OF NATURAL RESOURCES
605 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
PHONE (317) 232-4160

RECEIVED JUN 1985 DEPT. OF NATURAL RESOURCES DIVISION OF WATER

WELL LOCATION
(Fill in completely)

where drilled: Marion

wnship: Wayne

) directions to the well location (include county road names, numbers, sub-ns, lot number with consideration to intersecting roads and trip origina- here is space for a map on reverse side.

East of Lyndhurst

[illegible] 8800 W

OWNER — CONTRACTOR

Well owner: Moose Lodge 500

Address: 4917 W. Vermont

Building contractor:

Address:

Drilling contractor: Matlock Well Drilling

Address: 4701 W Morris

Equipment operator: Larry Oakley

Completion date: 5-13-85

CONSTRUCTION DETAILS

ell:
d ☐ Gravel pack ☐ Driven ☐ Other

ll:
☐ Industry ☐ Test ☐ Irrigation
☐ Stock ☐ Other (specify)

drilling:
tool ☑ Rotary ☐ Jet ☐ Rev. rotary ☐ Bucket rig

ngth 87 feet	Diameter 4 inches
ngth 4 feet	Diameter 4 inches
t size #6	

ump setting 65

mp

rsible ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (specify)

WELL LOG

Formations: type of material	From	To
[illegible]	ft.	3 ft.
Clay		65
Gravel	65	68
Clay	68	74
Gravel	74	84

(Additional space for Well Log on reverse side)

WELL CAPACITY TEST

)
☐ Pumping

0 gpm 1 hrs | Drawdown feet

ter) 41 feet

ty (clear, cloudy, odor, etc.)

Allen Matlock

Date 5-13-85

FOR AI 01-01 54046
(Wel.

County	Twp.	Rge.		Sec.
Marion	15N	3E	NE NE ¼ 18N	6

Topo map Indpls W	Ft. W of EL	Ground elevation 735	Subdivision name
Field located By MCBH Date 1992 3/10	Ft. N of SL	Depth to bedrock	Lot no.
Courthouse location By Date	Ft. E of WL	Bedrock elevation	
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation 657	

WELL LOG
(Continued from front side)

Formations: type of material	From	To
	ft	ft

SKETCH SHOWING LOCATION
Locate with reference to highways, intersecting county roads, and distinctive landmarks.

N

UTM NORTH 4402800
UTM EAST 564665
**COMMENTS MC 651

W E

50

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317 permit # 1010

RECEIVED MAY 1978 DEPT. OF NATURAL RESOURCES DIVISION OF WATER

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

ity in which well was drilled marion Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

4923 W. Vermont

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner James Gurley Address

Building Contractor Address

of Well Drilling Contractor: Hamilton Bros. Inc.

PO Box 24181 Indpls. IN 46224

of Drilling Equipment Operator: Henry Arthur

L INFORMATION

of well: ~~Drill~~ 62' ~~4" pvc well~~ Date well was completed:

ter of casing or drive pipe: 4" pvc MATERIAL Total Length: 59

ter of liner (if used): Total Length:

ter of Screen: 4" pvc MATERIAL Length: 3' Slot Size: .060

of Well: Drilled XX Gravel Pack ☐ Driven ☐ Other

Well: For Home XX For Industry ☐ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary XX Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

ng t: Hours Tested 1 Rate 1-0 g.p.m. ~~Drawdown~~ PL 50 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR ADMINI[illegible]TIVE USE ONLY
(Well driller does not fill out)

01-01 180374[illegible]

COUNTY [illegible] TWP. 15N RGE. 3E ___ ¼ ___ ¼ [illegible] SEC 6 Subdivision Name

Topo Map [illegible]

Field Located By ___ Date ___

Courthouse Location By ___ Date ___

Location accepted w/o verification by BROWS 7-10-78

___ Ft W of EL. Ground Elevation ___

___ Ft N of SL. Depth to bedrock ___

___ Ft E of WL. Bedrock elevation ___

___ Ft S of NL. Aquifer elevation ___ Lot Number ___

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
clay	0	57
gravel	57	32

DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

NOV 1974 RECEIVED

(51)

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

ity in which well was drilled Marion Civil Township

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

IE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner David Surley Address 4725 W. Vermont

Building Contractor Address

e of Well Drilling Contractor: Mattlock Well Drilling

ess 470, W. Morris St.

Drilling Equipment Operator: Allen Mattlock

LL INFORMATION

h of well: 85' Date well was completed: 7-27-74

ieter of casing or drive pipe: 4" Total Length: 85'

ieter of liner (if used): 4" Total Length: 85'

ieter of Screen: 4" Length: 5' Slot Size: #6

: of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

of Well: For Home ☑ For Industry ☐ For Public Supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

c water level in completed well (Distance from ground to water level) 45 feet

r Test: Hours Tested Rate g.p.m. Drawdown ft.

ping Test: Hours Tested Rate 15 g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Allen Mattlock

Date 11-19-74

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180405

COUNTY Marion TWP. 15N RGE. 3E ¼ NE ¼ SW SEC 6

Topo Map [illegible]

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by [illegible] 7/21/72

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Subdivision Name _____

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Top Soil	0	3
Clay	3	79
Gravel	79	85

~~402 560 N~~
~~564 620 E~~

FOR ADMINI 01-01 54041
(Well dri..

COUNTY Marion TWP. 15N RGE. 3E NE ¼ NE ¼ SW SEC 6 Subdivision Name

Topo Map Indpls W

Field Located By MCBN Date 1992

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL. Ground Elevation 725

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation 661 Lot Number _____

WATER WELL RECORD

PERMIT NO.

UTM NORTH 4402560
UTM EAST 564620
**COMMENTS MC 661

COUNTY MARION CIVIL TOWNSHIP

DRIVING DIRECTIONS 4930 W. VERMONT

N400 8800W

WELL OWNER BUILDING CONTRACTOR DRILLING EQUIPMENT OPERATOR

RALPH [illegible] JAMES HERMAN

WELL INFORMATION

WELL DEPTH	CASING DIAMETER	MATERIAL LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
64	5" PVC	60			4	4	60	DRILLED	[illegible]	ROTARY	4/10/86

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
[illegible]				1	10	~~40 P/L~~

FORMATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
TOPSOIL & CLAY	0	40
GRAVEL	40	64

HAMILTON BROS. INC.

4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46222

(53)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209

WATER WELL RECORD

~~Permit 943~~

INFORMATION ON WELL LOCATION

ty in which well was drilled: Dixon Civil Township:

ressional township: Range: Number of section:

(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

istinctive landmarks:

of owner: Curtis Crump Address: 4933 W Vermont

Well Drilling Contractor: Hamilton Brothers

ss:

of Drilling Equipment Operator: Woodrow Burkhart

INFORMATION ON THE WELL

eted depth of well: 74' ft. Date well was completed: 9/21/70

ter of outside casing or drive pipe: 4 in. Length: 71'

ter of inside casing or liner: Length:

ter of Screen: 3' Length: 5' PVC (MATERIAL) Slot size: #40

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

l of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) ft.

Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

st: Hours tested 2 Rate 10 g.p.m. ~~Drawdown~~ 7.5 ft.

Signature

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	51
Sand	51	56
Clay	56	64
Sand + gravel	64	74

KS:

FOR ADMINISTRATIVE ONLY
(Well driller does not fill out) 01-01 180349

COUNTY: Madison TWP. 15N RGE. 3E ¼ SW ¼ SW ¼ NE ¼ SEC. 6

Topo Map: INDPLS. (W) EST.

Well log classified By ____ Date ____
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By ____ Date ____

____ Ft W of EL. Ground elevation ____
____ Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
____ Ft S of NL. Aquifer elevation ____

INSTRUCTIONS

his Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water

54

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

RECEIVED SEP 1965 Dept. of Nat. Resources Division of Water

WATER WELL RECORD

INFORMATION ON WELL LOCATION

unty in which well was drilled: _____ Civil Township: _____

ngressional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

scribe in your own words the well location with respect to nearby towns, roads, streets

distinctive landmarks: _____

e of owner: Gillispie Address: 4937 W. Vermont

e of Well Drilling Contractor: Hamilton Bros Welldrilling
4025 Cockville Rd

e of Drilling Equipment Operator: John Golladay

INFORMATION ON THE WELL

pleted depth of well: 72 ft. Date well was completed: April 21-65

eter of outside casing or drive pipe: 4 Inch Length: 69 ft

eter of inside casing or liner: _____ Length: _____

eter of Screen: 3 Inch Length: 4 ft (PVC) MATERIAL Slot size: _____

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

c water level in completed well (Distance from ground to water level) 31 ft.

r Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

ng Test: Hours tested _____ Rate 10 g.p.m. Drawdown 35 ft.

Signature John Golladay

Date April 21, 1965

FOR WELL LOG ...

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Yellow Rocky Clay	0	20
Gray Clay	20	64
Gravel	64	72

RKS:

FOR ADMINISTRATIVE U NLY
(Well driller does not fill out)

01-01 180389

COUNTY: Madison TWP. 15N RGE. 3E ¼ ¼ ¼ SEC. 6

Topo Map: INDPLS. [illegible]

Well log classified By [illegible] Date 10-65
Courthouse located By ___ Date ___
Field located By ___ Date ___
Acc. w/o verification By [illegible] Date 10-65

___ Ft W of EL. Ground elevation ___
___ Ft N of SL. Depth to bedrock ___
___ Ft E of WL. Bedrock elevation ___
___ Ft S of NL. Aquifer elevation ___

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a r well. We request that you be as accurate as possible in recording this information as ay be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. se include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted in thirty days after the completion of a well to the Division of Water Resources, Indiana rtment of Conservation.

~~2550N~~
~~4575E~~

(55)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

DEC 1959
RECEIVED
Dept. of Conservation
Division of
Water Resources

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ty in which well was drilled: Marion Civil Township: Wayne

ressional township: 15N Range: 3 Number of section: 6
(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

istinctive landmarks: 4948 W. Vermont St

of owner: Harold Stelzner Address: 4948 W. Vermont

of Well Drilling Contractor: Noel Plunkett

s: 4930 W. Vermont

of Drilling Equipment Operator: Joe Consanius

INFORMATION ON THE WELL

leted depth of well: 55 ft. Date well was completed: Nov 28 1959

eter of outside casing or drive pipe: 2" Length: 52 ft

eter of inside casing or liner: Length:

eter of Screen: 1.25 ~~1/4~~ Length: ~~30"~~ 2.5 Slot size: #18

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☒

od of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☒ Driven ☐

ic water level in completed well (Distance from ground to water level) 21 ft.

er Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

Test: Hours tested 14 Rate 11 g.p.m. Drawdown 3 ft.

5

Signature Noel Plunkett

Date 12/18/59

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
Loam dark soft	0	12
Yellow Clay soft	12	18
Blue Clay soft	18	24
Sandy blue Clay soft	24	29
Gravel (water 4 GPM)	29	35
Sand and blue Clay	35	40
Blue Clay soft	40	49
Course gravel	49	55

FOR ADMI 01-01 40Y
(Well Drill... out)

COUNTY: Marion TWP. 15N RGE. 3E NE ¼ NE ¼ SW ¼ SEC. 6

Topo. Map: Indpls. Intest Loc. accepted w/o verification Yes ✓ No ___

El. of grnd. surface at well: ~~725~~ 731 Courthouse Loc. By ___ Date ___

Depth to bedrock: ___ Field Located By ___ Date 8-31-70

Well Log processed by: H.C. Kostan Placed in Master Well Log File Date 2-3-62

Aquifer ~~FTR~~ 676

FEET W OF EL 3250
FEET N OF SL 3150
FEET E OF WL
FEET S OF NL
BEDROCK ELEV
UTM NORTH
UTM EAST

UTM NORTH 4402550
UTM EAST 564575
COMMENTS MC 676

ARKS:

~~[illegible]~~

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a r well. We request that you be as accurate as possible in recording this information as ay be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. se include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted in thirty days after the completion of a well to the Division of Water Resources, Indiana rtment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

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FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180365

COUNTY Marion TWP. 15 N RGE. 1 ___ ¼ SE ¼ NW SEC 6 Subdivision Name

Topo Map Indianapolis West

Field Located By ___ Date ___ ___ Ft W of EL. Ground Elevation ___

Courthouse Location By ___ Date ___ ___ Ft N of SL. Depth to bedrock ___

Location accepted w/o verification by 6-15-82 0.5 ___ Ft E of WL. Bedrock elevation ___

___ Ft S of NL. Aquifer elevation ___ Lot Number ___

WATER WELL RECORD

COUNTY: MARION

CIVIL TOWNSHIP

PERMIT NO. 0255

DRIVING DIRECTIONS: 4948 W. VERMONT N. 400

WELL OWNER: HAROLD STELZNER

BUILDING CONTRACTOR: HAROLD STELZNER

DRILLING EQUIPMENT OPERATOR: DESTER HARNESS

WELL INFORMATION

DEPTH	CASING DIAMETER	MATERIAL	LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
78	4"	PVC	74			4	4	60	DRILLED	HOME	ROTARY	10/19/81

STATIC WATER LEVEL: 35

BAILER TEST: HOURS TEST ___ RATE G.P.M. ___ DRAWDOWN ___

PUMP TEST: HOURS TEST 1 RATE G.P.M. 10 DRAWDOWN ~~50 P/L~~

FORMATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
TOPSOIL & CLAY	0	70
GRAVEL	70	78

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

57

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

RECEIVED 1974 DEPT. OF NATURAL RESOURCES DIVISION OF WATER

Permit #2950

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

455 N

5020 W. Vermont

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Carl Adams Address Same

Building Contractor Address

of Well Drilling Contractor: [illegible] Inc.

[illegible] 4095 Rockville Rd.

Drilling Equipment Operator: [illegible]

L INFORMATION

of well: 76' Date well was completed: 1-22-74

ter of casing or drive pipe: 4" ⊥ Total Length: 74

ter of liner (if used): Total Length:

ter of Screen: 4" Length: 2' Slot Size: .060

f Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Well: For Home ☒ For Industry ☐ For Public Supply ☐ Stock ☐

l of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

ng Test: Hours Tested 1 Rate 10 g.p.m. ~~Drawdown~~ ~~50~~ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR ADMIN[illegible]ATIVE USE ONLY
(Well drill[illegible]oes not fill out)

01-01 180448

COUNTY [illegible] TWP. 15N RGE. [illegible] ¼ [illegible] ¼ [illegible] SEC 6 Subdivision Name

Topo Map [illegible]

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by [illegible]

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	66
Sand & Gravel	66	76

58

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180344

COUNTY _____ TWP. _____ RGE. _____ ¼ ¼ ¼ SEC 6 Subdivision Name

Topo Map _____

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL RECORD

COUNTY: MARTON

CIVIL TOWNSHIP:

PERMIT NO.:

DRIVING DIRECTIONS: 5020 W. VERMONT N 4/50

WELL OWNER:

BUILDING CONTRACTOR: WATERFIELD MORTGAGE

DRILLING EQUIPMENT OPERATOR: HARROLD HARNESS

WELL INFORMATION

MATERIAL

WELL DEPTH	CASING DIAMETER	CASING LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
81	4" PVC	77			4	4	60	DRILLED	DOMS	ROTARY	10/12/94

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
"				1	10	[illegible]

FORMATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
TOPSOIL & CLAY	0	70
GRAVEL	70	81

RECEIVED OCT 1994 DEPT. OF NATURAL RESOURCES DIVISION OF WATER

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

(59)

WATER WELL RECORD

State Form 35680R2

Mail completed record within 30 days to:
DIVISION OF WATER
INDIANA DEPARTMENT OF NATURAL RESOURCES
2475 DIRECTORS ROW
INDIANAPOLIS, INDIANA 46241
PHONE (317) 232-4160

APR 1988 RECEIVED DEPT. OF NATURAL RESOURCES DIVISION OF WATER

Job 88-45

WELL LOCATION
(Fill in completely)

where drilled: Marion

vnship:

directions to the well location (Include county road names, numbers, sub-
ns, lot number with consideration to intersecting roads and trip origina-
ere is space for a map on reverse side.

t house E. of Lynhurst on
l. side 400N
5100W

OWNER — CONTRACTOR

Well owner: Dennis Powell

Address: 5136 W. Vermont

Building contractor:

Address:

Drilling contractor: Matlock Well Drilling

Address: 4701 W. Morris

Equipment operator: Tim Davis

Completion date:

CONSTRUCTION DETAILS

ell:
☐ Gravel pack ☐ Driven ☐ Other

l:
☐ Industry ☐ Test ☐ Irrigation
supply ☐ Stock ☐ Other (specify) _____

drilling:
ool ☑ Rotary ☐ Jet ☐ Rev. rotary ☐ Bucket rig

gth 64 feet	Diameter 4" inches
gth feet	Diameter inches
size	Total depth

mp setting

np

sible ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (specify) _____

WELL LOG

Formations: type of material	From	To
Top Soil	0 ft.	3 ft.
Overburden	3	57
Gravel	57	64

(Additional space for Well Log on reverse side)

WELL CAPACITY TEST

☐ Pumping

____ gpm _____ hrs | Drawdown feet

er) 40' feet

/ (c cloudy, odor, etc.)

1

Allen Matlock

Date 4/6/88

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out) 01-01 180438

County	Twp.	Rge.		Sec.
Marion	15 N	[illegible]	¼ SW ¼ NW	6

Topo map: Kendrick West	Ft. W of EL	Ground elevation	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot no.
Courthouse location By Date	Ft. E of WL	Bedrock elevation	
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation	

WELL LOG
(Continued from front side)

Formations: type of material	From	To
	ft	ft

SKETCH SHOWING LOCATION
Locate with reference to highways, intersecting county roads, and distinctive landmarks.

N

W E

(60)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township

g directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Austin Address 5151 W. Vermont

Building Contractor Address

f Well Drilling Contractor: Hamilton Bros.
Rockville Rd

Drilling Equipment Operator:

INFORMATION

f well: 67'

Date well was completed: 6-7-56

of casing or drive pipe: 4 Total Length: 64'

of liner (if used): Total Length:

of Screen: 3" Length: ~~4' 3"~~ 4.25 Slot Size:

Vell: Drilled [X] Gravel Pack [ ] Driven [ ] Other

ll: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

f Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

er level in completed well (Distance from ground to water level) feet

: Hours Tested Rate g.p.m. Drawdown ft.

est: Hours Tested Rate 10 gpm ~~g.p.m.~~ Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Hamilton Bros.

~~Date~~ TMK 10-8-56

Copied from card

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180403

COUNTY Marion TWP. 15N RGE. 3E SW ¼ SE ¼ NW SEC 6 Subdivision Name

Topo Map _____ Ft W of EL. _____ Ground Elevation _____ _____

Field Located By _____ Date _____ Ft N of SL. _____ Depth to bedrock _____ _____

Courthouse Location By _____ Date _____ Ft E of WL. _____ Bedrock elevation _____ _____

Location accepted w/o verification by _____ Ft S of NL. _____ Aquifer elevation _____ Lot Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)
58	0	op Soil
67	58	ame

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

State Form 35680

WATER WELL RECORD

(Fill in completely - Refer to instruction sheet)

L LOCATION

y in which well was drilled Marion Civil Township

g directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

h of Michigan St. on Concord to Arnolds. East and north to 519 N. Arnolds.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Ronald Crippen Address 519 N. Arnolda Indianapolis, Indiana

Building Contractor Address

f Well Drilling Contractor: Mills Pump & Well Drilling, Inc'

W. Michigan St. Indianapolis, Indiana

Drilling Equipment Operator: Russell Mills

INFORMATION

f well: 79 ft. Date well was completed: July 30, 1980

of casing or drive pipe: 4in. Total Length: 76 ft.

of liner (if used): Total Length:

of Screen: 4 in. Length: 3 ft. Slot Size: 30

Vell: Drilled [X] Gravel Pack [ ] Driven [ ] Other

ll: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

f Drilling: Cable Tools [ ] Rotary [X] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

er level in completed well (Distance from ground to water level) 30 feet

:: Hours Tested ~~2~~ 2 Rate ~~5~~ 5 g.p.m. Drawdown ~~45~~ 45 ft.

est Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Russell Mills

Date July 30, 1980

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

State Form 35680

WATER WELL RECORD

(Fill in completely - Refer to instruction sheet)

L LOCATION

ty in which well was drilled Marion Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

th of Michigan St. on Concord to Arnolds. East and north to 519 N. Arnolds.

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Ronald Crippen Address 519 N. Arnolds Indianapolis, Indiana

Building Contractor Address

of Well Drilling Contractor: Mills Pump & Well Drilling, Inc'

s 08 W. Michigan St. Indianapolis, Indiana

or Drilling Equipment Operator: Russell Mills

INFORMATION

of well: 79 ft. Date well was completed: July 30, 1980

r of casing or drive pipe: 4in. Total Length: 76 ft.

r of liner (if used): Total Length:

r of Screen: 4 in. Length: 3 ft. Slot Size: 30

Well: Drilled [x] Gravel Pack [ ] Driven [ ] Other

ell: For Home [x] For Industry [ ] For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [ ] Rotary [x] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ter level in completed well (Distance from ground to water level) 30 feet

st: Hours Tested ~~2~~ 2 Rate ~~5~~ 5 g.p.m. Drawdown ~~45~~ 45 ft.

Te Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Russell Mills

Date July 30, 1980

FOR AI 01 54023 LY
(We...

COUNTY MARION TWP. 15N RGE. 3E NW ¼ SE ¼ NW SEC 4 Subdivision Name

Topo Map INDIANAPOLIS WEST

Field Located By MCBN Date 1992

Courthouse Location By _____ Date _____

Location accepted w/o verification by [illegible] 10-11-80

_____ Ft W of EL. Ground Elevation 717

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation 638 Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay Gray	1	31
Clay Blue	31	65
Sand Blue	65	79

UTM NORTH 4402885
UTM EAST 567685
**COMMENTS MC 638

FOR ADN 01-01 54024 NLY
(Wel.

COUNTY Marion TWP. 15N RGE. 3E NW ¼ SE ¼ NW SEC. 4 Subdivision Name

Topo Map Indianapolis West

Field Located By MCBN Date 1992

Courthouse Location By _____ Date _____

Location accepted w/o verification by SCF SAW 6-14-79

_____ Ft W of EL. Ground Elevation 716

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation 669 Lot Number _____

WATER WELL RECORD

PERMIT NO.

COUNTY MARION CIVIL TOWNSHIP

DRIVING DIRECTIONS 525 N. ARNOLDA

WELL OWNER

BUILDING CONTRACTOR ALLEN WATTS

DRILLING EQUIPMENT OPERATOR DESTER HARNESS

WELL INFORMATION

WELL DEPTH	CASING DIAMETER	CASING LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
47	4" PVC (material)	45			4	3	60	DRILLED	HOME	ROTARY	4/19/79

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
35				1	10	~~40 PSI~~

FORMATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
SAND & GRAVEL	0	47

UTM NORTH 4402915

UTM EAST 567700

**COMMENTS MC

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

63

RECORD OF WATER WELL
State Form 35680 (R3 / 11-87)

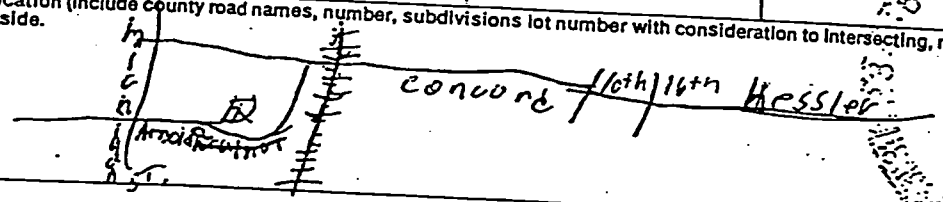
Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

pletely)

WELL LOCATION

ty where drilled	Civil township	Township	Range	Section
MArion				

ing directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there
pace for a map on reverse side.



OWNER · CONTRACTOR

of well owner: Niblack

ss (Street and number, city, state): 530 N Arnolda ~~Wainut~~ Indpls.

Telephone Number: (E) 635-5693

ZIP code:

of building contractor:

s (Street and number, city, state):

Telephone number: ( )

ZIP code:

of drilling contractor: Water wells by Wilhite

s (Street and number, city, state): 7453 W Dobson

Telephone number: (317) 257-3393

ZIP code:

of equipment operator: harlie Sullivan

License number: 843

Date of completion:

CONSTRUCTION DETAILS

vell:

ne ☐ Industry ☐ Test ☐ Irrigation

lic supply ☐ Stock ☐ Other (specify):

of drilling: ☒ Rotary ☐ Rev. rotary

le tool ☐ Jet ☐ Bucket rig ☐ Other

ength	Material	Diameter
4 feet	PVC	4 inches
ength	Material	Diameter
) feet	PVC	4 inches

ot size: 1050

Total depth of well: 44

pump setting:

Water quality (Clear, cloudy, odor, etc.): clear

ump ☐ Shallow-well jet

ersible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

☒ Air ☐ Pumping

Test rate: 30 gpm 2 hrs.

Static level (depth to water): 24 feet

feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
~~0 40~~ Sand	0	4
~~4 44~~ sand & gravel	4	44

(Additional space for well log on reverse side)

NFORMATION

	Depth of grout From To	Number of bags used
Installation		

WELL ABANDONMENT

Sealing material	Depth filled From To	Method of installation	Number of bags used

wear or affirm, under the penalties for perjury that nation submitted herewith is to the best of my e and belief, true, accurate and complete

Signature of owner of authorized representative: [illegible]

Date

FOR 01-[illegible] 54025 ILY

County	Township	Range		Section
Union	15N	3E	NW ¼ SE ¼ NW	4

Topo map: Ondpls. West ~~7½~~	Ft. W of EL	Ground elevation: 718	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation: 674	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

UTM NORTH 4402910
UTM EAST 567635
**COMMENTS MC

(64)

RECORD OF WATER WELL

State Form 35660 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

mpletely

WELL LOCATION

where drilled	Civil township	Township	Range	Section
Marion		15N	3E	4

directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a reverse side.

80 feet west of permanent well #1

OWNER - CONTRACTOR

well owner: National Malleable and Steel Castings Co.
(*number and street, city, state, ZIP code*): 546 N. Holmes, Indianapolis
Telephone number:

uilding contractor:
(*number and street, city, state, ZIP code*):
Telephone number:

rilling contractor: Layne Northern, Inc.
(*number and street, city, state, ZIP code*): Mishawaka
Telephone number:

eq ent operator: John Shepard
License number:
Date of completion: 10/26/51

CONSTRUCTION DETAILS

ell:
e ☒ Industry ☒ Test ☐ Irrigation
c supply ☐ Stock ☐ Other (*specify*):

f drilling
y ☐ Jet ☐ Bucket rig
e tool ☐ Rev. rotary ☐ Other

ngth feet	Material	Diameter inches
ngth feet	Material	Diameter inches

ot size
Total depth of well: 110
ump setting
Water quality (*clear, cloudy, odor, etc.*)

ump ☐ Shallow-well jet ☐ Other (*specify*):
ersible ☐ Deep-well jet

WELL CAPACITY TEST

☐ Air
g ☐ Pumping
Test rate: _____ gpm _____ hrs.
feet
Static level (*depth of water*) feet

G INFORMATION

Depth of grout From to	Sealing material	Depth filled From To
installation Number of bags used	Method of installation	Number of bags used

WELL ABANDONMENT

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
Brick, concrete, fill	0	3
Dry sand and gravel	3	18
Clay strip	18	20
Muddy gravel	20	25
Coarse gravel, boulders and sand	25	43
Hard blue gritty clay	43	64
Coarse sand and gravel, active	64	70
Coarse gravel and boulders, active	70	73
Coarse sand and fine to med. gravel, active	73	91
(Very coarse sand and coarse gravel, some boulders, active)	91	110

(*Additional space for well log on reverse side*)

wear or affirm, under the penalties that the information submitted to the best of my knowledge and

Signature of owner or authorized representative: [illegible] 3/21/95

Date

FOR ADMINISTRATIVE USE ONLY (well driller does not fill out) 01-01 180619

County: Marion	Township: 15N	Range: 3E	1/4 1/4	Section: 4
Topo map: Indianapolis west		Ground elevation	Name of subdivision	
Field located By Date	Ft. W of EL	Depth to bedrock	Lot number	
Courthouse location By Date	Ft. N of SL	Bedrock elevation	U.T.M.	
Location accepted w / o verification by	Ft. E of WL	Aquifer elevation		
	Ft. S of NL			

(continued from front side)

WELL LOG FORMATIONS: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION (Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

65

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

...pletely

WELL LOCATION

...where drilled	Civil township	Township	Range	Section
Marion		15N	3E	4

...g directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a ...on reverse side.

80' feet west of permanent well #1
100 feet south and 10 feet west of water tank

OWNER - CONTRACTOR

...of well owner: National Malleable and Steel Casting Co.
Telephone number:
...s (*number and street, city, state, ZIP code*): 546 N. Holmes, Indianapolis

...of building contractor:
Telephone number:
...s (*number and street, city, state, ZIP code*):

...of drilling contractor: Layne Northern Co., Inc.
Telephone number:
...s (*number and street, city, state, ZIP code*): Mishawaka

...f ...ent operator: Miller / Smith
License number:
Date of completion: 11/20/51

CONSTRUCTION DETAILS

...ell:
...e ☐ Industry ☒ Test ☐ Irrigation
...ic supply ☐ Stock ☐ Other (*specify*):

...of drilling ...ry ☐ Jet ☐ Bucket rig
...e tool ☐ Rev. rotary ☐ Other

...ngth feet | Material | Diameter inches
...ngth feet | Material | Diameter inches

...ct size | Total depth of well: 109

...ump setting | Water quality (*clear, cloudy, odor, etc.*)

...mp ☐ Shallow-well jet ☐ Other (*specify*):
...ersible ☐ Deep-well jet

WELL CAPACITY TEST

☐ Air
☐ Pumping

Test rate _____ gpm _____ hrs.

Static level (*depth of water*) feet

feet

...INFORMATION

	Depth of grout From to	Number of bags used
...stallation		

WELL ABANDONMENT

Sealing material	Depth filled From To	Method of installation	Number of bags used

WELL LOG

FORMATIONS: Type of material	From (feet)	To (feet)
Top dry sand and gravel	0	16
Clay	16	20
Coarse sand, gravel and boulders	20	38
Gritty clay	38	64
Coarse gravel and boulders	64	73
Fine to medium gravel	73	106
Coarse gravel and boulders	106	109

(*Additional space for well log on reverse side*)

...ear or affirm, under the penalties that the information submitted ...o the best of my knowledge and

Signature of owner or authorized representative

Date

FOR ADMINISTRATIVE USE ONLY (well driller does not fill out) 01-01 180609

County	Township	Range	1/4	1/4	Section
Marion	15N	3E			4

Topo map: Indianapolis West	Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS (type of material)	FROM Feet	TO Feet

SKETCH SHOWING LOCATION (Locate with reference to highways, nearest county roads and distinctive landmarks.)

N

W

E

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

e6

WATER WELL RECORD

.L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township Center

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner National Malleable and Steel Castings Co. Address 546 N. Holmes, Indianapolis

Building Contractor _____ Address _____

of Well Drilling Contractor: Layne Northern Co., Inc. Mishawaka

of Drilling Equipment Operator: _____

.L INFORMATION

of well: 94 Date well was completed: 11/24/44

eter of casing or drive pipe: 30 Total Length: 49

eter of liner (if used): 12 Total Length: 30

eter of Screen: 12 Length: 15 Slot Size: #6

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

f Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) 22 feet

Test: Hours Tested _____ Rate _____ g.p.m. _____ Drawdown _____ ft.

in t: Hours Tested _____ Rate _____ g.p.m. 600 Drawdown 14 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature _____

Date _____

(Well driller does not fill out)

COUNTY MARION TWP. 15N RGE. 3E NW ¼ SW ¼ NE SEC. 4

Topo Map Indianapolis West

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Subdivision Name _____

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

(67)

State Form 35680

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Vell Owner National Malleable & Steel Castings Co. Address 546 No. Holmes, Indpls.

Building Contractor Address

Well Drilling Contractor: Layne - Northern

Drilling Equipment Operator:

INFORMATION

well: 89 Date well was completed: 1936

of casing or drive pipe: 30-18 Total Length:

of liner (if used): Total Length:

of Screen: ✓ Length: Slot Size:

/ell: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

ll: For Home ☐ For Industry ☒ For Public Supply ☐ Stock ☐

Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

er level in completed well (Distance from ground to water level) 23 feet

:: Hours Tested Rate g.p.m. Drawdown ft.

Hours Tested Rate 300 g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Mr. Gavin, Plant Eng.

~~Date~~ McGuinness, USGS 10-5-38

FOR AD 01-01 54018 :Y
(Wel

COUNTY Marion TWP. 15N RGE. 3E NW ¼ SW ¼ NE SEC. 4 Subdivision Name

Topo Map INDY WEST

Field Located By MCBN Date 1992

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation 708

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation 607

Lot Number _____

UTM NORTH _____

UTM EAST _____

**COMMENTS MC 607

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	4	Cinder Fill
4	43	Soil & Gravel
43	59	Clay
59	62	Coarse Sand
62	101	Coarse Gravel

(68)

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

..pletely

WELL LOCATION

where drilled: Marion | Civil township: | Township: 15N | Range: 3E | Section: 4

directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a reverse side.

In yard storage area alongside water storage reservoir

OWNER - CONTRACTOR

well owner: National Malleable and Steel Castings Co. | Telephone number:

(*number and street, city, state, ZIP code*): 546 N. Holmes, Indianapolis

building contractor: | Telephone number:

(*number and street, city, state, ZIP code*):

drilling contractor: Layne Northern Co., Inc. | Telephone number:

(*number and street, city, state, ZIP code*): Mishawaka

er ent operator: C. Kimble | License number: | Date of completion: 9/15/86

CONSTRUCTION DETAILS

ell:
ie ☒ Industry ☐ Test ☐ Irrigation
ic supply ☐ Stock ☐ Other (*specify*):

of drilling
ary ☐ Jet ☐ Bucket rig
le tool ☐ Rev. rotary ☐ Other

ength feet | Material | Diameter inches

ength feet | Material | Diameter inches

lot size | Total depth of well

pump setting | Water quality (*clear, cloudy, odor, etc.*)

ump ☐ Shallow-well jet ☐ Other (*specify*):
mersible ☐ Deep-well jet

WELL CAPACITY TEST

ie ☐ Air
ing ☐ Pumping

Test rate: _____ gpm _____ hrs.

n feet

Static level (*depth of water*) 24 feet

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
~~Gravel~~	~~0~~	~~43~~
~~Clay~~	~~16~~	~~59~~
~~Coarse Sand~~	~~59~~	
Gravel	0	43
Clay	43	59
Coarse sand	59	62
Coarse gravel	62	101

(*Additional space for well log on reverse side*)

NG INFORMATION

Depth of grout: From to

f installation | Number of bags used

WELL ABANDONMENT

Sealing material | Depth filled: From To

Method of installation | Number of bags used

swear or affirm, under the penalties y that the information submitted s to the best of my knowledge and

Signature of owner or authorized representative: [illegible] 3/21/95

Date

FOR ADMINISTRATIVE USE ONLY (well driller does not fill out)

01-01 180614

County Marion	Township 15N	Range 3E	NW 1/4 SW 1/4 NE	Section 4
Topo map Indianapolis West		Ground elevation		Name of subdivision
Field located By Date	Ft. W of EL	Depth to bedrock		Lot number
Courthouse location By Date	Ft. N of SL	Bedrock elevation		U.T.M. 4402990 N 568160 E
Location accepted w / o verification by	Ft. E of WL	Aquifer elevation		
(continued from front side)	Ft. S of NL			

WELL LOG FORMATIONS (type of material)	FROM Feet	TO Feet

SKETCH SHOWING LOCATION (Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

69

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

IE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner National Malleable and Steel Casting Co. Address 546 N. Holmes Indianapolis

Building Contractor Address

e of Well Drilling Contractor: Layne Northern Co., Inc. Michigan City

of Drilling Equipment Operator: J. Miller and D. Smith

L INFORMATION

of well: 106 Date well was completed: 11/20/51

ter of casing or drive pipe: 30 Total Length: 65.5

ter of liner (if used): 12 Total Length: 20.5

er of Screen: 12 Length: 20 Slot Size: #6

of Well: Drilled ☐ Gravel Pack ☐ Driven ☒ Other

Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) 23 feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

Hours Tested Rate 576 g.p.m. Drawdown 10.5 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Copied from Driller's Log 3/21/95

Date

01-01 180685

FOR ADMINI[illegible]TIVE USE ONLY
(Well driller does not fill out)

COUNTY MARION TWP. 15N RGE. 3E NW ¼ SW ¼ NE SEC 4 Subdivision Name

Topo Map Indianapolis West

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

c (Located 100 feet south and 10 feet west of water tower) c (well #2)

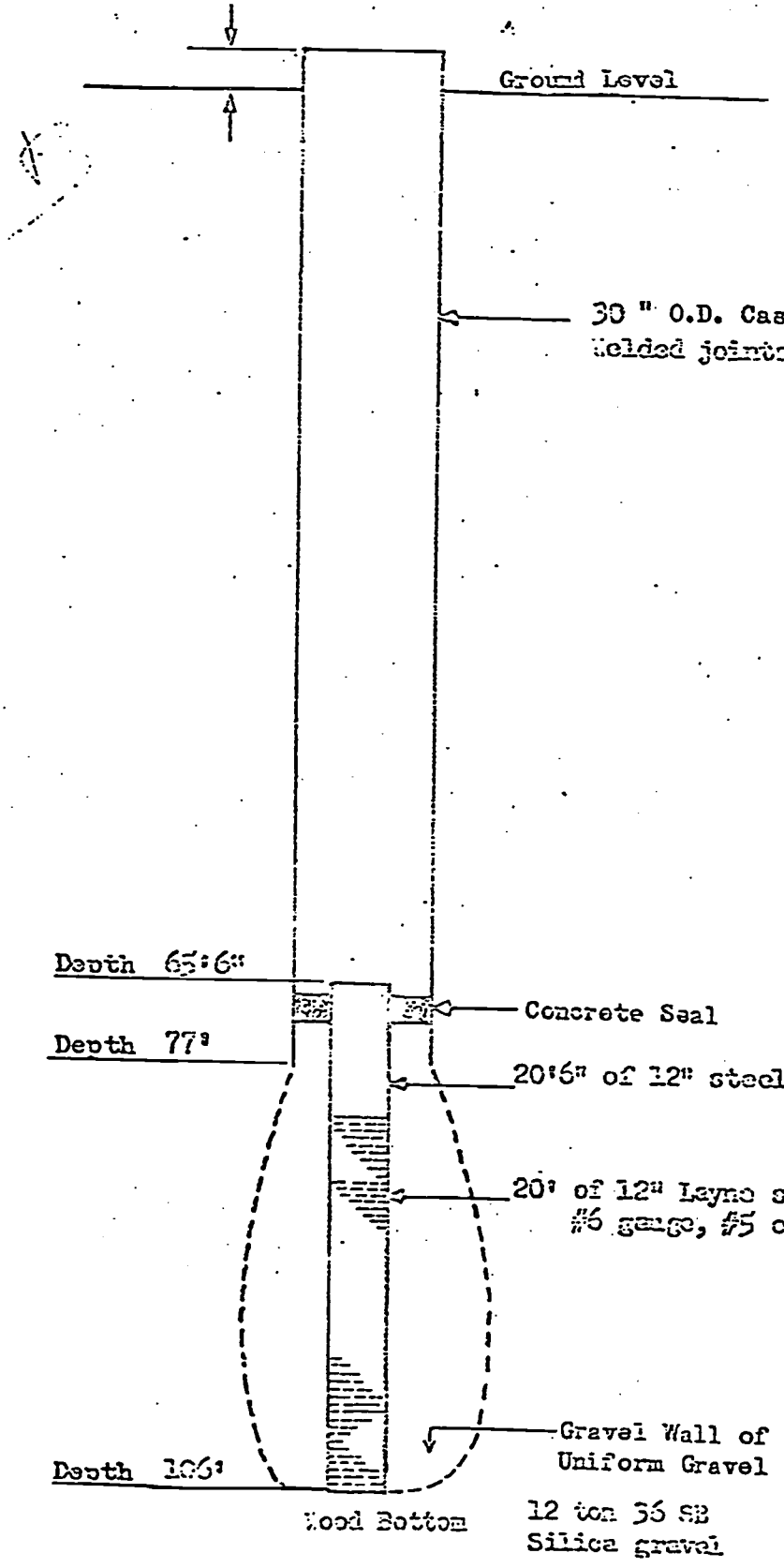
WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)

15-3-4 NW SW NE

Casing extends _____ feet above ground level.

Job No. C-5355



LOCATION: 100' south and 10' west of Water Tower.

Marion Co.
Center Twp.

Single Cased
LAYNE GRAVEL WALL WELL No. 2
For
NATIONAL MALLEABLE & STEEL CASTS. CO
Indianapolis, Indiana

Driller J. Miller - D. Smith

Date Finished 11/20/51

Not drawn to Scale
All depths measured

Static Level 23'

Pumped 572 GPM

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY | DRAWING No.

(10)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Ronald Gales Machine Co. Address 4400 W. Michigan, Indpls.

Building Contractor Address

Well Drilling Contractor: Fox & Sons

6, Shelbyville

Drilling Equipment Operator: Thompson

INFORMATION

well: 46'

Date well was completed: 8-11-52

of casing or drive pipe: 4 Total Length:

of liner (if used): Total Length:

of Screen: ~~3 3/4~~ 3.75 Length: 3 Slot Size: #30

Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

ll: For Home [ ] For Industry [ ] For Public Supply [ ] Stock [ ]

f Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

er level in completed well (Distance from ground to water level) 26 feet

t: Hours Tested Rate ~~7~~ g.p.m. Drawdown ~~3~~ ft.

Hours Tested Rate 12 g.p.m. Drawdown 6 ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Drillers Log

~~Date~~ Kost 1958

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180373

COUNTY Marion TWP. 15N RGE. 3E SE ¼ NW ¼ NE SEC. 6

Topo Map Indpls. West ~~7½~~

Field Located By Don Jordan Date 2-62

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL.

4200 Ft N of SL.

2900 Ft E of WL.

_____ Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Subdivision Name _____

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
...d Gravel	0	1
...y	1	5
...y Gravel	5	30
...vel & Sand – only sm show of water	30	37
...ndy clay	37	43
...nd & Gravel W.B.	43	46

~~...ell at west end of machine shop.~~

~~...s E well supposed to be deeper.~~

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DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Ronald Gales Machinery Address 4400 W. Michigan

Building Contractor Address

f Well Drilling Contractor:

f Drilling Equipment Operator: Woodie

INFORMATION

f well: 60' Date well was completed: 8-22-57

r of casing or drive pipe: 4 Total Length:

r of liner (if used): Total Length:

r of Screen: Slots Length: Slot Size:

Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

Vell: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ater level in completed well (Distance from ground to water level) feet

st: Hours Tested Rate g.p.m. Drawdown ft.

Hours Tested Rate 10 g.p.m. Drawdown 30 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180368

COUNTY Marion TWP. 15N RGE. 3E SE ¼ NW ¼ NE SEC. 6

Topo Map Indpls. West ~~7½~~

Subdivision Name

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Lot Number _____

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	34	gravel
34	54	clay
54	60	gravel

(72)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Everett Sheffer Address 300 N. Vine St.

Building Contractor Address

f Well Drilling Contractor: Hamilton Bros.

f Drilling Equipment Operator:

INFORMATION

f well: 43'

Date well was completed: 6-23-55

r of casing or drive pipe: 4 Total Length:

r of liner (if used): Total Length:

r of Screen: ~~Shop~~ Length: Slot Size:

Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

/ell: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ıter level in completed well (Distance from ground to water level) feet

:st: Hours Tested Rate g.p.m. Drawdown ft.

Hours Tested Rate 10 g.p.m. Drawdown 15 ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Driller

~~Date~~ T.M.K., Ind. Dept. of Conserv.

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180404

COUNTY Marion TWP. 15N RGE. 3E ¼ NW ¼ SE SEC 6

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation

Depth to bedrock

Bedrock elevation

Aquifer elevation

Subdivision Name

Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
gravel	0	19
clay	19	24
gravel	24	30
clay	30	36
gravel	36	43

WATER WELL RECORD

State Form 35680R2

Mail completed record within 30 days to:
DIVISION OF WATER
INDIANA DEPARTMENT OF NATURAL RESOURCES
2475 DIRECTORS ROW
INDIANAPOLIS, INDIANA 46241
PHONE (317) 232-4160

73

APR 1988 RECEIVED DEPT. OF NATURAL RESOURCES DIVISION OF WATER

Jb 88-38

WELL LOCATION (Fill in completely)

here drilled Marion

nship

directions to the well location (include county/road names, numbers, sub-, lot number with consideration to intersection roads on the origina- re is space for a map on reverse side.

4500 W

350 N

OWNER — CONTRACTOR

Well owner: Paul Johnson

Address: 322 N. Vine St.

Building contractor:

Address:

Drilling contractor: Matlock Well Drilling

Address: 4701 S. Morris

Equipment operator: Jim Davis

Completion date: 3/28/88

CONSTRUCTION DETAILS

ll: ☐ Gravel pack ☐ Driven ☐ Other

l: ☐ Industry ☐ Test ☐ Irrigation ☐ Stock ☐ Other (specify) _____

ing: ool ☑ Rotary ☐ Jet ☐ Rev. rotary ☐ Bucket rig

gth 46' feet — Diameter 4" inches

gth 5 feet — Diameter 4" inches

size #6 — Total depth

ump setting 40'

mp

sible ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (specify) _____

WELL CAPACITY TEST

☐ Pumping

10 gpm _____ hrs — Drawdown _____ feet

ter) 20' feet

y (clear, cloudy, odor, etc.)

WELL LOG

Formations: type of material	From	To
Top Soil	0 ft.	3 ft.
Clay	3	42
Gravel	42	46

(Additional space for Well Log on reverse side)

Allen Matlock — Date

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out) 01-01 180390

County	Twp.	Rge.		Sec.
Marion	15 N	3E	¼ NE ¼ SE	6

Topo map: Dudley West	Ft. W of EL	Ground elevation	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot no.
Courthouse location By Date	Ft. E of WL	Bedrock elevation	
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation	

WELL LOG
(Continued from front side)

Formations: type of material	From	To
	ft	ft

SKETCH SHOWING LOCATION
Locate with reference to highways, intersecting county roads, and distinctive landmarks.

N

W E

(74)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ıty in which well was drilled: Marion Civil Township: _____

gressional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

ɛribe in your own words the well location with respect to nearby towns, roads, streets

distinctive landmarks: 329 N. Vine, East on Vermont off Lynhurst to Vine South

e of owner: Sheffer Address: 329 Vine (N.)

e of Well Drilling Contractor: Merritt Well Drilling Co., Inc.

re--: 2998 Westlane Rd., Indianapolis, Indiana 46268

r Drilling Equipment Operator: Don Kennedy

INFORMATION ON THE WELL

ıpleted depth of well: 35 ft. Date well was completed: May 28, 1968

ıneter of outside casing or drive pipe: 4.25 ~~4½ in.~~ Length: _____

ıneter of inside casing or liner: _____ Length: _____

ıneter of Screen: _____ Length: ~~4½ ft.~~ 4.5 Slot size: No. 8

ɔe of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

e of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

thod of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

atic water level in completed well (Distance from ground to water level) 15 ft.

iler Test: Hours tested _____ Rate 30 g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

mping Test: Hours tested _____ Rate ~~1800 g.p.h.~~ 30 gpm Drawdown 6 ft.

Signature Thomas B. Hadley

Date 7/26/68

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

RMATIONS (Color, type of material, hardness, etc.)

From	To
Top soil and clay	0
Brown gravel	16
Gray gravely clay	20
Gray gravel add sand	32
	35

FOR ADMINISTRATIVE USE ON
(Well driller does not fill out)

COUNTY: [illegible] TWP. 15N RGE. 3E W ¼ ¼ ¼ SEC. [illegible]

Topo Map: [illegible]

Well log classified By [illegible] Date
Courthouse located By ___ Date ___
Field located By ___ Date ___
Acc. w/o verification By ___ Date ___

Ft W of EL.
Ft N of SL.
Ft E of WL.
Ft S of NL.

Ground elevation ___
Depth to bedrock ___
Bedrock elevation ___
Aquifer elevation ___

01-01 180355

INSTRUCTIONS

Water Well Record form is designed to record the most essential data concerning a
. We request that you be as accurate as possible in recording this information as
of great assistance in the planning and development of new water supplies.
curate location of the well is equally as important as an accurate well log.
lude all information possible in the space provided for well location.
ecified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted
ty days after the completion of a well to the Division of Water

~~402430N~~
~~565250E~~

75

WATER WELL RECORD

tate Form 35680

Mail completed record within 30 days to:
DIVISION OF WATER
INDIANA DEPARTMENT OF NATURAL RESOURCES
605 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
PHONE (317) 232-4160

WELL LOCATION
(Fill in completely)

here drilled: Marion

nship:

directions to the well location (Include county road names, numbers, sub-s, lot number with consideration to intersecting roads and trip origina- ere is space for a map on reverse side.

off of Vermont

-104500 4.0N

OWNER — CONTRACTOR

Well owner: Bob Padgett

Address: 340 N Vine

Building contractor:

Address:

Drilling contractor: Matlock

Address: 4701 W Morris

Equipment operator: Jerry Oakley

Completion date: 8-29-85

CONSTRUCTION DETAILS

vell:
d ☐ Gravel pack ☐ Driven ☐ Other

☐ Industry ☐ Test ☐ Irrigation
supply ☐ Stock ☐ Other (specify)

f drilling:
tool ☑ Rotary ☐ Jet ☐ Rev. rotary ☐ Bucket rig

ength	89 feet	Diameter	4 inches
ength	5 feet	Diameter	4 inches
lot size	#6		

pump setting

pump

ersible ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (specify)

WELL CAPACITY TEST

ne)
g ☐ Pumping

10 gpm 1 hrs Drawdown feet

e)
water 10 feet

ear, cloudy, odor, etc.)

WELL LOG

Formations: type of material	From	To
Top Soil	0 ft.	3 ft.
Clay	3	18
Gravel	18	30
Clay	30	89

(Additional space for Well Log on reverse side)

Allen Matlock

Date 8-29-85

FOR ADM 01-01 54050 ~~12~~
(Well d

County: Marion	Twp.: 15N	Rge.: 3E	NW ¼ NE ¼ SE	Sec.: 6
Topo map: Indpls W		Ft. W of EL	Ground elevation: 710	Subdivision name
Field located By: MCBN Date: 1992		Ft. N of SL	Depth to bedrock	Lot no.
Courthouse location By: Date		Ft. E of WL	Bedrock elevation	
Location accepted w/o verification by		Ft. S of NL	Aquifer elevation: 621	

WELL LOG
(Continued from front side)

Formations: type of material	From	To
	ft	ft

SKETCH SHOWING LOCATION
Locate with reference to highways, intersecting county roads, and distinctive landmarks.

N

UTM NORTH 4402430
UTM EAST 565250
**COMMENTS MC

W

E

(116)

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within:
INDIANA DEPARTMENT OF NATURAL
Division of Water
402 W.Washington St., Rm. W.
Indianapolis, IN 46204
(317) 232-4160

'etely

WELL LOCATION

re drilled	Civil township	Township	Range	Section
on		15N	3E	4

ctions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a ersé side.

15 feet west of pump house

OWNER - CONTRACTOR

ll owner: ntral State Hospital — Telephone number:

umber and street, city, state, ZIP code)

ilding-contractor — Telephone number:

umber and street, city, state, ZIP code)

lling contractor: ayne Northern Co. Inc. — Telephone number:

umber and street, city, state, ZIP code): Mishawaka

uip operator: A.D. Hall — License number: — Date of completion: 7/30/55

CONSTRUCTION DETAILS

supply: ☐ Industry ☒ Test ☐ Irrigation ☐ Stock ☐ Other (*specify*):

drilling ool: ☐ Jet ☐ Bucket rig ☐ Rev. rotary ☐ Other

gth feet	Material	Diameter inches
gth feet	Material	Diameter inches

size — Total depth of well

ump setting — Water quality (*clear, cloudy, odor, etc.*)

mp ersible: ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (*specify*):

WELL CAPACITY TEST

☐ Air ☐ Pumping — Test rate: _____ gpm _____ hrs.

feet — Static level (*depth of water*) feet

INFORMATION / WELL ABANDONMENT

Depth of grout From to	Sealing material	Depth filled From To
Number of bags used	Method of installation	Number of bags used

installation

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
Sandy Fill	0	1
Soft brown gritty clay	1	5
Brown sand and gravel	5	34
Grey sand and gravel	34	47
Sand and gravel with boulders	47	51
Clay balls	51	56
Sand and coarse gravel	56	59
Brown shale	59	61

(*Additional space for well log on reverse side*)

ear or affirm, under the penalties that the information submitted to the best of my knowledge and

Signature of owner or authorized representative: [illegible] 2/2/95

Date

01-01 80690

FOR ADMINISTRATIVE USE ONLY
(well driller does not fill out)

County	Township	Range		Section
Marion	15N	3E	SW 1/4 NW 1/4 SW	4

Topo map: Indianapolis West	Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS (type of material)	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

77

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

State Form 35680

Telephone 317-232-4160

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Sheffer Address 300 N. Fleming st.

Building Contractor Address

of Well Drilling Contractor: Hamilton Bros.

of Drilling Equipment Operator:

INFORMATION

of well: 51' Date well was completed: 4-27-54

er of casing or drive pipe: 4 Total Length: 51'

er of liner (if used): Total Length:

er of Screen: Length: Slot Size:

f Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

Well: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

d of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

water level in completed well (Distance from ground to water level) 16 feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

t: Hours Tested Rate 10 g.p.m. Drawdown 2 ft.

(Drawdown is the difference between static level and water level at end of test)

Source of Data: Driller

Signature

Date TMK, Ind. Dept. of Conserv.

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180408

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ SE SEC 6

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation

Depth to bedrock

Bedrock elevation

Aquifer elevation

Subdivision Name

Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
l dirt & clay	0	7
ue clay	7	36
andy clay	36	42
nd & gravel	42	51
ks: Sacca:		

(78)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unty in which well was drilled Marion Civil Township Wayne

iving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

16th St West to Lyndhurst Dr. & go S. to Vermont St. & go East to Fleming & go N.

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Mary Wood Address 302 N. Fleming

Building Contractor _____ Address _____

ie of Well Drilling Contractor: Matlock, Well Drilling

[illegible] West Morris St.

ie of Drilling Equipment Operator: Charles White

LL INFORMATION

h of well: [illegible]

Date well was completed: 12/21/78

ieter of casing or drive pipe: 4" Total Length: _____

eter of liner (if used): _____ Total Length: _____

eter of Screen: 4" Length: [illegible] Slot Size: [illegible]

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

f Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) [illegible] feet

Test: Hours Tested [illegible] Rate [illegible] g.p.m. Drawdown _____ ft.

ing t: Hours Tested _____ Rate _____ g.p.m. Drawdown _____ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Allen Matlock

Date 12/22/78

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180420

COUNTY MARION TWP. 15N RGE. 3E ¼ ¼ SE SEC 6 Subdivision Name

Topo Map INDIANAPOLIS WEST

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by BRUNS 3-7-99

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation

Depth to bedrock

Bedrock elevation

Aquifer elevation

Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Top Soil	0	3
Clay	3	15
Gravel	15	54
Clay	54	57
Gravel & Sand	57	68
Clay	68	70
Gravel & sand		

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180449

COUNTY Marion TWP. 15N RGE. 3E ¼ NE ¼ SW SEC 6 Subdivision Name

Topo Map Indpls W

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by 1/87

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL RECORD

COUNTY: MARION

CIVIL TOWNSHIP:

PERMIT NO.:

DRIVING DIRECTIONS: 325 N. FLEMING

[illegible] 400N

WELL OWNER:

BUILDING CONTRACTOR: GLORIA BREEDON

DRILLING EQUIPMENT OPERATOR: JAMES HERMAN

WELL INFORMATION

WELL DEPTH	CASING DIAMETER	CASING LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
55	4" PVC (MATERIAL)	51			4	4	60	DRILLED	HOME	ROTARY	11/20/85

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
10				1	10	~~30 P/L~~

FORMATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
TOPSOIL & CLAY	0	40
GRAVEL	40	55

HAMILTON BROS. INC.

4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46222

WATER WELL RECORD
State Form 35680R2

Mail completed record within 30 days to:
DIVISION OF WATER
INDIANA DEPARTMENT OF NATURAL RESOURCES
2475 DIRECTORS ROW
INDIANAPOLIS, INDIANA 46241
PHONE (317) 232-4160

80

87-111

WELL LOCATION
(Fill in completely)

where drilled: Marion

ownship: Wayne

g directions to the well location (include county road names, numbers, sub-ons, lot number with consideration to intersecting roads and trip origina- here is space for a map on reverse side.

/ of Rockville Rd
off of Vermont St
4400 W
300 N

OWNER — CONTRACTOR

Well owner: Henry Bellard

Address: 3320 N Fleming

Building contractor:

Address:

Drilling contractor: Mattocks Well

Address: 4701 W Morris

Equipment operator: Jerry Oakley

Completion date: 8/20/87

CONSTRUCTION DETAILS

well:
ed ☐ Gravel pack ☐ Driven ☐ Other

vell:
e ☐ Industry ☐ Test ☐ Irrigation
☐ Stock ☐ Other (specify) _____

ng:
e tool ☑ Rotary ☐ Jet ☐ Rev. rotary ☐ Bucket rig

ength 68 feet	Diameter 4 inches
ength 4 feet	Diameter 4 inches
lot size #6	Total depth

pump setting 45

ump
ersible ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (specify) _____

WELL CAPACITY TEST

ne)
g ☐ Pumping

10 gpm 1 hrs | Drawdown feet

el
water) 20 feet

ality (clear, cloudy, odor, etc.)

WELL LOG

Formations: type of material	From	To
Top Soil	0 ft.	3 ft.
Clay	3	18
Gravel	18	30
Clay	30	40
Gravel	40	55
Clay	55	68

(Additional space for Well Log on reverse side)

Allen Mattock

Date 8/17/87

FOR ADMINISTRATIVE USE ONLY 01-01 180282
(Well driller does not fill out)

inty Marion	Twp. 15N	Rge. 3E	¼ NE ¼ SE	Sec. 6
o map Indianapolis West		Ft. W of EL	Ground elevation	Subdivision name
d located Date		Ft. N of SL	Depth to bedrock	Lot no.
irthouse location Date		Ft. E of WL	Bedrock elevation	
ation accepted w/o verification by		Ft. S of NL	Aquifer elevation	

WELL LOG
(Continued from front side)

Formations: type of material	From	To
	ft	ft

SKETCH SHOWING LOCATION
Locate with reference to highways, intersecting county roads, and distinctive landmarks.

N

W

E

(81)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

State Form 35680

Telephone 317-232-4160

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township Wayne

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

IE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner William Carroll Address 336 N. Fleming

Building Contractor _____ Address _____

e of Well Drilling Contractor: Allen Matlock Well Drilling

4701 West Morris St.

e of Drilling Equipment Operator: Allen Matlock

LL INFORMATION

th of well: 65' Date well was completed: 3/4/81

meter of casing or drive pipe: 4" Total Length: 65'

meter of liner (if used): _____ Total Length: _____

meter of Screen: 4" Length: 5' Slot Size: #6

e of Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other _____

of Well: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

hod of Drilling: Cable Tools [ ] Rotary [X] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

tic water level in completed well (Distance from ground to water level) 20 feet

ler Test: Hours Tested 1 Rate 15 g.p.m. Drawdown _____ ft.

Test: Hours Tested _____ Rate _____ g.p.m. Drawdown _____ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Allen Matlock

Date 3/4/81

FOR AD 01 54053 Y
(Wel..

COUNTY MARION TWP. 15N RGE. 3E NW ¼ NE ¼ SE SEC 6

Topo Map INDIANAPOLIS WEST

Field Located By MCBN Date 1992

Courthouse Location By _____ Date _____

Location accepted w/o verification by [illegible] 5/11/81

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation 711

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation 646

Subdivision Name _____

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
op Soil	0	3
lay	3	50
ravel	50	54
lay	54	65

UTM NORTH 4402410
UTM EAST 565350
**COMMENTS MC

~~9/0E~~

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

State Form 35680

82

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

y in which well was drilled Marion Civil Township

g directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Off Vermont East of Lyndhurst on Cole St.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Thomas Stanfield Address 111 N. Cole St.

Building Contractor _____ Address _____

of Well Drilling Contractor: Matlock Well Drilling

ss. 4801 West Morris St.

Drilling Equipment Operator: Charles White

INFORMATION

of well: 76' Date well was completed: 5/13/80

er of casing or drive pipe: 4" Total Length: 76'

er of liner (if used): _____ Total Length: _____

er of Screen: 4" Length: 5' Slot Size: #6

f Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other _____

Well: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

l of Drilling: Cable Tools [ ] Rotary [X] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

vater level in completed well (Distance from ground to water level) 32 feet

Test: Hours Tested 1 Rate 20 g.p.m. Drawdown _____ ft.

g Test: Hours Tested _____ Rate _____ g.p.m. Drawdown _____ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Allen Matlock

Date 5/15/80

FOR WELL LOG SPACE USE REVERSE SIDE OF ...

WATER WELL LOG

FOR / (01-01 180413 ONLY)

COUNTY Marion TWP. 15N RGE. 3E SW ¼ ~~NW~~ SW ¼ ~~NE~~ SE SEC ~~1~~6 Subdivision Name

Topo Map Indianapolis West ~~NW~~

Field Located By MCBH Date 1992

Courthouse Location By _____ Date _____

Location accepted w/o verification by JR 7-11-80

_____ Ft W of EL. Ground Elevation 737

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation 619 Lot Number _____

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	3	Soil
3	31	el & Sand
31	41	
41	107	
107	117	l
117	118	

UTM NORTH 4401900

UTM EAST 564910

**COMMENTS MC 619

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

(83)

JUN 1960 RECEIVED

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: Marion Civil Township: Wayne

essional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

be in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: _____

f owner: Harold Snepp Address: 111 N. Cole

f Well Drilling Contractor: Allen Matlock

s: 4701 W. Morris

lling Equipment Operator: Woodrow Goode

INFORMATION ON THE WELL

ed depth of well: 78 ft. Date well was completed: 6-15-60

r of outside casing or drive pipe: 4" Length: _____

r of inside casing or liner: None Length: _____

r of Screen: 3" Length: 4' Slot size: #6

Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) 15 ft.

Test: Hours tested 1 Rate 1 g.p.m. Drawdown 15 ft. (Difference between static level and water level at end of test)

Test: Hours tested 1 Rate 10 g.p.m. Drawdown 15 ft.

Signature Allen Matlock

Date 6-21-60

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
Top Soil	0	3
Clay - Yellow	3	20
Clay - Brown	20	45
Sand + gravel	45	78

RKS:

graphic log

FOR ADMINISTRATIVE USE
(Well Driller does not fill out)

COUNTY: MARION TWP. 15N RGE. 3E NW ¼ SW ¼ SE ¼ SEC. 6

Topo. Map: Indianapolis W

El. of grnd. surface at well: _____ Loc. accepted w/o verification Yes ✓ No ___

Depth to bedrock: _____ Courthouse Loc. By _____ Date _____

Well Log processed by: DTB Field Located By _____ Date _____

Placed in Master Well Log File Date 26-3-62

01-01 180385

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ SEC Subdivision Name

Topo Map Indgo W

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

WATER WELL RECORD

MARION CIVIL TOWNSHIP PERMIT NO.

DIRECTIONS

115 N. COLE St.

W 47[illegible] [illegible]

NER BUILDING CONTRACTOR DRILLING EQUIPMENT OPERATOR

CARL MERKLE LESTER HARNESS

WELL INFORMATION

CASING DIAMETER	MATERIAL LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
" PVC	75			4	4	60	DRILLED	HOME	ROTARY	10/31/83

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
40				1	10	~~[illegible] P/L~~

S (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
L & CLAY	0	25
GRAVEL	25	50
	50	70
GRAVEL	70	78

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

STATE COPY

84

85

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209

~~Permit # 789~~

WATER WELL RECORD

INFORMATION ON WELL LOCATION

in which well was drilled: MARION Civil Township: _____

essional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

be in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: _____

(4900 W)

f owner: CARL MERKLE Address: 265 N COLE ST

f Well Drilling Contractor: Hamilton Bros Inc

Drilling Equipment Operator: Bill Powell

INFORMATION ON THE WELL

ted depth of well: 60 ft. Date well was completed: 6/30/70

er of outside casing or drive pipe: 4" ~~[illegible]~~ Length: 5[illegible]'

er of inside casing or liner: _____ Length: _____

er of Screen: 4" Length: 2' Slot size: #6

f Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) _____ ft.

Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

g Test: Hours tested 2 Rate 10 g.p.m. ~~Drawdown~~ TC [illegible] ft.

Signature Bill Powell

Date 6/30/70

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

TIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	48
Sand & gravel	48	60
= 703		
4"		
ction #16 - Middle Unit (B)		

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out) 01-01 180400

COUNTY: Marion TWP. 15N RGE. 3E SW ¼ NW ¼ SE ¼ SEC. 6

Topo Map: Elmdale Wood

Well log classified By ____ Date ____
Courthouse located By ____ Date ____
Field located By ____ Date 5-74
Acc. w/o verification By Wff Date 7-17-70

2100 Ft W of EL. Ground elevation 735
1400 Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
____ Ft S of NL. Aquifer elevation 687

INSTRUCTIONS

s Water Well Record form is designed to record the most essential data concerning a
ll. We request that you be as accurate as possible in recording this information as
e of great assistance in the planning and development of new water supplies.
accurate location of the well is equally as important as an accurate well log.
nclude all information possible in the space provided for well location.
specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted
hirty days after the completion of a well to the Division of Water

(Well (does not fill out) 01-01 180394

Reference 133 Page 189

CC Y Marion TWP. 15N RGE. 3 ¼ NW ¼ SE SEC 6 Subdivision Name

Topo Map Indianapolis West

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by SAW-SLP 3/16/79

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

WATER WELL RECORD

COUNTY MARION CIVIL TOWNSHIP PERMIT NO.

DRIVING DIRECTIONS 279 N COLE ST 4900W

WELL OWNER BUILDING CONTRACTOR MR MERKLE ORILLING EQUIPMENT OPERATOR CHARLES ARTHUR

WELL INFORMATION

LL TH	CASING DIAMETER	MATERIAL LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
61	4" PVC	58			4	3	60	DRILLED	HOME	ROTARY	9/05/78

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
30				1	10	~~40 P/L~~

IMATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
OPSOIL & CLAY	0	48
RAVEL	48	50
LAY	50	56
RAVEL	56	61

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

(87)

Replacement well dropped something in top of Sub

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

West on Michigan to Big Eagle Creek Park South to Vermont West again to Cole about 1 mi, goes south. (Dead end)

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Earl Merkle Address 279 Cole St

Building Contractor Address

of Well Drilling Contractor: Cinda Drilling
2746 E. Edgewood

of Drilling Equipment Operator: Ray Cinlee

L INFORMATION

of well: 70 Date well was completed: 8-81

ter of casing or drive pipe: 4" Total Length: 67

ter of liner (if used): Total Length:

ter of Screen: ~~3" OD~~ 3.75 Length: 5' Slot Size: #40

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Well: For Home ☒ For Industry ☐ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) 27 feet

Test: Hours Tested 1 Rate 10 g.p.m. Drawdown 4 ft.

ng t: Hours Tested 1 Rate 10 g.p.m. Drawdown 4 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature R J Cinlee

Date Aug 30, 82

FOR ADMINI[illegible]TIVE USE ONLY
(Well drille[illegible] does not fill out)

01-01 180354

COUNTY MARION TWP. 15 N RGE. 3E ¼ NW ¼ SE SEC 6

Subdivision Name

Topo Map INDPLS. WEST

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by BEONS 12-21-82

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Yellow Clay	0	20
Brown Clay	20	NK
Sandy Clay	NK	65
Gravel	65	70

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209

88

Permit # 1182

JUL 1971
RECEIVED

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: Marion Civil Township: _____

essional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

ibe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: _____

of owner: Joe Trenton Address: 300 N Cole

of Well Drilling Contractor: Hamilton Bros Inc

Drilling Equipment Operator: Rash

INFORMATION ON THE WELL

eted depth of well: 60 ft. Date well was completed: 3-11-71

ter of outside casing or drive pipe: 4" Bit Length: 57'

ter of inside casing or liner: _____ Length: _____

ter of Screen: 3" Length: 5' Slot size: #40

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other ~~22' Pt. 600 gpd~~

f Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

d of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

c water level in completed well (Distance from ground to water level) _____ ft.

r Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

ng Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature Rash

Date 3-11/71

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180415

COUNTY: [illegible] TWP. [illegible] RGE. [illegible] ¼ ¼ ¼ SEC. [illegible]

Topo Map: NDPLS. WEST

Well log classified By ____ Date ____
Courthouse located By ____ Date ____
Field located By ____ Date 5/74
Acc. w/o verification By ____ Date ____

2300 Ft W of EL. Ground elevation 722
1800 Ft N of SL. Depth to bedrock ____
Ft E of WL. Bedrock elevation ____
Ft S of NL. Aquifer elevation ____

ATIONS (Color, type of material, hardness, etc.)	From	To
Top soil & clay	0	4
Sand	4	8
Clay	8	18
Sand	18	19
Clay	19	45
Sand	45	60

INSTRUCTIONS

s Water Well Record form is designed to record the most essential data concerning a
ll. We request that you be as accurate as possible in recording this information as
e of great assistance in the planning and development of new water supplies.
accurate location of the well is equally as important as an accurate well log.
nclude all information possible in the space provided for well location.
specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted
hirty days after the completion of a well to the Division of Water

89

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Vell Owner Bauman Address 301 N. Cole St.

Building Contractor Address

Well Drilling Contractor: Hamilton Bros

Drilling Equipment Operator:

INFORMATION

well: 46' Date well was completed: 1955

of casing or drive pipe: 4 Total Length: 43

of liner (if used): Total Length:

of Screen: Length: Slot Size:

Vell: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

ll: For Home ☒ For Industry ☐ For Public Supply ☐ Stock ☐

f Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

er level in completed well (Distance from ground to water level) feet

t: Hours Tested Rate g.p.m. Drawdown ft.

Hours Tested Rate 10 g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Source of Data: Driller

~~Signature~~

~~Date~~ THK, Ind. Dept. of Conserv.

Copied from card

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out) 01-01 180399

COUNTY Marion TWP. 15N RGE. 3E ¼ NW ¼ SE SEC. 6 Subdivision Name

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Gravel	0	40
Green Clay	40	46

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

(90)

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ity in which well was drilled: MARION Civil Township: WAYNE

ressional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

istinctive landmarks: _____

Wm. Shelton

of owner: BEST CONST. CO. Address: 345 COLE

of Well Drilling Contractor: HARLAN MILLER WELL & PUMP CO.

ess: 1726 HAMBLEN W. DR. INDIANAPOLIS 31, IND.

rilling Equipment Operator: A. C. BOWEN

INFORMATION ON THE WELL

eted depth of well: 53' ft. Date well was completed: 5-11-61

ter of outside casing or drive pipe: 4" Length: 49'

ter of inside casing or liner: — Length: —

ter of Screen: 3" Length: 5' Slot size: #6

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

f Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

d of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

c water level in completed well (Distance from ground to water level) 7' ft.

r Test: Hours tested 1 Rate 14 g.p.m. Drawdown 4' ft. (Difference between static level and water level at end of test)

ng Test: Hours tested — Rate — g.p.m. Drawdown — ft.

Signature Harlan Miller

Date 7-31-61

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG **Reference 133** **Page 197**

ORMATIONS (Color, type of material, hardness, etc.)	From	To
CLAY	0	32'
SAND	32'	39'
CLAY	39'	47'
SAND - WATER	47'	49'
SAND & GRAVEL & WATER	49'	53'

FOR ADMINISTRATIVE USE ONLY
(Well Driller does not fill out) 01-01 180375

COUNTY: _____ TWP. 15 RGE. _____ SW ¼ NW ¼ SE ¼ SEC. 6

Topo. Map: [illegible]

Loc. accepted w/o verification Yes ___ No ___

El. of grnd. surface at well: 715

Depth to bedrock: _____ Courthouse Loc. _____ By _____ Date _____

Well Log processed by: [illegible] Field Located ✓ By D. Jordan Date 2/1965

Placed in Master Well Log File Date _____

2450' WL & 2150' SL

[illegible] 662

FEET W [illegible]
FEET N [illegible] 2150
FEET E [illegible] 2450
FEET S OF NL _____
BEDROCK ELEV _____
UTM NORTH _____
UTM EAST _____
SUBDIVISION _____
**COMMENTS _____ MC _____

KS:

graphic log

INSTRUCTIONS

his Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana nent of Conservation, 311 West Washington Street, Indianapolis, Indiana.

(91)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

MAY 1960 RECEIVED

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: MARION Civil Township: WAYNE

essional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

be in your own words the well location with respect to nearby towns, roads, streets stinctive landmarks: 347 N COLE ST EAST SIDE ST

4800 W

f owner: C.E DAVIS Address: 350 W 16 St.

f Well Drilling Contractor: HARLAN MILLER

1726 W HAMPTEN DR

f Drilling Equipment Operator: A. BOWEN

INFORMATION ON THE WELL

ted depth of well: 55 ft. Date well was completed: 3/31/60

er of outside casing or drive pipe: 4" Length: 52'

er of inside casing or liner: _____ Length: _____

er of Screen: ~~3½~~ 3.5 Length: 5' Slot size: No 6

f Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) 10 ft.

Test: Hours tested 1 Rate 10 g.p.m. Drawdown 0 ft. (Difference between static level and water level at end of test)

g t: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature [illegible]

Date 4/11/60

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
CLAY	0	44'
GRAVEL	44'	55'

RKS:

FOR ADMINISTRATIVE U[illegible]NLY
(Well Driller does not [illegible]l out)

01-01 180439

COUNTY: Marion TWP. 15N RGE. 3E ¼ ¼ SE ¼ SEC. 6

Topo. Map: Clermont ~~[illegible]~~ Loc. accepted w/o verification Yes ✓ No ___

El. of grnd. surface at well: ___ Courthouse Loc. By ___ Date ___

Depth to bedrock: ___ Field Located By ___ Date ___

Well Log processed by: [illegible] Placed in Master Well Log File Date 4-8-62

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as y be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. e include all information possible in the space provided for well location. As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

(92)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

RECEIVED MAY 1960 Dept. of Conservation Div. of Water Resources

WATER WELL RECORD

INFORMATION ON WELL LOCATION

in which well was drilled: MARION Civil Township: WAYNE

sional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

e in your own words the well location with respect to nearby towns, roads, streets inctive landmarks: 349 N COLE ST EAST SIDE ST.

owner: O. E. DAVIS CONTR. Address: 350 W 16TH ST

Well Drilling Contractor: HARLAN MILLER

: 1726 W HAMPTON DR

Drilling Equipment Operator: A. BOWEN

INFORMATION ON THE WELL

ed depth of well: 54 ft. Date well was completed: 3/30/60

r of outside casing or drive pipe: 4" Length: 51'

r of inside casing or liner: _____ Length: _____

r of Screen: ~~3½"~~ 3.5 Length: 5' Slot size: No 6

Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) 7 ft.

Test: Hours tested 1 Rate 10 g.p.m. Drawdown 3 ft. (Difference between static level and water level at end of test)

Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature [illegible]

Date 4/11/60

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	44
GRAVEL	44	54

S:

FOR ADMINISTRATIVE USE ONLY
(Well Driller does not fill out) 01-01 100345

COUNTY: Marion

Topo. Map: Indy West TWP. 15N RGE. 3E ¼ ¼ SE ¼ SEC. 6

El. of grnd. surface at well: Loc. accepted w/o verification Yes ✓ No

Depth to bedrock: Courthouse Loc. By Date

Field Located By Date

Well Log processed by: [illegible] Placed in Master Well Log File Date [illegible]-62

INSTRUCTIONS

is Water Well Record form is designed to record the most essential data concerning a ell. We request that you be as accurate as possible in recording this information as e of great assistance in the planning and development of new water supplies. accurate location of the well is equally as important as an accurate well log. nclude all information possible in the space provided for well location. specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted hirty days after the completion of a well to the Division of Water Resources, Indiana nt of Conservation, 311 West Washington Street, Indianapolis, Indiana.

(93)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

State Form 35680

Telephone 317-232-4160

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township _____

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

_____

_____

_____

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Litzman Address 3006 N. Cole

Building Contractor _____ Address _____

Drilling Contractor: Robert Edwards

_____

Drilling Equipment Operator: _____

INFORMATION

f well: 56' Date well was completed: _____

r of casing or drive pipe: 4 Total Length: _____

r of liner (if used): _____ Total Length: _____

r of Screen: ~~Steel~~ Length: _____ Slot Size: _____

Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other _____

Vell: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ater level in completed well (Distance from ground to water level) _____ feet

es Hours Tested _____ Rate _____ g.p.m. Drawdown _____ ft.

t: Hours Tested _____ Rate 10 g.p.m. Drawdown 20 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature _____

Date _____

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180418

COUNTY Marion TWP. 15N RGE. 3E SW ¼ NW ¼ SE SEC 6

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by WJS 10-18-57

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation

Depth to bedrock

Bedrock elevation

Aquifer elevation

Subdivision Name

Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Y	0	10
d	10	14
d - Gravel	14	35
d	35	39
d - Gravel	39	45
	45	56

COUNTY MARION TWP. 15 N RGE. 3E SE ¼ NE ¼ SEC. Subdivision Num.

Topo Map INDNPLS. WEST

Field Located By MCBN Date 1992

Courthouse Location By Date

Location accepted w/o verification by JMB 7-11-80

Ft W of EL. Ft N of SL. Ft E of WL. Ft S of NL.

Ground Elevation 742

Depth to bedrock

Bedrock elevation

Aquifer elevation 656

Lot Number

WATER WELL RECORD

UTM NORTH 4402350
UTM EAST 564675
**COMMENTS MC

PERMIT NO. 0337

CIVIL TOWNSHIP: MARION

DIRECTIONS: 213 N. AUBURN

OWNER: ARLIE PICKARD

BUILDING CONTRACTOR: ARLIE PICKARD

DRILLING EQUIPMENT OPERATOR: DEXTER HARNESS

WELL INFORMATION

CASING DIAMETER	MATERIAL	CASING LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
4"	PVC	42			4	3	60	DRILLED	HOME	ROTARY	3/03/10

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
40				1	10	~~65 P/C~~

NS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
OIL & CLAY	0	70
L	70	86

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

STATE COPY

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

SEP 1965
RECEIVED
Dept. of Nat. Resources
Division of Water

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: _____ Civil Township: _____

essional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

ibe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: _____

00 ft

of owner: William Duziak Address: 240 N Auburn

of Well Drilling Contractor: H R

of Drilling Equipment Operator: Les Harness

INFORMATION ON THE WELL

leted depth of well: 68 ft. Date well was completed: 8-28-65

eter of outside casing or drive pipe: 4" Length: 66'

eter of inside casing or liner: — Length: _____

eter of Screen: 4" Length: 2' Slot size: #60

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

of Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Driven ☐

tic water level in completed well (Distance from ground to water level) _____ ft.

ler Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

ping Test: Hours tested 4 Rate 10 g.p.m. ~~Drawdown~~ _____ ft.

Signature _____

Date _____

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	60
Sand & gravel	60	68

KS:

FOR ADMINISTRATIVE USE O
(Well driller does not fill out) 01-01 180395

COUNTY: Madison TWP. 15N RGE. 3E ¼ ¼ ¼ SEC. 6

Topo Map: Indpls. Cat. X/2

Well log classified By [illegible] Date 10-6-5
Courthouse located By ___ Date ___
Field located By ___ Date ___
Acc. w/o verification By [illegible] Date 10-6-5

___ Ft W of EL. Ground elevation ___
___ Ft N of SL. Depth to bedrock ___
___ Ft E of WL. Bedrock elevation ___
___ Ft S of NL. Aquifer elevation ___

INSTRUCTIONS

his Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ent of Conservation.

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

(ale)

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: Marion Civil Township: _____

essional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

ibe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: 310 N Auburn

5500 W

of owner: Paul White Address: _____

of Well Drilling Contractor: Hamilton Bros Inc

4125 Rockville Rd

Drilling Equipment Operator: [illegible]

INFORMATION ON THE WELL

eted depth of well: 66' ft. Date well was completed: _____

ter of outside casing or drive pipe: ~~4.10~~ (4.25) Length: 64

ter of inside casing or liner: _____ Length: _____

ter of Screen: 4" Length: 1' ~~[illegible]~~ Slot size: _____

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

f Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Driven ☐

c water level in completed well (Distance from ground to water level) 30 ft.

r Test: Hours tested _____ Rate _____ g.p.m. Drawdown 30 ft. (Difference between static level and water level at end of test)

ng Test: Hours tested 1 Rate 10 g.p.m. Drawdown _____ ft.

Signature _____

Date _____

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

MATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	25
Sand	25	27
Clay	27	60
Sand	60	66

S:

FOR ADMINISTRATIVE USE ONLY
(Well Driller does not fill out)

01-01 180410

COUNTY: Marion TWP. 15 RGE. 3E NE ¼ NE ¼ SW ¼ SEC. 6

Topo Map: Clermont 7½ Loc. accepted w/o verification Yes ✓ No ___

Well log classified By 4 Date 5-64 Ground elevation ___ Ft W of EL
Courthouse located By ___ Date ___ Depth to bedrock ___ Ft N of SL
Field located By ___ Date ___ Bedrock elevation ___ Ft E of WL
Placed in master well log file Date 4-5-64 Aquifer elevation ___ Ft S of NL

INSTRUCTIONS

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97

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

State Form 35680

Telephone 317-232-4160

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

IE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Ristow Address 4910 Rockville Rd.

Building Contractor Address

e Well Drilling Contractor:

e of Drilling Equipment Operator: Robert Edwards

LL INFORMATION

h of well: 89' Date well was completed:

ieter of casing or drive pipe: 8 Total Length:

ieter of liner (if used): Total Length:

ieter of Screen: ~~Book~~ Length: 11' Slot Size: 70#

of Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

of Well: Dom. For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

od of Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

c water level in completed well (Distance from ground to water level) feet

r Hours Tested Rate g.p.m. Drawdown ft.

Test: Hours Tested Rate 200 g.p.m. Drawdown 66 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180388

COUNTY Marion TWP. 15N RGE. 3E SE ¼ SE ¼ SE ¼ SEC 6

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation

Depth to bedrock

Bedrock elevation

Aquifer elevation

Subdivision Name

Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	10
Sandy clay	10	20
Clay	20	76
Sand Gravel	76	89

(98)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

State Form 35680

Telephone 317-232-4160

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Bistow Address Rd. 36

Building Contractor Address

of l Drilling Contractor: Hamilton Bros

of Drilling Equipment Operator: John Galloday

INFORMATION

of well: 90' Date well was completed: 8-20-53

er of casing or drive pipe: 4 Total Length:

er of liner (if used): Total Length:

er of Screen: ~~Slot screen~~ Length: Slot Size:

f Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

Well: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

d of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

water level in completed well (Distance from ground to water level) feet

Te Hours Tested Rate g.p.m. Drawdown ft.

Test: Hours Tested Rate 10 g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Driller

~~Date~~ TNK, Ind. Dept. of Conservation

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180419

COUNTY Marion TWP. 15N RGE. 3E NW ¼ SE ¼ SE SEC 6

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation

Depth to bedrock

Bedrock elevation

Aquifer elevation

Subdivision Name

Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	15
Sand	15	25
Clay	25	84
Gravel	84	90

2910N
5135E

(99)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

WATER WELL RECORD

INFORMATION ON WELL LOCATION

nty in which well was drilled: Marion Civil Township: Wayne

gressional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

cribe in your own words the well location with respect to nearby towns, roads, streets

listinctive landmarks: 1320' west of Grande Ave. & 200' south of Eagle Creek

e of owner: City of Indianapolis Address: Board of Park Commissioners
1426 West 29th St., Indianapolis, Ind.

e of Well Drilling Contractor: Clark Drilling Co.

1015 East 28th St., Indianapolis 5, Ind.

of Drilling Equipment Operator: R. Hansen

INFORMATION ON THE WELL

pleted depth of well: 53 Ft. Date well was completed: April 12, 1962

meter of outside casing or drive pipe: 8" Length: ~~43'8"~~ 43.66

meter of inside casing or liner: _____ Length: _____

meter of Screen: 8" Length: 10' Slot size: 60 slot

e of Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other _____

of Well: For home [ ] For industry [ ] For public supply [X] (For sprinkling) Stock [ ]

hod of Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Driven [ ]

tic water level in completed well (Distance from ground to water level) 9'6" Ft.

ler Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ Ft. (Difference between static level and water level at end of test)

pi Test: Hours tested 4 Rate 153 g.p.m. Drawdown ~~18'6"~~ 18.5 Ft.

Signature F. K. Clark

Date July 9, 1962

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FOR ADMIN 01-01 54
(Well Driller does not fill out)

COUNTY: Marion TWP. 15N RGE. 3E 1/4 SW 1/4 NE 1/4 SEC. 6

Topo. Map: Indy West II Loc. accepted w/o verification Yes ✓ No

El. of grnd. surface at well: 714 Courthouse Loc. By Date

Depth to bedrock: Field Located By MCBN Date 1992

Well log processed by: [illegible] Placed in Master Well Log File Date 2-8-62

Agel-644

UTM NORTH 4402910
UTM EAST 565135
**COMMENTS MC 644

ORMATIONS (Color, type of material, hardness, etc.)	From	To
Top soil	0	1'
Sandy brown clay	1'	6'
Muddy sand	6'	13'
Sandy brown clay	13'	20'
Sand & gravel	20'	22'
Blue clay	22'	28'
Sand & gravel	28'	34'
Gray clay	34'	37'
Medium coarse sand)	37'	41'
Clean medium sand & gravel) active, clean 37' - 52'6"	41'	48'
Coarse sand & gravel)	48'	52.5 ~~52'6"~~
Clay	52.5 ~~52'6"~~	67'
Hard grey clay	67'	70'

C.

S: (Backfilled hole 70' to 53' with sand & gravel)

graphic log

INSTRUCTIONS

Water Well Record form is designed to record the most essential data concerning a
l. We request that you be as accurate as possible in recording this information as
of great assistance in the planning and development of new water supplies.
ccurate location of the well is equally as important as an accurate well log.
clude all information possible in the space provided for well location.
pecified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted
irty days after the completion of a well to the Division of Water Resources, Indiana
of Conservation, 311 West Washington Street, Indianapolis, Indiana.

RECORD OF WATER WELL

State Form 35680 (R3 / 11-87)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

completely)

WELL LOCATION

County where drilled	Civil township	Township	Range	Section
Marion				

Driving directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there is space for a map on reverse side.

approx. 1 block east of Tibbs & 10th St

OWNER - CONTRACTOR

Name of well owner: Williams Bait & Tackle	Telephone Number: (317) 632-5881
Address (Street and number, city, state): 3337 W. 10th St. Indpls.	ZIP code:
Name of building contractor: —	Telephone number: ( )
Address (Street and number, city, state):	ZIP code:
Name of drilling contractor: Dean Well Drilling, Inc.	Telephone number: 317 787-4146
Address (Street and number, city, state): 841 W. Sumner Ave. Indpls.	ZIP code: 46217

Name of equipment operator	License number	Date of completion
John Aufderheide	231	Feb. 7, 1990

CONSTRUCTION DETAILS

Use of well: ☐ Home ☐ Industry ☐ Test ☐ Irrigation ☐ Public supply ☑ Stock ☑ Other (specify): minnow tank

Method of drilling: ☑ Rotary ☐ Rev. rotary ☐ Cable tool ☐ Jet ☐ Bucket rig ☐ Other

Casing length	Material	Diameter
66 feet	~~SDR 21~~ PVC	5 inches

Screen length	Material	Diameter
3 feet	SS ~~Stainless steel~~	5 inches

Screen slot size: .030

Total depth of well: 69'

Depth of pump setting: 40'

Water quality (Clear, cloudy, odor, etc.): clear

Type of pump: ☐ Shallow-well jet ☑ Submersible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

Check one: ☑ Air ☐ Bailing ☐ Pumping

Test rate: 30 gpm 2 hrs.

Drawdown: 16' feet

Static level (depth to water): 24 feet

GROUTING INFORMATION

Material	Depth of grout	Number of bags used
bentonite	From 0 To 38	4

Method of installation: Tremmie

WELL ABANDONMENT

Sealing material	Depth filled	Method of installation	Number of bags used
bentonite	From 0 To 46	Tremmie	1

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
brown clay	0	5
fine sand	5	35
brown clay	35	46
sand & gravel	46	47
sandy brown clay	47	66
sand & gravel (~~did not bottom out~~)	66	78

Abandoned existing 4" steel casing well 0-46 where pump is lodged

(Additional space for well log on reverse side)

I hereby swear or affirm, under the penalties for perjury that

Signature of owner or authorized representative

Date

F 01-01 54026 ONLY ut)

County	Township	Range		Section
Marion	15N	3E	NW ¼ NW ¼ NW	4

Topo map				
Indpls. West ~~7½~~	Ft. W of EL	Ground elevation 718	Subdivision name	
Field located By MCBH Date 1992	Ft. N of SL	Depth to bedrock	Lot number	
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.	
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation 640		

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

UTM NORTH 4403460
UTM EAST 567160
**COMMENTS MC 640

101

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

-y in which well was drilled: Marion Civil Township: Wayne

ng directions to the well location:
feet West of West Side of #5 Well House
1 feet South of Center line of 10th Street

of property owner (if known): Allison Division G.M.C. Plant No. 3
ss of owner:
of ilding contractor (if known):
well Drilling Contractor: Layne Northern
s: Mishawaka, IN
f drilling equipment operator: Ewing Allen

INFORMATION ON THE WELL

of well: 121 Date well was completed: October. 10, 1968
er of casing or drive pipe: 16 Total length: 106
er of liner (if used): Total length:
er of Screen: 16 Length: 15 Slot size: .130
Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other
Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐
of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☑ Jet ☐ Bucket Rig ☐
water level in completed well (Distance from ground to water level) 38 ft.
Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)
st: Hours tested 12 Rate 316 g.p.m. Drawdown 88 ft.

Signature

WATER WELL LOG

MINISTRATIVE ONLY
01-01 183325 (Driller does not fill out)

COUNTY: MARION TWP. 15N RGE. 3E NW ¼ NW ¼ NE ¼ SEC. 6

Topo Map: I W

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

2400 Ft W of EL. Ground elevation 724'

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

1010 Ft S of NL. Aquifer elevation _____

C. (add'l info stapled to log)

Subdivision Name: Allison Gmc Plant #3

Lot Number _____

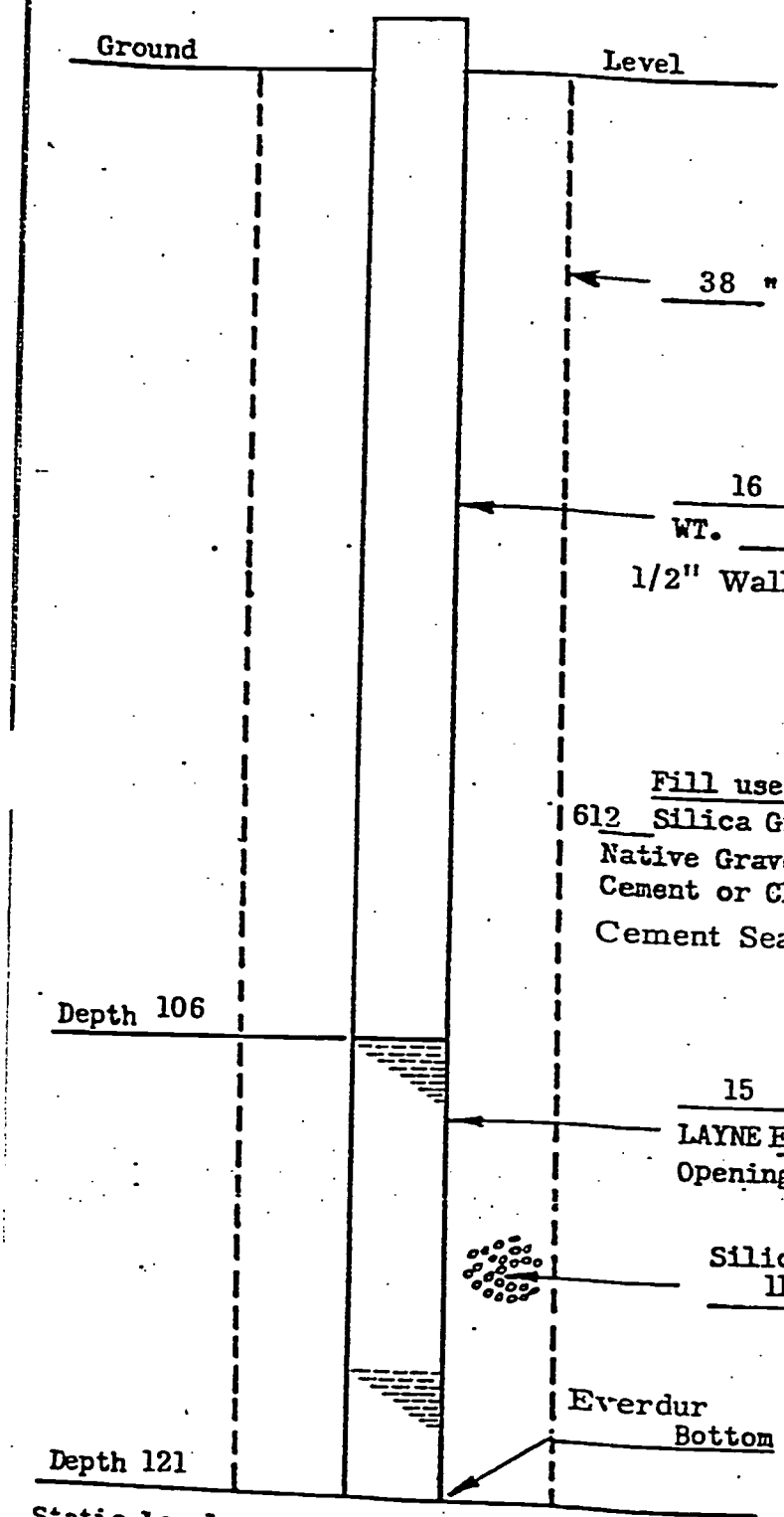
From	To	Formations (Color, type of material, hardness, etc.)
0	14	Top Gravel
14	35	Clay
35	46	S & Clay
46	62	S & G
62	80	Clay and Sand
80	87	S & G
87	95	Clay and Sand
95	108	Clay
108	114	Fine Sand
114	116.5	Sand and Clay
116.5	121	Fine Gravel

REMARKS:

Pipe extends 1.5 feet above ground level

Job No. C-2

Location:
34' W. of W. Side of #5 Well Hse.
81' S. of centerline of 10th St.



Pipe Tally	Welded Threaded
Bottom	

Fill used from Bottom Up:

612	Silica Gravel	121	to	84 ft.
	Native Gravel	74	to	3 ft.
	Cement or Clay	3	to	0 ft.
	Cement Seal	84	to	74 ft.

Static Level 38'
Yield 316 GPM
at 88 pumping level

Driller Ewing Allen
Date Finished October 10, 1968
Not drawn to scale.

LAYNE GRAVEL WALL WELL NO. 5A
for
ALLISON DIV. G.M.C.
PLANT NO. 3

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY

102

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

unty in which well was drilled: Marion Civil Township: Wayne

iving directions to the well location: Plant #3 - between #6 and #7 Layne well.

e of property owner (if known): Allison Engineering Division

ress of owner:

e of building contractor (if known):

Well Drilling Contractor: Layne Northern

: Mishawaka, IN

of drilling equipment operator: Charles E. Poole

INFORMATION ON THE WELL

h of well: 117 Date well was completed: Dec. 4, 1940

meter of casing or drive pipe: 16 Total length: 90.75

eter of liner (if used): Total length:

eter of Screen: 8 Length: 25.25 Slot size: NO. 4

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

c water level in completed well (Distance from ground to water level) 26 ft.

r Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

n est: Hours tested ____ Rate 285 g.p.m. Drawdown 37 ft.

Signature

L. (Well No. 2)

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 3395

COUNTY: MARION TWP. 15N RGE. 3E NW ¼ NW ¼ NE ¼ SEC. 6

Topo Map: I W

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

[illegible] Ft W of EL. Ground elevation 1244

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

350? Ft S of NL. Aquifer elevation _____

Subdivision Name ~~Allison GMC~~ ~~Plant #7~~

Lot Number _____

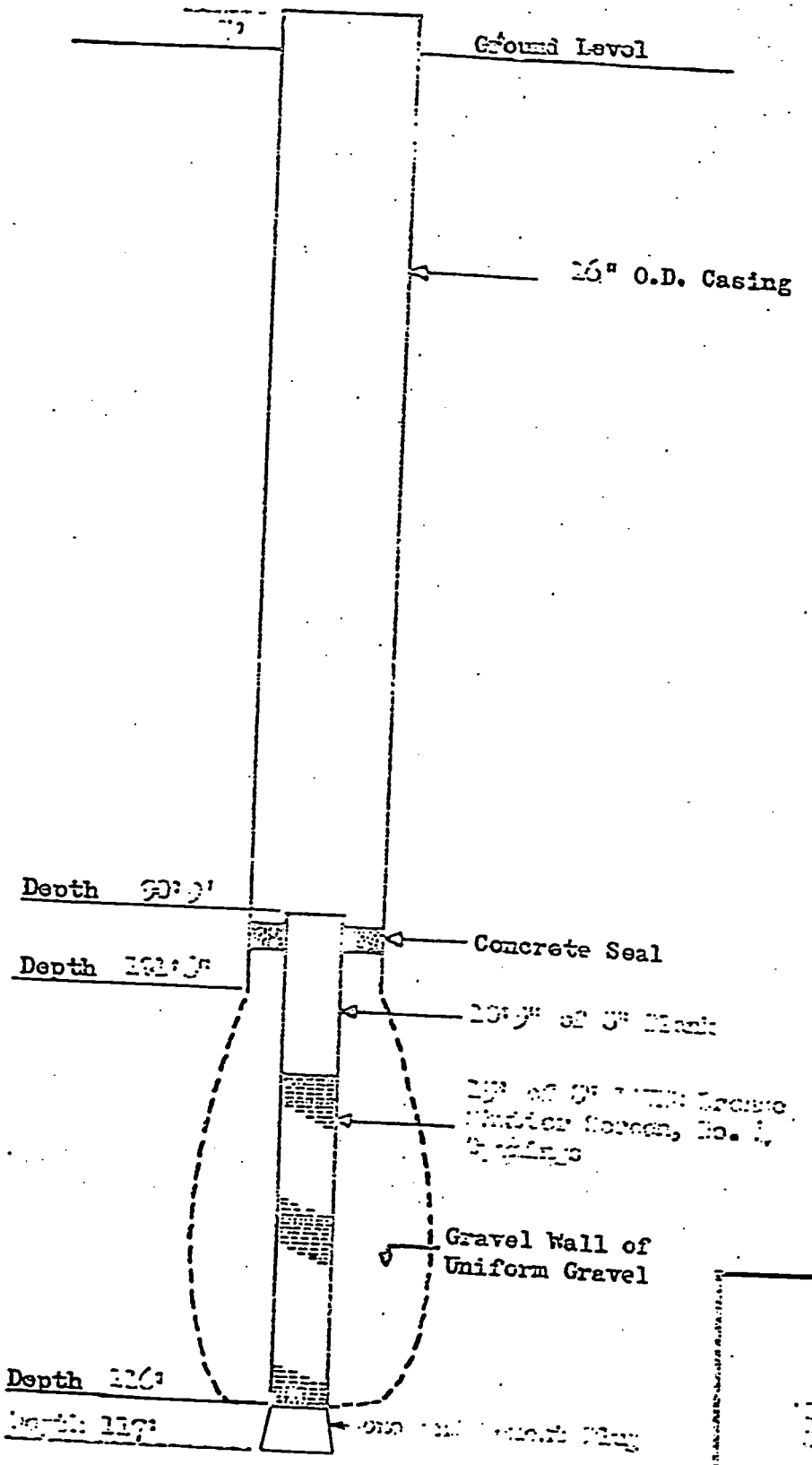
C. (Casing extends above ground)
C. (addt'l info stapled to log)

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	34	Stg
34	37	Clay
37	42	Stg
42	47	Clay
47	48	Sand
48	52	Clay
52	59	Stg
59	92	Hard Gritty Clay
92	93	Stg
93	100	Hard Gritty Clay
100	103	Sand and Gravel
103	117	Sand and Gravel

REMARKS:

C-1580E



Marion Co.
Wayne Drop

.9 Single Cased
LAYNE GRAVEL WALL WELL
for

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY | DRAWING No.

iller
Date Finished

Not drawn to Scale
All depths measured
from ground level

Static Level 27'
Pumped 285 GPM
at 64' Pumping Level

103

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209

WATER WELL RECORD

INFORMATION ON WELL LOCATION

nty in which well was drilled: Marion Civil Township: Wayne

gressional township: 15N Range: 3E Number of section: 6

(Fill in as completely as possible)

cribe in your own words the well location with respect to nearby towns, roads, streets distinctive landmarks: 35 feet South of South Side of #7 Mill House, 35 feet East of center line of Cossell Road

e of owner: Allison Division G.M.C. Plant #3 Address:

e of Well Drilling Contractor: Layne Northern

ss: Mishawaka, IN

e of Drilling Equipment Operator: Ewing Allen

INFORMATION ON THE WELL

pleted depth of well: 117 ft. Date well was completed: October 21, 1968

meter of outside casing or drive pipe: 18 Length: 117

meter of inside casing or liner: Length:

meter of Screen: 18 Length: 15 Slot size: .130

pe of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

e of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

thod of Drilling: ☑ Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐ Reverse Circular

atic water level in completed well (Distance from ground to water level): 37 ft.

iler Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

Test: Hours tested 12 Rate 361 g.p.m. Drawdown 95 ft.

Signature

Date

Topo Map: Tudyls. Wood

Well log classified By [illegible] Date 11/68
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By [illegible] Date 11/68

TWP. [illegible] RGE. [illegible] NW ¼ NW ¼ NE ¼ SEC. 6

2650 Ft W of EL. Ground elevation 1121±
____ Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
~650 Ft S of NL. Aquifer elevation ____

C. (Well No. 7A)

C. (Casing extends 2 feet above ground)

C. (addt'l info stapled to log)

FORMATIONS (Color, type of material, [illegible])	From	To
Gravel and Boulders	0	35
Clay	35	37
S+G	37	64
Clay	64	101
Fine Sand	101	107
Medium Sand and Gravel	107	117

REMARKS:

~~graphic log~~

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

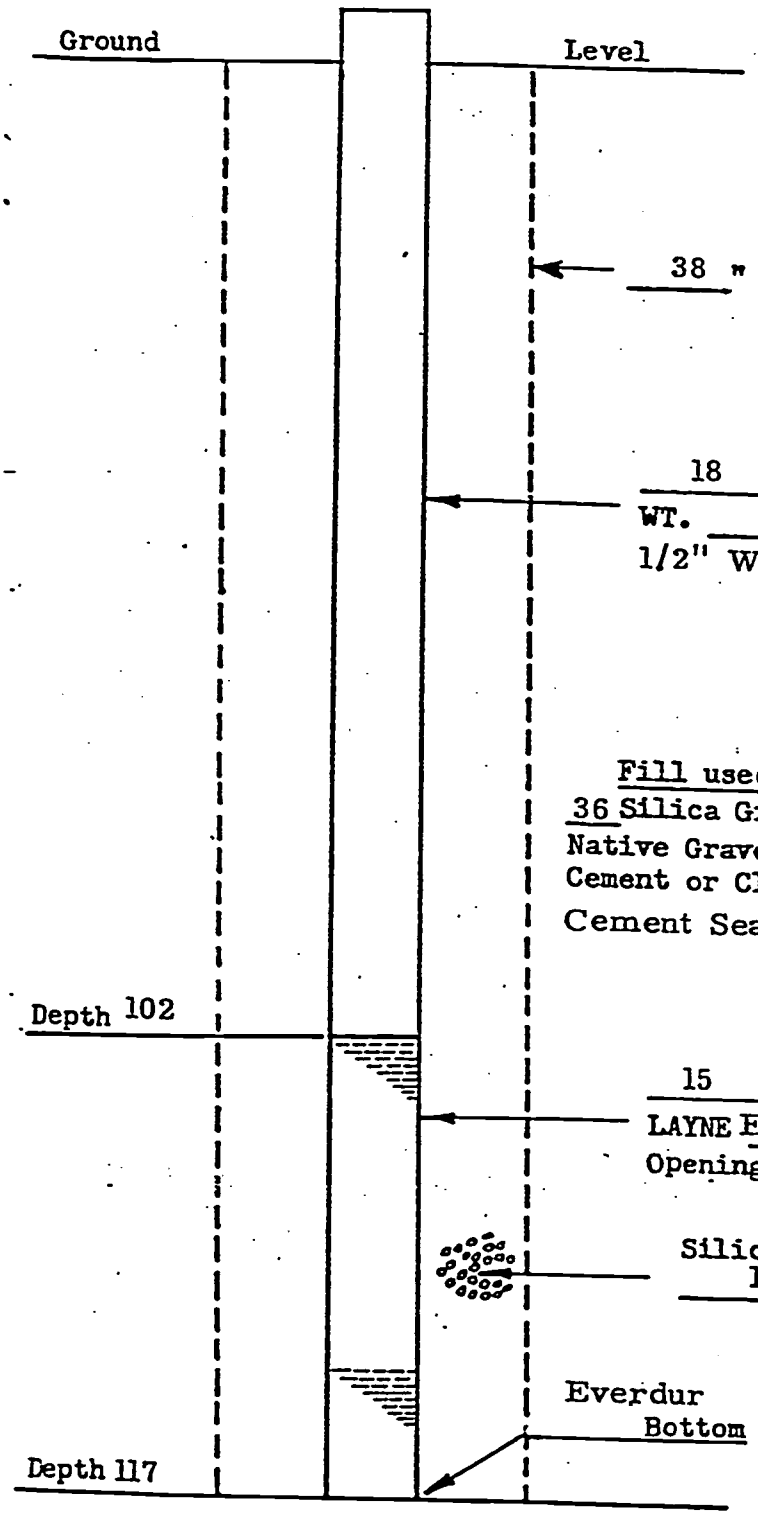
An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water

Pipe extends 2 feet above ground level

Job No. C-21426

Location:
35' S. of S. Side of #7 Well Hse.
35' E. of center line of Cossell



Pipe Tally	Welded Threaded
Bottom	

Fill used from Bottom Up:

36 Silica Gravel	117	to	80	ft.
Native Gravel	78	to	3	ft.
Cement or Clay	3	to	0	ft.
Cement Seal	80	to	78	ft.

Static Level 37
Pumped 361 GPM
at 95 pumping level

Driller Ewing Allen
Date Finished October 21, 1968

Not drawn to scale

LAYNE GRAVEL WALL WELL NO. 7A
for
ALLISON DIV. G.M.C.
PLANT NO. 3

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY | DRAWING NO.

(104)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

ity in which well was drilled: Marion Civil Township: Wayne

ving directions to the well location:

t Test well site #22, Cassell Road, Plant #3.

of property owner (if known): Allison Engineering Company

ess of owner:

building contractor (if known):

Well Drilling Contractor: Layne Northern

ess:

of drilling equipment operator: James Young

INFORMATION ON THE WELL

h of well: 59 Date well was completed: Oct 9, 1940

meter of casing or drive pipe: 42 Total length: 21'

meter of liner (if used): Total length:

eter of Screen: 18 Length: 38 Slot size:

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

ic water level in completed well (Distance from ground to water level) 18 ft.

e Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

Test: Hours tested ____ Rate 300 g.p.m. Drawdown 14 ft.

Signature

01-01 183320 FOR ADMINISTRATIVE ONLY
(Well driller does not fill out)

COUNTY: MARION TWP. 15N RGE. 3E NW ¼ NW ¼ NE ¼ SEC. 6

Topo Map: I W

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

2300 Ft W of EL. Ground elevation 723'

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

1000 Ft S of NL. Aquifer elevation _____

Subdivision Name ~~Allison Gmc~~ ~~Plant #3~~

Lot Number _____

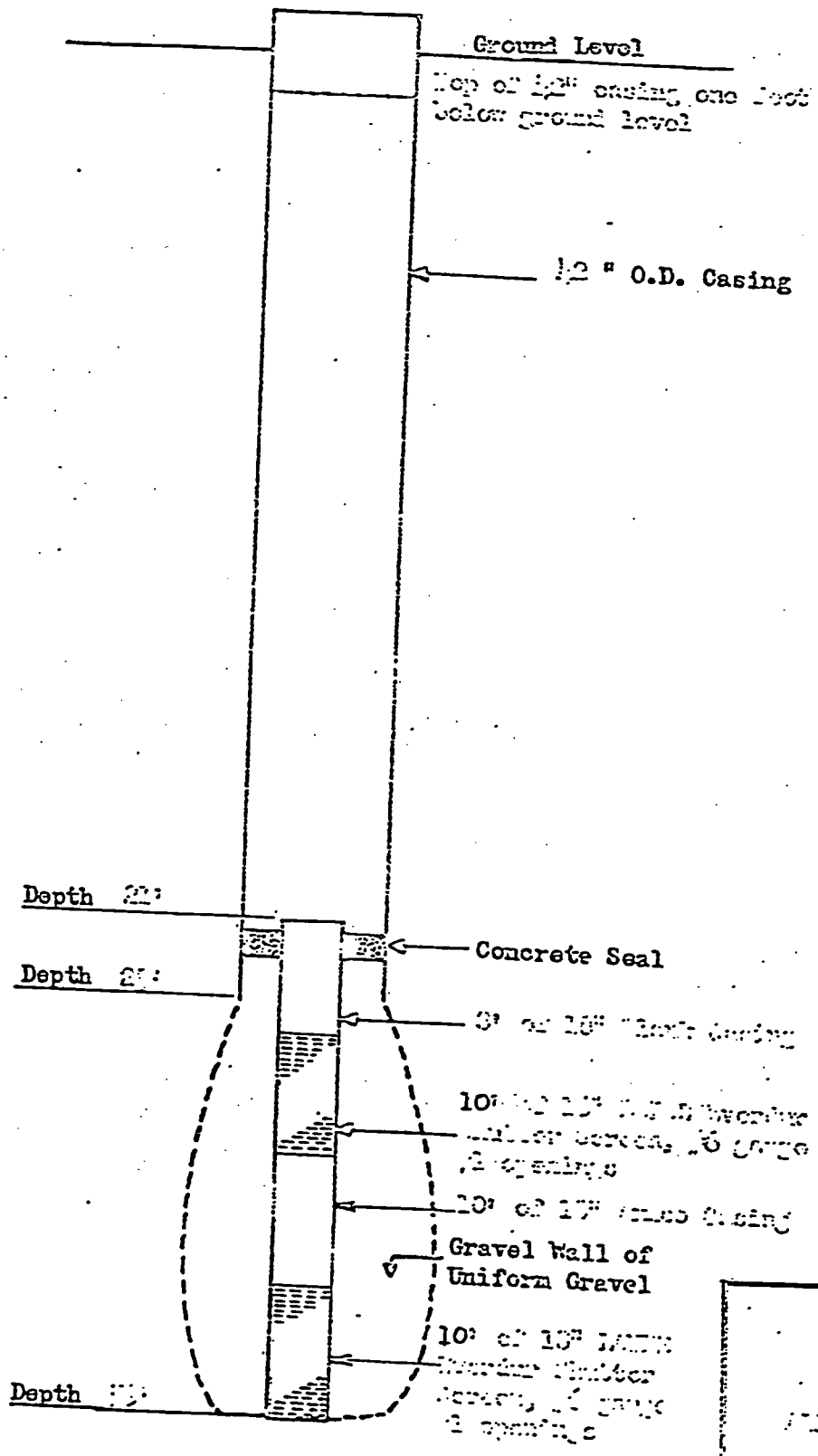
C. (Well No. 8)
C. (Casing is one feet below surface)
C. (addt'l info stapled to log)

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Soil and Clay	0	4
Dry Gravel and Sand	4	16
Gravel and Sand	16	32
Gravel with boulders	32	40
Gravel and fine sand	40	42
Fine Sand	42	44
Clay	44	48
S + G	48	59

RKS:

C-1580D



Marion Co.
Wayne Twp.

Single Cased
LAYNE GRAVEL WALL WELL
for

Driller
Date Finished

Not drawn to Scale

LAYNE NORTHERN CO. INC.

105

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

nty in which well was drilled: Marion Civil Township: Wayne

ving directions to the well location:
00 feet South of #6 Well - Plant #3

: of property owner (if known): Allison Engineering Company
ess of owner:
building contractor (if known):
Well Drilling Contractor: Layne Northern
ess:
: of drilling equipment operator: James Young

INFORMATION ON THE WELL

h of well: 59 Date well was completed: Sept. 23, 1940
eter of casing or drive pipe: 42 Total length: 26
eter of liner (if used): Total length:
eter of Screen: 18 Length: 33 Slot size:
of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other
of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐
d of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐
c water level in completed well (Distance from ground to water level) 46 ft.
r Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and wate level at end of test
Test: Hours tested ____ Rate 600 g.p.m. Drawdown 8 ft.

Signature

FOR ADMINISTRATIVE U[illegible] ONLY 01-01 183390
(Well driller does not fill out)

COUNTY: MARION TWP. 15N RGE. 3E NW ¼ NW ¼ NE ¼ SEC. 6

Topo Map: I W

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

[illegible] Ft W of EL. Ground elevation [illegible]

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

600 Ft S of NL. Aquifer elevation _____

Subdivision Name

~~Allison Gmc~~

~~Plant #3~~

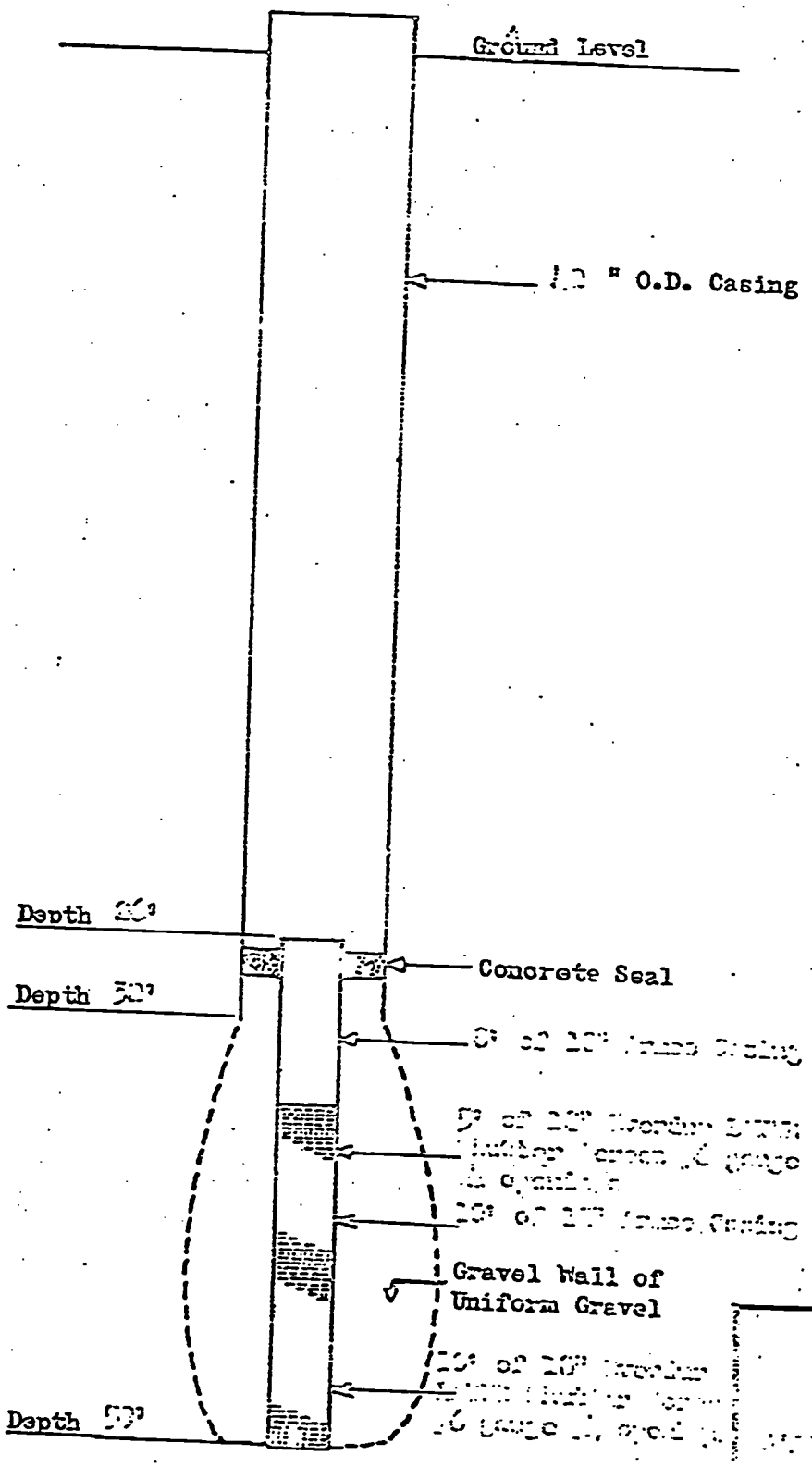
Lot Number _____

C. (Well NO. 4)
C. (Casing extends above ground)
C. (addt'l info stapled to log)

WATER WELL LOG

To	From	MATIONS (Color, type of material, hardness, etc.)

RKS:



Marion Co.
Wayne Twp.

.7 Single Cased
LAYNE GRAVEL WALL WELL
for

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

Driller
Date Finished

Not drawn to Scale
All depths measured
from ground level

Static Level 16
Pumped 600 GPM

DRAWN BY

(106)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

:y in which well was drilled: Marion Civil Township: Wayne

:ng directions to the well location:

orner 10th Street and Cassel Road

of property owner (if known): Allison Engineering Company

:ss of owner:

of building contractor (if known):

/ell Drilling Contractor: Layne Northern

ss:

of drilling equipment operator: James Young

INFORMATION ON THE WELL

of well: ~~57.5~~ 57.5 Date well was completed: August 24, 1940

:ter of casing or drive pipe: 42 Total length: 39.5

:ter of liner (if used): Total length:

ter of Screen: 18 Length: 18 Slot size:

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

f Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

c water level in completed well (Distance from ground to water level) 19 ft.

r Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

est: Hours tested ____ Rate 335 g.p.m. Drawdown ~~47~~ 28.5 ft.

Signature

Date

(Well driller does not fill out ...)

COUNTY: MARION TWP. 15N RGE. 3E NW¼ NW¼ NE¼ SEC. 6

Subdivision Name: Allison GMC

Topo Map: T W

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

[illegible] Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

150 Ft S of NL.

Ground elevation 724±

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

~~Plant #3~~

Lot Number _____

WATER WELL LOG

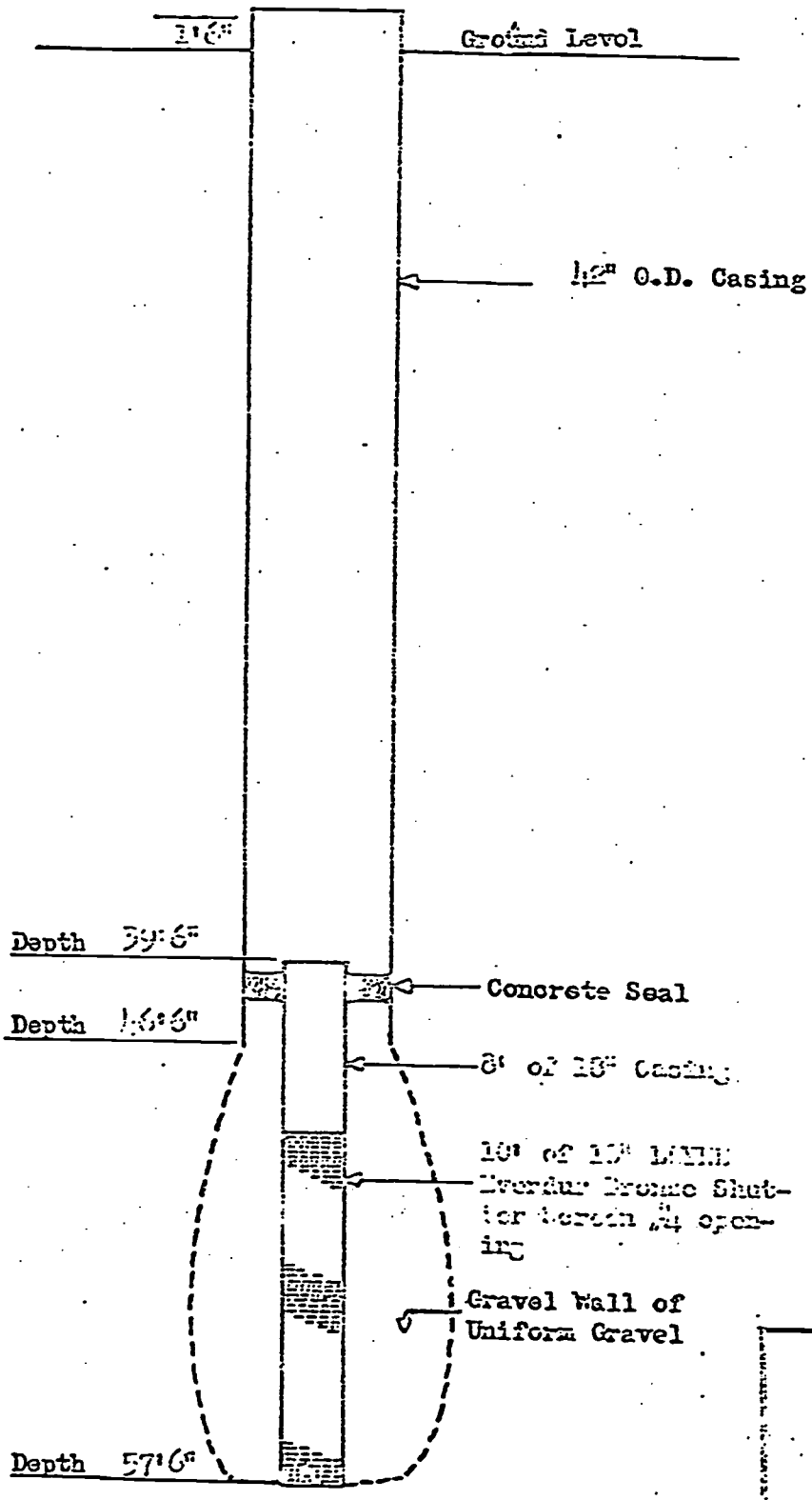
FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay and Soil	0	16
Gravel	16	30
Clay	30	46
S & G	46	57.5

C (casing extends 1.5 feet above ground)

C. (addt'l info stapled to log Well No. 6)

REMARKS:

Our Order No. C-15



Marion Co.
Wayne Twp.

Driller James Young
Date Finished 3-24-40

Not drawn to Scale
All depths measured
from ground level

Static Level 19'
Pumped 335 GPM

#6 Single Cased
LAYNE GRAVEL WALL WELL
for
ALLISON ENGINEERING DIVISION
GENERAL MOTORS CORP.
[illegible] CITY, INDIANA

PLATE NO. 5

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY | DRAWING NO.

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

107

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township Wayne

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

0 ft. East and 5129 ft. North of SW Corner of Section
feet West of NW corner of Allison #5 Well House, 349 feet
st of Cossell Road. 70 feet South of 10th Street.

AE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Allison Division General Motors Corp. Plant #3 Address

Building Contractor Address

e of Well Drilling Contractor: Layne Northern
Mishawaka, IN

e of Drilling Equipment Operator: Allen Matlock

LL INFORMATION

th of well: 127 Date well was completed: November 15

meter of casing or drive pipe: 4 Total Length:

meter of liner (if used): Total Length:

meter of Screen: Length: Slot Size:

e of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

of Well: For Home ☐ For Industry ☐ ☒ TEST For Public Supply ☐ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

ic water level in completed well (Distance from ground to water level) feet

r Test: Hours Tested Rate g.p.m. Drawdown ft.

pi Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 183285

COUNTY MARION TWP. 15S RGE. 3E NW ¼ NW ¼ NE SEC 6

Topo Map I W

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

2,400 Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

50 Ft S of NL.

Ground Elevation 724±

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Subdivision Name Allison Gme Plant #3

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Top Gravel	0	14
Blue Clay	14	35
Blue Clay and Sand	35	46
Gravel	46	55
Blue Clay and Sand	55	57
Gravel	57	62
Clay and Sand (Blue)	62	80
Gravel	80	87
Clay and Sand	87	94.5
Sand	94.5	96.5
Soft Blue Clay	96.5	101.5
Gravel	101.5	122
Hard Pack Sandy Clay	122	127
Bed rock	127	

108

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

County in which well was drilled: Marion Civil Township: Wayne

Driving directions to the well location: S.E. corner of property, plant #3

ame of property owner (if known): Allison Engineering

ddress of owner:

ame of building contractor (if known):

of Well Drilling Contractor:

ddress:

ame of drilling equipment operator: James Ness

INFORMATION ON THE WELL

pth of well: 56 Date well was completed: Sept. 12, 1939

ameter of casing or drive pipe: 42 Total length: 39

ameter of liner (if used): Total length:

ameter of Screen: 18 Length: Slot size:

e of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

hod of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

tic water level in completed well (Distance from ground to water level) 12 ft.

er Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

s Test: Hours tested ____ Rate 280 g.p.m. Drawdown 26 ft.

Signature

01-01-183330

FOR ADMINISTRATIVE ONLY
(Well driller does not fill out)

COUNTY: MARION TWP. 15N RGE. 3E SE ¼ NE ¼ NE ¼ SEC. 6

Topo Map: I W

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

180 Ft W of EL. Ground elevation 720

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

1750 Ft S of NL. Aquifer elevation _____

Subdivision Name: ~~Allison Grec~~

~~Plant #3~~

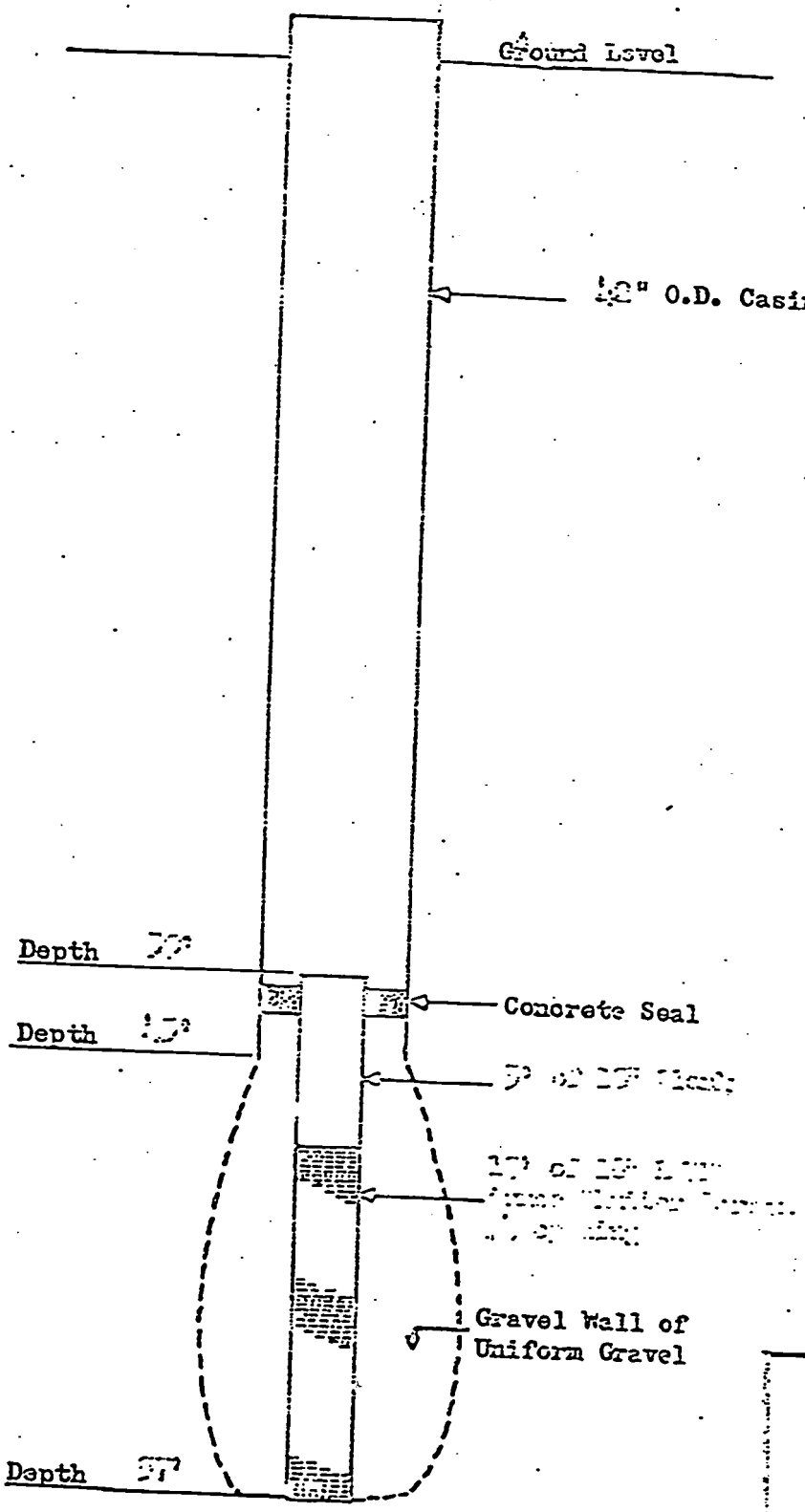
Lot Number _____

C. (Casing extends above ground)
C. (Well no. 3)
C. (addt'l info stapled to log)

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	4	Soil
4	12	Dry Gravel and Boulders
12	35	Gravel
35	43	Clay
43	56	Gravel and Sand

REMARKS:



Marion Co.
Wayne Twp.

Single Cased
LAYNE GRAVEL WALL WELL
for

Driller
Date Finished

Not drawn to Scale
All depths measured
from ground level

Static Level 12
Pumped 280 GPM

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY 1 DRAWING NO.

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

109

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

ity in which well was drilled Marion Civil Township Wayne

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

15 feet South of #1 Well 25' feet East Center
-ine Grandie Avenue

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Allison Engineering Company Address

Building Contractor Address

: of Well Drilling Contractor: Layne Northern

ess

rilling Equipment Operator: V. L. Kelly

L INFORMATION

n of well: 56 Date well was completed: 7-28-41

eter of casing or drive pipe: 30 Total Length: 20

eter of liner (if used): Total Length:

eter of Screen: Length: 35 Slot Size:

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

f Well: For Home ☐ For Industry ☑ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) 18 feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

ing Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

COUNTY MARION TWP. 15N RGE. 3E S.E. ¼ [illegible] ¼ [illegible] SEC 6 ?

Topo Map INDIANAPOLIS WEST

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

50 Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

1200 Ft S of NL.

Ground Elevation 7[illegible]

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

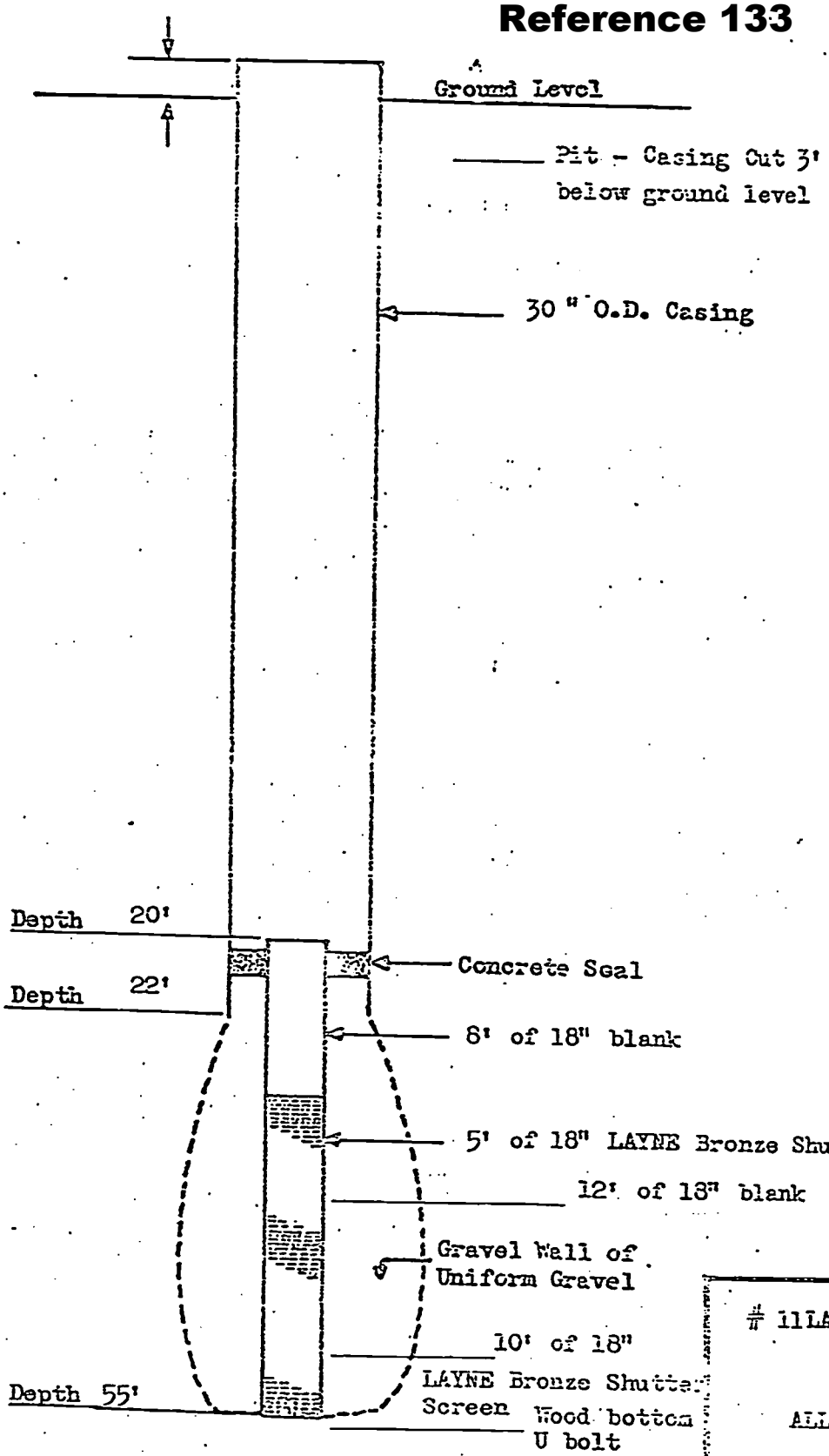
Subdivision Name ~~Allison Grue~~ ~~Plant #3~~

Lot Number _____

C. (addt'l info stapled to log)

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay Fill	0	2
Hard Clay	2	8
S+G	8	12
Gritty Clay	12	28
S+G	28	35
Gritty Clay	35	42
Fine Sand	42	48
Coarse Sand and Gravel	48	55
Clay	55	56



Marion Co.
Wayne Twp.

11 LAYNE GRAVEL WALL WELL
Single Cased
For
ALLISON ENGINEERING COMPANY
PLANT NO. 3 Speedway
INDIANAPOLIS INDIANA
11 RETURN WELL

Driller V.L. Kelly
Date Finished 7/28/41

Not drawn to Scale
All depths measured from ground level

Static Level 18'
Pumped _____ GPM
at _____ Pumping Level

LAYNE NORTHERN CO.
MISHAWAKA, INDIANA

DRAWN BY
APPROVED BY
DATE 11/27/41

DRAWING NO. 149

(110)

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

mpletely

WELL LOCATION

where drilled	Civil township	Township	Range	Section
Marion	Wayne	15N	3E	6

directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a reverse side.

Plant #3

OWNER - CONTRACTOR

well owner
LISON ENGINEERING DIVISION
(*number and street, city, state, ZIP code*)

Telephone number

building contractor
(*number and street, city, state, ZIP code*)

Telephone number

drilling contractor
ayne - Northern Company
(*number and street, city, state, ZIP code*)

Telephone number

t operator
mes Ness

License number

Date of completion 5-23-39

CONSTRUCTION DETAILS

ll:
supply ☐ Industry ☐ Stock ☒ Test ☐ Other (*specify*): ☐ Irrigation

drilling
y ☐ Jet ☐ Rev. rotary ☐ Bucket rig ☐ Other
tool

ngth feet | Material | Diameter inches

ngth feet | Material | Diameter inches

t size | Total depth of well

ump setting | Water quality (*clear, cloudy, odor, etc.*)

mp ☐ Shallow-well jet ☐ Other (*specify*):
ersible ☐ Deep-well jet

WELL CAPACITY TEST

☐ Air ☐ Pumping

Test rate _____ gpm _____ hrs.

feet

Static level (*depth of water*) 15 feet

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
Soil	0	5
Gravel + Sand	5	37
Gritty Clay	37	48
Sand + gravel	48	57
Gritty Clay	57	103
Shale	103	105

(*Additional space for well log on reverse side*)

INFORMATION

	Depth of grout From to	Number of bags used
nstallation		

WELL ABANDONMENT

Sealing material	Depth filled From To	Method of installation	Number of bags used

ear or affirm, under the penalties that the information submitted to the best of my knowledge and

Signature of owner or authorized representative

Date

FOR ADMINISTRATIVE USE ONLY
(well driller does not fill out)

01-01 180430

County	Township	Range		Section
Marion	15N	3E	SE 1/4 NE 1/4 NE	6

Topo map	600 Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	1400 Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

Co
Test #1
(one of Several test wells)

111

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

:y in which well was drilled: Marion Civil Township: Wayne

:ng directions to the well location: 95 feet South of N.W.
e On 10th street, 50 feet East of West fence

of property owner (if known): Allison Engineering Company
:ss of owner:
of building contractor (if known):
ell Drilling Contractor: Layne Northern
:ss:
of drilling equipment operator: James Ness

INFORMATION ON THE WELL

of well: 62.5 Date well was completed: May 13, 1940
:ter of casing or drive pipe: 42 Total length: 38.5
:ter of liner (if used): Total length:
ter of Screen: 18 Length: Slot size: #4
of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other
f Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐
d of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐
c water level in completed well (Distance from ground to water level) 20 ft.
r Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)
est: Hours tested ____ Rate 400 g.p.m. Drawdown 25 ft.

Signature

(Well driller does not fill out)

Su 01-01 183380

COUNTY: MARION TWP. 15N RGE. 3E NE ¼ NW ¼ NE ¼ SEC. 6

Allison GMC

Topo Map: I W

Plant #3

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

1505 Ft W of EL. Ground elevation 725

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

100 Ft S of NL. Aquifer elevation _____

Lot Number _____

6 (Casing extends above ground)

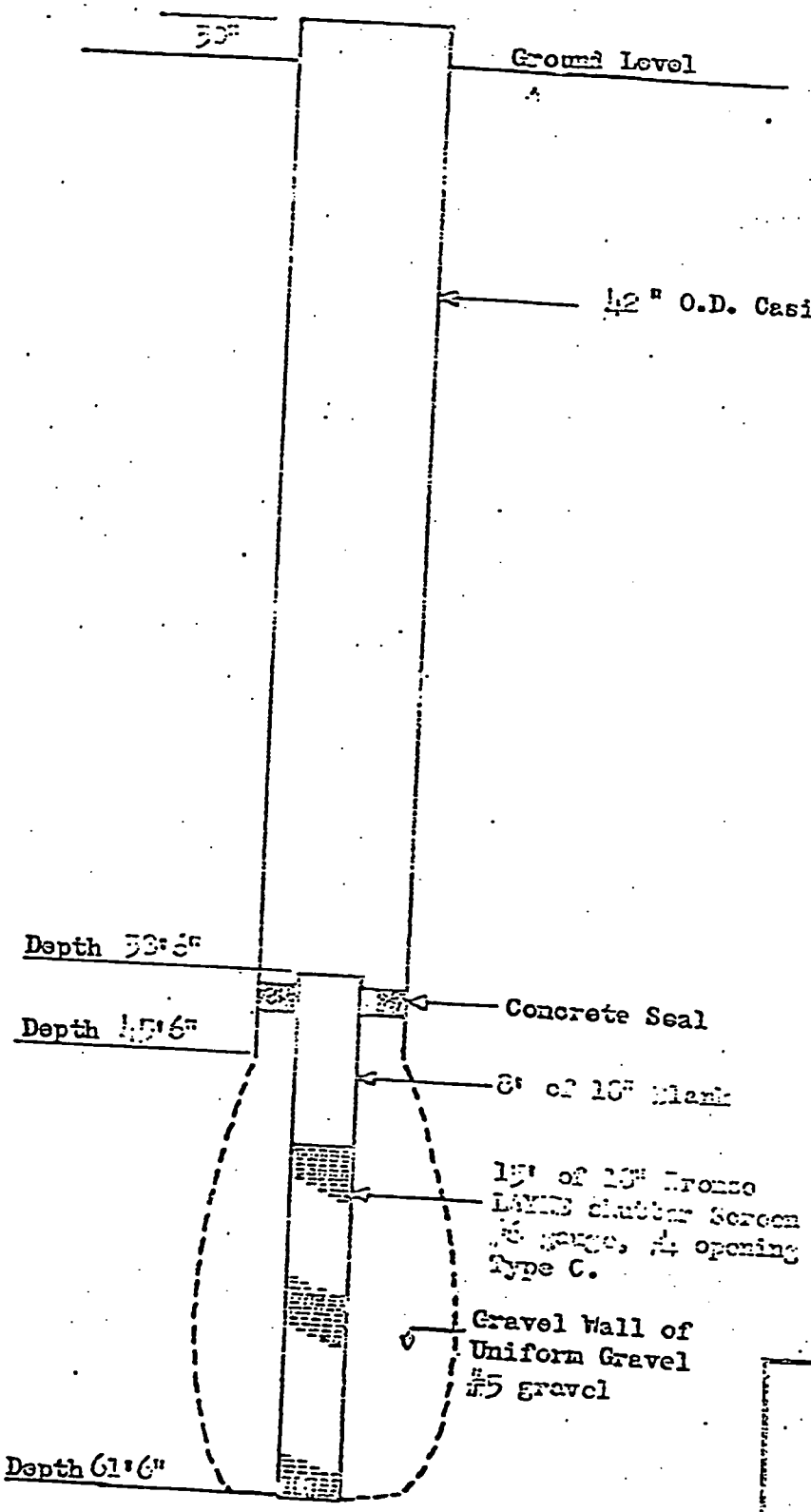
C (Well No. 4)

C (addt'l info stapled to log)

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Soil and dirt	0	5
Gravel	5	15
Clay	15	31
Gravel	31.5	62.5

REMARKS:



Marion Co.
Wayne Twp.

A Single Cased
LAYNE GRAVEL WALL WELL
for
ALLISON ENGINEERING DIVISION
GENERAL MOTORS CORP.
SPENCER CITY, INDIANA

PLAN NO. 3

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY
APPROVED BY
DATE

DRAWING No.
389

Driller James Ross
Finished 5-16-40

Not drawn to Scale
All depths measured
from ground level

Static Level 20'
Pumped 400 GPM
at 45' Pumping Level

(112)

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W. Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

mpletely

WELL LOCATION

where drilled	Civil township	Township	Range	Section
arion	Wayne	15N	3E	6

directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a reverse side.

10 feet East of Cossel Road, and West 10th Street

OWNER CONTRACTOR

well owner: ison Engineering Division
(*number and street, city, state, ZIP code*)
Telephone number:

building contractor:
(*number and street, city, state, ZIP code*)
Telephone number:

drilling contractor: ayne Northern
(*number and street, city, state, ZIP code*)
Telephone number:

nt operator: nes Ness
License number:
Date of completion: May 21, 1940

CONSTRUCTION DETAILS

ell:
e ☐ Industry ☐ Test ☐ Irrigation
c supply ☐ Stock ☐ Other (*specify*):

f drilling
ry ☐ Jet ☐ Bucket rig
e tool ☐ Rev. rotary ☐ Other

ngth feet	Material	Diameter inches
ngth feet	Material	Diameter inches

ot size | Total depth of well

ump setting | Water quality (*clear, cloudy, odor, etc.*)

ump ☐ Shallow-well jet ☐ Other (*specify*):
ersible ☐ Deep-well jet

WELL CAPACITY TEST

☐ Air
g ☐ Pumping

Test rate: _____ gpm _____ hrs.

Static level: (*depth of water*) 20 feet

feet

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
Soil, dirt	0	7
Gravel	7	17
Hard Pan	17	40
Gravel	40	44
Hard Pan	44	53
Gravel	53	61
Clay	61	102
Fine Sand	102	113
Shale	113	115

(*Additional space for well log on reverse side*)

G INFORMATION

	Depth of grout From to
installation	Number of bags used

WELL ABANDONMENT

Sealing material	Depth filled From To
Method of installation	Number of bags used

wear or affirm, under the penalties that the information submitted

Signature of owner or authorized representative

Date

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180010

County	Township	Range		Section
Marion	~~Wayne~~ 15N	3E ~~15N~~	NE 1/4 NW 1/4 NE	6

Topo map	1950 Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	100 Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

113

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

completely

WELL LOCATION

y where drilled	Civil township	Township	Range	Section
Marion	Wayne	15N	3E	6

g directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a on reverse side.

25 Feet South of Test #16

OWNER - CONTRACTOR

f well owner: llison Engineering Company Plant #3
s (*number and street, city, state, ZIP code*)
Telephone number

f building contractor
s (*number and street, city, state, ZIP code*)
Telephone number

f drilling contractor: ayne Northern
s (*number and street, city, state, ZIP code*)
Telephone number

er ent operator: mes Ness
License number
Date of completion: May 27, 1940

CONSTRUCTION DETAILS

ell:
e ☐ Industry ☑ Test ☐ Irrigation
ic supply ☐ Stock ☐ Other (*specify*):

of drilling
ry ☐ Jet ☐ Bucket rig
e tool ☐ Rev. rotary ☐ Other

ength feet | Material | Diameter inches
ength feet | Material | Diameter inches

ot size | Total depth of well

ump setting | Water quality (*clear, cloudy, odor, etc.*)

ump ☐ Shallow-well jet ☐ Other (*specify*):
ersible ☐ Deep-well jet

WELL CAPACITY TEST

☐ Air
g ☐ Pumping
Test rate _____ gpm _____ hrs.

feet
Static level (*depth of water*) 17 feet

G INFORMATION

Depth of grout From to
nstallation | Number of bags used

WELL ABANDONMENT

Sealing material | Depth filled From To
Method of installation | Number of bags used

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
Soil, Dirt	0	6
Gravel	6	13
Hard Pan	13	35
Gravel	35	39
Hard Pan	39	46
Gravel	46	59
Tough Clay	59	101
Fine Sand	101	105
Shale	105	107

(*Additional space for well log on reverse side*)

ear or affirm, under the penalties that the information submitted to the best of my knowledge and
Signature of owner or authorized representative
Date

FOR ADMINISTRATIVE USE ONLY (well driller does not fill out) 01-01 179995

County	Township	Range		Section
Marion	15N	3E	NE 1/4 NW 1/4 NE	6

Topo map	1950 Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	400 Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION (Locate with reference to highways, intersecting county roads and distinctive land marks)

C. (Test well No. 17)

N

W

E

(114)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

nty in which well was drilled: Marion Civil Township: Wayne

ving directions to the well location: Ind. Boiler Room of new
actory

e of property owner (if known): Allison Engineering Division
ress of owner:
building contractor (if known):
f Well Drilling Contractor: Layne Northern
ess: Mishawaka, IN
e of drilling equipment operator: James Young

INFORMATION ON THE WELL

th of well: 60 Date well was completed: August 2, 1939
meter of casing or drive pipe: Total length:
meter of liner (if used): Total length:
meter of Screen: Length: Slot size:
e of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other
of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐
nod of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐
tic water level in completed well (Distance from ground to water level) 14 ft.
Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between
Test: Hours tested ____ Rate 260 g.p.m. Drawdown 39 ft. static level and water level at end of test)

Signature

01-01 183305 FOR ADMINISTRATIVE : ONLY
(Well driller does not fill out)

COUNTY: MARION TWP. 15N RGE. 3E NW ¼ NE ¼ NE ¼ SEC. 6

Topo Map: I W

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

[illegible] Ft W of EL. Ground elevation 722 [illegible]

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

[illegible] Ft S of NL. Aquifer elevation _____

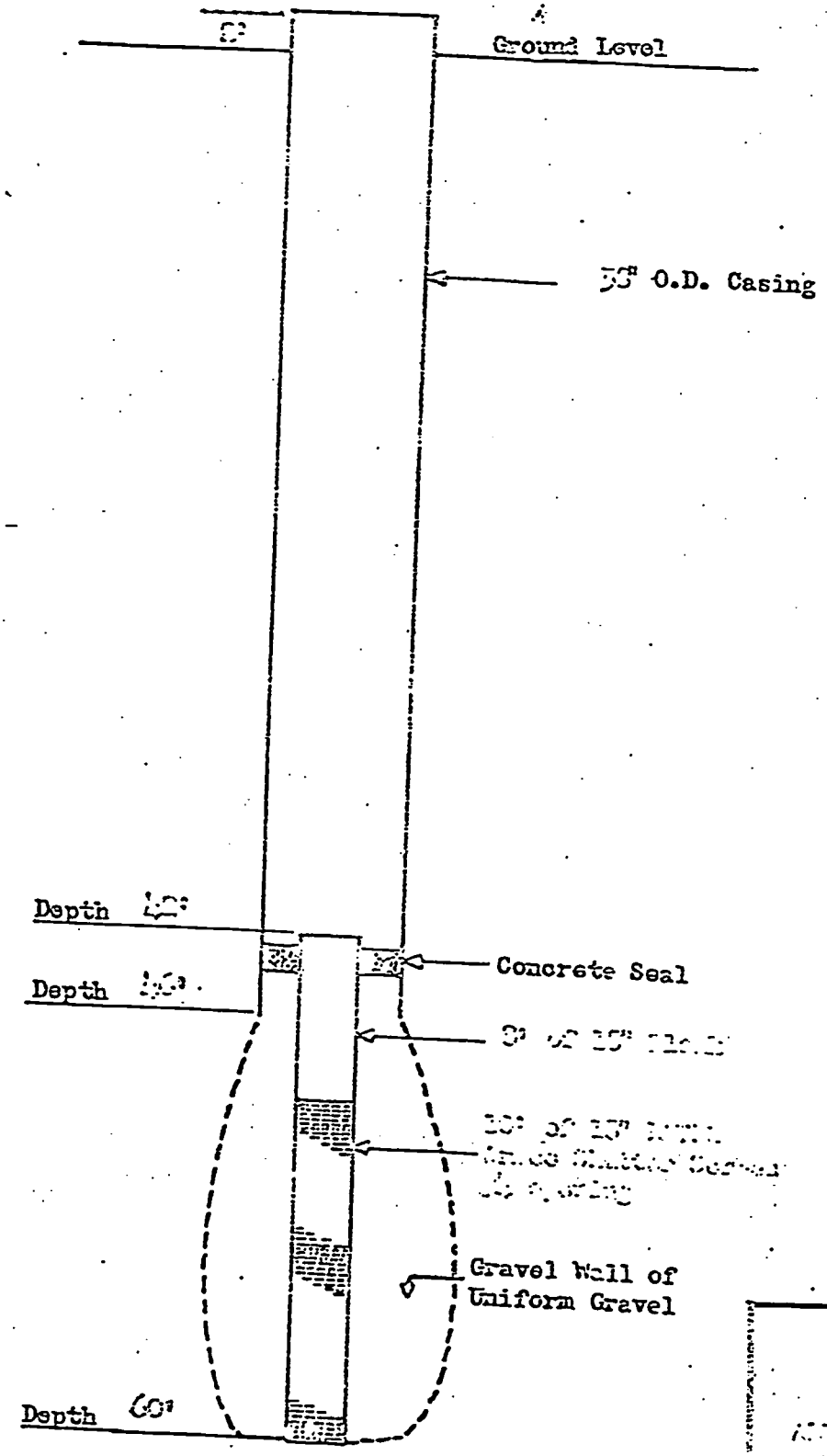
C. (addt'l info stapled to log)

Subdivision Name: Allison GMC Plant #3

Lot Number _____

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Soil	0	5
Gravel	5	20
Clay	20	48
Gravel and Sand	48	60



Marion Co.
Wayne Twp.

Single Cased
LAYNE GRAVEL WALL WELL
for

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

Driller
Date Finished

Not drawn to Scale
All depths measured

Static Level 14'

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA · 46204
Telephone 633-5267 Area Code 317

115

WATER WELL RECORD

LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled Marion Civil Township Wayne

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

115' S. of Fence, 115' W. of Cassell Road
S.W. of Plant #3, 15' S. of #12 Permanent Well

IE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel Allison Div. Address

Building Contractor Address

e of Well Drilling Contractor: Layne-Northern Company
Mishawaka, Ind.

e of Drilling Equipment Operator: C. Freeman

L INFORMATION

h of well: 118 Date well was completed: 5-20-75

eter of casing or drive pipe: Total Length:

eter of liner (if used): Total Length:

eter of Screen: Length: Slot Size:

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

t: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR ADMINIS[illegible]IVE USE ONLY
(Well driller does not fill out)

01-01 180434

ALLISON ~~TEST~~ ~~75H~~

COUNTY MARION TWP. 15N RGE. 3E ¼ ¼ NE SEC 6

~~LAYNE 5/20/75~~ Subdivision Name

Topo Map INDIANAPOLIS WEST ~~7½'~~

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by BRUNS 3-18-76

Ft W of EL. Ground Elevation 720

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Top soil, clay & fill	0	8
Sand & gravel	8	12
Clay	12	18
Sand gravel & boulders	18	33
Grey clay	33	47
Gravel strip	47	48
Clay	48	54
Sand & gravel	54	64
Clay	64	100
Fine sand & clay	100	110
Sand & gravel	110	118
Shale	118	

(Test Well 75H)

116

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

State Form 35680

Telephone 317-232-4160

WATER WELL RECORD

.L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Plant 3 10th & Main

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Allison Div. G.M.C. Address

Building Contractor Address

ell Drilling Contractor: Layne-Northern

ess

of Drilling Equipment Operator:

.L INFORMATION

of well: 59 Date well was completed: Oct. 1940

eter of casing or drive pipe: 42-18 Total Length:

eter of liner (if used): Total Length:

eter of Screen: Length: Slot Size:

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

f Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) 18 feet

Hours Tested Rate g.p.m. Drawdown ft.

g Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Source of Data: Owner's Files

Signature

01- 180000

FOR ADMINISTR /E USE ONLY
(Well driller does not fill out)

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NE SEC 6

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation

Depth to bedrock

Bedrock elevation

Aquifer elevation

Subdivision Name

Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)

From	To
0	4
4	16
16	32
32	40
40	42
42	44
44	48
48	59
59	
29	39
39	49
49	59

oil & clay

gravel & sand

Static

gravel & sand

16

gravel w/ boulders

gravel w/ fine sand

ine Sand

lay

and w/ gravel

lay

atic 13' on completion

en 10' of 18" Layne #1 opening

10' " " Armco Casing

10' " " Layne #1 opening

(117)

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

mpletely

WELL LOCATION

where drilled	Civil township	Township	Range	Section
larion	Wayne			

directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a reverse side.

00 feet East and 5129 feet North of SW Corner of section feet West of N.W. corner of Allison #5 Well House 10 feet East of Cossell Road. 70 feet South of 10th Street

OWNER-CONTRACTOR

well owner: Allison Division General Motors Corp. Plant #3 — Telephone number:

(number and street, city, state, ZIP code):

Building contractor: — Telephone number:

(number and street, city, state, ZIP code):

drilling contractor: Wayne Northern — Telephone number:

(number and street, city, state, ZIP code): Mishawaka, IN

ent operator: en Matlock — License number: — Date of completion: November 15.

CONSTRUCTION DETAILS

ell:

- ☐ Industry ☑ Test ☐ Irrigation
- ic supply ☐ Stock ☐ Other (*specify*):

of drilling

- ry ☐ Jet ☐ Bucket rig
- le tool ☐ Rev. rotary ☐ Other

ngth	Material	Diameter
feet		4 inches
ength feet		inches

lot size	Total depth of well
pump setting	Water quality (*clear, cloudy, odor, etc.*)

- ump ☐ Shallow-well jet ☐ Other (*specify*):
- mersible ☐ Deep-well jet

WELL CAPACITY TEST

- ☐ Air
- g ☐ Pumping

Test rate: _____ gpm _____ hrs.

feet — Static level: (*depth of water*) feet

NG INFORMATION

	Depth of grout	
	From	to
installation	Number of bags used	

WELL ABANDONMENT

Sealing material	Depth filled	
	From	To
Method of installation	Number of bags used	

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
Top Gravel	0	14
Blue Clay	14	35
Blue Clay and Sand	35	46
Gravel	46	55
Blue Clay and Sand	55	57
Gravel	57	62
Clay and Sand (Blue)	62	80
Gravel	80	87
Clay and Sand	87	94.5
Sand	94.5	96.5
Soft Blue Clay	96.5	107.5
Fine Gravel-(Water bearing)	107.5	122
(*Additional space for well log on reverse side*)		

wear or affirm, under the penalties y that the information submitted

Signature of owner or authorized representative

Date

01-01-183300

FOR ADMINISTRATIVE USE ONLY
(if driller does not fill out)

County	Township	Range	1/4	1/4	Section
Marion	15N	3E			6

Topo map	Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG

FORMATIONS (type of material)	FROM Feet	TO Feet
Hard Pack Sandy Clay	122	127
Bed Rock	127	

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks)

C. (Well log No. 66A)

N

W

E

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

118

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unty in which well was drilled Marion Civil Township Wayne

ving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Plant #3- 125 feet West of East Shoulder of Cossell Road
0 feet South of fence. 15 feet North of Test well no. 75H

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel/Allison Division of GMC Address

Building Contractor Address

e of Well Drilling Contractor: Layne Northern

: of Drilling Equipment Operator: Robert Collins

L INFORMATION

. of well: 119

Date well was completed: 8/31/75

ter of casing or drive pipe: 16 Total Length: 111

ter of liner (if used): Total Length:

er of Screen: 16 Length: 8 Slot Size: #6

f Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

l of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

vater level in completed well (Distance from ground to water level) 50 feet

est: Hours Tested Rate g.p.m. Drawdown ft.

: Hours Tested 8 Rate 300 g.p.m. Drawdown 34 ft.

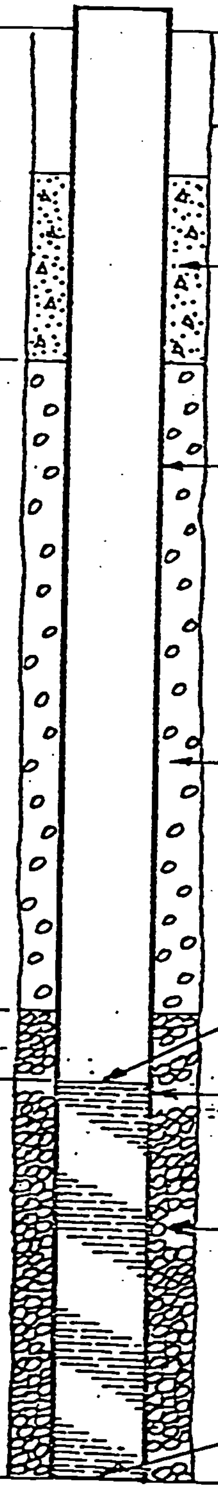
(Drawdown is the difference between static level and water level at end of test)

Signature

Date

CASING EXTENDS 3 FEET ABOVE GROUND LEVEL

GROUND LEVEL



24 "DIA. HOLE

20 ' CONCRETE SEAL

DEPTH 30

16 " O.D. STEEL WELL CASING. 3/8 " WALL THICKNESS.

GRAVEL FILL

DEPTH 100

welded CONNECTION SCREEN

DEPTH 111

8 FT. OF 16 IN. DIA. Layne Shutter S.S. SCREEN OPENING #6

SILICA GRAVEL WALL 4 YDS. SIZE # 48

1/4" S.S. PLATE

DEPTH 119 BOTTOM

JOB NO. 23551

DISTRICT Indianapolis

LOCATION: 125' West of Cossell Rd. 100' S. of fence, North side of Eagle Creek

COUNTY Marion

TOWNSHIP Wayne

SECTION 6 T 15N R 3E

STATE Indiana

CASING TALLY — WELDED / THREADED

	FT.	IN.
BOTTOM		
TOP		
TOTAL		

FILL USED FROM BOTTOM UP

SILICA GRAVEL PACK	119	TO	100	FT.
GRAVEL FILL	100	TO	20	FT.
CONCRETE	30	TO	10	FT.

STATIC LEVEL 50'

PUMPED 305 G.P.M. AT 96 FEET PUMPING LEVEL AFTER 24 HOURS

T OF RIG R.C. DRILLER R. Collins DATE COMPLETED 8/31/75

...C: ALL DEPTHS MEASURED FROM GROUND LEVEL. NOT TO SCALE.

GRAVEL WALL WELL NO. 12 TYPE SC-1

OR: DETROIT DIESEL/ALLISON DIVISION OF GENERAL MOTORS - Plant #3, South Well

SINGER - LAYNE-NORTHERN DIV. DRAWING NUMBER

F 01-01 3335 SE ONLY (fill out)

~~DETROIT DIESEL ALLISON~~ ~~#72~~
~~ZAYNE 8/31/75~~

COUNTY MARION TWP. 15N RGE. 3E ¼ ¼ NE SEC 6 Subdivision Name

Topo Map INDIANAPOLIS WEST ~~72~~

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by BROWN 3-18-76

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

C. (Well log no. 12) C. (addt'l info stapled log)

C. (Casing extends 3 feet above ground.)

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	15	Brown Clay
15	33	Fill cement, trash
33	48	Hard Gritty Clay
48	51	Medium to coarse gravel
51	54	Hard Gritty clay
54	63	Coarse Gravel, medium Sand
63	98	Hard Gritty Clay
98	99	Chips of soft sand stone, wood
99	101	Brown Clay
101	108	Lt Gritty clay, gray
108	109	Black Shale
109	114	Coarse Gravel, medium Sand, gray
114	119	Coarse Gravel, gray
119		Black Shale Bottom

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

119

WATER WELL RECORD

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

ty in which well was drilled: Marion Civil Township: Wayne

ing directions to the well location: Plant #3 12" and 8" Lock Well

of property owner (if known): Allison Engineering Company

ss of owner:

of building contractor (if known):

ell Drilling Contractor: Layne Northern

ss:

of drilling equipment operator: William Wagner and C.E. Poole

INFORMATION ON THE WELL

of well: 362 Date well was completed: January 12, 1941

er of casing or drive pipe: 12 Total length:

er of liner (if used): Total length:

er of Screen: 8 Length: Slot size:

f Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) 69 ft.

Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

c: Hours tested ____ Rate 30 g.p.m. Drawdown ~~24~~ 30 ft.

Signature

01-(180020

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

Subdivision Name ~~Allison Gas~~ ~~Plant #3~~

COUNTY: MARION TWP. 15N RGE. 2E ___ ¼ ___ ¼ NE ¼ SEC. 6

Topo Map: I W

Field Located By ___ Date ___

Courthouse Location By ___ Date ___

Location accepted w/o verification by ___

___ Ft W of EL. Ground elevation ___

___ Ft N of SL. Depth to bedrock ___

___ Ft E of WL. Bedrock elevation ___

___ Ft S of NL. Aquifer elevation ___

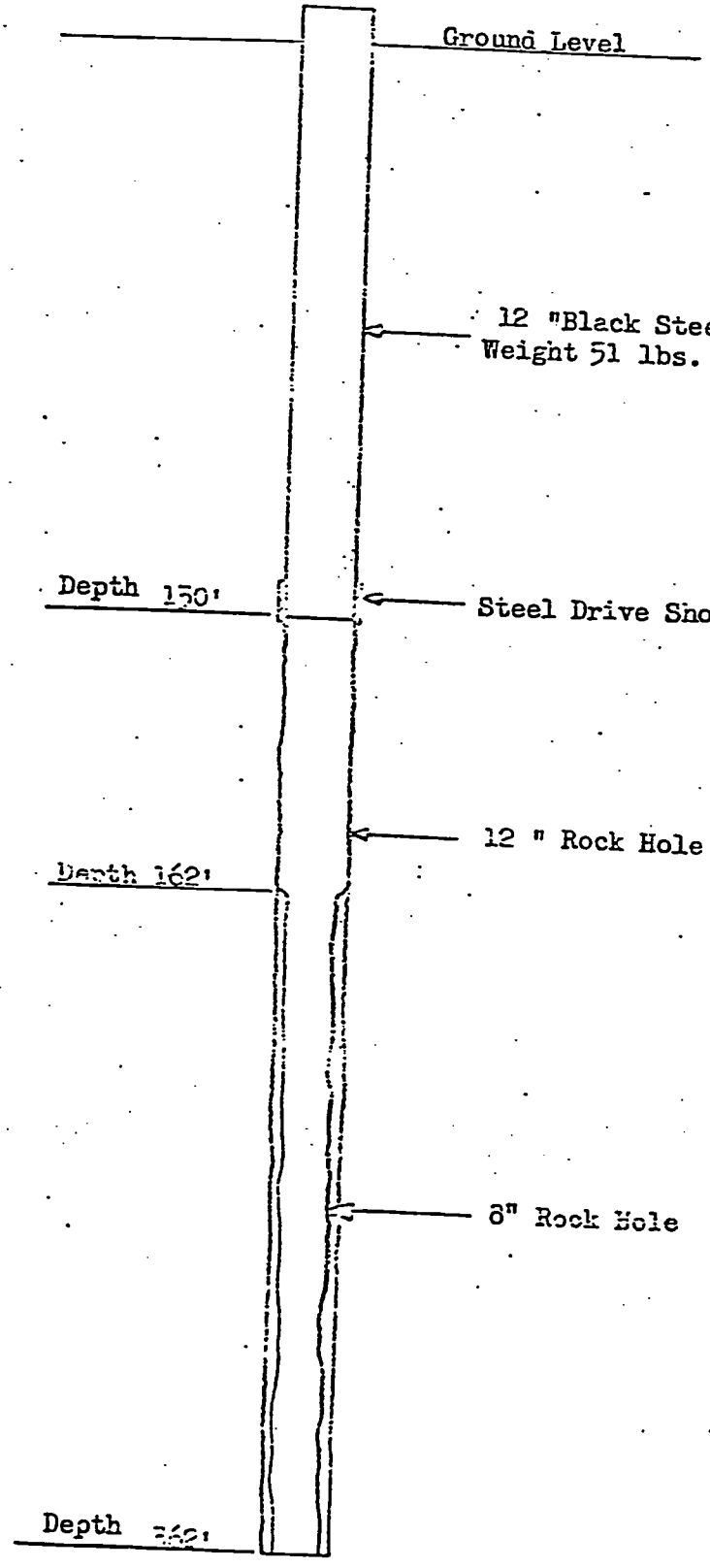
Lot Number ___

C (addt'l info stapled to log)

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Top Soil and Clay	0	5
Gravel and Sand	5	18
Hard Gravelly Clay	18	52
Stg	52	58
Hard Gravelly Clay	58	86
Medium Clay	86	107
Soft Shale	107	109
Medium Clay	109	120
Hard Gravelly Clay	120	124
Sticky Shale	124	129
Hard Shale	129	159
Limestone	159	362

REMARKS:



Marion Co.
Wayne Twp.

Static Level 69'
Pumped 30 GPM
at 99' pumping Level

Driller W. WAGNER & C. E. FOGLE
Date Finished 1-12-41

#10 ROCK WELL
For
ALLISON ENGINEERING COMPANY
Division General Motors Corp.
Speedway, Indiana
Plant No. 3

LAINE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY
APPROVED BY
DRAWING No.

Not drawn to scale
All depths measured from Ground Level

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

(120)

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unty in which well was drilled Marion Civil Township Wayne

ving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

100' S of N. Fence, 100 E of W Fence
75' S of #11 Permanent Well

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel/Allison Div. Address Plant #3

Building Contractor _____ Address _____

e of Well Drilling Contractor: Layne-Northern Co.
Michawaka, IN

e of Drilling Equipment Operator: E. Allen

LL INFORMATION

h of well: 124 Date well was completed: 5-20-75

eter of casing or drive pipe: _____ Total Length: _____

eter of liner (if used): _____ Total Length: _____

eter of Screen: _____ Length: _____ Slot Size: _____

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) _____ feet

Test: Hours Tested _____ Rate _____ g.p.m. Drawdown _____ ft.

st: Hours Tested _____ Rate _____ g.p.m. Drawdown _____ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature _____

Date _____

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 180429

ALLISO TEST
LAKNE 5/20/75

COUNTY MARION TWP. 15N RGE. 3E ¼ ¼ NE SEC 6 Subdivision Name

Topo Map INDIANAPOLIS WEST ~~7½~~

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	4	Brown Clay
4	25	Coarse Med. & Fine Gravel
27 ~~25~~	34 ~~27~~	Med. hard grey clay
34 ~~27~~	38 ~~34~~	Fine sand & fine gravel
38 ~~34~~	43	Med. hard grey clay
25	27	Med to fine gravel
43	47	Soft Sandy grey clay
47	58	Fine gravel w/coarse sand
58	106	Med. hard grey clay
106	124	Med. & fine gravel w/coarse sand
124		Dark Brown shale

C. (Test Well 75I)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

121

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

ounty in which well was drilled Marion Civil Township Wayne

iving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

25 feet South of Fence, 100 feet East of West Fence. 30 feet South of East 10th street, 75 feet North of MSI test Well

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Detroit Diesel/Allison Division Address

Building Contractor Address

ne of Well Drilling Contractor: Layne Northern

- of Drilling Equipment Operator: Robert Collins

L INFORMATION

h of well: 121

eter of casing or drive pipe: 16 Date well was completed: 7/17/75

eter of liner (if used): Total Length: 106

eter of Screen: 16 Length: 15 Total Length:

of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Slot Size: #6

Well: For Home ☐ For Industry ☑ Other

d of Drilling: ☒ Reverse Circular Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐ For Public Supply ☐ Stock ☐

water level in completed well (Distance from ground to water level) feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

ng : Hours Tested 24 Rate 316 g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

COUNTY MARION TWP. 15N RGE. 3E ¼ NE SEC. 4 Station Name

Topo Map INDIANAPOLIS WEST

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by [illegible] 3-18-76

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

C. (Casing extends 3.5 feet above ground)

C. (addt'l info stapled to log)

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Brown Clay	0	4
Fill, Boulders, Coarse yellow Gravel	4	16
Coarse Gravel and Medium Sand Gray	16	23
Medium Gravel, fine Sand - Gray	23	24
Medium Gravel, Medium Sand clay strips-yellow	24	27
Coarse Gravel, med. sand gray clay strips	27	28
Coarse Yellow Gravel, boulders	28	30
Med. Gravel, boulders, fine Sand	30	38
Hard Gray Clay, gritty	38	44
Sand Stone	44	45
Med. gravel, med. sand - gray	45	53
Coarse Gravel, med. sand, boulders	53	57
Hard Gritty Clay Gray boulders	57	76
Med. Gravel, med. sand - gray	76	79
Soft Gritty clay - gray	79	99
Coarse gravel, coarse sand - gray	99	103
Coarse gravel, coarse sand, pcs. of wood	103	105
Coarse gravel, med. sand - gray	105	121

CASING EXTENDS 3'-6" FEET ABOVE GROUND LEVEL

JOB NO. 23551

DISTRICT Indianapolis

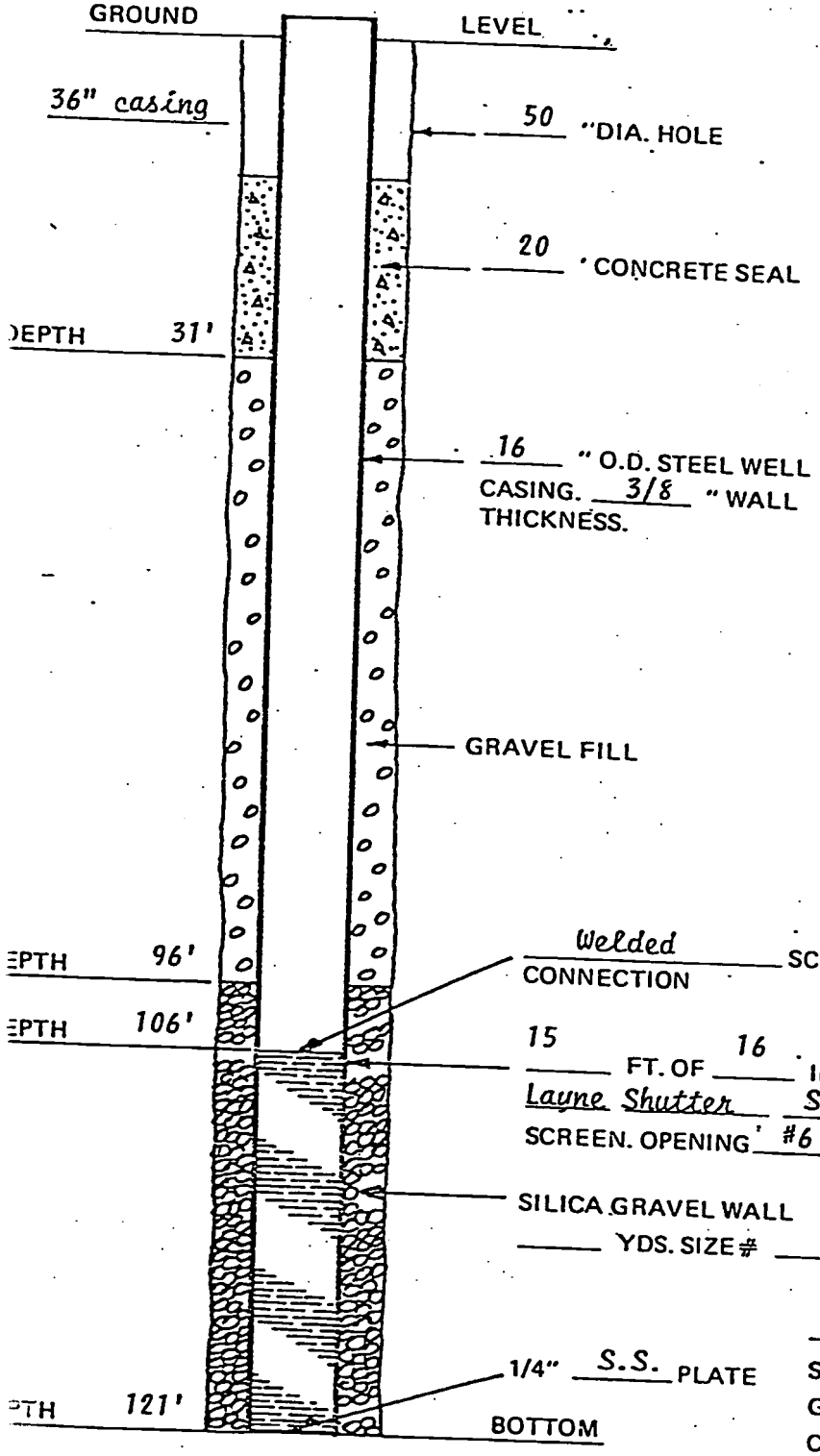
LOCATION: 30' S. of East 10th St.
25' S. of Fence
100' E. of West Fence

COUNTY Marion

TOWNSHIP Wayne

SECTION 6 T 15N R 3E

STATE Indiana



CASING TALLY

	FT.	WELDED THREADED IN.
BOTTOM		
	Screen	15'
	18'	9 1/2"
	21'	3 1/2"
	18'	11"
	20'	7"
	16'	3"
	13'	8"
TOP		
TOTAL		

FILL USED FROM BOTTOM UP

SILICA GRAVEL PACK 121 TO 96 FT.
GRAVEL FILL 96 TO 31 FT.
CONCRETE 31 TO 11 FT.

STATIC LEVEL 46'

PUMPED 316 G.P.M. AT 74 FEET PUMPING LEVEL AFTER 24 HOURS

TYPE OF RIG R.C. DRILLER R. Collins DATE COMPLETED 7/17/75

ALL DEPTHS MEASURED FROM GROUND LEVEL. NOT TO SCALE.

GRAVEL WALL WELL NO. 11 TYPE SC-1

OR: DETROIT DIESEL/ALLISON DIVISION OF GENERAL MOTORS - Plant #3 - North Well

INDIANAPOLIS, IND. - LAYNE-NORTHERN DIV. MISHAWAKA, IND.

DRAWING NUMBER

(122)

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W. Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

completely

WELL LOCATION

/ where drilled	Civil township	Township	Range	Section
Marion	~~15N~~ Wayne	~~3~~ 15N	3E	6

g directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a n reverse side.

OWNER - CONTRACTOR

of well owner: Allison Engineering Division

s (*number and street, city, state, ZIP code*)

Telephone number:

f building contractor

(*number and street, city, state, ZIP code*)

Telephone number:

drilling contractor: Rayne-Northern Company

(*number and street, city, state, ZIP code*) Shawaka INDIANA

Telephone number:

ent operator: Toole & C. Kimble

License number:

Date of completion: 3-20-39

CONSTRUCTION DETAILS

ell:

e / ic supply: ☐ Industry ☐ Stock ☒ Test ☐ Other (*specify*): ☐ Irrigation

of drilling: ry / e tool: ☐ Jet ☐ Rev. rotary ☐ Bucket rig ☐ Other

ngth feet — Material — Diameter inches

ngth feet — Material — Diameter inches

ot size — Total depth of well

pump setting — Water quality (*clear, cloudy, odor, etc.*)

mp / ersible: ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (*specify*):

WELL CAPACITY TEST

g: ☐ Air ☐ Pumping — Test rate _____ gpm _____ hrs.

feet — Static level (*depth of water*) 15 feet

JTING INFORMATION

rial	Depth of grout From to	Sealing material	Depth filled From To
nstallation	Number of bags used	Method of installation	Number of bags used

WELL ABANDONMENT

WELL LOG

FORMATIONS: Type of material	From (feet)	To (feet)
Top Soil	0	4
Sand + gravel	4	31 ~~27~~
blue clay	31 ~~27~~	39
gravel	39	40
blue clay	40	54
sand + gravel	54	60
blue clay	60	108
Shale	108	111

(Additional space for well log on reverse side)

ear or affirm, under the penalties

FOR ADMINISTRATIVE USE ONLY (Well driller does not fill out) 01-01 180425

County	Township	Range		Section
Marion	15N	3E	SW 1/4 NE 1/4 NE	6

Topo map	1250 Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	1400 Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS (type of material)	FROM (Feet)	TO (Feet)

SKETCH SHOWING LOCATION (Locate with reference to highways, intersecting county roads and distinctive landmarks)

N

W

C. Test #2 (one of several test wells)

Telephone 633-5267 Area Code 317

WATER WELL RECORD

(123)

INFORMATION ON WELL LOCATION

(Fill in completely as possible - Refer to intruction sheet)

y in which well was drilled: Marion Civil Township: Wayne

ng directions to the well location:

) feet South of East Gate, 10 feet from fence

ant #3.

f property owner (if known): Allison Engineering Company

s of owner:

f building contractor (if known):

f Well Drilling Contractor: Layne Northern

ss: Mishawaka, IN

f drilling equipment operator: James Young

INFORMATION ON THE WELL

of well: 72 Date well was completed: July 11, 1939

er of casing or drive pipe: Total length:

er of liner (if used): Total length:

er of Screen: Length: Slot size:

f Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) 10 ft.

Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

Test: Hours tested ____ Rate 950 g.p.m. Drawdown 32 ft.

Signature

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

01-01 183295

NTY: MARION TWP. 15N RGE. 3E NE ¼ NE ¼ NE ¼ SEC. 6

Allison GMC

Plant #3

o Map: INDIANAPOLIS WEST

ld Located By _____ Date _____

rthouse Location By _____ Date _____

ation accepted w/o verification by _____

50 Ft W of EL. Ground elevation 720

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

950 Ft S of NL. Aquifer elevation _____

Lot Number _____

0	2	12	44
2	12	44	72

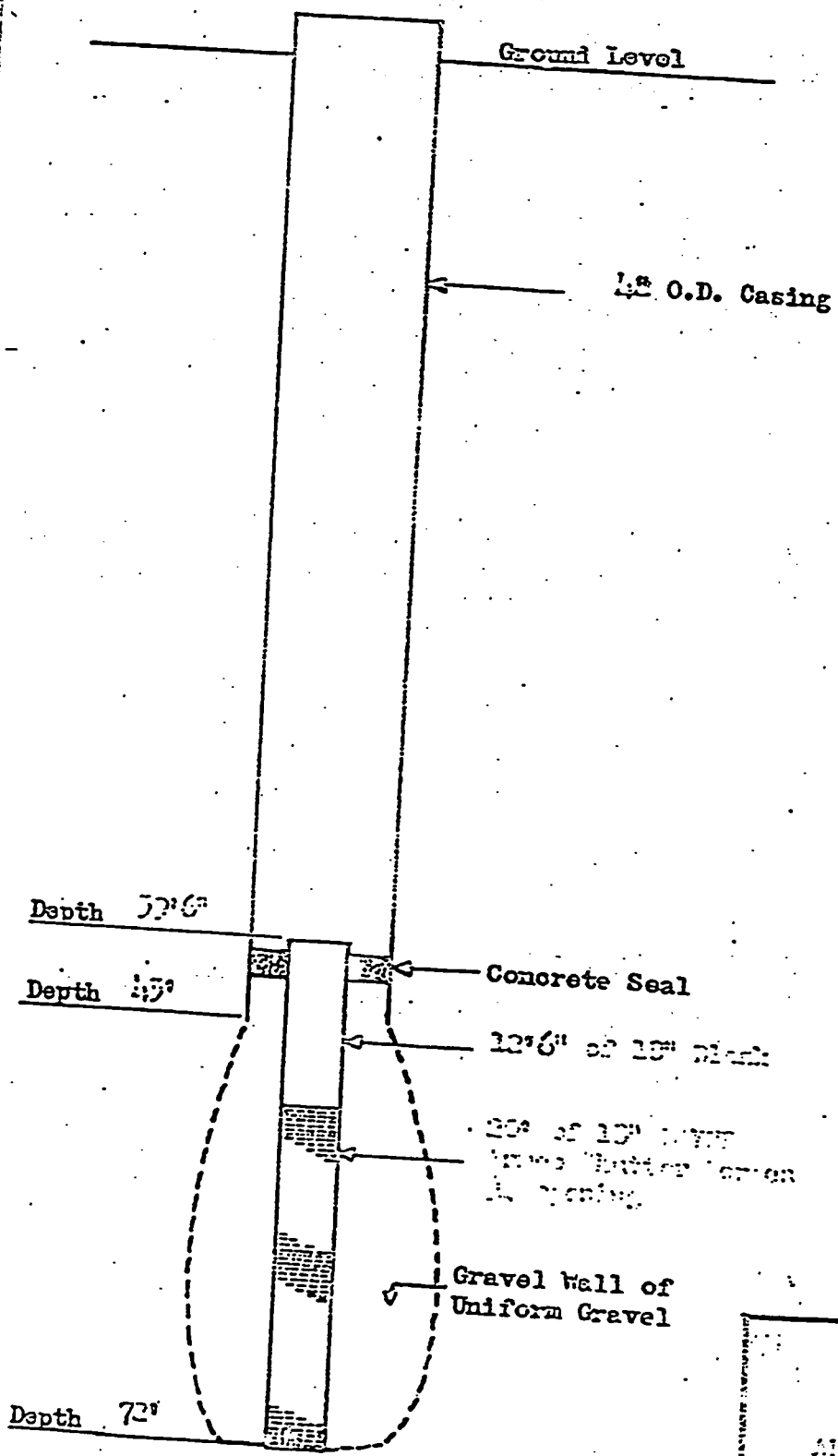
C. (addt'l info stapled to log)

Top Soil
Gravel
Clay
Gravel

RKS:

THIS SHEET

(at end of test)



Marion Co.
Wayne Twp.

Single Cased
LAYNE GRAVEL WALL WELL
for

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

WATER WELL RECORD

LOCATION

(Fill in completely - Refer to instruction sheet)

in which well was drilled Marion Civil Township

directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Plan 23 - Well No. 3 Log Test #9

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Allison Engr. Co. Address Speedway City

Building Contractor Address

Drilling Contractor: Layne-Northern

Drilling Equipment Operator:

INFORMATION

well: Date well was completed: 9-12-39

of casing or drive pipe: 42-18 Total Length:

of liner (if used): Total Length:

of Screen: 18' Length: 15' (42-57) Slot Size:

Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

ell: For Home [ ] For Industry [ ] For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ter level in completed well (Distance from ground to water level) 12 feet

st: Hours Tested Rate g.p.m. Drawdown ft.

Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: C.R. Merrick

Date C.L. McGuinness USGS 10-11-70

FO 01-01 To0005 ONLY
(... not fill out)

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NE SEC 6 Subdivision Name

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
st well No. 9		
il	0	4
Dry" gravel + boulders SL 10'	4	12
ravel	12	35
lay	35	43
ravel + Sand	43	56
lay	56+	

125

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

WATER WELL RECORD

LL LOCATION (Fill in completely - Refer to instruction sheet)

ity in which well was drilled Marion Civil Township

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Allison Engr. Co. Address Speedway City

Building Contractor Address

of Well Drilling Contractor: Layne-Northern

of Drilling Equipment Operator:

L INFORMATION

of well 57.5 Date well was completed: 1940

er of casing or drive pipe: 4½-18 Total Length:

er of liner (if used): Total Length:

er of Screen: 18" Length: 10 Slot Size: #4 Layne

f Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

Well: For Home [ ] For Industry [X] For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ater level in completed well (Distance from ground to water level) 19 feet

est: Hours Tested Rate g.p.m. Drawdown ft.

c: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: C.R. Merrick

Date C.L. Mc Guinness

WATER WELL LOG

FO 01-01 183400 ONLY
(well name out)

COUNTY Marion TWP. 15N RGE. 3E ¼ ¼ NE SEC 6 Subdivision Name

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

FORMATIONS (Color, type of material, hardness, etc.)	From	To
St #7 0-356		
Soil	0	5
Sand & Gravel	5	32
Blue Clay	32	35
Gravel	35	37
Blue Clay	37	46
Fine Gravel	46	48
Sand & Gravel	48	60
Tough blue clay	60	85

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

WATER WELL RECORD

INFORMATION ON WELL LOCATION

in which well was drilled: _____ Civil Township: _____

ssional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

be in your own words the well location with respect to nearby towns, roads, streets

tinctive landmarks: _____

f owner: _____ Address: _____

f Well Drilling Contractor: _____

f Drilling Equipment Operator: _____

INFORMATION ON THE WELL

ted depth of well: 76 ft. Date well was completed: _____

ter of outside casing or drive pipe: 4.25 Length: _____

ter of inside casing or liner: _____ Length: _____

ter of Screen: 4.25 Length: 3 Slot size: _____

of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

f Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Driven ☐

c water level in completed well (Distance from ground to water level) _____ ft.

r Test: Hours tested 1 Rate 10 g.p.m. Drawdown 27 ft. (Difference between static level and water level at end of test)

n Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature _____

Date _____

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

126

01-01 172486

FOR ADMINISTRATIVE USE ONLY
(Well Driller does not fill out)

COUNTY: [illegible] TWP. [illegible] N RGE. 3E [illegible] ¼ NW ¼ NW ¼ SEC. 8

Topo. Map: Inwood [illegible]

El. of grnd. surface at well: _____ Loc. accepted w/o verification Yes ✓ No ____

Depth to bedrock; _____ Courthouse Loc. By ____

Well Log processed by: [illegible] Field [illegible]

erning a
mation as
.
og.
ibmitted
, Indiana

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

(127)

State Form 35680

WATER WELL RECORD

L LOCATION (Fill in completely - Refer to instruction sheet)

y in which well was drilled Marion Civil Township

g directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Hamilton Bros. Address 4023 Rockville Rd.

Building Contractor Address

of Well Drilling Contractor: Hamilton Bros.

f Drilling Equipment Operator:

INFORMATION

f well: 45' Date well was completed: 2-4-55

r of casing or drive pipe: 4" Total Length:

r of liner (if used): Total Length:

r of Screen: Shop Length: ~~5', 6"~~ 5.5 Slot Size: ~~Shop~~

Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

ell: For Home [X] For Industry [ ] For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [ ] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ter level in completed well (Distance from ground to water level) feet

st: Hours Tested Rate g.p.m. Drawdown ft.

Hours Tested Rate ~~600~~ 10 g.p.m. Drawdown 25 ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Driller

~~Date~~ TMK, Ind. Dept. of Conser...

01-01 172568

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY: Marion TWP: 15N RGE: 3E ¼ NW ¼ NW SEC 8 Subdivision Name

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
lay	0	18
ry gravel	18	23
andy clay	23	34
and & gravel	34	45

128

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204

Telephone 317-232-4160

State Form 35680

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Richard Hamilton Address 4025 Rockville Rd.

Building Contractor Address

of Well Drilling Contractor: Hamilton Bros.

of Drilling Equipment Operator:

INFORMATION

of well: 77'

Date well was completed: 2-3-55

er of casing or drive pipe: 4" Total Length:

er of liner (if used): Total Length:

er of Screen: Shop Length: ~~5', 6'~~ 5.5 Slot Size: ~~Shop~~

Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Well: For Home ☒ For Industry ☐ For Public Supply ☐ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

ater level in completed well (Distance from ground to water level) feet

est: Hours Tested Rate ~~g.p.m.~~ Drawdown ft.

Hours Tested Rate 10 gpm ~~g.p.m.~~ Drawdown 62 ft.

(Drawdown is the difference between static level and water level at end of test)

~~Signature~~ Source of Data: Driller

~~Date~~ TMK, Ind. Dept. of Conserv.

01-01 172563

FOR ADMINISTR[illegible]E USE ONLY
(Well driller does not fill out)

COUNTY Marion TWP. 15N RGE. 3E ¼ NW ¼ NW SEC 8 Subdivision Name

Topo Map

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL. Ground Elevation

Ft N of SL. Depth to bedrock

Ft E of WL. Bedrock elevation

Ft S of NL. Aquifer elevation Lot Number

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	70	Sandy clay
70	77	Sand - gravel

565630E

FOR ADMIN... (Well d... 01-01 54076 Y

~~LIESKE'S HARDWARE~~

(18)

COUNTY MARION TWP. 15 N RGE. 3E NW ¼ NW ¼ NW SEC 8 Subdivision Name

Topo Map INDPLS. WEST

Field Located By MCBN Date 1992

Courthouse Location By ____ Date ____

Location accepted w/o verification by BRUNS 12-21-82

____ Ft W of EL. Ground Elevation 710

____ Ft N of SL. Depth to bedrock ____

____ Ft E of WL. Bedrock elevation ____

____ Ft S of NL. Aquifer elevation 662 Lot Number ____

WATER WELL RECORD

COUNTY: MARION

CIVIL TOWNSHIP:

PERMIT NO.:

DRIVING DIRECTIONS: 4200 ROCKVILLE RD.

WELL OWNER: VIRGINIA LIESKE

BUILDING CONTRACTOR: LIESKE'S HARDWARE

DRILLING EQUIPMENT OPERATOR: DESTER HARNESS

WELL INFORMATION

WELL DEPTH	CASING DIAMETER (MATERIAL)	CASING LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
48	4" PVC	45			4	3	60	DRILLED	COMMERCIAL	ROTARY	8/18/82

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
25				1	10	(10) ~~35 P/L~~

FORMATIONS (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
TOPSOIL & CLAY	0	40
SAND & GRAVEL	40	48

UTM NORTH 4401615

UTM EAST 565630

**COMMENTS MC

HAMILTON BROS. INC.
~~P.O. BOX 2418~~
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

C. (MC-662)

130

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

:LL LOCATION

(Fill in completely - Refer to instruction sheet)

nty in which well was drilled MARION Civil Township WAYNE

ing directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

N. W. CORNER PLANT #2

PERMANENT #2

AE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner ALLISON ENGINEERING Address

Building Contractor Address

e of Well Drilling Contractor: LAYNE NORTHERN

er

Drilling Equipment Operator: WAGNER AND POOLE

L INFORMATION

of well: 121

Date well was completed: 2-12-41

ter of casing or drive pipe: 40 Total Length: 108

ter of liner (if used): Total Length:

ter of Screen: 8 Length: 15 Slot Size: #4

of Well: Drilled ☐ Gravel Pack ☒ Driven ☐ Other

Well: For Home ☐ For Industry ☒ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) 32 feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

g Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR WELL

FOR ADMINIS (Well drille 01-01 173716

COUNTY MARION TWP. 16N RGE. 3E ¼ ¼ SE SEC 31 Subdivision Name

Topo Map Indpls West

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation ~~Allison GMC~~

Depth to bedrock ~~Flat HC~~

Bedrock elevation

Aquifer elevation

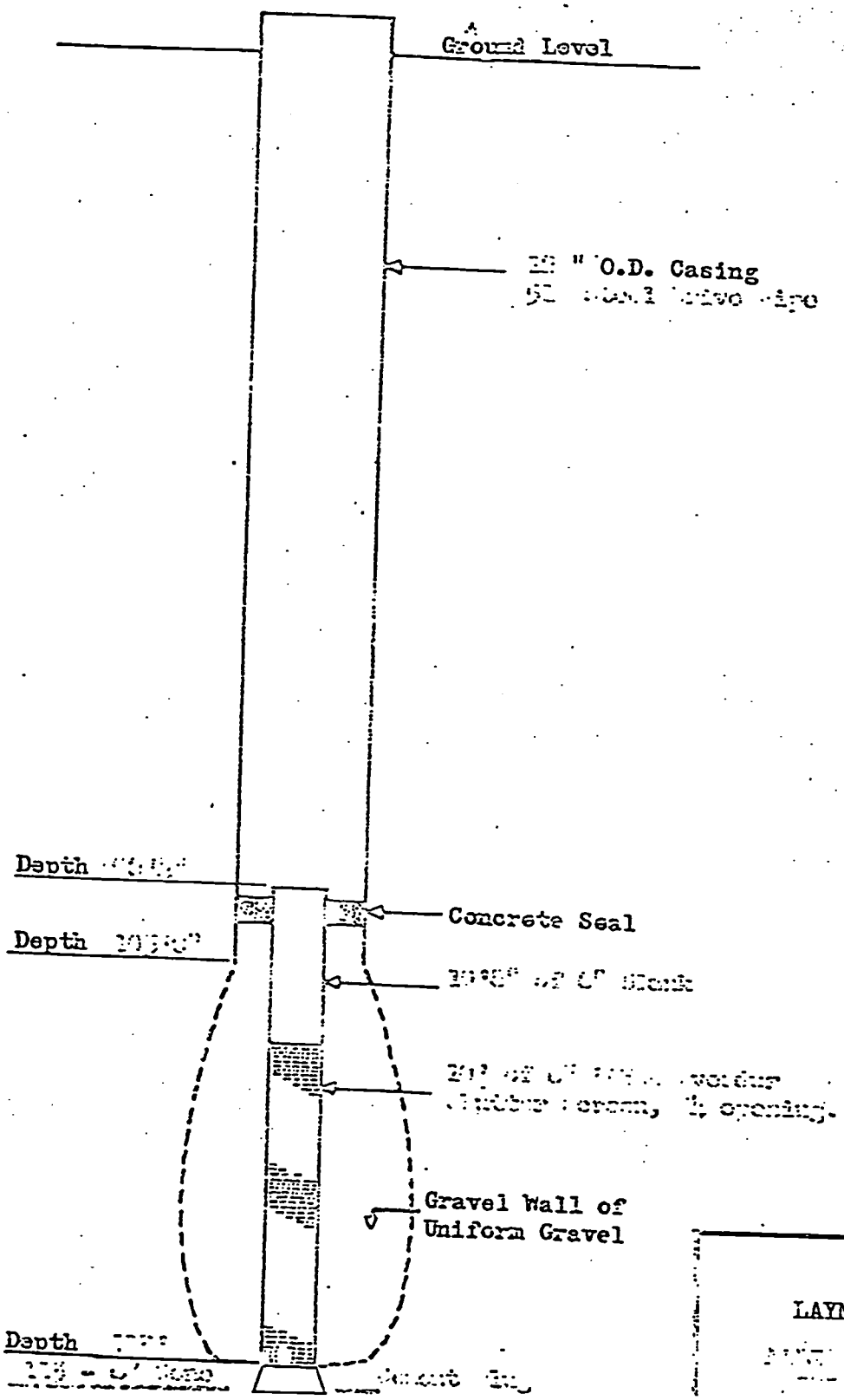
Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
TOP SOIL	0	2
GRAVEL	2	10
Clay	10	14
GRAVEL	14	31
Clay	31	43
HARD PAN	43	52
SAND + GRAVEL	52	61
Tough clay	61	108
SAND + clay balls	108	113
COARSE SAND + gravel	113	122

C. (WELL Diagram in original)

Allison



Marion G.
Wayne Drop.

Single Cased
LAYNE GRAVEL WALL WELL 2
for

Driller
Date Finished

Not drawn to Scale
All depths measured

270/53

Static Level 28'

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

131

WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

ounty in which well was drilled MARION Civil Township WAYNE

iving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

AT #2 TEST SITE SE CORNER PERMANENT #2

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner ALLISON ENGINEERING Address

Building Contractor Address

ne of Well Drilling Contractor: LAYNE NORTHERN

ress

Drilling Equipment Operator: William WAGNER

LL INFORMATION

h of well: 114

Date well was completed:

eter of casing or drive pipe: 12 Total Length: 105

eter of liner (if used): Total Length:

eter of Screen: 6 Length: 10 Slot Size: #4

of Well: Drilled ☐ Gravel Pack ☒ Driven ☐ Other

f Well: For Home ☐ For Industry ☒ For Public Supply ☐ Stock ☐

d of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

water level in completed well (Distance from ground to water level) 28 feet

Test: Hours Tested Rate 270 g.p.m. Drawdown ft.

ng Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR WELL LOG SPACE USE

FOR ADMINIS[illegible] 01-01 173711
(Well driller[illegible])

COUNTY MARION TWP. 16N RGE. 3E ¼ ¼ SE SEC 31 Subdivision Name

Topo Map Indpls West

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation ~~Allison GMC~~

Depth to bedrock ~~Plant 41-2~~

Bedrock elevation

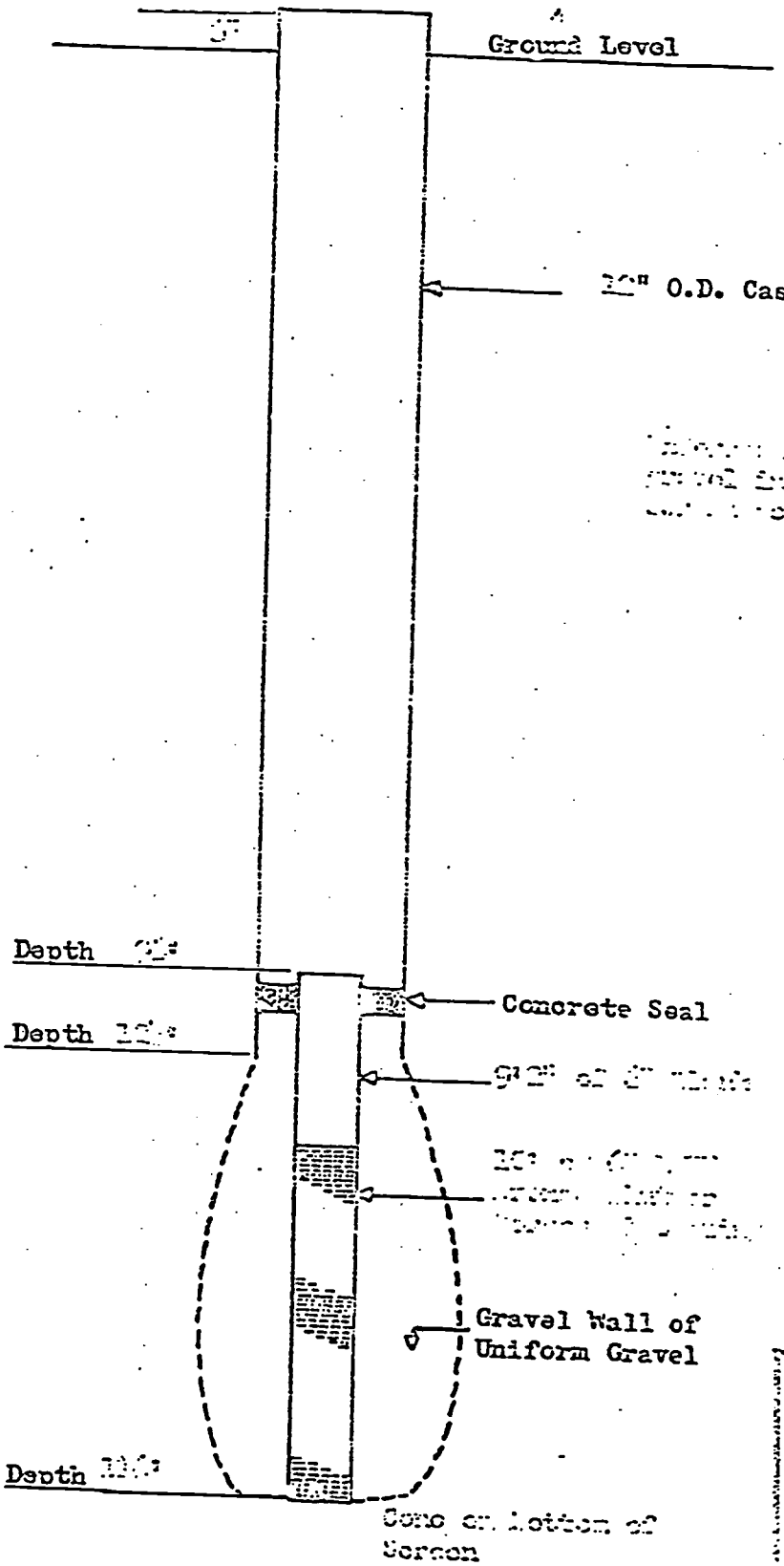
Aquifer elevation

Lot Number

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
0	8	FILL
8	14	GRAVEL
14	18	HARDPAN
18	30	GRAVEL
30	34	BOULDERS
34	52	HARD clay
52	59	clay + GRAVEL
59	77	Tough clay
77	99	HARD clay
99	105	Tough clay
105	108	MEDIUM SAND
108	114	FINE GRAVEL
		SHALE

C. (WELL DIAGRAM AVIALABLE)



Marion Co.
Wayne Twp.

Single Cased
LAYNE GRAVEL WALL WELL
for

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

Driller C. E. POOLE
Date Finished

Not drawn to Scale
All depths measured

Static Level

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

132

WATER WELL RECORD

(Fill in completely - Refer to instruction sheet)

ELL LOCATION

unty in which well was drilled MARION Civil Township WAYNE

ving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

PLANT #2 NE CORNER WELL # 1

IE OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner ALLISON ENGINEERING Address

Building Contractor Address

of Well Drilling Contractor: LAYNE NORTHERN

ss

illing Equipment Operator: JAMES NESS

L INFORMATION

of well: 114

Date well was completed: 11-7-40

er of casing or drive pipe: 12 Total Length: 104

er of liner (if used): Total Length:

er of Screen: 6 Length: 10 Slot Size:

Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

Vell: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

ater level in completed well (Distance from ground to water level) 26 feet

st: Hours Tested Rate 400 g.p.m. 43 Drawdown ft.

Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS

FOR ADM (Well 01-01 173701

COUNTY MARION TWP. 16N RGE. 3E ¼ ¼ SE SEC 31

Subdivision Name Allison GMC Plant #2

Topo Map Indpls West

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL. Ft N of SL. Ft E of WL. Ft S of NL.

Ground Elevation

Depth to bedrock

Bedrock elevation

Aquifer elevation

Lot Number

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
LL	0	8
GRAVEL	8	14
RD PAN	14	18
GRAVEL	18	30
OULDERS	30	34
lay	34	105
OARSE SAND	105	108
INE GRAVEL	108	114

C. (WELL DIAGRAM AVAILABLE)

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

133

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Plant #2 Test #1

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Allison Eng. Co Address Speedway City

Building Contractor Address

of Well Drilling Contractor: Layne Northern Co.

ss

lling Equipment Operator:

L INFORMATION

of well: 117 Date well was completed: ~~10~~ 9-20 - ~~44~~ - 40 (? date ukt)

ter of casing or drive pipe: — Total Length: —

ter of liner (if used): Total Length:

ter of Screen: Length: Slot Size:

f Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

Well: For Home [ ] ~~For Industry~~ [X] Test #1 For Public Supply [ ] Stock [ ]

l of Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

vater level in completed well (Distance from ground to water level) ~~See log - over~~ feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

g Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Old Card Citing C-R Merrick McGuinness by

Date 4595

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET 4-9-73

FOR A 01-0 67037 NLY
(W)

Allisons Plant 2

COUNTY Marion TWP. 16 N RGE. 3 E ¼ ¼ SE SEC 31 Subdivision Name

Topo Map Indpls West 7½

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation 725 C (Test #1)

Depth to bedrock 114 ~~10-14-40~~ ? ~~date cut~~

Bedrock elevation 611

Aquifer elevation Lot Number

11-9-73

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Fill	0	8
Gravel	8	30
Boulders	30	35
Gravel S.L. 18'	35	40
Clay	40	52
Gravel S.L. 18'	52	56
Clay	56	106
Gravel - Medium - S.L. 27'	106	108
Fine Gravel	108	114
Black Shale	114	117

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

134

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled Marion Civil Township

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Plant #2 Test 4
On Main St. 10' East of Fence; 10' North from pavement; In S.W. Corner of parking lot.

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Allison Eng Co Address Speedway

Building Contractor Address

of Well Drilling Contractor: Layne Northern Co

s

ling Equipment Operator:

INFORMATION

of well: 123 Date well was completed: 1940

er of casing or drive pipe: — Total Length:

er of liner (if used): Total Length:

er of Screen: Length: Slot Size:

Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

Well: For Home [ ] ~~For Industry~~ [X] Test 4 For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

ater level in completed well (Distance from ground to water level) ~~See log - only~~ 27 feet

st: Hours Tested Rate g.p.m. Drawdown ft.

Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Old Log Card Citing C. R. Merrick

Date by McGuinness - 1595 10-14-40

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

FOR AD 01- 67036 LY
(Wel...)

8

~~Attic~~
~~Plant 2~~

COUNTY Marion TWP. 16 N RGE. 3 E ¼ ¼ SE SEC 31 Subdivision Name

Topo Map Indpls West ~~Fz~~

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation 715 C. (Test 4)

Depth to bedrock 122 ~~Lyne 40~~

Bedrock elevation 593

Aquifer elevation Lot Number

4-9-73

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Fill - Gravel & Clay (20)	0	20
Medium Gravel (15)	20	35
Tough Clay (19)	35	54
Gravel (5)	54	59
Tough Clay (44)	59	103
Fine Sand (10)	103	113
Muddy Sand & Gravel ~~S.L. 29~~ (4)	113	122
Black Shale (1)	122	123

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

135

WATER WELL RECORD

L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled _____ Civil Township _____

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Plant 2 Test # 2
Northeast corner of grounds.

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Allison Eng Co Address Speedway City

Building Contractor _____ Address _____

of Well Drilling Contractor: Layne Northern Co

ss _____

lling Equipment Operator: _____

L INFORMATION

of well: 115 Date well was completed: 8-28 1940

er of casing or drive pipe: — Total Length: —

er of liner (if used): _____ Total Length: _____

er of Screen: _____ Length: _____ Slot Size: _____

f Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other _____

Well: For Home [ ] For Industry [X] Test 2 For Public Supply [ ] Stock [ ]

of Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

vater level in completed well (Distance from ground to water level) ~~See log card~~ 25.5 feet

est: Hours Tested _____ Rate _____ g.p.m. _____ Drawdown _____ ft.

g Test: Hours Tested _____ Rate _____ g.p.m. _____ Drawdown _____ ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Old log card citing C.R. Merrick

Date by McGuinness, USGS 10-14-40

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS

B

FO 01-01 (7035 E ONLY
..... out)

~~Allison~~
~~Plant 2~~

COUNTY Marion TWP. 16 N RGE. 3 E ¼ ¼ SE SEC. 31 Subdivision Name

Topo Map Indpls West ~~NE~~

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation 715 Co (Test 2)

Depth to bedrock 114 ~~8-26-40~~

Bedrock elevation 601

Aquifer elevation Lot Number

2-9-73

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Fill and Clay	0	8
Gravel	8	14
Weathered	14	18
Gravel - S.L. 18'	18	30
Bedrock	30	34
Hard Clay	34	52
Clay and Gravel Mixed	52	59
Tough Clay	59	77
Hard Clay	77	99
Tough Clay	99	105
Medium Sand	105	108
Fine Gravel ~~S.L. 113~~	108	114
Black Shale	114	115

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

WATER WELL RECORD

136

L LOCATION

(Fill in completely - Refer to instruction sheet)

y in which well was drilled Marion Civil Township

g directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Plant 2 Test 3

Northwest Corner of property - Main St and Fillman

OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Allisons Eng Co. Address Speedway

Building Contractor Address

f Well Drilling Contractor: Layne Northern Co

ing Equipment Operator:

INFORMATION

f well: 123

Date well was completed: ~~8-1940~~ 9-9-1940

of casing or drive pipe: Total Length: -

of liner (if used): Total Length:

of Screen: Length: Slot Size:

Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

ell: For Home [ ] For Industry [X] Test #3 For Public Supply [ ] Stock [ ]

f Drilling: Cable Tools [ ]? Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

er level in completed well (Distance from ground to water level) ~~See log card~~ 33 feet

t: Hours Tested Rate g.p.m. Drawdown ft.

Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Old Log Card Citing C.R. Merrick

Date by C.L. McGuinness - USGS 10-14-40

FOR WELL LOG SPACE USE REVERSE SIDE

B

FOR ADMI[illegible] ONLY
(Well d[illegible] 67034

Allisons Plant 2

COUNTY Marion TWP. 16 N RGE. 3 E ¼ ¼ SE SEC. 31 Subdivision Name

Topo Map Indpls West 7½

Field Located By Date

Courthouse Location By Date

Location accepted w/o verification by

Ft W of EL.

Ft N of SL.

Ft E of WL.

Ft S of NL.

Ground Elevation 715 Ca (Test 3)

Depth to bedrock 122 Layne 1940

Bedrock elevation 593

Aquifer elevation Lot Number

2-9-73

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Fill and Clay	0	6
Gravel	6	10
Hardpan	10	14
Gravel S.L. 18'	14	31
Clay	31	43
Gravel	43	45
Tough Clay	45	52
Fine Gravel - S.L. 25½	52	61
Tough Clay	61	105
Sand	105	109
Coarse Sand & Gravel S.L. 33'	109	122
Blue Shale	122	123

137

RECORD OF WATER WELL
State Form 35680 (R3 / 11-87)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

mpletely)

WELL LOCATION

nty where drilled	Civil township	Township	Range	Section
Marion				

ving directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there space for a map on reverse side.

1500 Polco Street

OWNER · CONTRACTOR

e of well owner: Union Carbide Coating Service Corp.		Telephone Number ( )
ss (Street and number, city, state): 500 Polco Street Indpls, In.		ZIP code 46224
of building contractor		Telephone number ( )
ss (Street and number, city, state)		ZIP code
of drilling contractor: Hamilton Bros, Inc.		Telephone number (241-2571
s (Street and number, city, state): 25 Rockville Road Indpls, In.		ZIP code 46222
f equipment operator: David R. Barnes	License number #35	Date of completion 7/13/90

CONSTRUCTION DETAILS

vell:

ne ☒ Industry ☐ Test ☐ Irrigation

lic supply ☐ Stock ☐ Other (specify):

of drilling: ☒ Rotary ☐ Rev. rotary

le tool ☐ Jet ☐ Bucket rig ☐ Other

ength 117 feet	Material P.V.C.	Diameter 8 inches
ngth 0' feet	Material (SS) Stainless Steel	Diameter 8 inches
ot size .060	Total depth of well 117'	
ump setting 80'	Water quality (Clear, cloudy, odor, etc.) Clear	

ump ☐ Shallow-well jet

ersible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

☐ Air ☐ Pumping

Test rate 80 gpm 1 hrs.

35 feet

Static level (depth to water) 45' feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
Topsoil + Clay	0	110
Gravel	110	117

INFORMATION

al	Depth of grout From 0 To 110	
slug		
nstallation	Number of bags used 9	
ie		

WELL ABANDONMENT

Sealing material	Depth filled From To
Method of installation	Number of bags used

ear or affirm, under the penalties for perjury that ation submitted herewith is to the best of my and belief true

Signature of owner of authorized representative

(Additional space for well log on reverse side)

FOR ADM (well c 0-01 173681

County	Township	Range		Section
Marion	11 N	3E	¼ NE ¼ SE	31

Topo map Indpls. West	Ft. W of EL	Ground elevation	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W E

S

138

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ty in which well was drilled: Adrian Civil Township:

ressional township: Range: Number of section:

(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

istinctive landmarks:

Holiday Motel across from Speedway

of owner: Baker and McHenry Address: 421 W. Eleventh

of Well Drilling Contractor: Hamilton Bros

ss:

rilling Equipment Operator: Bob Edwards

INFORMATION ON THE WELL

ted depth of well: 127 ft. Date well was completed: Sept 25 1959

er of outside casing or drive pipe: 8" Length:

er of inside casing or liner: Length:

er of Screen: 8" Length: 15' Slot size: Cook #60

Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other Motel Well

Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) ft.

Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

Test: Hours tested 8 Rate 300 g.p.m. Drawdown ft.

~~Pump level 65'~~

Signature

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	12
S + G	12	24
Clay	24	34
S. Clay	34	40
Clay	40	49
Sand	49	50
Clay	50	112
Gravel ~~#~~ ~~15'~~	112	127

MARKS:

gasoline log

FOR ADMINISTRATIVE ONLY
(Well Driller does not fill out)

COUNTY: Marion TWP. 16N RGE. 3E NE ¼ NE ¼ SE ¼ SEC. 31

Topo. Map: Indpls. West Loc. accepted w/o verification Yes ___ No ___

El. of grnd. surface at well: 727 Courthouse Loc. ✓ By ___ Date ___

Depth to bedrock: ___ Field Located By Hale Date 1960

Well Log processed by: Hale 11/59 Placed in Master Well Log File Date ___

01-01 91

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a ter well. We request that you be as accurate as possible in recording this information as may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. ease include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted hin thirty days after the completion of a well to the Division of Water Resources, Indiana artment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

(139)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

WATER WELL RECORD

INFORMATION ON WELL LOCATION

nty in which well was drilled: Ill. Civil Township:

gressional township: Range: Number of section:

(Fill in as completely as possible)

cribe in your own words the well location with respect to nearby towns, roads, streets distinctive landmarks:

End of Gilman St off Speedway Main

5816

of owner: CENTRAL LIME CORP. Address: 4700 W. Gilman

of Well Drilling Contractor: HAMILTON BROS

of Drilling Equipment Operator: WHEELER

INFORMATION ON THE WELL

eted depth of well: 116 ft. Date well was completed: 2-27-64

ter of outside casing or drive pipe: 4.25 Length: 117

ter of inside casing or liner: Length:

er of Screen: 4 Length: 2 Slot size: 50

f Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Well: For home ☐ For industry ☒ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) 35 ft.

Test: Hours tested 1 Rate 20 g.p.m. Drawdown 45 ft. (Difference between static level and water level at end of test)

Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft.

Signature

Date

FOR WELL LOG

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
LAY	0	10
RAVEL+SAND *~~23'~~	10	33
LAY	33	49
SAND MED. - COARSE *~~15'~~	49	56
LAY	56	111
AND FINE to COARSE *~~5'~~	111	116

EMARKS: graphic log

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY: Marion TWP. 16N RGE. 3E NE ¼ SE ¼ SE ¼ SEC. 31

Topo Map: T. Weal Indianapolis

Well log classified By [illegible] Date 5-64
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By [illegible] Date 5-64

500 Ft W of EL. Ground elevation 728±
1100 Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
____ Ft S of NL. Aquifer elevation 612±

01-01 173706

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a ater well. We request that you be as accurate as possible in recording this information as may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. lease include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thin thirty days after the completion of a well to the Division of Water Resources, Indiana partment of Conservation.

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

(140)

3750 N

WATER WELL RECORD

RECEIVED Department of Natural Resources Division of Water

INFORMATION ON WELL LOCATION

y in which well was drilled: Marion Civil Township:

essional township: Range: Number of section:

(Fill in as completely as possible)

ibe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks:

f owner: Address: 1039 [illegible]

f Well Drilling Contractor:

s:

rilling Equipment Operator:

INFORMATION ON THE WELL

ted depth of well: 18 ft. Date well was completed:

er of outside casing or drive pipe: 4 Length:

er of inside casing or liner: MATERIAL PVC Length:

er of Screen: 3 Length: 1 Slot size:

Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) 7 ft.

Test: Hours tested Rate g.p.m. Drawdown f . (Difference between static level and water level at end of test)

Test: Hours tested Rate 10 g.p.m. Drawdown 1 ft.

Signature

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

ATIONS (Color, type of material, hardness, etc.)	From	To
[illegible]	0	10
[illegible]	10	50

RKS: graphic log

FOR ADMINIS' 01-01 6[illegible]9
(Well driller does not fill out)

COUNTY: [illegible] TWP. 16N RGE. 35 [illegible] ¼ [illegible] ¼ [illegible] ¼ SEC. 32

Topo Map: [illegible]

Well log classified By ____ Date ____
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By ____ Date ____

____ Ft W of EL. Ground elevation ____
____ Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
____ Ft S of NL. Aquifer elevation ____

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as ay be of great assistance in the planning and development of new water supplies.
An accurate location of the well is equally as important as an accurate well log. se include all information possible in the space provided for well location.
As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted n thirty days after the completion of a well to the Division of Water

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

(141)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

WELL LOCATION

ere drilled	Civil township	Township	Range	Section
MARION		16N	3E	32

ections to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a verse side.

1801 N LUETT ST

OWNER - CONTRACTOR

ell owner: SHOCKENCY
umber and street, city, state, ZIP code)
Telephone number:

ilding contractor: –
umber and street, city, state, ZIP code)
Telephone number:

lling contractor: HAMILTON BROS.
mber and street, city, state, ZIP code)
Telephone number:

ipment operator:
License number:
Date of completion: 1954

CONSTRUCTION DETAILS

upply: ☐ Industry ☐ Test ☐ Irrigation ☐ Stock ☐ Other (*specify*):

illing ol: ☐ Jet ☐ Bucket rig ☐ Rev. rotary ☐ Other

	Material	Diameter
n feet		4 inches
n 5 feet		inches

ize

Total depth of well: 47

p setting

Water quality (*clear, cloudy, odor, etc.*)

ble: ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (*specify*):

WELL CAPACITY TEST

☐ Air ☐ Pumping

Test rate: _____ gpm _____ hrs.

Static level: feet (*depth of water*) feet

NFORMATION

Depth of grout: From to

allation: Number of bags used

WELL ABANDONMENT

Sealing material

Depth filled: From To

Method of installation

Number of bags used

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
SANDY clay	0	10
DRY GRAVEL	10	22
Clay	22	42
SAND + GRAVEL	42	47

(*Additional space for well log on reverse side*)

or affirm, under the penalties t the information submitted he best of my knowledge and urate and complete.

Signature of owner or authorized representative

Date

FOR ADMINISTI (well driller a 01-01 173766

County	Township	Range	1/4	1/4	Section
MARION	16N	3E			32

Topo map: FNDIANAPOLIS WEST	Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

(142)

OCT RECEIVED

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ty in which well was drilled: Marion Civil Township:

ressional township: Range: Number of section:

(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks:

of owner: Nazarene Ministry Address: 1811 Swett

of Well Drilling Contractor:

or Drilling Equipment Operator: Paul

INFORMATION ON THE WELL

eted depth of well: 68 ft. Date well was completed: 7-13-66

er of outside casing or drive pipe: 4 ~~3~~ Length: 65

er of inside casing or liner: Length:

er of Screen: Length: ~~4'~~ 4.6 Slot size:

f Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other ~~JJ-12-0~~

Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) ft.

Test: Hours tested ~~1/2~~ Rate ~~10~~ g.p.m. Drawdown f . (Difference between static level and water level at end of test).

g Test: Hours tested 0.5 ~~1/2~~ Rate 10 g.p.m. Drawdown ft.

Signature

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

MATIONS (Color, type of material, hardness, etc.)	From	To
Top soil + clay	0	22
dry Sand	22	29
Clay	29	45
Sand	45	68
~~Not Thru formation~~		

MARKS:

FOR ADMINI 01-01 6 6
(Well driller [illegible])

COUNTY: _____ TWP. 16 N RGE. 3 E ___ ¼ ___ ¼ ___ ¼ SEC. 32

Topo Map: _____

Well log classified By ____ Date ____
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By ____ Date ____

___ Ft W of EL. Ground elevation ____
___ Ft N of SL. Depth to bedrock ____
___ Ft E of WL. Bedrock elevation ____
___ Ft S of NL. Aquifer elevation ____

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a ter well. We request that you be as accurate as possible in recording this information as may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. ease include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thin thirty days after the completion of a well to the Division of Water

160

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

...mpletely

WELL LOCATION

...where drilled	Civil township	Township	Range	Section
Marion	Wayne			

...directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a ...reverse side.

50 feet South of #6 well, 5 feet West of water line

OWNER-CONTRACTOR

...f well owner
...lison Engineering Company
...(number and street, city, state, ZIP code)
Telephone number

...building contractor
(number and street, city, state, ZIP code)
Telephone number

...drilling contractor
...yne Northern
(number and street, city, state, ZIP code)
Telephone number

...equipment operator
...n Wagner and Charles Poole
License number
Date of completion: October 24, 1940

CONSTRUCTION DETAILS

...ell:
...e ☐ Industry ☐ Test ☐ Irrigation
...c supply ☐ Stock ☐ Other (*specify*):

...f drilling
...ry ☐ Jet ☐ Bucket rig
...e tool ☐ Rev. rotary ☐ Other

...ngth ... feet | Material | Diameter ... inches
...ngth ... feet | Material | Diameter ... inches
...ot size | Total depth of well
...ump setting | Water quality (*clear, cloudy, odor, etc.*)
...mp ☐ Shallow-well jet ☐ Other (*specify*):
...ersible ☐ Deep-well jet

WELL CAPACITY TEST

...g ☐ Air ☐ Pumping
Test rate ____ gpm ____ hrs.
... feet
Static level (*depth of water*) 22 feet

...INFORMATION

	Depth of grout From to	Sealing material	Depth filled From To
...nstallation	Number of bags used	Method of installation	Number of bags used

WELL ABANDONMENT

...ear or affirm, under the penalties ... that the information submitted ...to the best of my knowledge and ...accurate and ...

Signature of owner or authorized representative

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
Top Soil	0	1
Clay	1	4
S+G	4	34
Gritty Clay	34	37
S+G - some clay	37	42
Gritty Clay	42	52
S+G	52	60
Hard Gritty Clay	60	100
Medium + Fine Sand Mixed	100	107
Fine Sand and Gravel	107	117

(*Additional space for well log on reverse side*)

Date

FOR ADMINISTRATIVE USE ONLY (well drillers do not fill this) 01-01 179990

County	Township	Range		Section
Marion	~~Wayne~~ 15N	3E	NW 1/4 NW 1/4 NE	6

Topo map	2650 Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	300 Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS (type of material)	FROM (Feet)	TO (Feet)

SKETCH SHOWING LOCATION (Locate with reference to highways, intersections, roads and other landmarks)

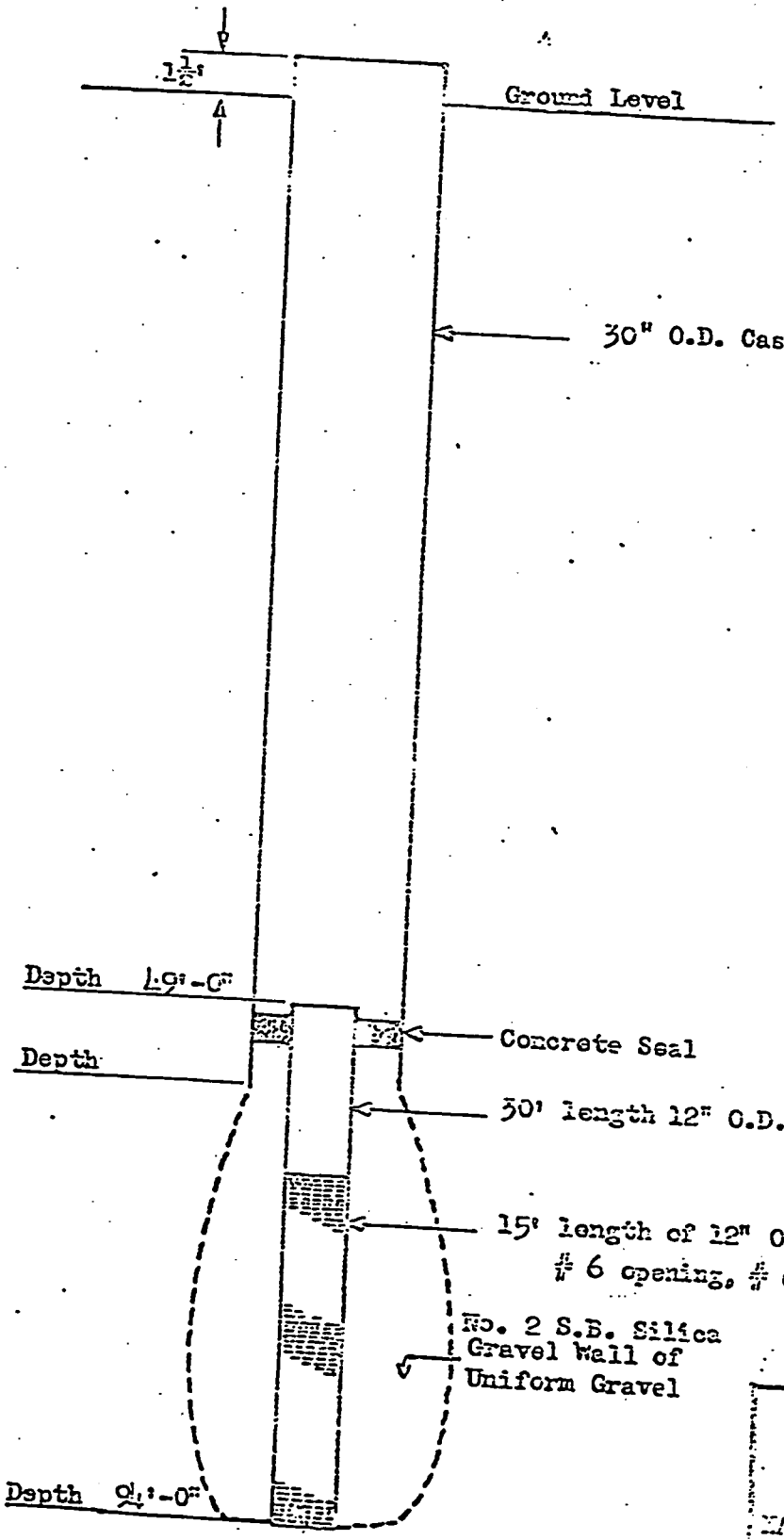
C. (~~#2~~ Well Log No. 24)

N

W

E

T15N, R3E, Sec 4 NW, SW, NE



JOB C-3153
RECONSTRUCTED WELL
ORIGINALLY INSTALLED ON
JOB C-1189

Marion Co.
Center Twp.

WELL RECONSTRUCTED.

LAYNE GRAVEL WALL WELL
Single Cased
For
NATIONAL MALLEABLE & STEEL CASTINGS
COMPANY
546 NORTH ROLINS AVE.
INDIANAPOLIS INDIANA

LAYNE NORTHERN CO. INC.
MISHAWAKA

Driller John Miller
Date Finished 11/24/44

Not drawn to Scale
All depths

Static Level 22

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

145

RECEIVED SEP 1963 Dept. of Conservation Division of Water Resources

WATER WELL RECORD

INFORMATION ON WELL LOCATION

in which well was drilled: Marion Co. Civil Township: _____

essional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

be in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: 1823 Rochester [illegible]
Rochester St. [illegible]

f owner: [illegible] Address: [illegible]

f Well Drilling Contractor: [illegible]

s: [illegible]

illing Equipment Operator: [illegible]

INFORMATION ON THE WELL

ted depth of well: _____ ft. Date well was completed: [illegible]

er of outside casing or drive pipe: 4.5 [illegible] Length: [illegible]

er of inside casing or liner: _____ Length: _____

er of Screen: _____ Length: 2.5 [illegible] Slot size: _____

Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) [illegible] ft.

Test: Hours tested _____ Rate [illegible] g.p.m. Drawdown 20 ft. (Difference between static level and water level at end of test)

Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature [illegible]

Date [illegible]

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
[illegible] yellow	1	15
[illegible] Brown	5	34
[illegible]	34	55
[illegible] Brown	55	60

KS:

FOR ADMIN: 01-01 63
(Well Drille ... out)

COUNTY: Marion TWP. 16 RGE. 3E ¼ ¼ NE ¼ SEC. 32

Topo. Map: Indianapolis West Fk

El. of grnd. surface at well: Loc. accepted w/o verification Yes ✓ No

Depth to bedrock: Courthouse Loc. By Date

Well Log processed by: Field Located By Date

Placed in Master Well Log File Date

INSTRUCTIONS

his Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

(146)

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

WELL LOCATION

where drilled	Civil township	Township	Range	Section
MARION		16N	3E	32

directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a reverse side.

1829 N ROCHESTER

OWNER - CONTRACTOR

well owner: HART — Telephone number:

number and street, city, state, ZIP code)

building contractor: — Telephone number:

number and street, city, state, ZIP code)

drilling contractor: HAMILTON BROS. — Telephone number:

number and street, city, state, ZIP code)

equipment operator — License number — Date of completion: 11-22-54

CONSTRUCTION DETAILS

supply: ☐ Industry ☐ Test ☐ Irrigation ☐ Stock ☐ Other (*specify*):

drilling tool: ☐ Jet ☐ Bucket rig ☐ Rev. rotary ☐ Other

	Material	Diameter
gth) feet		4 inches
gth feet		inches

t size — Total depth of well: 43

ump setting — Water quality (*clear, cloudy, odor, etc.*)

mp ersible: ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (*specify*):

WELL CAPACITY TEST

☐ Air ☐ Pumping

Test rate: ~~450~~ 7.3 gpm _____ hrs.

Static level: feet (*depth of water*) feet

OUTING INFORMATION

	Depth of grout	Sealing material	Depth filled
	From to		From To
nstallation	Number of bags used	Method of installation	Number of bags used

WELL ABANDONMENT

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
TOP SOIL + clay	0	11
DRY SAND	11	33
clay	33	38
SAND	38	43

(*Additional space for well log on reverse side*)

ear or affirm, under the penalties that the information submitted to the best of my knowledge and accurate and complete.

Signature of owner or authorized representative — Date

FOR ADM 01-01 173761
(well di.

County	Township	Range	1/4	1/4	Section
MARION	16N	3E			32

Topo map: INDIANAPOLIS WEST	Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

RECORD OF WATER WELL
State Form 35680 (R3 / 11-87)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

(147)

completely) Job 88-214

WELL LOCATION

drilled	Civil township	Township	Range	Section
Marion				2345

directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting road and trip origination there
e for a map on reverse side.

OWNER - CONTRACTOR

well owner: Loyd Meadows
(Street and number, city, state): 27 N Olin ~~Ave~~ OLIN Indpls, In.
Telephone Number: ( )
ZIP code: 46222

building contractor
(Street and number, city, state)
Telephone number: ( )
ZIP code:

drilling contractor: Matlock Hill Drilling
(Street and number, city, state): 1 N Morris Indpls. In.
Telephone number: ( ) 241-8239
ZIP code: 46241

equipment operator: Ron Davis
License number: 66
Date of completion: 9/25/88

CONSTRUCTION DETAILS

☐ Industry ☐ Test ☐ Irrigation

supply ☐ Stock ☐ Other (specify):
drilling: ☑ Rotary ☐ Rev. rotary
tool ☐ Jet ☐ Bucket rig ☐ Other

gth	Material	Diameter
7 feet	~~Plastic~~ PVC	4 inches
gth 5 feet	~~Plastic~~ PVC	4 inches

size: #60
Total depth of well: 92'
mp setting
Water quality (Clear, cloudy, odor, etc.): Clear

mp ☐ Shallow-well jet
sible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

☐ Air ☐ Pumping
Test rate: 20 gpm hrs.
Static level (depth to water): 25' feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
Top Soil	0	3
Overburden	3	15
Gravel	15	37
Clay	37	64
Gravel	64	92

(Additional space for well log on reverse side)

TING INFORMATION

	Depth of grout From To	Sealing material	Depth filled From To
installation	Number of bags used	Method of installation	Number of bags used

WELL ABANDONMENT

ear or affirm, under the penalties for perjury that ation submitted herewith is to the best of my and belief, true, accurate and complete.

Signature of owner of authorized representative: Allen Matlock
Date: 9/30/88

01-01 173731 ONLY
ut)

County	Township	Range		Section
Marion	16N	3E	SW ¼ SW ¼ SE	32

Topo map: INDPLS WEST	Ft. W of EL	Ground elevation	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

148

WATER WELL RECORD

Permit # 2623

WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled Hancock Civil Township

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner [illegible] Address [illegible]

Building Contractor Address

Name of Well Drilling Contractor: Hamilton [illegible]

Name of Drilling Equipment Operator: [illegible]

WELL INFORMATION

Depth of well: 71

Date well was completed: 6/21/73

Diameter of casing or drive pipe: 4 Total Length: 65'

Diameter of liner (if used): Total Length:

Diameter of Screen: 3 Length: 5' Slot Size: #40

Use of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other

Use of Well: For Home ☑ For Industry ☐ For Public Supply ☐ Stock ☐

Method of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) feet

Pump Test: Hours Tested Rate g.p.m. Drawdown ft.

Bailing Test: Hours Tested 2 Rate 11 g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature [illegible]

Date 6/21/73

FOR ADMI... 63781
(Well d... does not ...

COUNTY MARION TWP. 16N RGE. SE NE ¼ SE ¼ SW SEC 32 Subdivision Name

Topo Map INDIANAPOLIS

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

2700 Ft W of EL.

900 Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation 728

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation 663

Lot Number _____

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
[illegible]	0	[illegible]
[illegible]	2	30
[illegible]	30	65
[illegible]	65	71
(Fine Sand)		

w/L 707

Section # 11 - Lower Unit (A)

RECORD OF WATER WELL

State Form 35680 (R3 / 11-87)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

(149)

completely) Job 88-236

WELL LOCATION

rilled	Civil township	Township	Range	Section
Marion				

directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there e for a map on reverse side.

OWNER - CONTRACTOR

well owner
up Medsker
(Street and number, city, state)
N Olin Ave Indpls. In
Telephone Number ( ) 637-0851
ZIP code 46222

building contractor
N 2800 W.
Street and number, city, state)
Telephone number ( )
ZIP code

drilling contractor
Hill Drilling
Street and number, city, state)
H. Morris Indpls. In
Telephone number ( ) 241-8239
ZIP code 46241

equipment operator
License number
Date of completion

CONSTRUCTION DETAILS

☐ Industry ☐ Test ☐ Irrigation

supply ☐ Stock ☐ Other (specify):
drilling: ☑ Rotary ☐ Rev. rotary
tool ☐ Jet ☐ Bucket rig ☐ Other

gth 3 feet | Material ~~Plastic~~ PVC | Diameter 4 inches

gth feet | Material | Diameter inches

t size | Total depth of well 133'

ump setting | Water quality (Clear, cloudy, odor, etc.) Clear

mp ☐ Shallow-well jet
rsible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

☐ Air ☐ Pumping
Test rate 10 gpm hrs.
Static level (depth to water) 40' feet
feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
Top Soil	0	3
Gravel	3	37
Clay	37	65
Gravel	65	67
Clay	67	96
Gravel	96	98
Clay	98	130
Gravel	130	133

(Additional space for well log on reverse side)

UTING INFORMATION

rial	Depth of grout From To	Sealing material	Depth filled From To
installation	Number of bags used	Method of installation	Number of bags used

WELL ABANDONMENT

ear or affirm, under the penalties for perjury that ation submitted herewith is to the best of my and belief, true, accurate and complete.

Signature of owner or authorized representative: Allen Matlock

Date: 10/21/88

01-01 173736 RATIVE USE ONLY
oes not fill out)

County	Township			Section
Johnson	16N	3E	SW SE	32

Topo map: Indianapolis West	Ft. W of EL	Ground elevation	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG	FROM	TO
Formations: type of material	Feet	Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W E

RECORD OF WATER WELL

State Form 35680 (R3 / 11-87)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

150

... completely)

WELL LOCATION

...y where drilled	Civil township	Township	Range	Section
Marion		~~Wayne~~ 16N	3E	32

...ng directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there ...ace for a map on reverse side.

1113 Olin ave INDpls. (NE, SE, SW)

OWNER - CONTRACTOR

...of well owner	Telephone Number ( )
...ss (Street and number, city, state)	ZIP code
...of building contractor: Marathon oil company (Bill Day)	Telephone number ( ) 249-0677 EXT 262
...ss (Street and number, city, state): 304 Olin ave INDpls. IN	ZIP code 46241
...of drilling contractor: Hamilton Bros. Inc.	Telephone number ( ) 241-2571
...ss (Street and number, city, state): 1025 Rockville Rd. INDpls IN	ZIP code 46222

...ipment operator	License number	Date of completion
B. Schellenberg	#36	12-18-91

CONSTRUCTION DETAILS

...well:
...ome ☐ Industry ☐ Test ☐ Irrigation
...ublic supply ☐ Stock ☐ Other (specify):
...d of drilling: ☒ Rotary ☐ Rev. rotary
...able tool ☐ Jet ☐ Bucket rig ☐ Other

...length	Material	Diameter
6 feet	P.V.C.	4 inches
...length 4 feet	P.V.C.	4 inches

...slot size: .060
Total depth of well: 90
...of pump setting: 60
Water quality (Clear, cloudy, odor, etc.): Clear
...f pump ☐ Shallow-well jet
...ubmersible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

...ce ☐ Air
...ing ☐ Pumping
Test rate: 10 gpm 1 hrs.
...own 40 feet
Static level (depth to water): 20 feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
Topsoil & clay	0	5
Gravel	5	35
clay	35	80
Gravel	80	90

...INFORMATION

...aterial: 1 1/4 ...
...of installation: ...
...ry sweat ...

WELL ABANDONMENT

Depth of grout	Sealing material	Depth filled
From 80 To 4		From To
Number of bags used: 7	Method of installation	Number of bags used

(Additional space for well log on reverse side)

...affirm, under the penalties for perjury that ...ubmitted herewith is to the best of my ...

Signature of owner of authorized representative

Date

FOR ADMINIS...VE USE ONL 01-01 173800
(well driller does not fill out)

County	Township	Range	1/4	1/4	Section
MARION	16N	3E			32

Topo map	Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

RECORD OF WATER WELL
State Form 35680 (R3 / 11-87)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

151

...pletely)

WELL LOCATION

...where drilled	Civil township	Township	Range	Section
Vernon				

...g directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there ...ce for a map on reverse side.

1115 Olin Street

OWNER - CONTRACTOR

...of well owner: ...ussell Dill
...(Street and number, city, state): 36 Buick Dr. Indpls, In.
Telephone Number: ( ) 244-9796
ZIP code: 46214

...building contractor
...(Street and number, city, state)
Telephone number: ( )
ZIP code:

...drilling contractor: ...Hamilton Bros, Inc.
...(Street and number, city, state): 25 Rockville Rd Indpls, In.
Telephone number: ( ) 241-2571
ZIP code: 46222

...equipment operator: ...ert D. Schellenberg
License number: #36
Date of completion: 4/2/90

CONSTRUCTION DETAILS

...ell:
...e ☐ Industry ☐ Test ☐ Irrigation
...ic supply ☐ Stock ☐ Other (specify):
...of drilling: ☒ Rotary ☐ Rev. rotary
...e tool ☐ Jet ☐ Bucket rig ☐ Other

...ngth	Material	Diameter
3 feet	P.V.C.	4" inches
...ngth feet	P.V.C.	4" inches

...t size: .060
Total depth of well: 87'
...ump setting: 50'
Water quality (Clear, cloudy, odor, etc.): Clear
...ump ☐ Shallow-well jet
...ersible ☐ Deep-well jet ☐ Other (specify):

WELL CAPACITY TEST

...e ☐ Air
...g ☐ Pumping
Test rate: 10 gpm 1 hrs.
...20 feet
Static level (depth to water): 30 feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
Topsoil + Clay	0	5
Gravel	5	37
Clay	37	81
Gravel	81	87

(Additional space for well log on reverse side)

...UT... INFORMATION

	Depth of grout	Sealing material	Depth filled
...plug	From 0 To 81		From To
Installation ...nce	Number of bags used 7	Method of installation	Number of bags used

WELL ABANDONMENT

...wear or affirm, under the penalties for perjury that ...nation submitted herewith is to the best of my ...e and belief, true, accurate and complete.

Signature of owner of authorized representative

Date

FOR ADMINISTRATIV 01-01 173741
(well driller does n

County	Township	Range		Section
Marion	16N	3	¼ SE ¼ SW	32

Topo map [illegible] West	Ft. W of EL	Ground elevation	Subdivision name
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w/o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W E

152

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

MAR 1965 RECEIVED Dept. of Conservation Division of Water Resources

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: Marion Civil Township: _____

essional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

ibe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: _____

of owner: [illegible] Address: 1117 N. Olive

of Well Drilling Contractor: _____

ɔt Drilling Equipment Operator: [illegible]

INFORMATION ON THE WELL

leted depth of well: 40 ft. Date well was completed: [illegible]

eter of outside casing or drive pipe: _____ Length: _____

eter of inside casing or liner: _____ Length: _____

eter of Screen: [illegible] PVC — MATERIAL Length: _____ Slot size: _____

of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

of Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

od of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

ic water level in completed well (Distance from ground to water level) _____ ft.

er Test: Hours tested _____ Rate [illegible] g.p.m. Drawdown [illegible] ft. (Difference between static level and water level at end of test)

ing Test: Hours tested _____ Rate 10 g.p.m. Drawdown [illegible] ft.

Signature _____

Date _____

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

RMATIONS (Color, type of material, hardness, etc.)	From	To
Gravel	0	40

RKS:

~~Graphic log~~

FOR ADMINISTI
(Well driller d 01-01 17 6

COUNTY: Marion TWP. 16N RGE. 3E NW¼ SW¼ SE¼ SEC. 32

Topo Map: Indianapolis I, West 72

Well log classified By ___ Date 5-65
Courthouse located By ___ Date ___
Field located By ___ Date ___
Acc. w/o verification By ___ Date 5-65

___ Ft W of EL. Ground elevation ___
___ Ft N of SL. Depth to bedrock ___
___ Ft E of WL. Bedrock elevation ___
___ Ft S of NL. Aquifer elevation ___

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as y be of great assistance in the planning and development of new water supplies.
An accurate location of the well is equally as important as an accurate well log.
e include all information possible in the space provided for well location.
As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ment of Conservation.

COUNTY MARION TWP. 16N RGE. 3E ¼ NE ¼ SW SEC 32 Subdivision Name

Topo Map INDIANAPOLIS WEST

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by [illegible] 5/11/81

_____ Ft W of EL. Ground Elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____ Lot Number _____

WATER WELL RECORD

PERMIT NO.

CIVIL TOWNSHIP

MARION

DIRECTIONS

1304 OLIN AVE.

NER

ARATHON OIL

BUILDING CONTRACTOR

MARATHON OIL CO.

DRILLING EQUIPMENT OPERATOR

DESTER HARNESS

WELL INFORMATION

CASING DIAMETER	MATERIAL LENGTH	LINER DIAM.	LINER LENGTH	SCREEN DIAM.	SCREEN LENGTH	SLOT	TYPE OF WELL	USE OF WELL	METHOD OF DRILLING	DATE WELL COMPLETED
4" PVC	107			4	3	60	GRAVEL PACK	INDUSTRY	ROTARY	2/11/81

STATIC WATER LEVEL	BAILER TEST HOURS TEST	BAILER TEST RATE G.P.M.	BAILER TEST DRAWDOWN	PUMP TEST HOURS TEST	PUMP TEST RATE G.P.M.	PUMP TEST DRAWDOWN
20				1	10	20 ~~40 P/L~~

S (COLOR, TYPE OF MATERIAL, HARDNESS, ETC.)	FROM	TO
OIL & CLAY	0	10
	10	40
	40	90
	90	96
	96	110

HAMILTON BROS. INC.
P.O. BOX 24181
4025 ROCKVILLE ROAD
INDIANAPOLIS, IND. 46224

STATE COPY

4 12065

(154)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

JUN 1960
RECEIVED
Dept. of Conservation
Division of
Water Resources

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: Marion Civil Township: _____

essional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

be in your own words the well location with respect to nearby towns, roads, streets

tinctive landmarks: 1801 North Exeter North of 16th St.
Indianapolis Ind.

f owner: M. C. Calment Address: _____

f Well Drilling Contractor: Willard English & Son

s: Clayton Indiana [illegible]

lling Equipment Operator: [illegible]

INFORMATION ON THE WELL

ed depth of well: 108 ft. Date well was completed: 8/24/59

r of outside casing or drive pipe: ~~[illegible]~~ 4.5 Length: _____

r of inside casing or liner: 4" Length: _____

r of Screen: 4" Length: 2.5 ~~[illegible]~~ ft. Slot size: [illegible]

Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☑ Rev. Rotary ☐ Jet ☐ Driven ☐

ater level in completed well (Distance from ground to water level) 40 ft.

est: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Test: Hours tested ~~_____~~ Rate ~~_____~~ g.p.m. Drawdown ~~_____~~ ft.

Signature Leon English

Date Aug. 24 1959

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

ORMATIONS (Color, type of material, hardness, etc.)	From	To
Topsoil	0	1
Clay - [illegible] - gray	1	101
Sands	101	108

ARKS:

FOR ADM
(Well Dr: 01-01 637[illegible] LY
1 out)

COUNTY: MARION TWP. 16N RGE. SE SW ¼ SE ¼ NE ¼ SEC. 32

Topo. Map: Indianapolis W Loc. accepted w/o verification Yes ✓ No ___

El. of grnd. surface at well: 730 Courthouse Loc. By ___ Date ___

Depth to bedrock: ___ Field Located By ___ Date ___

Well Log processed by: [illegible] Placed in Master Well Log File Date 4-3-62

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a r well. We request that you be as accurate as possible in recording this information as ay be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. se include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted in thirty days after the completion of a well to the Division of Water Resources, Indiana rtment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

(155)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA

DEC 1980

WATER WELL RECORD

INFORMATION ON WELL LOCATION

ty in which well was drilled: MARION Civil Township: WAYNE

ressional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

ribe in your own words the well location with respect to nearby towns, roads, streets

stinctive landmarks: 1826 N EXTER AVE

of owner: McADAMS Address: 1826 N EXTER AVE

of Well Drilling Contractor: HARLAN MILLER Well & Pump Company

Drilling Equipment Operator: R. WAGONER

INFORMATION ON THE WELL

ted depth of well: 125 ft. Date well was completed: 11/26/60

er of outside casing or drive pipe: 4" Length: 122

er of inside casing or liner: _____ Length: _____

er of Screen: 3" Length: 5' Slot size: 6

f Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

water level in completed well (Distance from ground to water level) 30 ft.

Test: Hours tested 1 Rate 10 g.p.m. Drawdown 2 ft. (Difference between static level and water level at end of test)

Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

HARLAN MILLER
Well & Pump Company
Signature _____

Date 12/15/60

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

MATIONS (Color, type of material, hardness, etc.)	From	To
DRY GRAVEL	0	65
CLAY	65	120
GRAVEL	120	125

KS:

FOR ADMINIS 01-01 780
(Well Driller [illegible])

COUNTY: MARION TWP. 16N RGE. 3E NW ¼ SE ¼ NE ¼ SEC. 32

Topo. Map: Indianapolis (W) Loc. accepted w/o verification Yes ✓ No ___

El. of grnd. surface at well: 730 Courthouse Loc. By ___ Date ___

Depth to bedrock: ___ Field Located By ___ Date ___

Well Log processed by: OTB Placed in Master Well Log File Date 4-3-67

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location. s specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thirty days after the completion of a well to the Division of Water Resources, Indiana ment of Conservation, 311 West Washington Street, Indianapolis, Indiana.

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

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Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

WELL LOCATION

where drilled	Civil township	Township	Range	Section
MARION		16N	3E	32

irections to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a reverse side.

3451 W 16th

OWNER - CONTRACTOR

well owner: B+B TAVERN — Telephone number:
number and street, city, state, ZIP code)

building contractor: — Telephone number:
number and street, city, state, ZIP code)

drilling contractor: HAMILTON Bros. — Telephone number:
number and street, city, state, ZIP code)

equipment operator: — License number: — Date of completion: 1955

CONSTRUCTION DETAILS

supply: ☐ Industry ☐ Stock ☐ Test ☐ Other (*specify*): ☐ Irrigation

drilling tool: ☐ Jet ☐ Rev. rotary ☐ Bucket rig ☐ Other

ngth feet	Material	Diameter 8 inches
ngth 2 feet	Material	Diameter inches

t size: #40 — Total depth of well: 85

ump setting: — Water quality (*clear, cloudy, odor, etc.*)

mp ersible: ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (*specify*):

WELL CAPACITY TEST

g: ☐ Air ☐ Pumping — Test rate: 100 gpm ____ hrs.

feet — Static level (*depth of water*) feet

OUTING INFORMATION

	Depth of grout From to	WELL ABANDONMENT Sealing material	Depth filled From To
nstallation	Number of bags used	Method of installation	Number of bags used

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
SANDY clay	0	15
DRY GRAVEL	15	20
SANDY clay	20	77
SAND + GRAVEL	77	85

(*Additional space for well log on reverse side*)

ear or affirm, under the penalties that the information submitted to the best of my knowledge and accurate and complete.

Signature of owner or authorized representative — Date

FOR ADMINISTRATIVE USE ONLY
(well driller does not fill out)

County	Township	Range	1/4 1/4	Section
MARION	16N	3E		32

Topo map: INDIANAPOLIS WEST	Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W

E

32

157

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

WATER WELL RECORD

INFORMATION ON WELL LOCATION

y in which well was drilled: [illegible] Civil Township: _____

essional township: _____ Range: _____ Number of section: _____
(Fill in as completely as possible)

be in your own words the well location with respect to nearby towns, roads, streets

tinctive landmarks: [illegible]

241-2392

owner: [illegible] Address: 4400 [illegible] St.

Well Drilling Contractor: [illegible]

[illegible]

Drilling Equipment Operator: [illegible]

INFORMATION ON THE WELL

ed depth of well: [illegible] ft. Date well was completed: [illegible]

r of outside casing or drive pipe: _____ Length: _____

of inside casing or liner: [illegible] Length: _____

of Screen: 8" Length: [illegible] Slot size: 60

Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

ell: For home ☐ For industry ☐ For public supply ☐ Stock ☐

f Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

ater level in completed well (Distance from ground to water level) 55 ft.

est: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Test: Hours tested 8 Rate 350 g.p.m. Drawdown _____ ft.

~~Also tested at +1000 gpm. Seemingly little drawdown~~

Signature _____

Date _____

FOR WELL LOG SPACE USE [illegible]

WATER WELL LOG

ATIONS (Color, type of material, hardness, etc.)	From	To
Gravel	0	28
Clay	28	63
Small Gravel	63	81
Clay	81	107
Sand	107	117
Gravel	117	131

ARKS: graphic log

FOR ADMI 01-01 63 7 Y
(Well drille ... ut)

COUNTY: Marion TWP. 16N RGE. 3E NW ¼ NW ¼ SW ¼ SEC. 32

Topo Map: Indpls. Ident.

Well log classified By [illegible] Date 2/22/6[illegible]
Courthouse located By ____ Date ____
Field located By ____ Date ____
Acc. w/o verification By [illegible] Date 2/22/65

Ft W of EL. Ground elevation ____
Ft N of SL. Depth to bedrock ____
Ft E of WL. Bedrock elevation ____
Ft S of NL. Aquifer elevation ____

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a er well. We request that you be as accurate as possible in recording this information as may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. ase include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted in thirty days after the completion of a well to the Division of Water Resources, Indiana artment of Conservation.

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

S 300

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WATER WELL RECORD

ELL LOCATION

(Fill in completely - Refer to instruction sheet)

unity in which well was drilled Marion Civil Township

ving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

Test # 7

200 West of Olin Ave. 200 N.E. side of Pa-Erie RR Tracks

ME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Speedway Water Address Speedway City

Building Contractor City of Speedway Address Speedway City

e of Well Drilling Contractor: Layne Northern Co

ress

Drilling Equipment Operator: Ness, James E.

LL INFORMATION

h of well: 130 Date well was completed: 4-2-1941

eter of casing or drive pipe: Total Length:

eter of liner (if used): Total Length:

eter of Screen: Length: Slot Size:

of Well: Drilled [X] Gravel Pack [ ] Driven [ ] Other

f Well: For Home [ ] For Industry [ ] For Public Supply [X] Stock [ ]

od of Drilling: Cable Tools [X] Rotary [ ] Rev. Rotary [ ] Jet [ ] Bucket Rig [ ]

water level in completed well (Distance from ground to water level) 23 feet

Test: Hours Tested Rate g.p.m. Drawdown ft.

ing Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Old log card. no citations

Date or dates

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET 2-9-73

FOR ADMIN 0[illegible] 1 173751
(Well dr[illegible] not fill out)

B

~~Specific~~

COUNTY Marion TWP. 16 N RGE. 3 E ____ ¼ ____ ¼ ____ SEC. 32 Subdivision Name

Topo Map Indpls West

Field Located By ____ Date ____

Courthouse Location By ____ Date ____

Location accepted w/o verification by ____

____ Ft W of EL. Ground Elevation 720 E Test 7

____ Ft N of SL. Depth to bedrock 129 Lazone

____ Ft E of WL. Bedrock elevation 591 4-2-41

____ Ft S of NL. Aquifer elevation ____ Lot Number ____

2-9-73

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Soil & Clay	0	5
Medium Sand & Gravel	5	18
Medium Sand & Gravel	18	36
Gritty Clay	36	69
Muddy Sand	69	75
Muddy Gravel - (Water)	75	79
Gritty Clay	79	85
Medium Gravel - (Water)	85	86
Hard Gritty Clay	86	106
Soft Gritty Clay	106	118
Tough Clay	118	126
Soft Clay	126	129
Shale	129	130

Letter on Marion Co. Bedrock Map 62

DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA
STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

159

WATER WELL RECORD

.L LOCATION

(Fill in completely - Refer to instruction sheet)

ty in which well was drilled MARION Civil Township WAYNE

ng directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

PERMANENT #5 AT site of #27 TEST WELL
750' S. of c/L of 16th STREET

E OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner SPEEDWAY WATER Address

Building Contractor Address

of Well Drilling Contractor: LAYNE NORTHERN

ss

lling Equipment Operator: John MILLER

INFORMATION

of well: 119.5 Date well was completed: 10-28-1944

er of casing or drive pipe: 50 Total Length: 50

er of liner (if used): Total Length:

er of Screen: 18 Length: 25 Slot Size: #6

Well: Drilled ☐ Gravel Pack ☒ Driven ☐ Other

Well: For Home ☐ For Industry ☐ For Public Supply ☒ Stock ☐

of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

ter level in completed well (Distance from ground to water level) 14 feet

est: Hours Tested Rate g.p.m. Drawdown ft.

Test: Hours Tested Rate 600 g.p.m. Drawdown 31 ft.

(Drawdown is the difference between static level and water level at end of test)

Signature

Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

Spreading Copy

FOR ADM 01-0 173756 Y
(Well ...)

COUNTY MARION TWP. 16N RGE. 3E SW ¼ NE ¼ SW SEC 32 Subdivision Name

Topo Map INDIANAPOLIS WEST

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

_____ Ft W of EL.

_____ Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation _____

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation _____

Lot Number _____

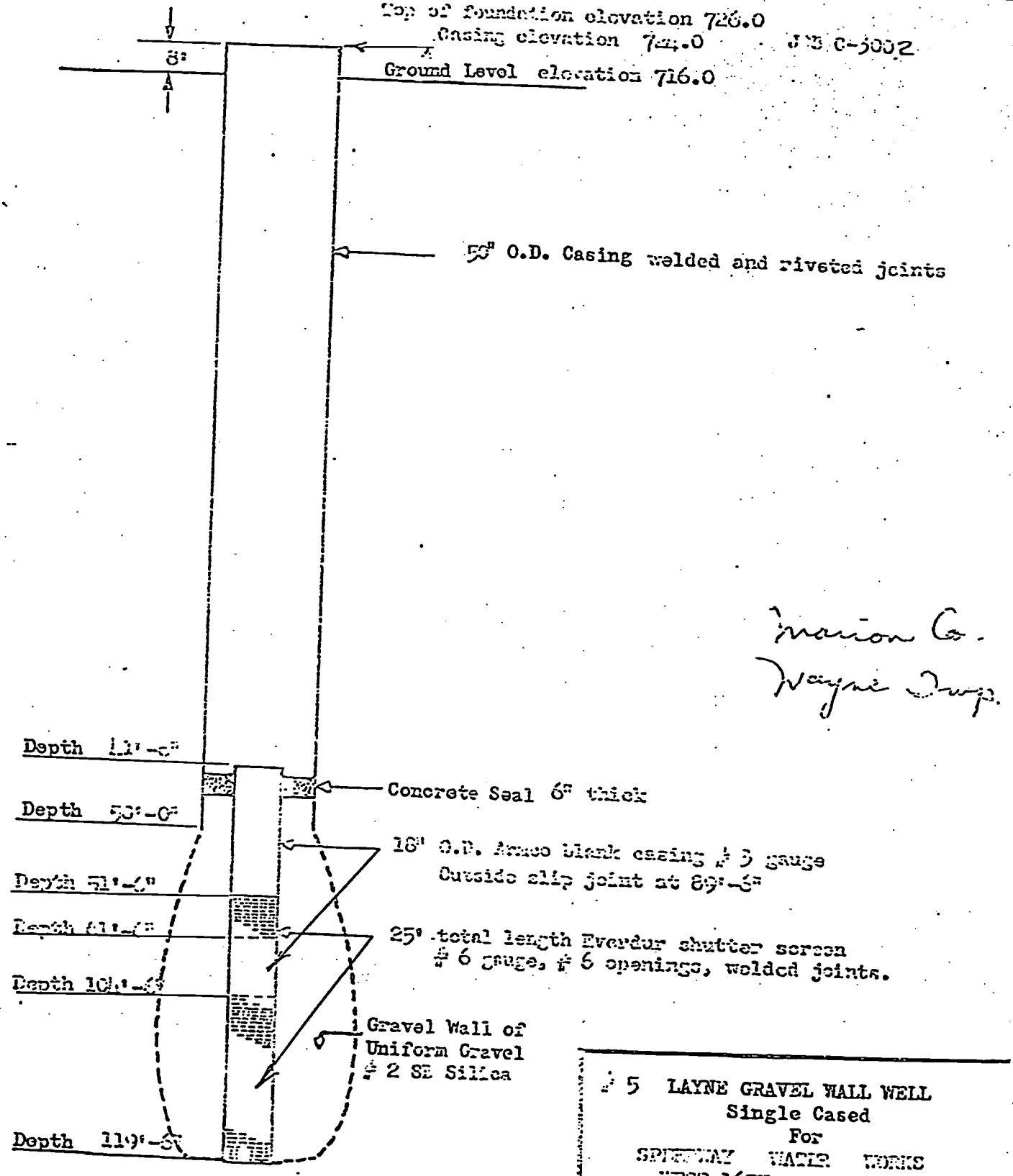
APPROX. LOCATION

C. (WELL Diagram AVIALABLE)

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To

T16N, R3E, Sec 32 SE/NE, SW?



Marion Co.
Wayne Twp.

5 LAYNE GRAVEL WALL WELL
Single Cased
For
SPEEDWAY WATER WORKS
WEST 16TH STREET
INDIANAPOLIS INDIANA

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

DRAWN BY | DRAWING No.

Driller John Miller
Date Finished 10/20/44

Not drawn to Scale
All depths measured
from ground level

Static Level 14'
Pumped 600 GPM

160

RECORD OF WATER WELL

State Form 35680 (R4 / 4-92)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W. Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

...mpletely

WELL LOCATION

...where drilled	Civil township	Township	Range	Section
Marion	Wayne			

...g directions to the well location (*include county road names, number, subdivision lot number with consideration to intersecting road and trip origination*). There is space for a ...n reverse side.

:50 feet South of #6 well, 5 feet West of water line

OWNER-CONTRACTOR

...of well owner: ...llison Engineering Company — Telephone number:

...s (*number and street, city, state, ZIP code*):

...of building contractor: — Telephone number:

...s (*number and street, city, state, ZIP code*):

...of drilling contractor: ...ayne Northern — Telephone number:

...s (*number and street, city, state, ZIP code*):

...of e...ment operator: ...n Wagner and Charles Poole — License number: — Date of completion: October 24, 1940

CONSTRUCTION DETAILS

...well:
...me ☐ Industry ☐ Test ☐ Irrigation
...blic supply ☐ Stock ☐ Other (*specify*):

...d of drilling
...otary ☐ Jet ☐ Bucket rig
...able tool ☐ Rev. rotary ☐ Other

...g length	Material	Diameter
feet		inches
...n length	Material	Diameter
feet		inches

...slot size: — Total depth of well:

...of pump setting: — Water quality (*clear, cloudy, odor, etc.*):

...of pump ☐ Shallow-well jet ☐ Other (*specify*):
...bmersible ☐ Deep-well jet

WELL CAPACITY TEST

...me ☐ Air
...ling ☐ Pumping

Test rate: _____ gpm _____ hrs.

...wn: feet

Static level (*depth of water*): 22 feet

...TING INFORMATION

...d of installation	Depth of grout From to	Number of bags used

WELL ABANDONMENT

Sealing material	Depth filled From To	Method of installation	Number of bags used

WELL LOG

FORMATIONS: Type of material	From (*feet*)	To (*feet*)
Top Soil	0	1
Clay	1	4
S + G	4	34
Gritty Clay	34	37
S + G - some clay	37	42
Gritty Clay	42	52
S + G	52	60
Hard Gritty Clay	60	100
Medium + Fine Sand Mixed	100	107
Fine Sand and Gravel	107	117

(*Additional space for well log on reverse side*)

...y swear or affirm, under the penalties ...ury that the information submitted ...s to the best of my knowledge and ...

Signature of owner or authorized representative: — Date:

FOR ADMINISTRATIVE USE ONLY (Well driller does not fill out) 01-01 179990

County	Township	Range		Section
Marion	~~Wayne~~ 15N	3E	NW 1/4 NW 1/4 NE	6

Topo map	2650 Ft. W of EL	Ground elevation	Name of subdivision
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	300 Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG FORMATIONS (type of material)	FROM Feet	TO Feet

SKETCH SHOWING LOCATION (Locate with reference to highways intersecting county roads and distinctive landmarks)

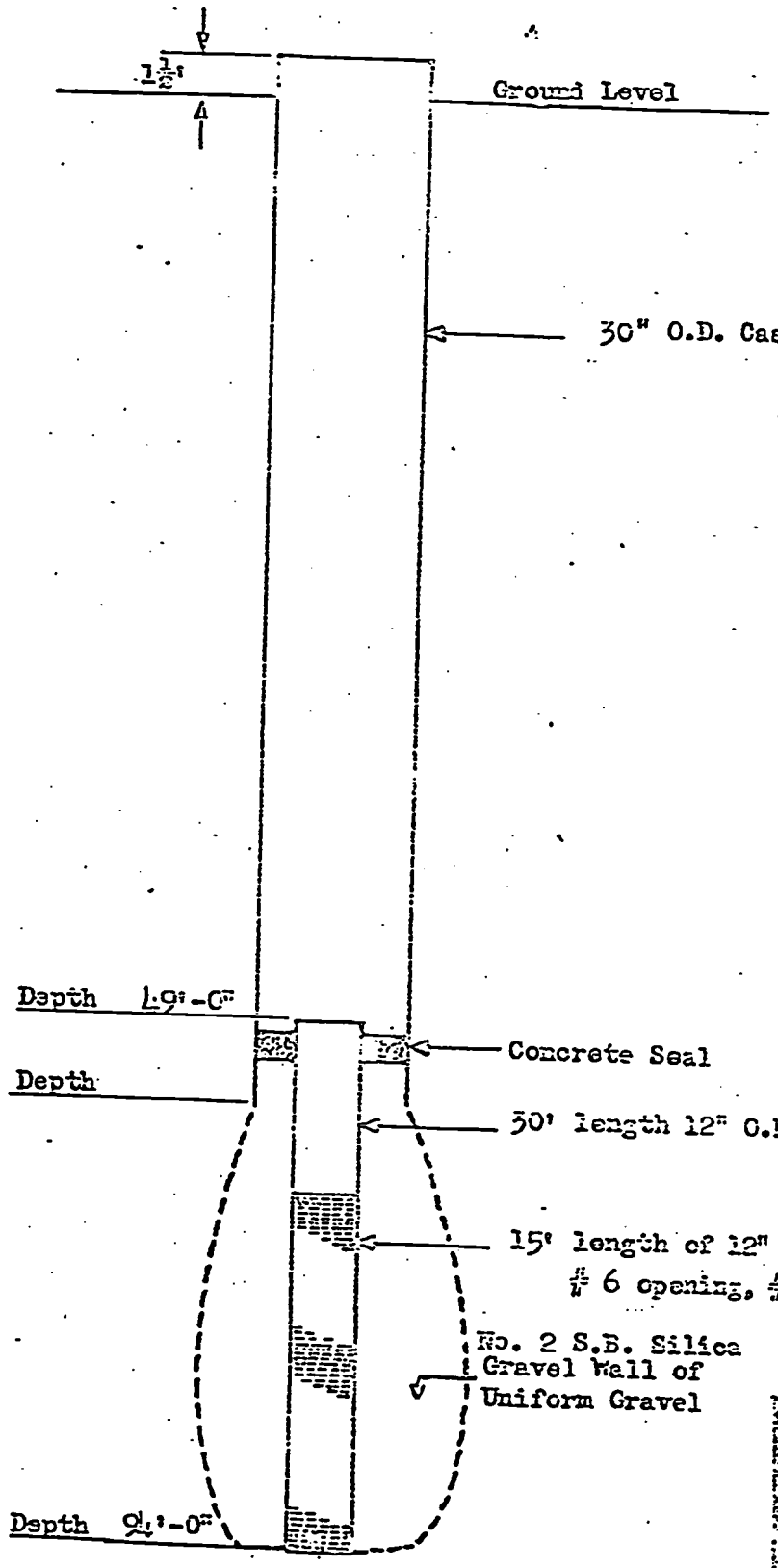
N

C. (~~#2~~ Well Log No. 24)

W

E

T15N, R3E, Sec 4 NW, SW, NE



JOB C-3153
RECONSTRUCTED WELL
ORIGINALLY INSTALLED ON
JOB C-1189

Marion Co.
Center Twp.

WELL RECONSTRUCTED.

LAYNE GRAVEL WALL WELL
Single Cased
For
NATIONAL MALLEABLE & STEEL CASTINGS
COMPANY
546 NORTH HOLMES AVE.
INDIANAPOLIS INDIANA

LAYNE NORTHERN CO. INC.
MISHAWAKA, INDIANA

Driller John Miller
Date Finished 11/24/44

Not drawn to Scale
All depths measured

Static Level 22

POTABLE WATER
CHEMICAL SAMPLE

Date Rec'd 98 JUN 25 PM 3:22

Lab Sample No.: 1533

Date Completed 98 JUL -1 AM 9:55

SAMPLE #: JR062598-2
ESTABLISHMENT: RESIDENCE
ADDRESS: 709 N. OWN AVE.
OWNER: GERODINE GILL 632-3712
OWNER ADDRESS: Above
WHERE SAMPLE TAKEN: KITCHEN
DEPTH OF WELL: _____ DIAMETER: _____
TYPE OF WELL: DRILLED: _____
DRIVEN: _____
DUG: _____
HOW LONG WATER RUN: 5 MIN
ODOR: _____ KIND OF ODOR: _____

MARION COUNTY HEALTH DEPARTMENT
making a difference

DATE: 6/25/98
E.H.S.: REED TIME: 2:40
CHEMISTS: [illegible] [illegible] BO
RESAMPLE: _____
POSSIBLE ENVIRONMENTAL HAZARDS:
On Site: _____
Off Site: ALLISON ENGINE

pH N/T
CONDUCTIVITY N/T

GC - M. S. ANALYSIS OF VOLATILES. EPA 524.2

	Scan	Identity	Purity	Fit	Conc. in ug/L
ANIONS Conc. in mg/L: EPA 300.0		Nothing detected			
NITRATE AS N (.08) 4.1					
NITRITE AS N (.04) <DL					
CHLORIDE (0.5) 41.3					
SULFATE (0.8) 51.0					
FLOURIDE (.02) 0.13					
METALS Conc. in ug/L: EPA 200.8					
ARSENIC (1) <DL					
BARIUM (2) 103.9					
CADMIUM (3) <DL					
CHROMIUM (3) 13.2					
MERCURY (0.3) <DL					
LEAD (3) <DL					

RECEIVED
MAR 01 2002
KERAMIDA

CARBAMATES (circle if required): EPA 531.1

(Detection Limits)

GROUNDWATER

POTABLE WATER
CHEMICAL SAMPLE

Date Rec'd

98 MAR -3 PM 1:03

Lab Sample No.: 520

Date Completed

SAMPLE #: JR030998-2
ESTABLISHMENT: RESIDENCE
ADDRESS: 709 N. OLIN AVE.
OWNER: GERODINE GILL
OWNER ADDRESS: Above
WHERE SAMPLE TAKEN: KITCHEN
DEPTH OF WELL: _____ DIAMETER: _____
TYPE OF WELL: DRILLED: _____
DRIVEN: _____
DUG: _____
HOW LONG WATER RUN: 5 MIN
ODOR: _____ KIND OF ODOR: _____

MARION COUNTY HEALTH DEPARTMENT

DATE: 3/9/98
E.H.S.: REED TIME: 11:30
CHEMISTS: TS BO
RESAMPLE: _____
POSSIBLE ENVIRONMENTAL HAZARDS:
On Site: _____
Off Site: ALLISON

pH 7.45
CONDUCTIVITY 940

X GC - M. S. ANALYSIS OF VOLATILES.

Scan	Identity	Purity	Fit	Conc. in ug/L
1016	octamethylcyclotetrasiloxane	642	642	~4.0

ANIONS Conc. in mg/L:	
NITRATE AS N (.08)	7.78
NITRITE AS N (.04)	<DL
CHLORIDE (0.5)	54.7
SULFATE (0.8)	75.0
FLOURIDE (.02)	0.13

X

METALS Conc. in ug/L:	
ARSENIC (1)	<DL
BARIUM (2)	120.0
CADMIUM (3)	<DL
CHROMIUM (3)	<DL
MERCURY (0.3)	<DL
LEAD (3)	<DL

(Detection Limits)

CARBAMATES (circle if required):

GROUNDWATER

c'd

99 FEB 25 PM 3:32

POTABLE WATER CHEMICAL SAMPLE

Lab Sample No.: 325

Date Completed

SAMPLE #: KR022599-2

ESTABLISHMENT: Residence

ADDRESS: 709 N. Olin Ave.

OWNER: Mrs. Gerodine Gill

OWNER ADDRESS: Above

WHERE SAMPLE TAKEN: Kitchen sink

DEPTH OF WELL: _____ DIAMETER: _____

TYPE OF WELL: DRILLED: _____ DRIVEN: _____ DUG: _____

HOW LONG WATER RUN: _____

ODOR: 5 KIND OF ODOR: min

MARION COUNTY HEALTH DEPARTMENT
making a difference

DATE: 2/25/99

E.H.S.: Rockhill TIME: 10:43

CHEMISTS: BJ RO

RESAMPLE: _____

POSSIBLE ENVIRONMENTAL HAZARDS:

On Site: _____

Off Site: _____

pH

CONDUCTIVITY

X GC - M. S. ANALYSIS OF VOLATILES. EPA 524.2

Scan	Identity	Purity	Fit	Conc. in ug/L
	Nothing Detected			

ANIONS Conc. in mg/L:EPA 300.0

NITRATE AS N (.08) 3.28 (0.06)

NITRITE AS N ~~(.04)~~ <DL (1.0)

CHLORIDE ~~(0.5)~~ 43.91 (1.0)

SULFATE ~~(0.8)~~ 57.93 (0.03)

FLOURIDE ~~(.02)~~ 0.11

X METALS Conc. in ug/L:EPA 200.8

ARSENIC (1) <DL

BARIUM (2) 96.8

CADMIUM (3) <DL

CHROMIUM (3) <DL

MERCURY (0.3) <DL

LEAD (3) <DL

(Detection Limits)

CARBAMATES (circle if required): EPA 531.1

Rec'd

99 JUN 15 PM 2:31

POTABLE WATER
CHEMICAL SAMPLE

Lab Sample No.: 1379

Date Completed

99 JUN 21 PM 3:56

SAMPLE #: KR061499-2
ESTABLISHMENT: Residence
ADDRESS: 709 N. Olin Ave
OWNER: Geroline Gill
OWNER ADDRESS: Above
WHERE SAMPLE TAKEN: Kitchen Sink
DEPTH OF WELL: DIAMETER:
TYPE OF WELL: DRILLED:
DRIVEN:
DUG: X
HOW LONG WATER RUN: 5 min
ODOR: NO KIND OF ODOR:

DATE: 6/15/99
E.H.S.: Rockhill TIME: 1:35
CHEMISTS: Yiss
RESAMPLE:
POSSIBLE ENVIRONMENTAL HAZARDS:
On Site:
Off Site:

pH
CONDUCTIVITY

GC - M. S. ANALYSIS OF VOLATILES. EPA 524.2

	Scan	Identity	Purity	Fit	Conc. in ug/L
ANIONS Conc. in mg/L:EPA 300.0		Nothing Detected			
NITRATE AS N (.08) 5.5					
NITRITE AS N (.06) <DL					
CHLORIDE (1.0) 42.6					
SULFATE (1.0) 63.8					
FLOURIDE (.03) 0.14					
METALS Conc. in ug/L:EPA 200.8					
ARSENIC (2) <DL					
BARIUM (1) 104.4					
CADMIUM (1) <DL					
CHROMIUM (2) <DL					
MERCURY (0.4) <DL					
LEAD (2) <DL					

CARBAMATES (circle if required): EPA 531.1

(Detection Limits)

Date Rec'd SEP 29 AM 11:30

POTABLE WATER
CHEMICAL SAMPLE

Date Completed

Lab Sample No.: 2548

SAMPLE #: AH092999-2
ESTABLISHMENT: residence
ADDRESS: 709 N. Olin Av
OWNER: Geradine Gill
OWNER ADDRESS: above
WHERE SAMPLE TAKEN: kitchen
DEPTH OF WELL: _____ DIAMETER: _____
TYPE OF WELL: DRILLED: _____
DRIVEN: _____
DUG: _____
HOW LONG WATER RUN: 10
ODOR: _____ KIND OF ODOR: _____

MARION COUNTY HEALTH DEPARTMENT
making a difference

DATE: 9/29/99
E.H.S.: Heller TIME: 10:35
CHEMISTS: MSJ PC
RESAMPLE: 10-5-99
POSSIBLE ENVIRONMENTAL HAZARDS:
On Site: _____
Off Site: _____

GROUND WATER

pH
CONDUCTIVITY

GC - M. S. ANALYSIS OF VOLATILES. EPA 524.2

Scan	Identity	Purity	Fit	Conc. in ug/L
	NOTHING DETECTED			

ANIONS Conc. in mg/L:EPA 300.0

NITRATE AS N (.08)	3.6
NITRITE AS N (.06)	<DL
CHLORIDE (1.0)	32.4
SULFATE (1.0)	64.4
FLOURIDE (.03)	0.12

METALS Conc. in ug/L:EPA 200.8

ARSENIC (2)	<DL
BARIUM (1)	97.1
CADMIUM (1)	<DL
CHROMIUM (2)	<DL
MERCURY (0.4)	<DL
LEAD (2)	<DL

CARBAMATES (circle if required): EPA 531.1

(Detection Limits)

Date Rec'd

97 JUL 14 AM 2:14

POTABLE WATER
CHEMICAL SAMPLE

Lab Sample No.: 1227

Date Completed

97 JUL 23 AM 9:19

SAMPLE #: J6071497-1
ESTABLISHMENT: RESIDENCE
ADDRESS: 709 OLIN AVE.
OWNER: GERODINE GILL
OWNER ADDRESS: 709 OLIN AVE.
WHERE SAMPLE TAKEN: KITCHEN
DEPTH OF WELL: _____ DIAMETER: _____
TYPE OF WELL: DRILLED: _____
DRIVEN: _____
DUG: _____
HOW LONG WATER RUN: 5 MIN.
ODOR: NO KIND OF ODOR: _____

MARION COUNTY HEALTH DEPARTMENT
making a difference

DATE: 7/14/97
E.H.S.: GOFF ([illegible]) TIME: 12:40
CHEMISTS: BJ WBZ
RESAMPLE: _____
POSSIBLE ENVIRONMENTAL HAZARDS:
On Site: _____
Off Site: HISTORICAL TCE, etc.

pH 6.81
CONDUCTIVITY 971

X GC - M. S. ANALYSIS OF VOLATILES.

ANIONS Conc. in mg/L:	Scan	Identity	Purity	Fit	Conc. in ug/L
NITRATE AS N (.08) 5.90		None Detected.			
NITRITE AS N (.04) <DL					
CHLORIDE (0.5) 68.1					
SULFATE (0.8) 84.7					
FLOURIDE (.02) 0.14					
METALS Conc. in ug/L:					
ARSENIC (1) <DL					
BARIUM (2) 95.9					
CADMIUM (3) <DL					
CHROMIUM (3) 3.25					
MERCURY (0.3) <DL					
AD (3) <DL					

CARBAMATES (circle if required):

(Detection Limits)

GROUNDWATER

WELL CHEMICAL SAMPLE

Date Rec'd

Lab Sample No.: 002

Date Completed

AMPLE #: G50102~~96~~97-1

DATE: 01-02-97

STABLISHMENT: Residential

SANITARIAN: Spence

DDRESS: 709 Olin Av.

CHEMISTS: [signature]

WNER: Geraldine Gill 632-3712

RESAMPLE:

WNER ADDRESS: 709 Olin Av.

POSSIBLE ENVIRONMENTAL HAZARDS:

HERE SAMPLE TAKEN: Kitchen Sink

On Site:

EPTH OF WELL: ? DIAMETER:

YPE OF WELL: DRILLED:
DRIVEN:
DUG:

Off Site: Allison's Plant #10

OW LONG WATER RUN: 05 min

KIND OF ODOR:

pH 7.37	GC - M. S. ANALYSIS OF VOLATILES:				
CONDUCTIVITY 916	Scan	Identity	Purity	Fit	Approx Quan. (ug/L)
Conc. in mg/L:		Nothing Detected			
NITRATE as N 3.22					
CHLORIDE 56.9					
FLUORIDE 0.12 ~~0.53~~					
Conc. in ug/L:					
ARSENIC (80) <DL					
BARIUM (0.3) 72.2	0.072				
CADMIUM (5) <DL					
CHROMIUM (2) 2.99	0.003				
MERCURY (20) 1.62	0.0016				
(10) <DL					
Detection Limits)					
Sulfate 74 mg/L					

GROUNDWATER

POTABLE WATER
CHEMICAL SAMPLE

Date Rec'd

97 JUL 14 PM 2:14

Lab Sample No.: 1227

Date Completed

97 JUL 23 AM 9:19

SAMPLE #: J6071497-1
ESTABLISHMENT: RESIDENCE
ADDRESS: 709 OLIN AVE.
OWNER: GERODINE GILL
OWNER ADDRESS: 709 OLIN AVE.
WHERE SAMPLE TAKEN: KITCHEN
DEPTH OF WELL: _____ DIAMETER: _____
TYPE OF WELL: DRILLED: _____
DRIVEN: _____
DUG: _____
HOW LONG WATER RUN: 5 MIN.
ODOR: NO KIND OF ODOR: _____

MARION COUNTY HEALTH DEPARTMENT

DATE: 7/14/97
E.H.S.: GOFF (GB) TIME: 12:40
CHEMISTS: BG WBB
RESAMPLE: _____
POSSIBLE ENVIRONMENTAL HAZARDS:
On Site: _____
Off Site: HISTORICAL TCE, etc.

pH 6.81
CONDUCTIVITY 971

X GC - M. S. ANALYSIS OF VOLATILES.

	Scan	Identity	Purity	Fit	Conc. in ug/L
ANIONS Conc. in mg/L:		None Detected.			
NITRATE AS N (.08) 5.90					
NITRITE AS N (.04) <DL					
CHLORIDE (0.5) 68.1					
SULFATE (0.8) 84.7					
FLOURIDE (.02) 0.14					
METALS Conc. in ug/L:					
ARSENIC (1) <DL					
BARIUM (2) 95.9					
CADMIUM (3) <DL	CARBAMATES (circle if required):				
CHROMIUM (3) 3.25					
MERCURY (0.3) <DL					
LEAD (3) <DL					

(Detection Limits)

GROUNDWATER

Sample ID #:11032 Lab ID: 1342 Fed ID:

Address: 709 N OLIN AV
INDIANAPOLIS IN
Census Tract:

Sample Type: PW
Sample Location: KS
Collected By: WQ
Comment:

Sample Date: 07/14/1997 Sample Time:
Reason: OT
Date Received: 07/14/1997 Date Reported: 07/15/1997

Results

Param	Result	SUI	Units	Limits	Method	Anal.	Anal. Date	Remark
TC1	A	S	P/A	18HR	MMO-MUG			

ample ID #:11033 Lab ID: 2245 Fed ID:

ess: 709 N OLIN AV
INDIANAPOLIS IN
Census Tract:

ample Type: PW
ample Location: KS
ollected By: WQ
omment:

Sample Date: 10/07/1997 Sample Time:
Reason: RO
Date Received: 10/07/1997 Date Reported: 10/08/1997

Results

aram	Result	SUI	Units	Limits	Method	Anal.	Anal. Date	Remark
C1	A	S	P/A	18HR	MMO-MUG			

ample ID #:11034 Lab ID: 661 Fed ID:

ss: 709 N OLIN AV
INDIANAPOLIS IN
Census Tract:

ample Type: PW
ample Location: KS
ollected By: WQ
omment:

Sample Date: 03/09/1998 Sample Time:
Reason: RO
Date Received: 03/09/1998 Date Reported: 03/10/1998

Results

aram	Result	SUI	Units	Limits	Method	Anal.	Anal. Date	Remark
21	A	S	P/A	18HR	MMO-MUG			

Sample ID #:11035 Lab ID: 448 Fed ID:

Address: 709 N OLIN AV
INDIANAPOLIS IN
Census Tract:

Sample Type: PW
Sample Location:
Collected By: WQ
Comment:

Sample Date: 02/25/1999 Sample Time:
Reason: OT
Date Received: 02/25/1999 Date Reported: 02/26/1999

Results

Param	Result	SUI	Units	Limits	Method	Anal.	Anal. Date	Remark
TC1	A	S	P/A	18HR	MMO-MUG			

ple ID #:11036 Lab ID: 1430 Fed ID:

ddress: 709 N OLIN AV
INDIANAPOLIS IN
Census Tract:

Sample Type: PW
Sample Location: KS
Collected By: WQ
Comment:

Sample Date: 06/15/1999 Sample Time:
Reason: OT
Date Received: 06/15/1999 Date Reported: 06/16/1999

Results

Param	Result	SUI	Units	Limits	Method	Anal.	Anal. Date	Remark
C1	P	U	P/A	18HR	MMO-MUG			
C1	A	U	P/A	18HR	MMO-MUG			

e ID #:AH092999-2 Lab ID: W2603 Fed ID:

ddress: 709 N OLIN AV
INDIANAPOLIS IN
Census Tract:

ample Type: PW
ample Location: KS
ollected By: WQ
omment:

Sample Date: 09/29/1999 Sample Time: 10:35
Reason: RO
Date Received: 09/29/1999 Date Reported: 09/30/1999

Results

aram	Result	SUI	Units	Limits	Method	Anal.	Anal. Date	Remark
C1	A	S	P/A	18HR	MMO-MUG	B/C	09/30/1999	
C1			P/A	18HR	MMO-MUG			
C2			MPN	18HR	MMO-MUG			
C2			MPN	18HR	MMO-MUG			
C3			P/A	24HR	MMO-MUG			
C3			P/A	24HR	MMO-MUG			
C4			MPN	24HR	MMO-MUG			
C4			MPN	24HR	MMO-MUG			

ar e ID #:CMC073101-4 Lab ID: W1164 Fed ID:

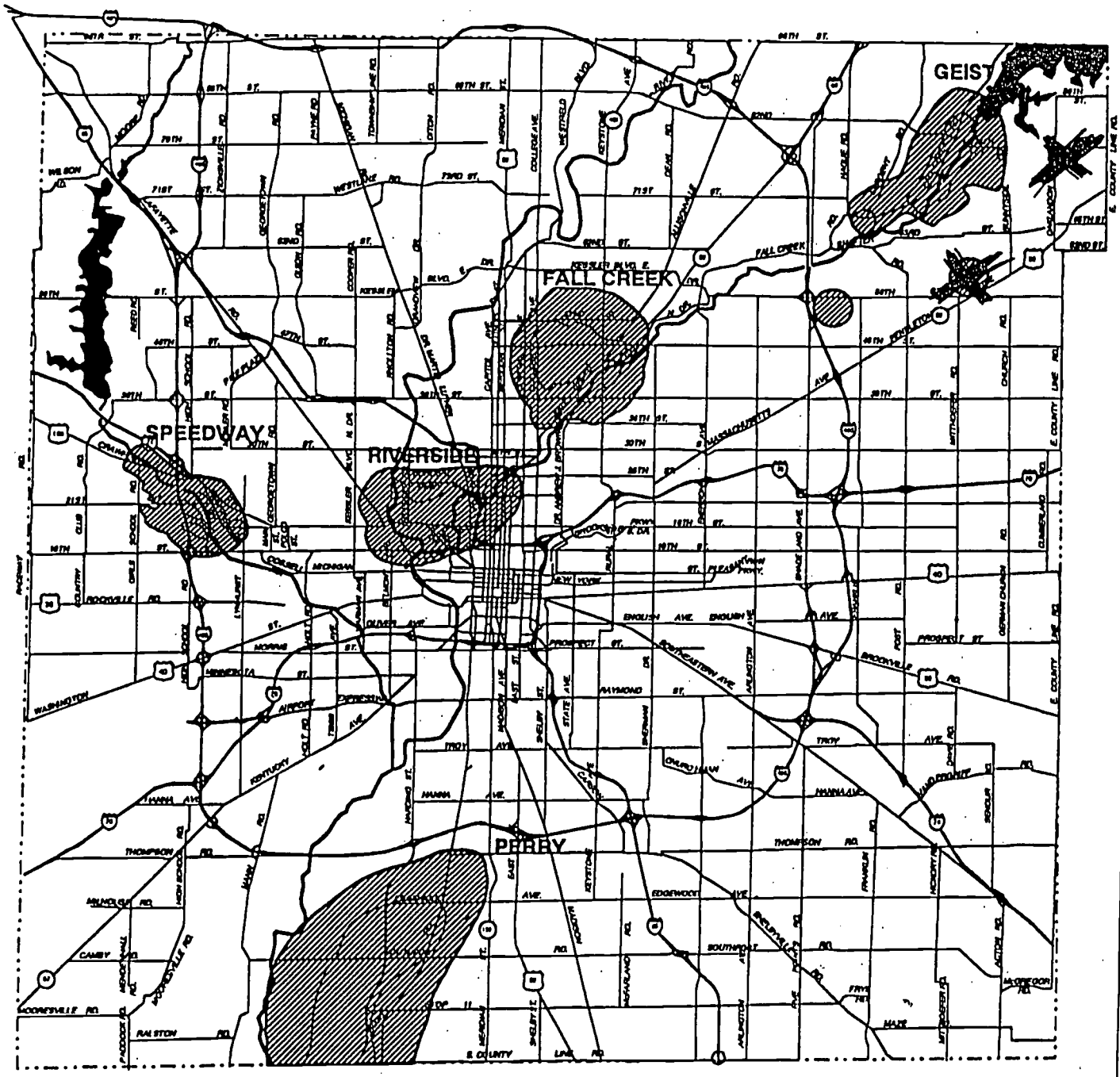
ıdress: 709 OLIN AV
INDIANAPOLIS IN 46222
Census Tract: 41700

ample Type: PW
ample Location: KS
ollected By: WS
omment:

Sample Date: 07/31/2001 Sample Time: 04:45
Reason: RQ
Date Received: 08/01/2001 Date Reported: 08/02/2001

Results

aram	Result	SUI	Units	Limits	Method	Anal.	Anal. Date	Remark
:1	A	S	P/A	18HR	MMO-MUG	SB	08/02/2001	
:1			P/A	18HR	MMO-MUG			
:2			MPN	18HR	MMO-MUG			
:2			MPN	18HR	MMO-MUG			
:3			P/A	24HR	MMO-MUG			
:3			P/A	24HR	MMO-MUG			
:4			MPN	24HR	MMO-MUG			
:4			MPN	24HR	MMO-MUG			



WELLFIELD PROTECTION DISTRICTS

CITY OF INDIANAPOLIS
DEPARTMENT OF METROPOLITAN DEVELOPMENT
PREPARED BY THE PLANNING DIVISION

DATA SOURCES FOR MAPS:

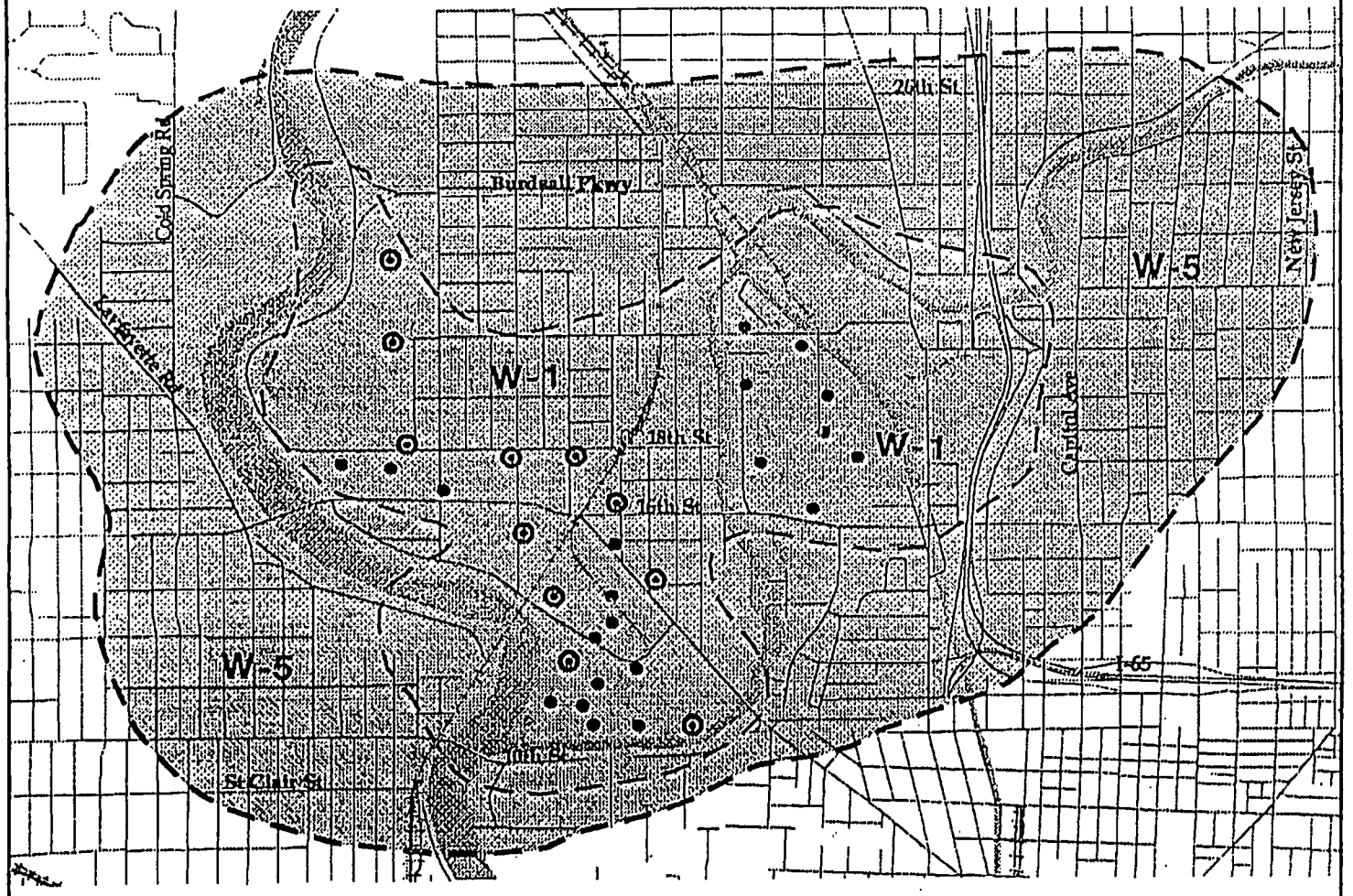
MARION COUNTY HEALTH DEPARTMENT
IMAGIS, GEOGRAPHIC INFORMATION SYSTEM, COMPUTER DATA
INFORMATION SHOWN ON THIS MAP IS NOT WARRANTED FOR ACCURACY OR MERCHANTABILITY.

5,000 0 5,000 10,000 FEET

imagis

Riverside

Wellhead Protection Area



Wellhead Protection Area

Roads

Railroads

One Year Time of Travel

Five Year Time of Travel

Lawrence Wells

Indianapolis Water Company Wells

Ft. Harrison Wells

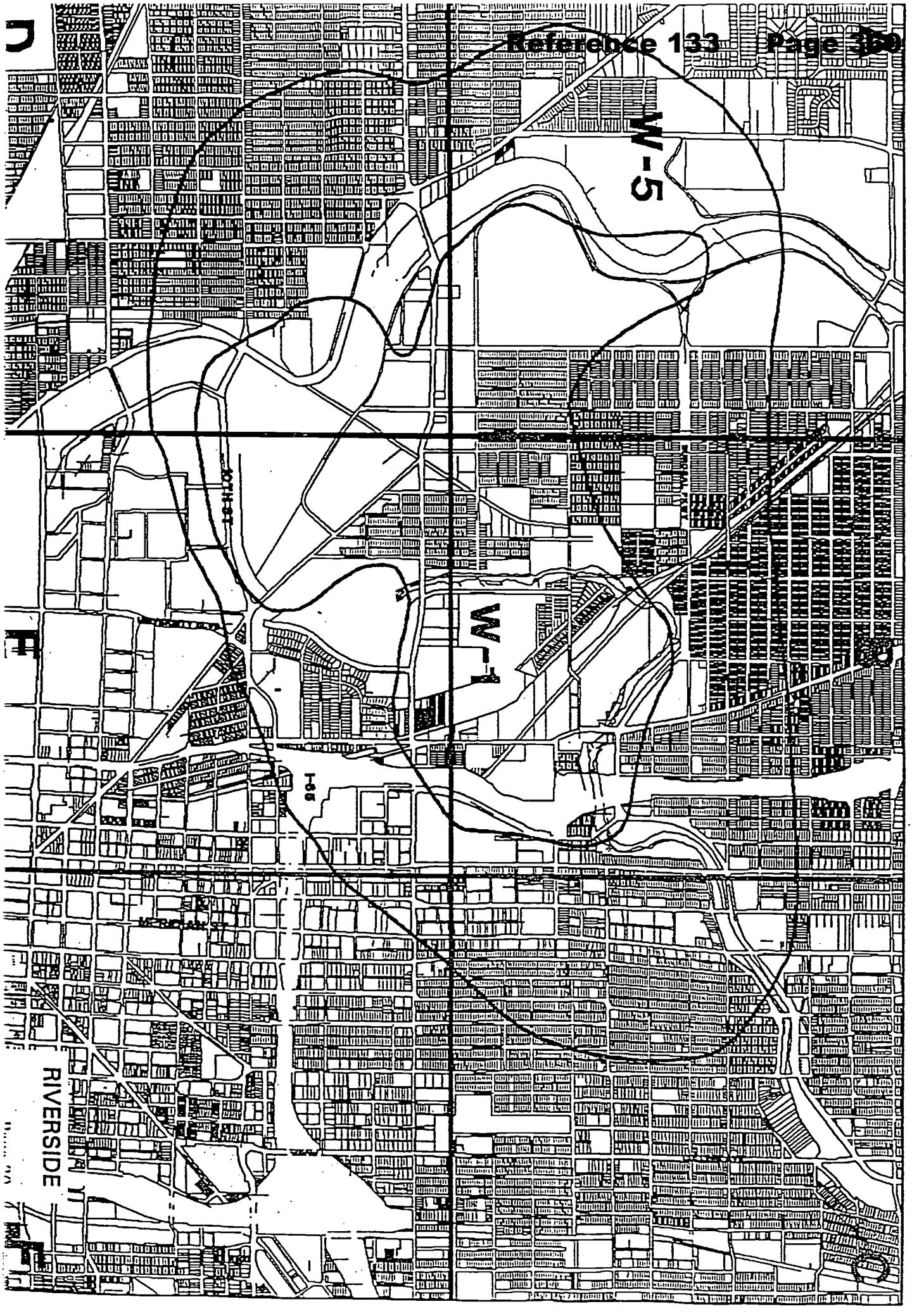
Speedway Wells

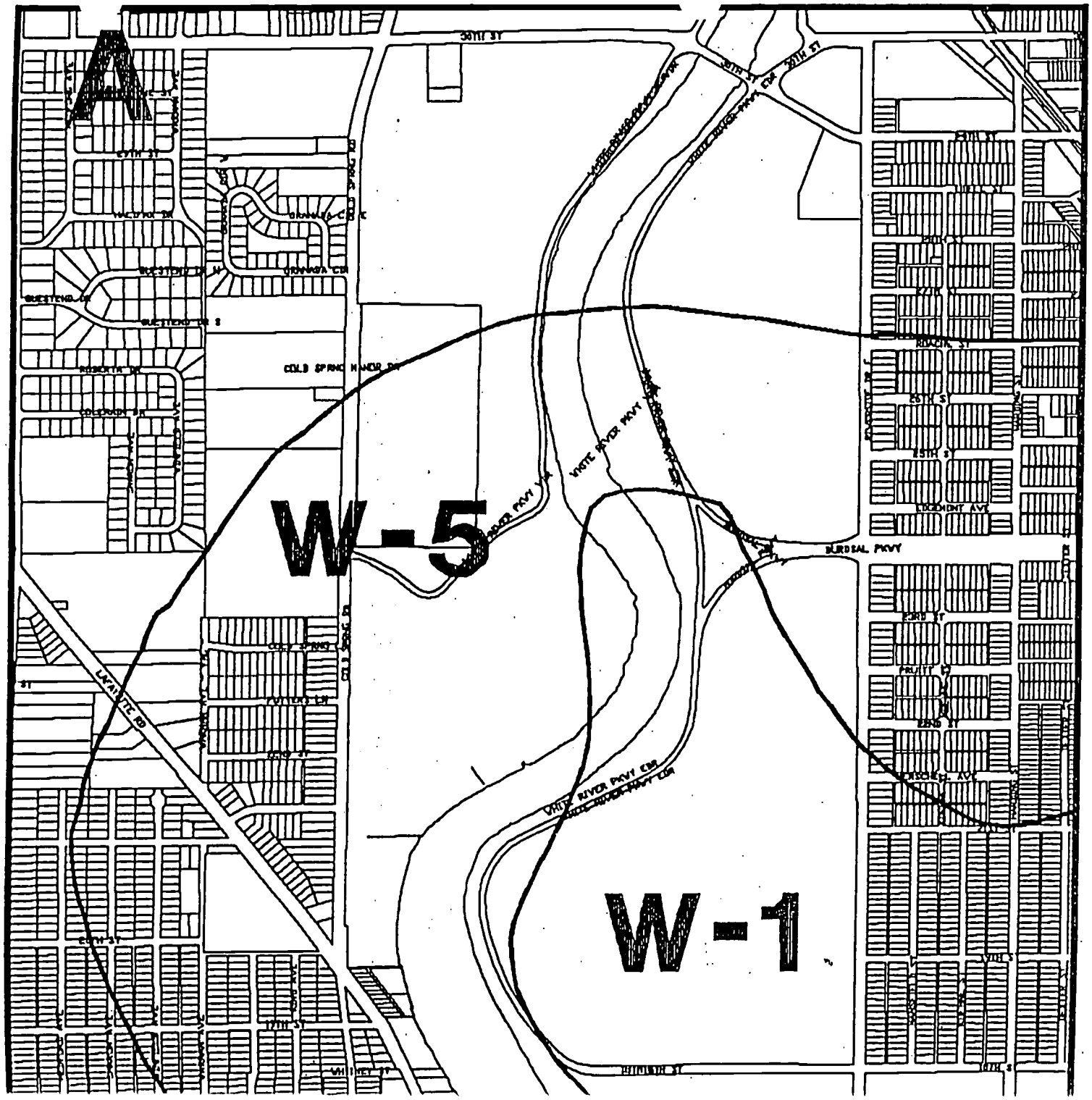
Proposed Wells

MAP 4

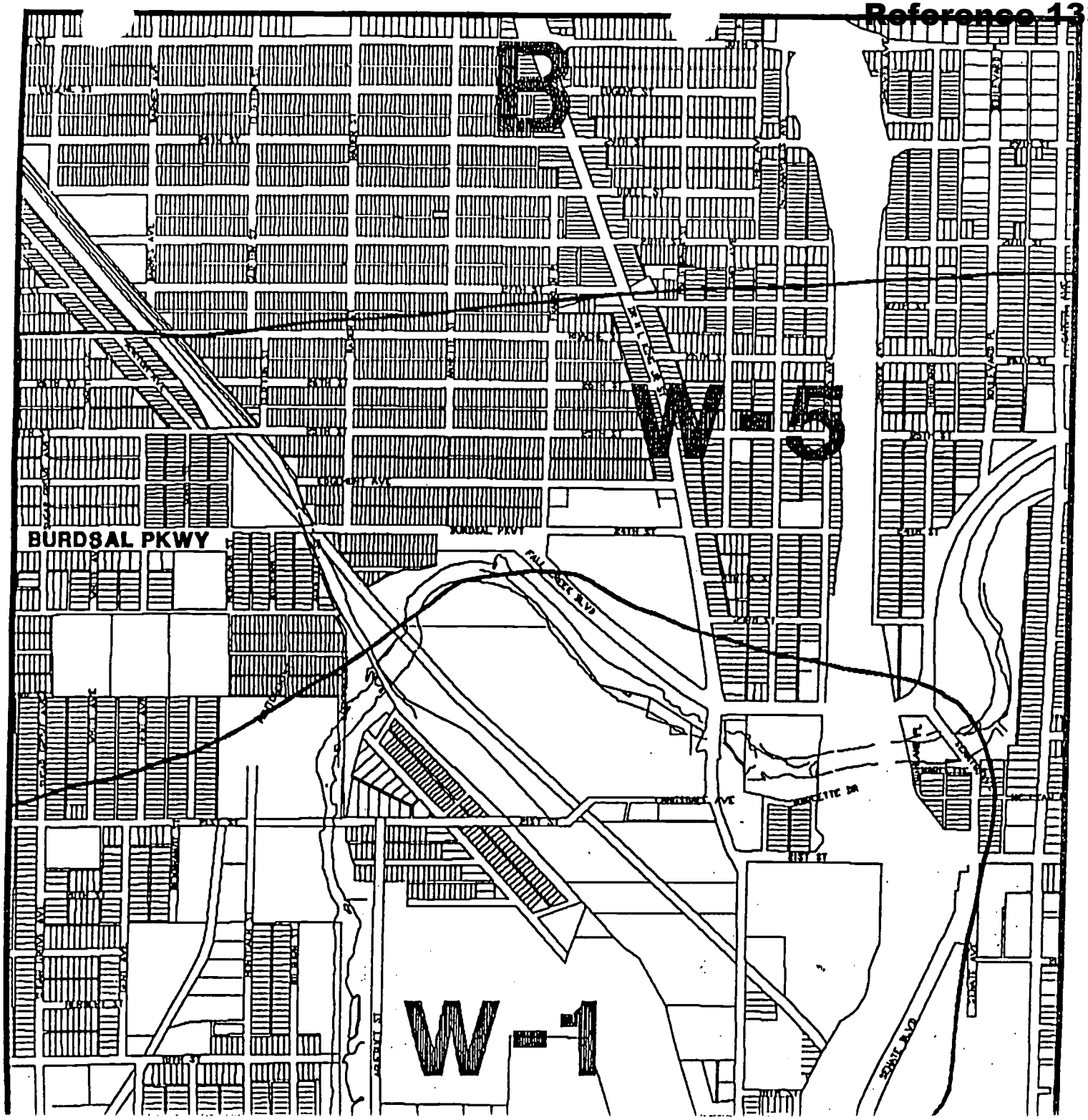
Marion County Health Department

The Health and Hospital Corporation of Marion County
Bureau of Environmental Health - GIS Department


W-5
W-1
I-65
RIVERSIDE


W-5
W-1
30TH ST
COLD SPRNG MANOR DR
WHITE RIVER PKWY
BURDSAL PKWY
LAFAYETTE RD
WHITE RIVER PKWY EDR
ROACH ST
25TH ST
EDGEMONT AVE
FORD ST
PRUITT ST
17TH ST
WHITNEY ST

RIVERSIDE



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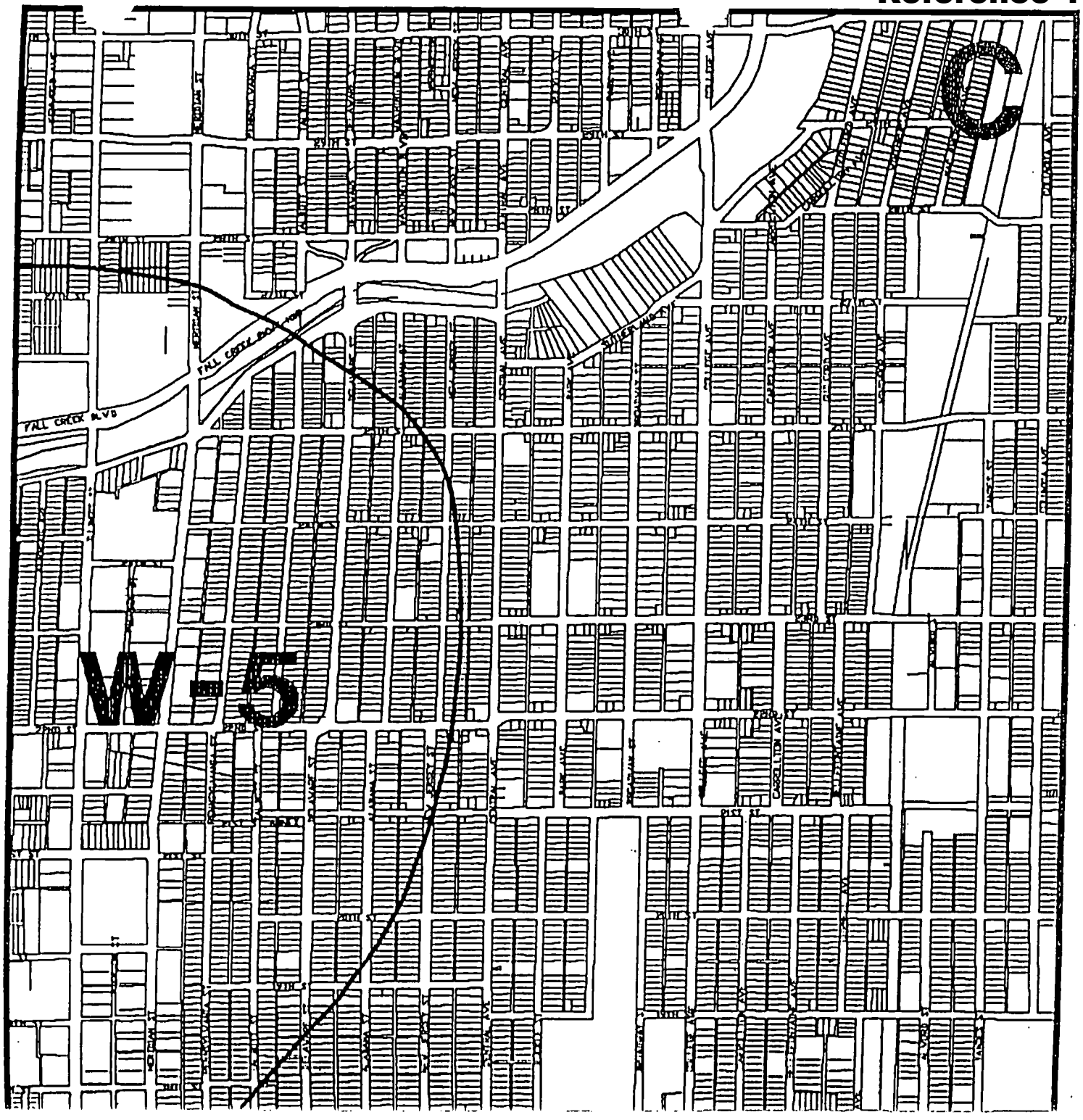

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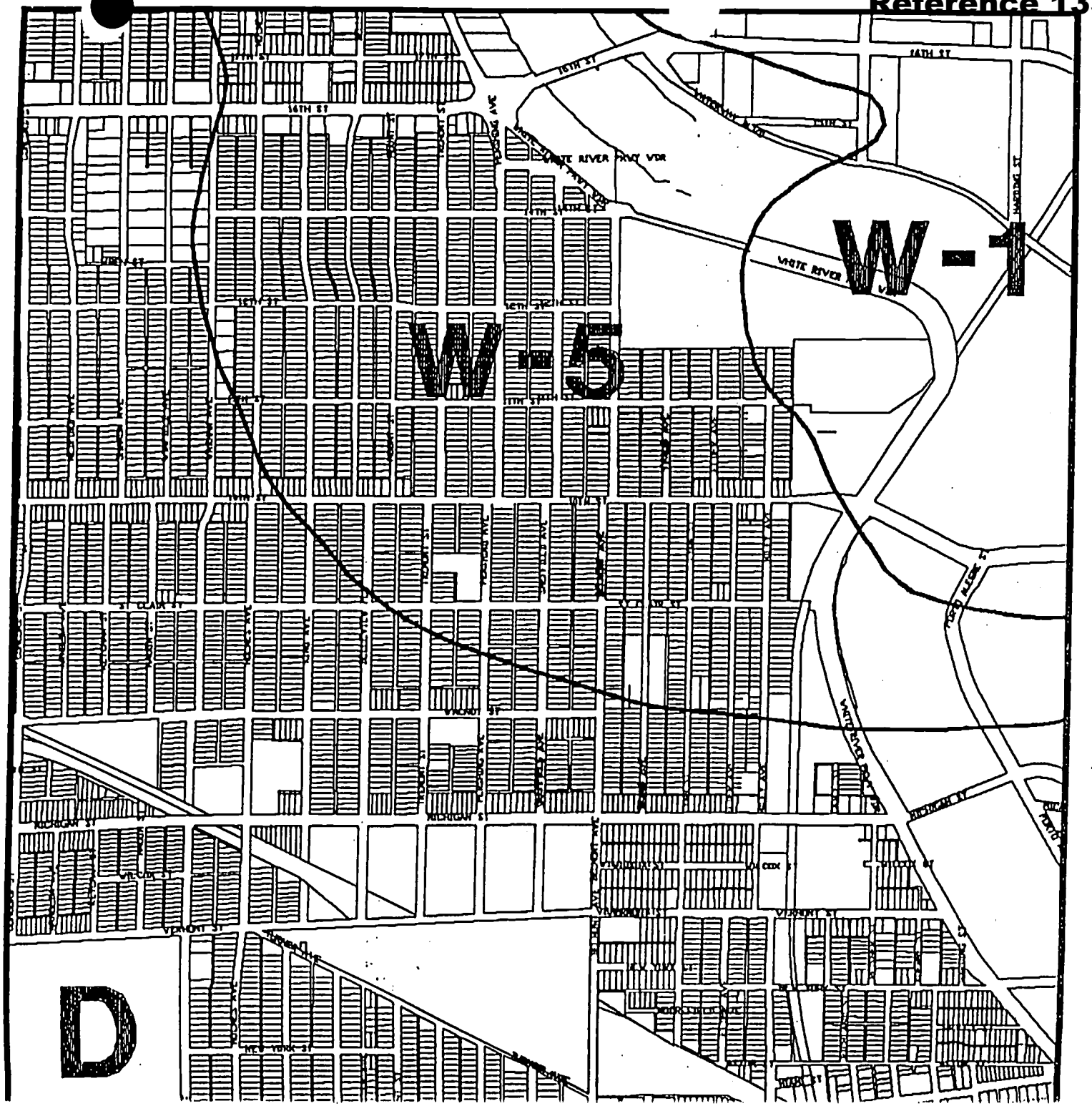
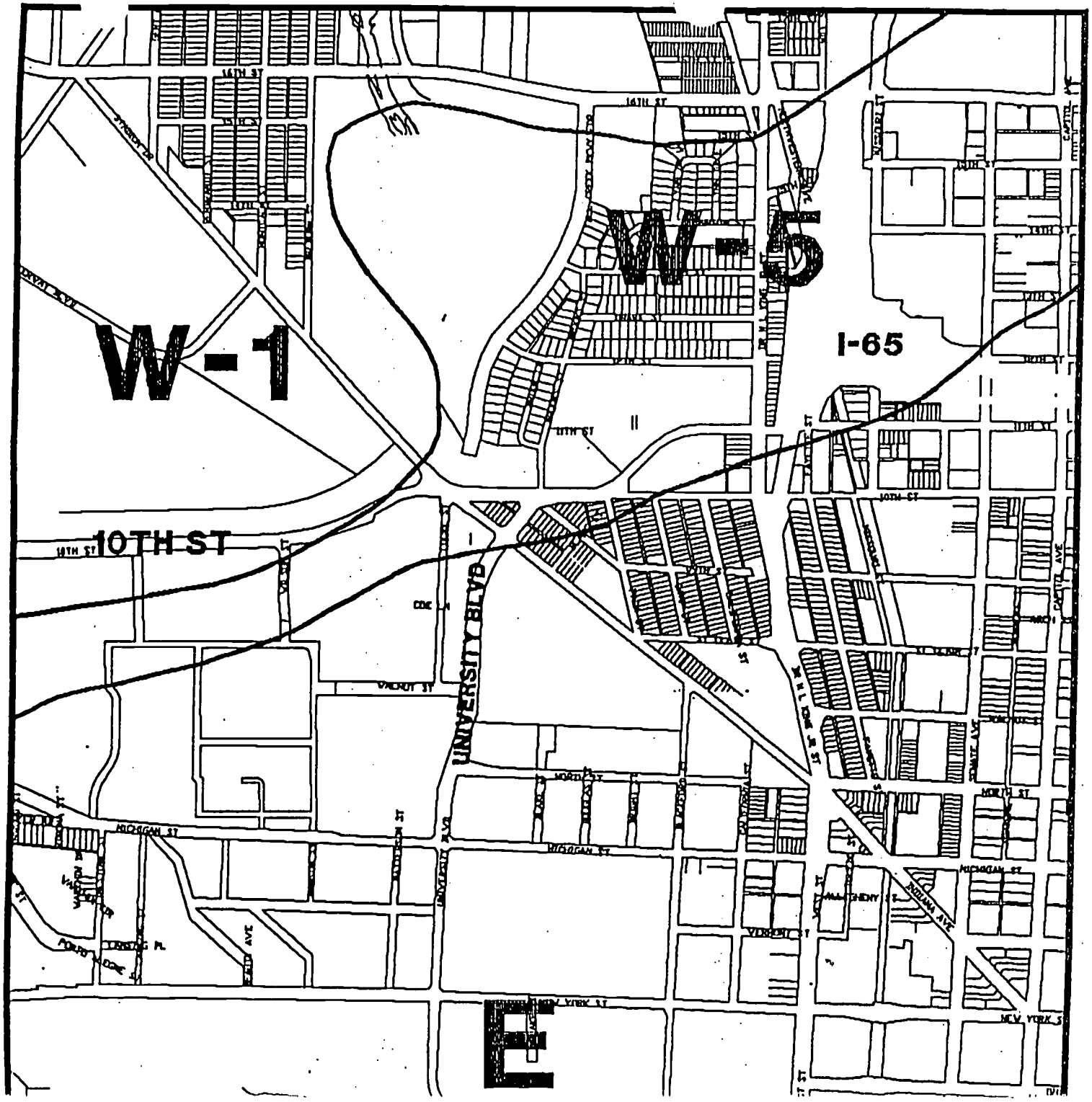

W-1
W-5
D
WHITE RIVER PKWY WDR
16TH ST
ST CLAIR ST
VERMONT ST
NEW YORK ST
MICHIGAN ST
WILCOX ST

RIVERSIDE



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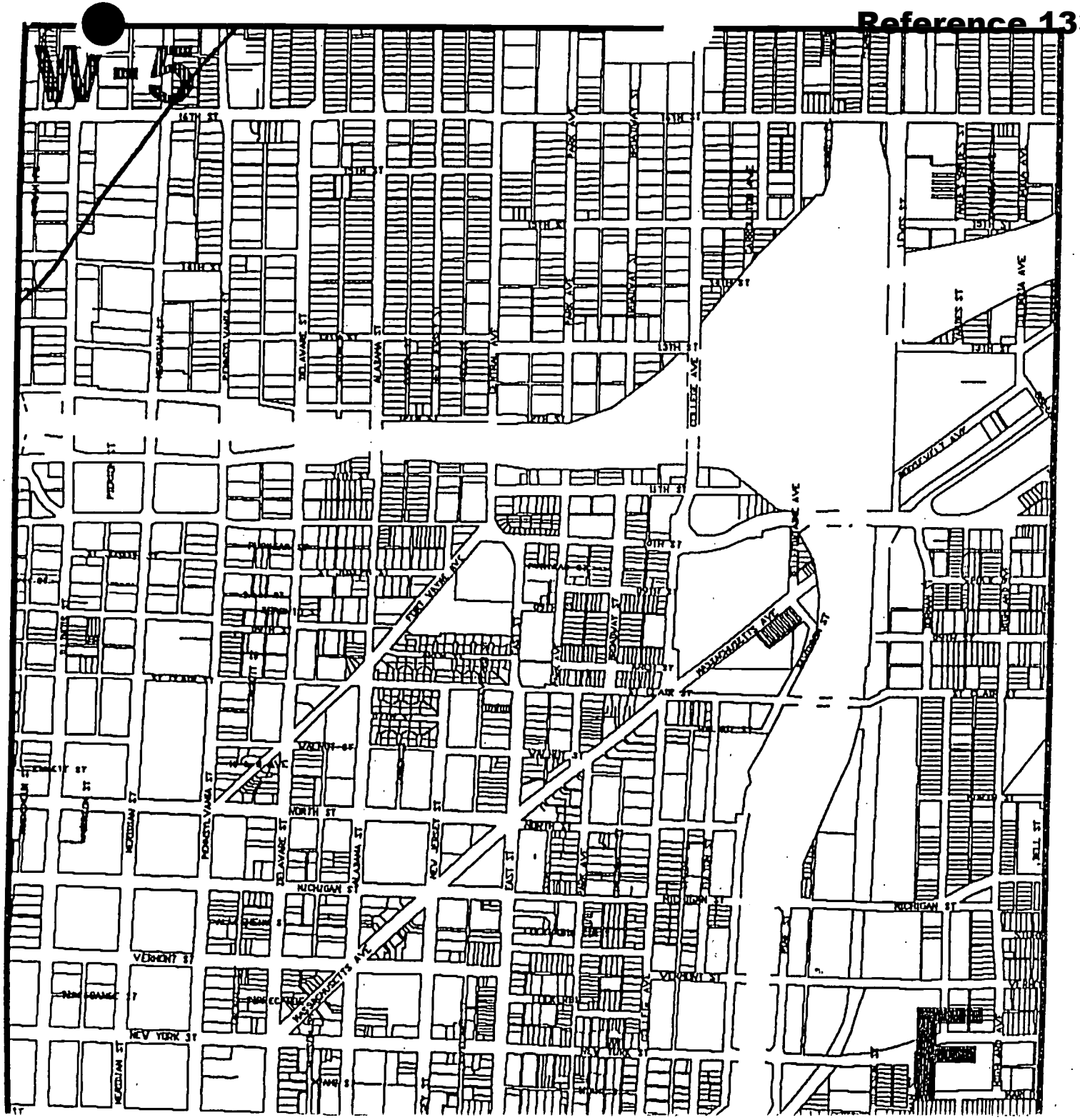
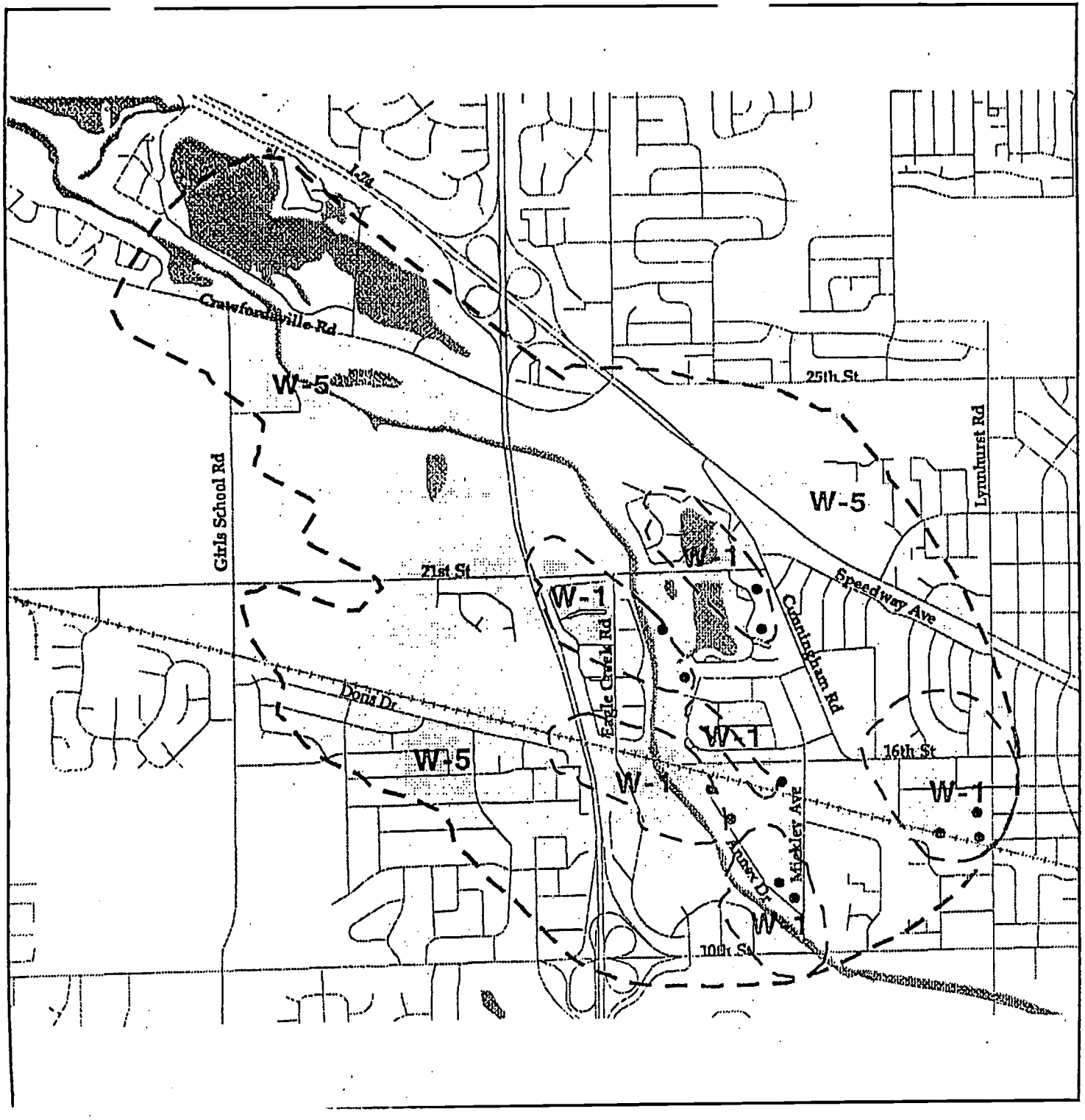

16TH ST
15TH ST
14TH ST
13TH ST
12TH ST
11TH ST
10TH ST
9TH ST
8TH ST
7TH ST
6TH ST
5TH ST
4TH ST
3RD ST
2ND ST
1ST ST
ST CLAIR ST
NORTH ST
MICHIGAN ST
VERMONT ST
NEW YORK ST
PENNSYLVANIA ST
DELAWARE ST
ALABAMA ST
NEW JERSEY ST
EAST ST
COLLEGE AVE
FORT WAYNE AVE
MASSACHUSETTS AVE
ROOSEVELT AVE
BELL ST

RIVERSIDE



Speedway

Wellhead Protection Area

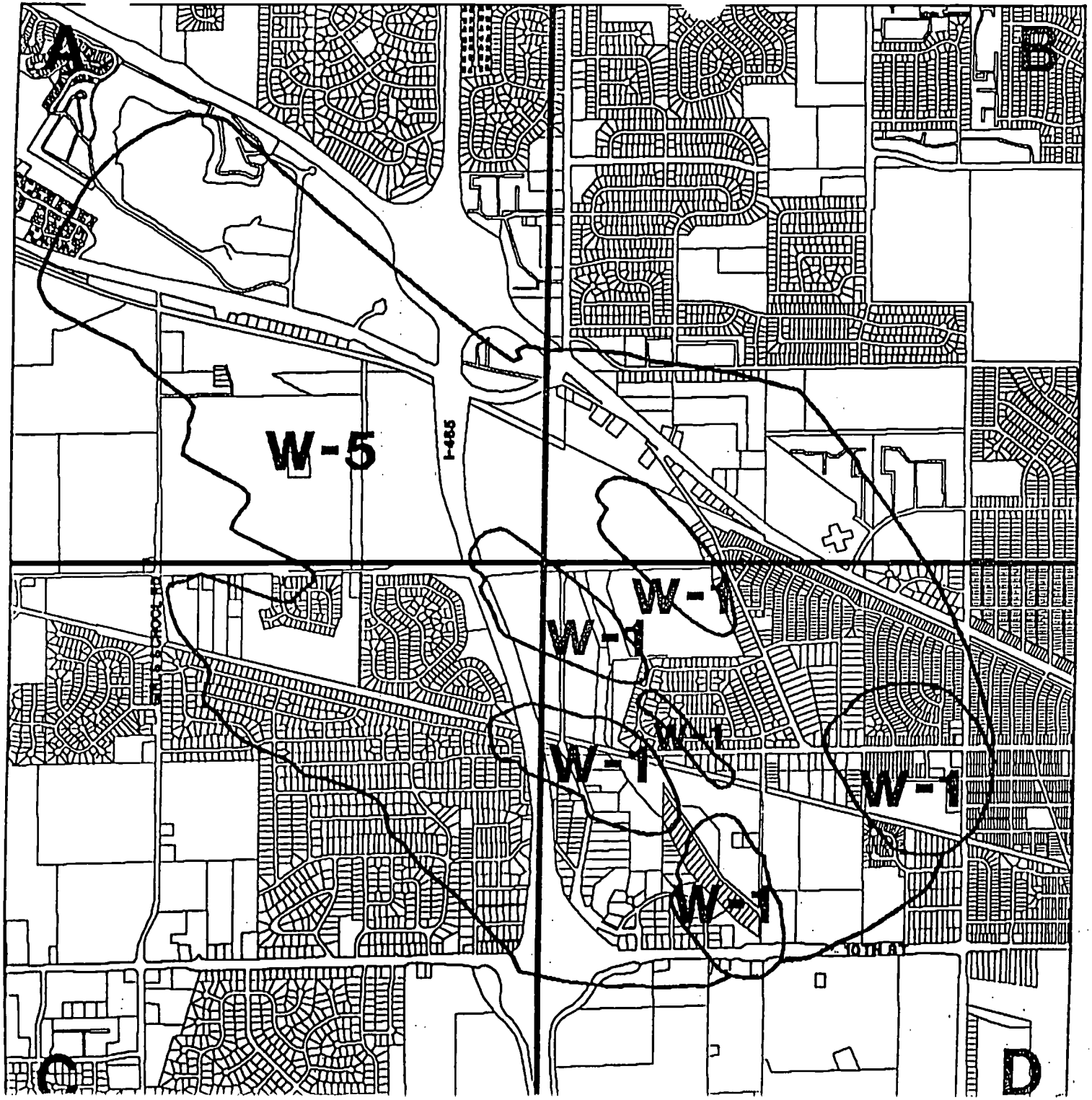
Wellhead Protection Area

- Roads
- Railroads
- One Year Time of Travel
- Five Year Time of Travel
- Lawrence Wells
- Indianapolis Water Company Wells
- Ft. Harrison Wells
- Speedway Wells
- Proposed Wells

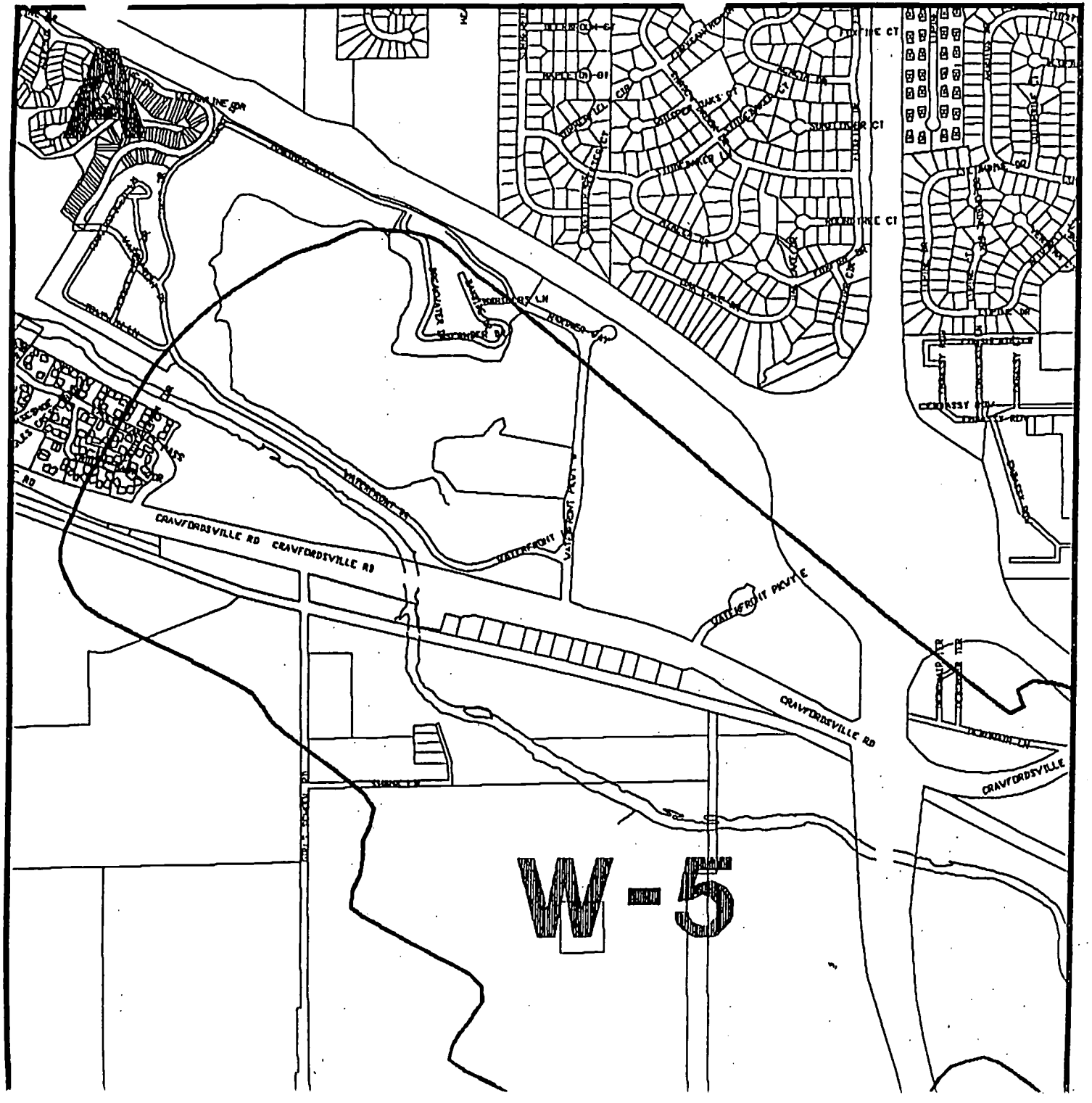
MAP 5

Marion County Health Department

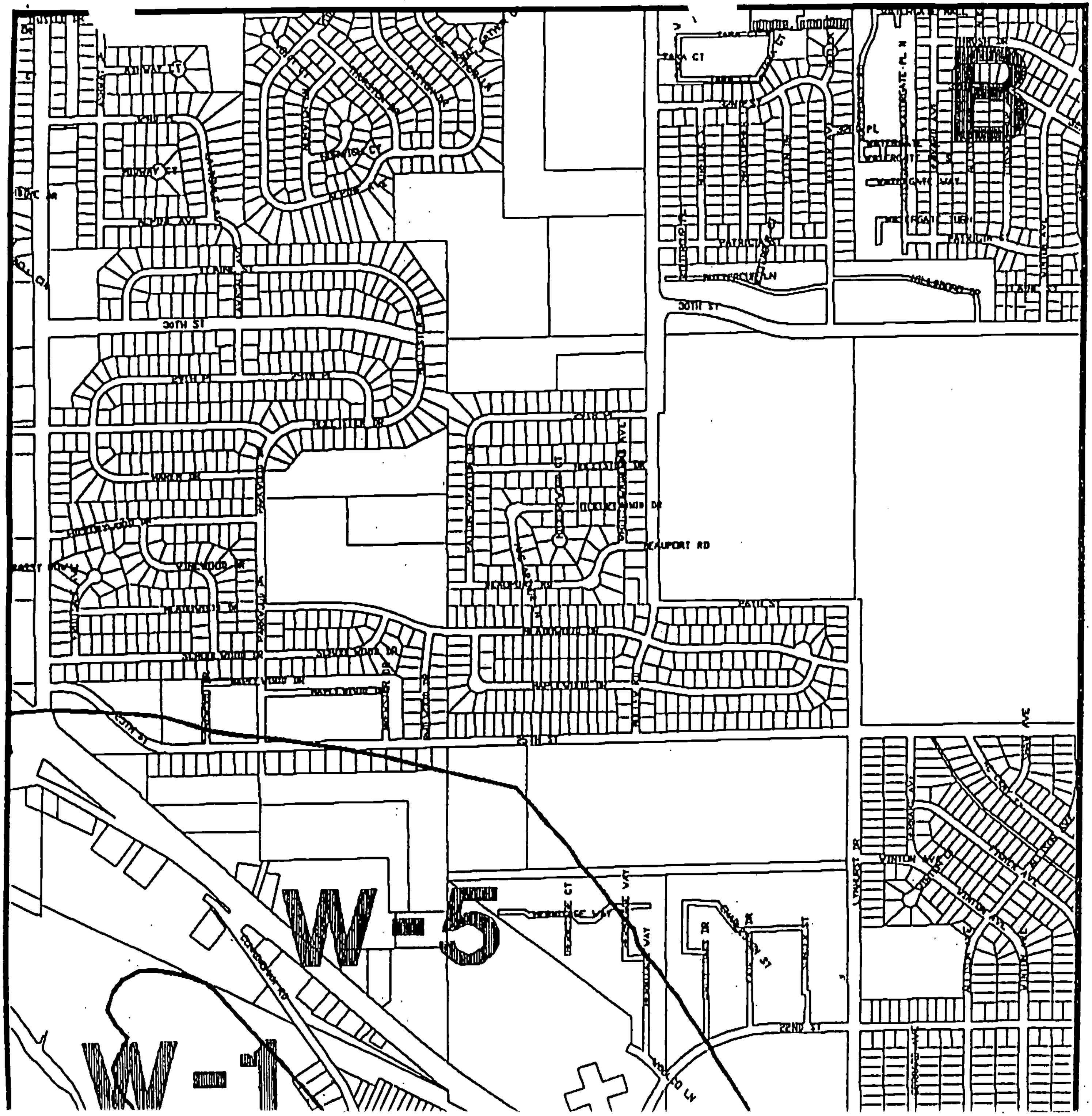
The Health and Hospital Corporation of Marion County
Bureau of Environmental Health - GIS Department



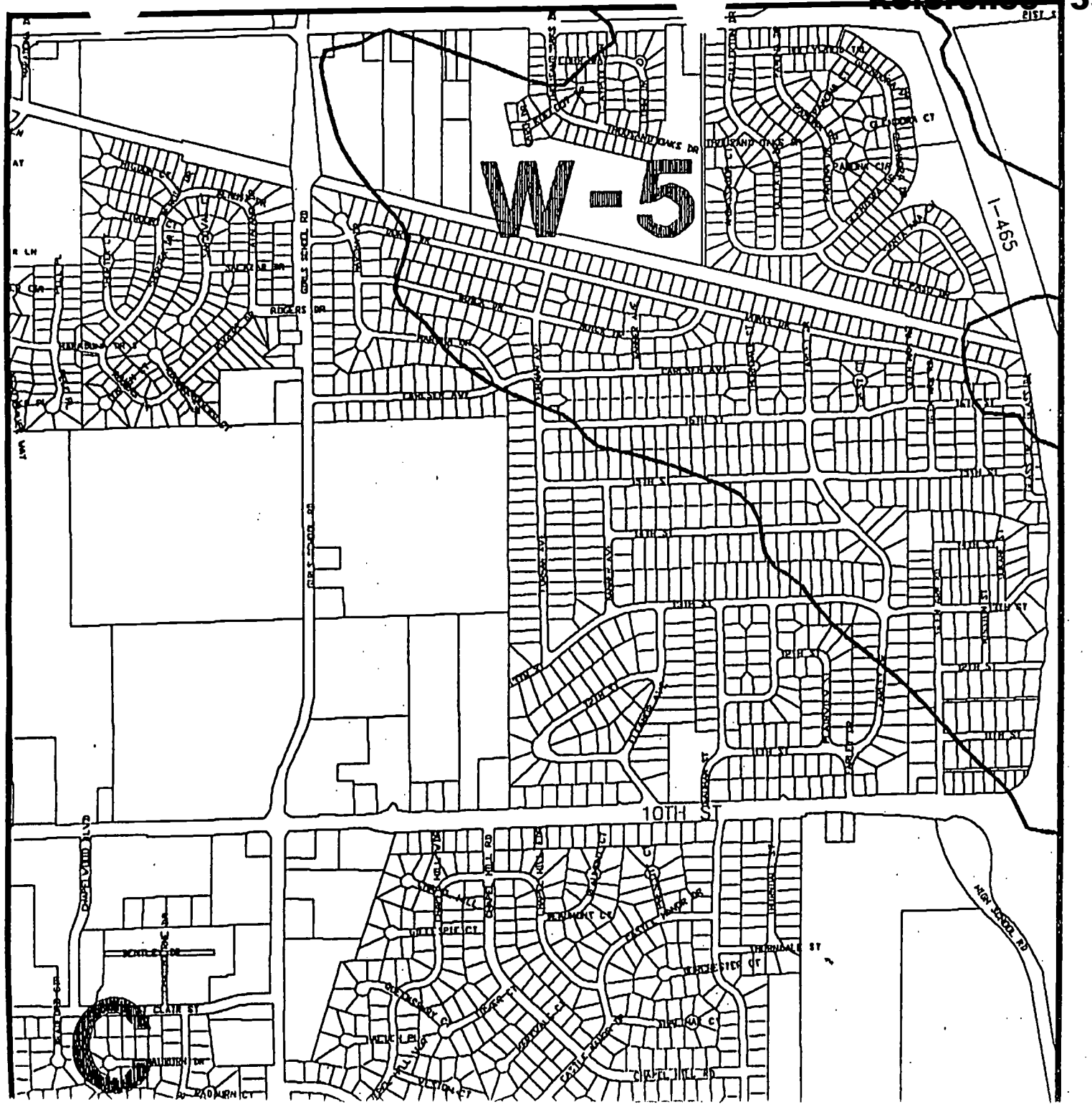
SPEEDWAY


CRAWFORDSVILLE RD
CRAWFORDSVILLE RD
CRAWFORDSVILLE RD
CRAWFORDSVILLE
W-5

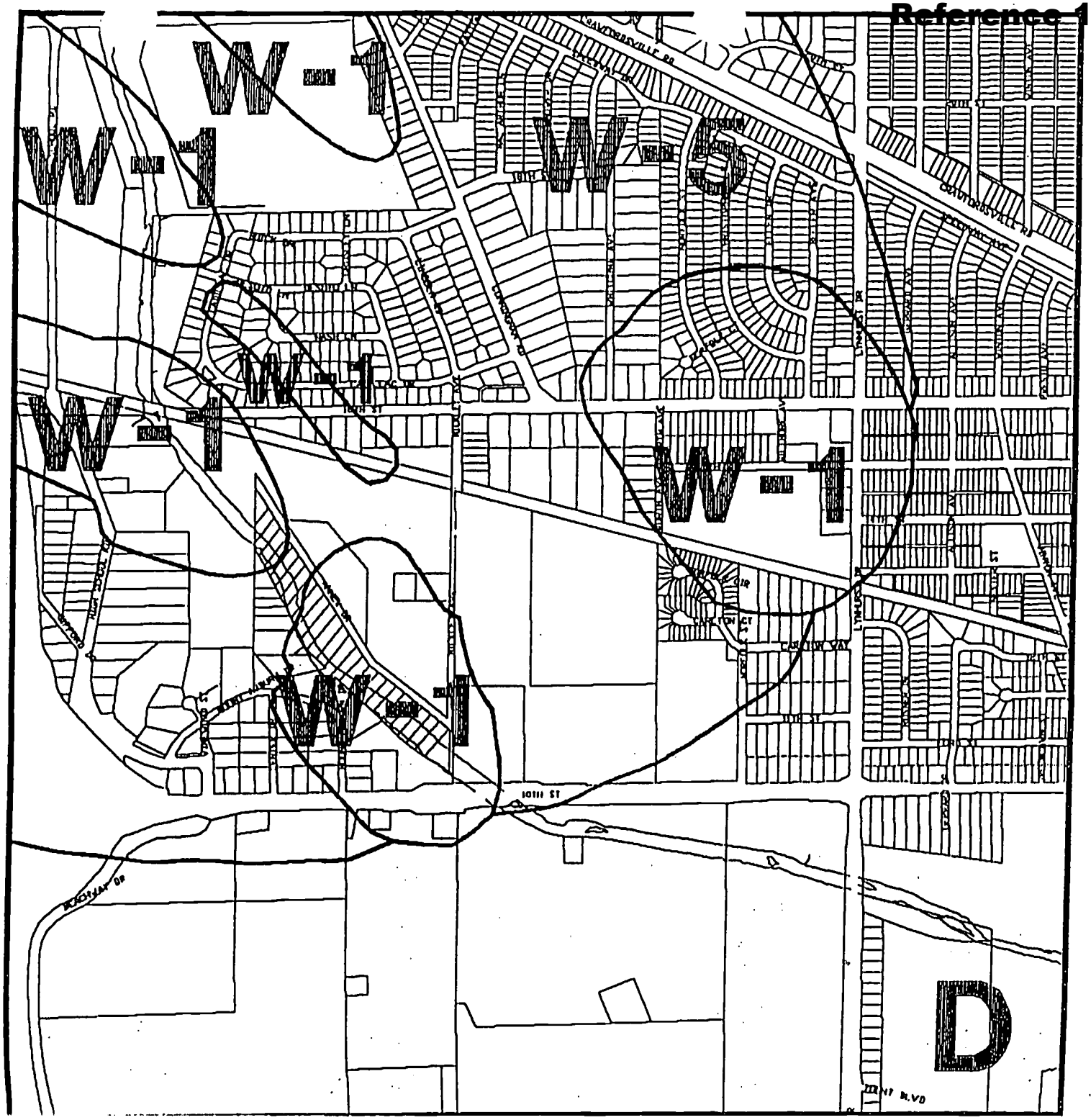
SPEEDWAY



SPEEDWAY

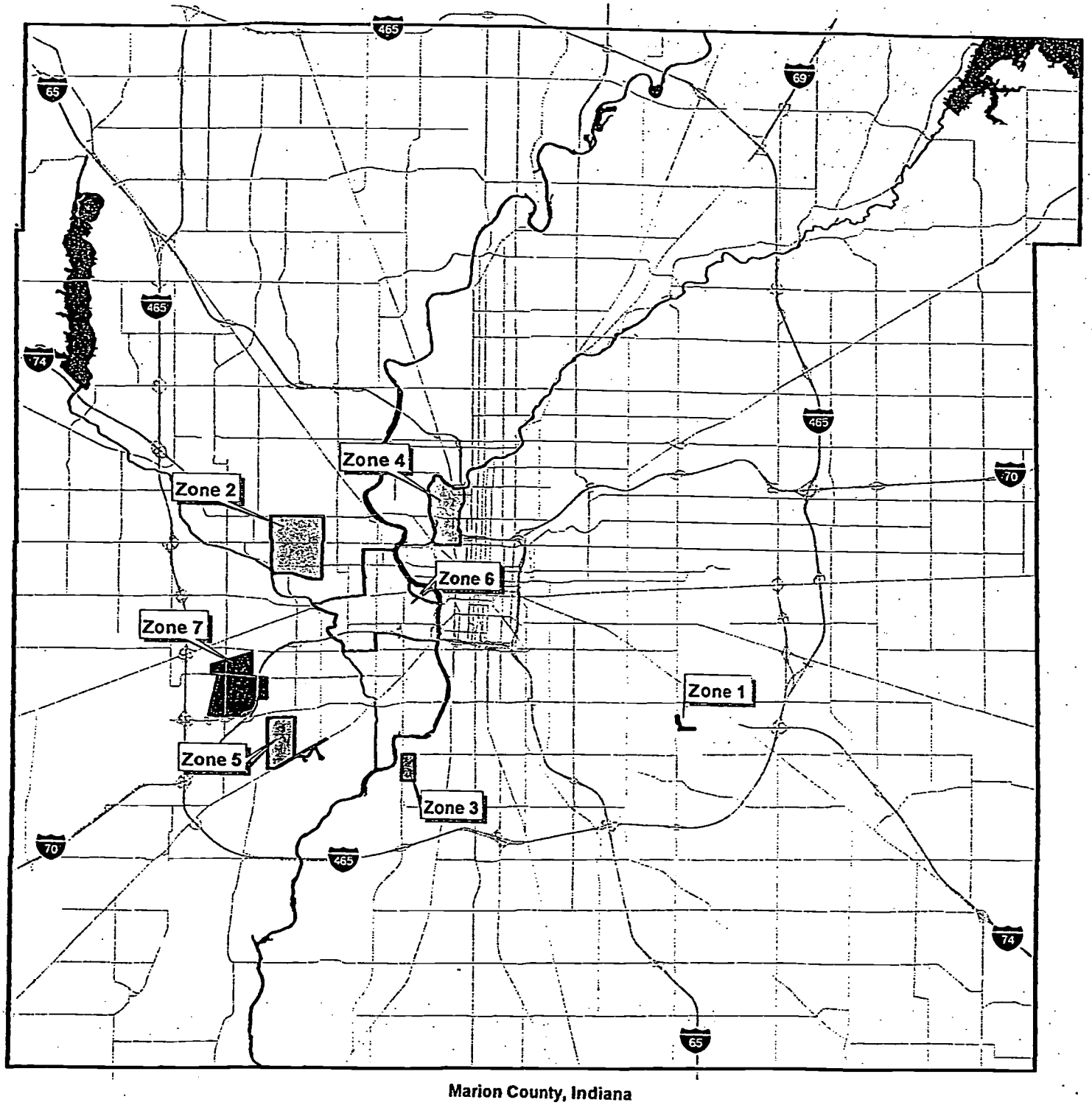

W-5
I-465
10TH ST
CARLSEN AVE
GIRLS SCHOOL RD
RIDGERS DR
THOUSAND OAKS DR
CHAPEL HILL RD
HIGH SCHOOL RD
THORNDALE ST
CLAIR ST

SPEEDWAY


W-1
W-1
W-5
W-1
W-1
W-1
W-1
D
CRAWFORDSVILLE RD
10TH ST
CARLTON CT
CARLTON WAY
LYNHURST DR
BLACKWAY DR

SPEEDWAY

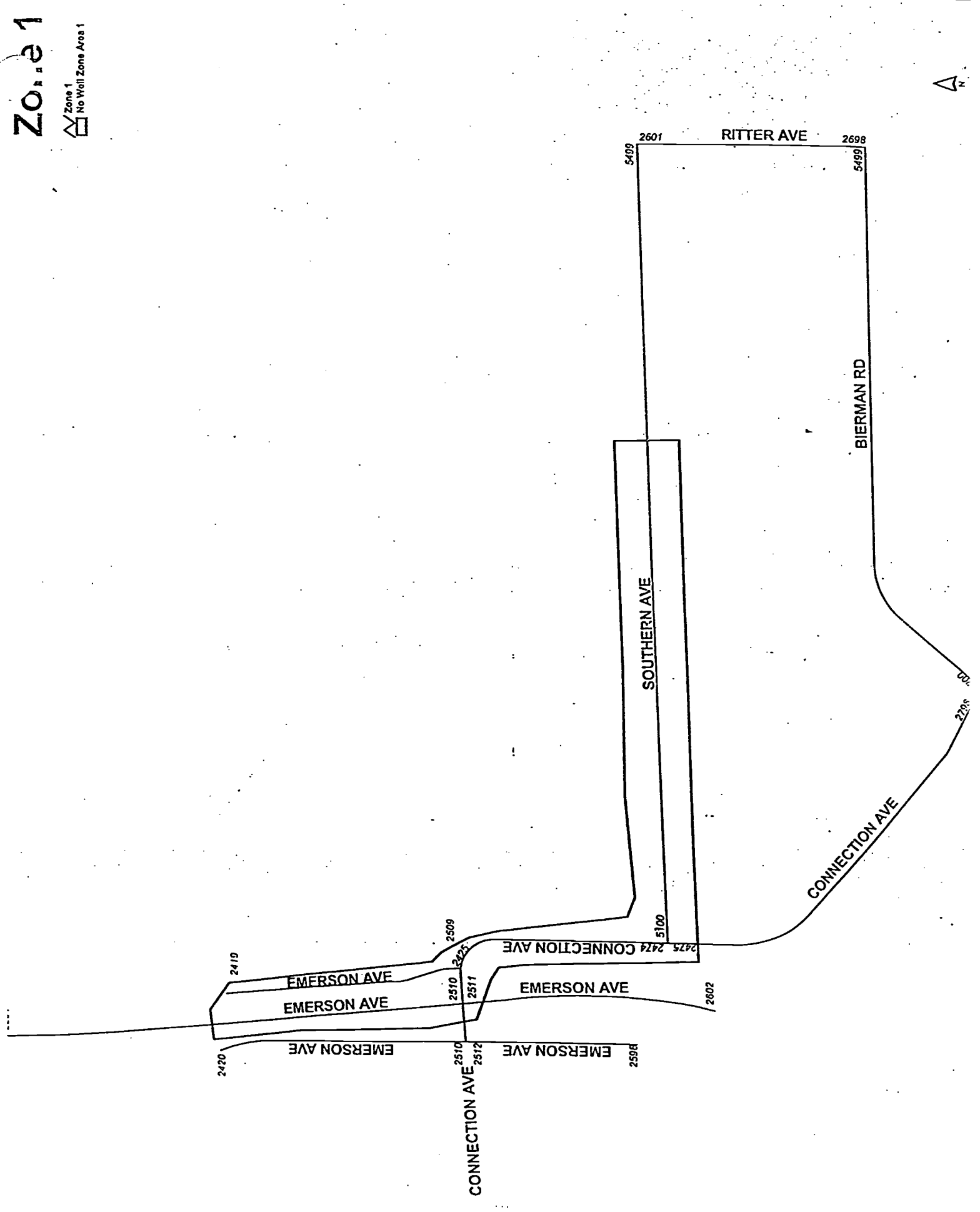
No Well Zone Areas



Marion County, Indiana

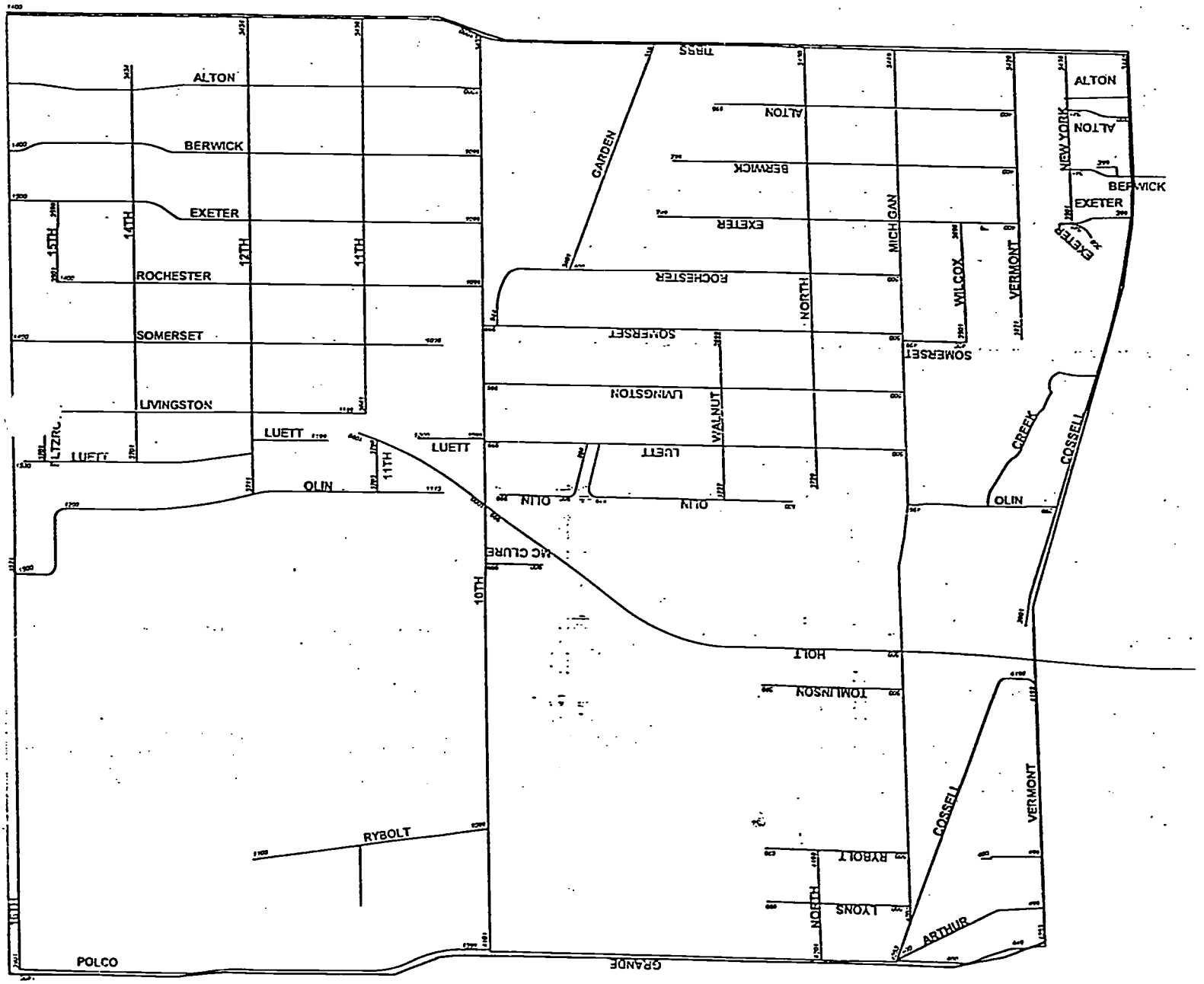
- No Well Zone Area 1
- No Well Zone Area 2
- No Well Zone Area 3
- No Well Zone Area 4
- No Well Zone Area 5
- No Well Zone Area 6
- No Well Zone Area 7

N

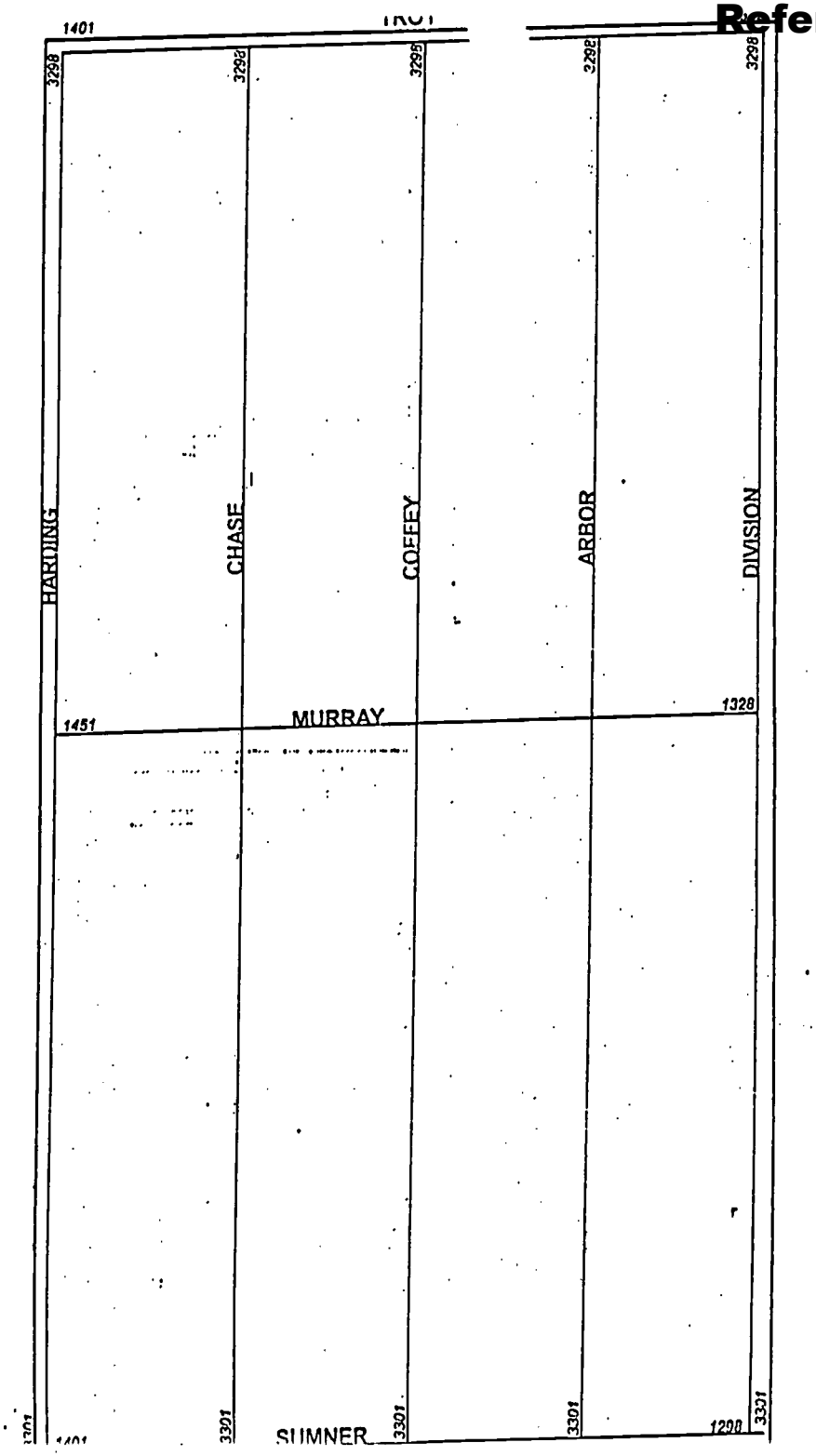

Zone 1
Zone 1
No Well Zone Area 1
RITTER AVE
2601
2698
5499
5499
BIERMAN RD
SOUTHERN AVE
CONNECTION AVE
5100
2474
2475
2509
2425
2419
EMERSON AVE
EMERSON AVE
2510
2511
EMERSON AVE
2602
EMERSON AVE
EMERSON AVE
2420
2510
2512
2598
CONNECTION AVE

Zone 2

Zone 2
No Well Zone Area 2

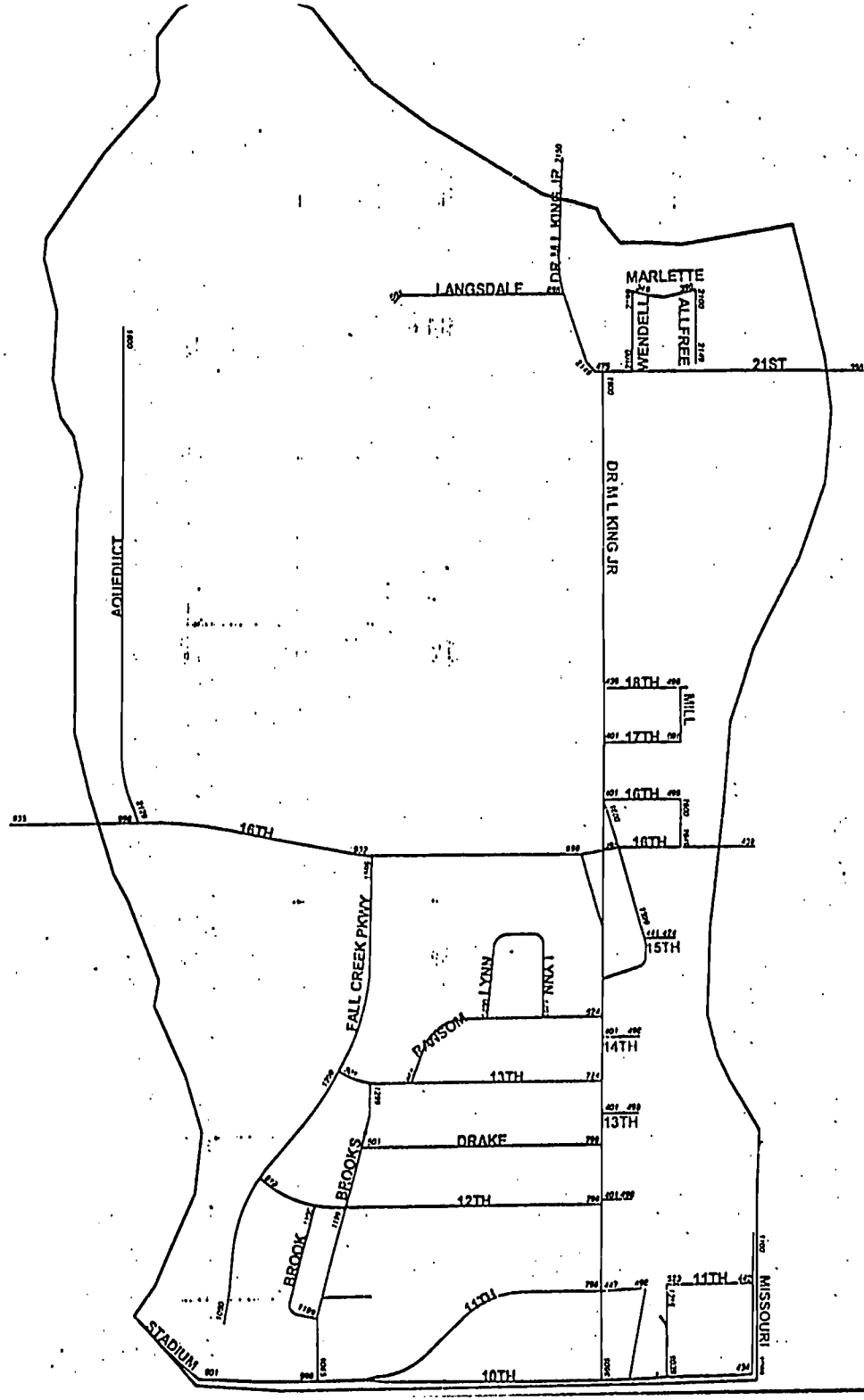


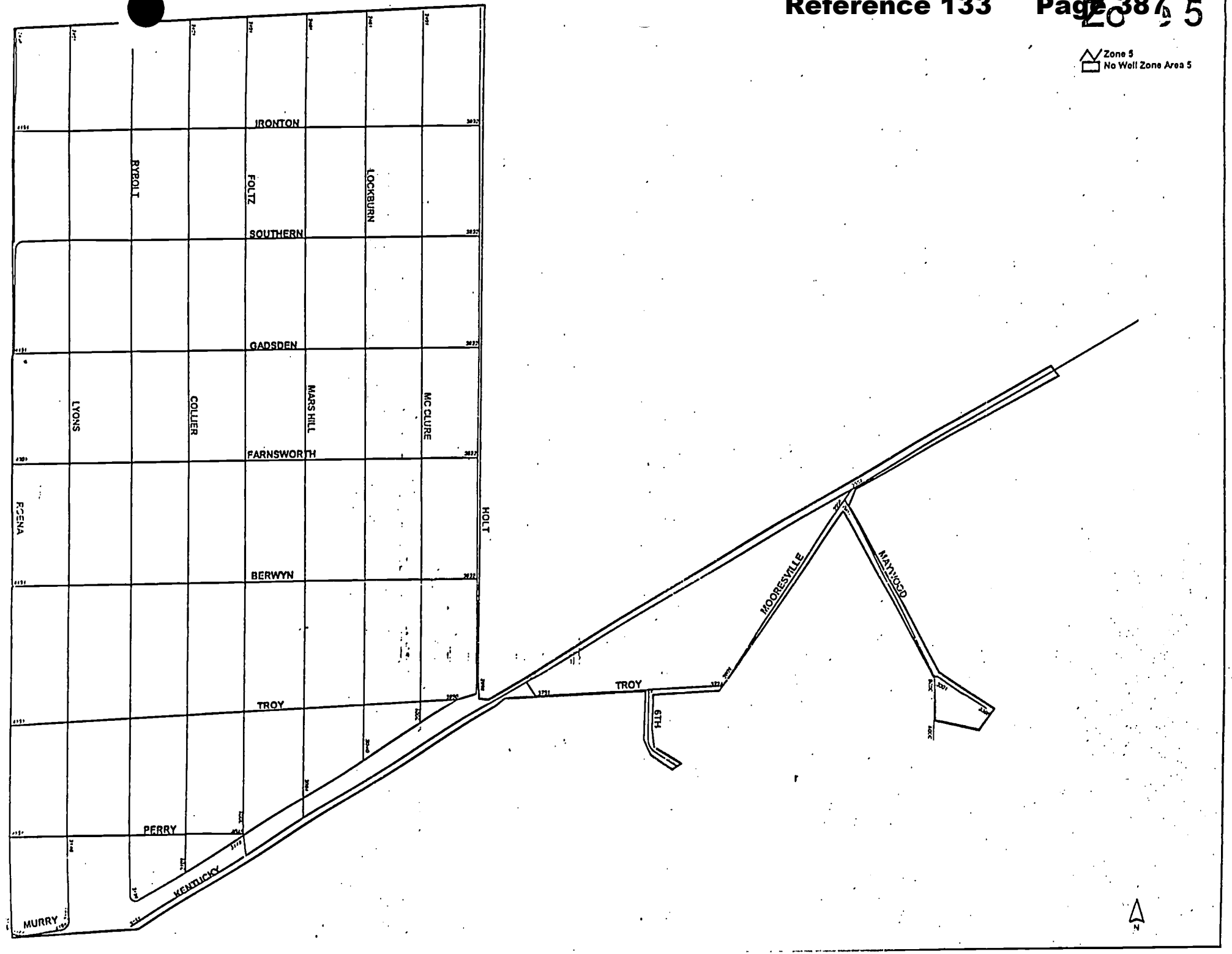
Zone 3


Zone 3
No Wall Zone Area 3
1401
3298
3298
3298
3298
3298
HARDING
CHASE
COFFEY
ARBOR
DIVISION
1451
MURRAY
1328
3301
3301
3301
3301
3301
SUMNER
1290
N

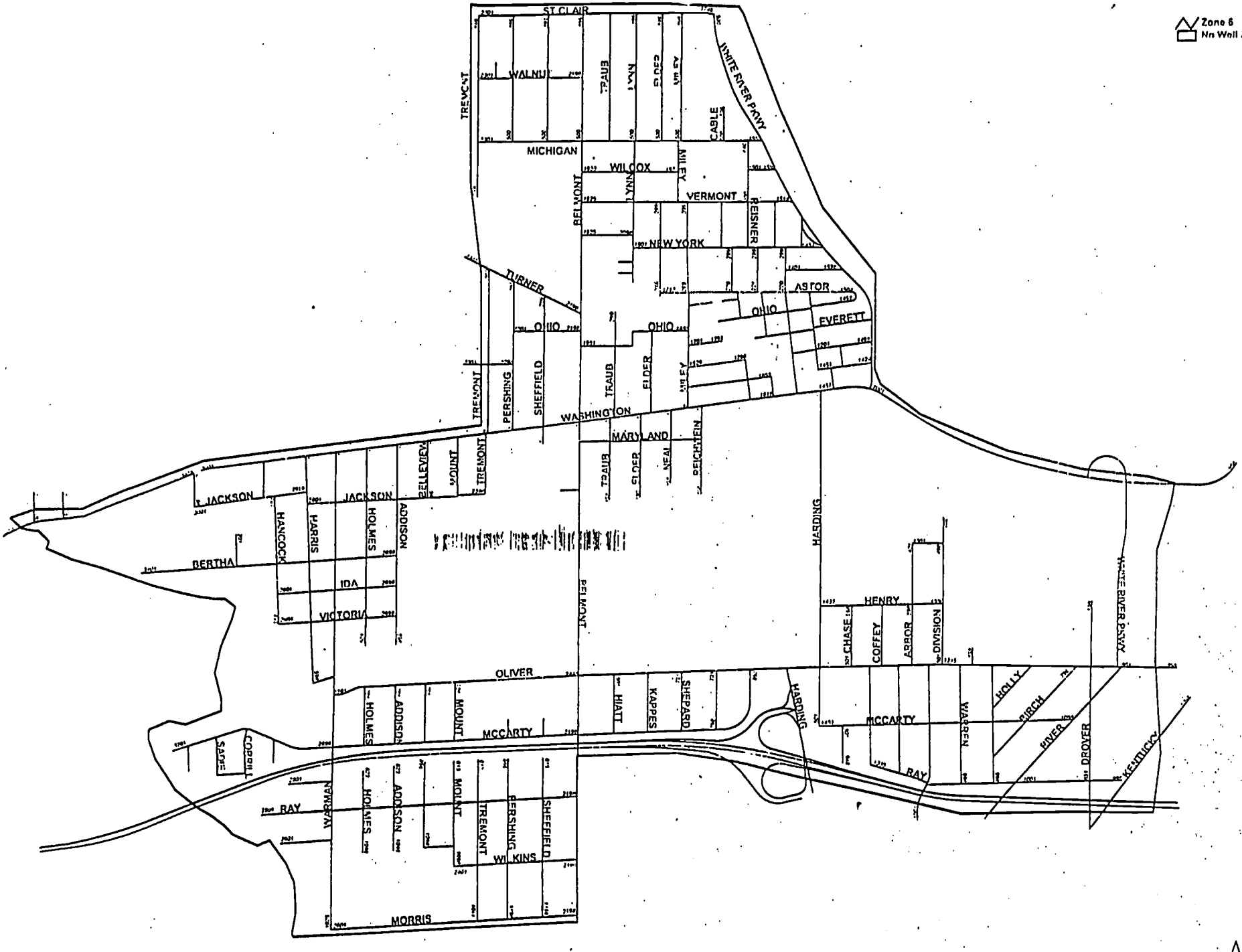
Zone 4

Zone 4
No Well Zone Area 4



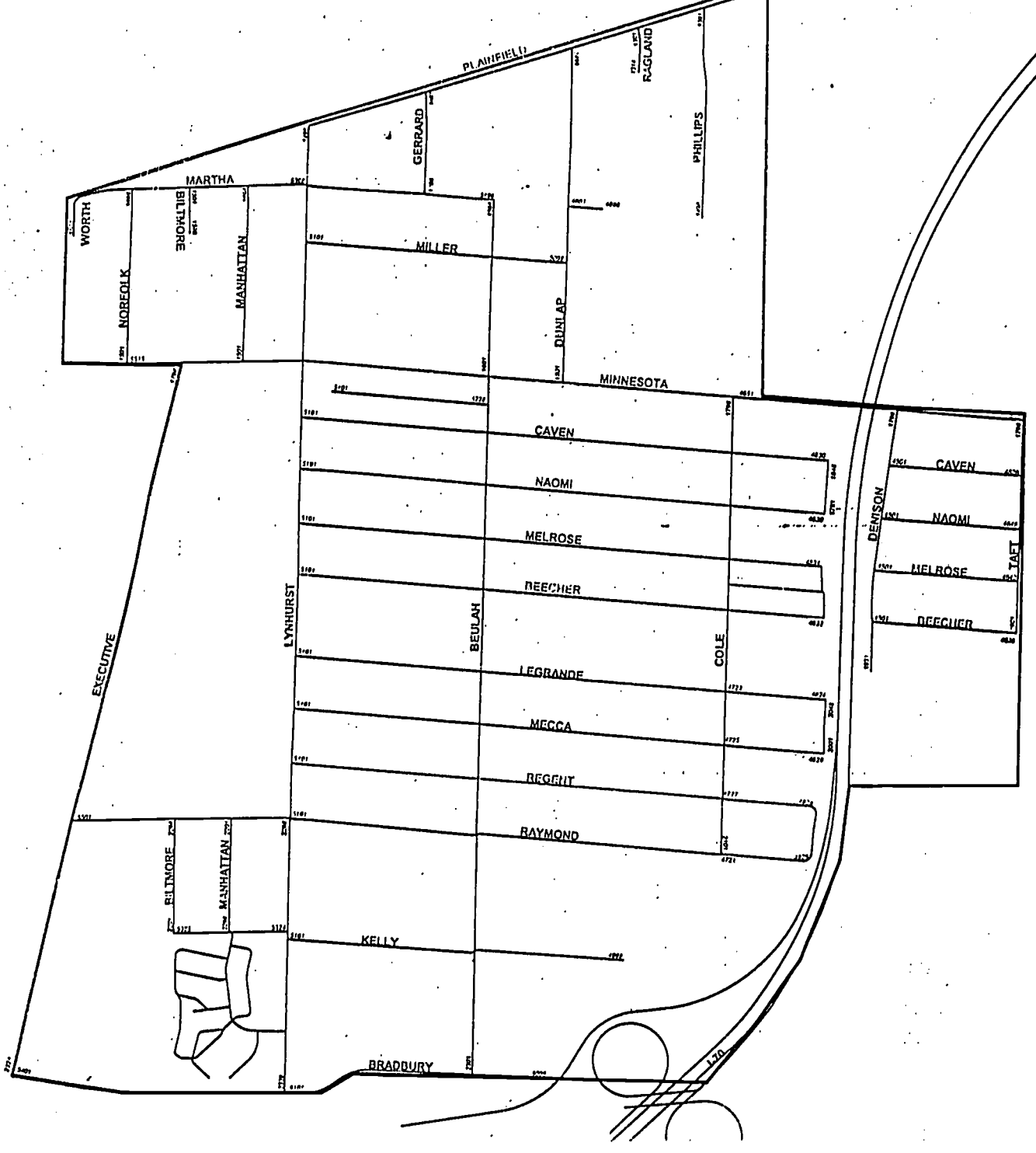

Zone 5
No Well Zone Area 5
IRONTON
RYBOLT
FOLTZ
LOCKBURN
SOUTHERN
GADSDEN
LYONS
COLLIER
MARS HILL
MC CLURE
FARNSWORTH
ROENA
HOLT
BERWYN
TROY
PERRY
KENTUCKY
MURRY
TROY
6TH
MOORESVILLE
MAYWOOD
N

Zone 6


Zone 6
No Well Zone Area 6
ST CLAIR
WALNUT
TREMONT
MICHIGAN
WILCOX
VERMONT
NEW YORK
BELMONT
LYNN
MILEY
CABLE
REISNER
WHITE RIVER PKWY
TURNER
OHIO
ASTOR
EVERETT
TRAUB
ELDER
PERSHING
SHEFFIELD
WASHINGTON
MARYLAND
NEAL
REICHTEIN
JACKSON
BELLEVIEW
MOUNT
HANCOCK
HARRIS
HOLMES
ADDISON
BERTHA
IDA
VICTORIA
HARDING
HENRY
CHASE
COFFEY
ARBOR
DIVISION
OLIVER
HIATT
KAPPES
SHEPARD
MCCARTY
WARREN
HOLLY
BIRCH
RIVER
DROVER
KENTUCKY
RAY
WARMAN
WILKINS
MORRIS
N

Zone 7

Zone 7
No Well Zone Area 7



Street Zone Table

11/02/2001

FROM	TO	DIRECTION	STREET NAME	ZONE
3000	3099	S	06TH AVE E	5
400	999	W	10TH ST	4
3400	4199	W	10TH ST	2
3400	3799	W	11TH ST	2
322	797	W	11TH ST	4
3400	3799	W	12TH ST	2
400	899	W	12TH ST	4
400	823	W	13TH ST	4
3400	3799	W	14TH ST	2
400	499	W	14TH ST	4
3500	3599	W	15TH ST	2
440	549	W	15TH ST	4
400	699	W	16TH PL	4
3400	4699	W	16TH ST	2
400	999	W	16TH ST	4
400	603	W	17TH ST	4
430	499	W	18TH ST	4
326	949	W	21ST ST	4
2	1099	S	ADDISON ST	6
2101	2148		ALLFREE ST	4
1	98	N	ALTON AVE	6
301	1598	N	ALTON AVE	2
301	398		ALTON DR	2
1601	2128		AQUEDUCT ST	4
400	923		ARBOR AVE	6
3000	3499		ARBOR ST	3
401	498		ARTHUR AVE	2
1400	1899		ASTOR ST	6
4600	5100	W	BEECHER ST	7
2	1099	S	BELLEVIEW PL	6
1	898	N	BELMONT AVE	6
2	845	S	BELMONT AVE	6
2600	3299		BERTHA ST	6
1	98	N	BERWICK AVE	6
275	1598	N	BERWICK AVE	2
301	398		BERWICK PL	2
3800	4199	W	BERWYN ST	5
1600	2300	S	BEULAH AVE	7
1500	2300	S	BILTMORE AVE	7
500	899		BIRCH AVE	6
5100	5400	W	BRADBURY AVE	7
1501	1724		BRIGHTON BLVD	4
1101	1198		BROOK LN	4
1001	1298		BROOKS ST	4
301	598		CABLE ST	6
4500	5100	W	CAVEN ST	7
500	949		CHASE ST	6

Street Zone Table

11/02/2001

FROM	TO	DIRECTION	STREET NAME	ZONE
3000	3499		CHASE ST	3
500	949		COFFEY ST	6
3000	3499		COFFEY ST	3
1800	4700	S	COLE ST	7
2400	3109		COLLIER ST	5
2426	2600		CONNECTION AVE	1
200	873		CORRILL ST	6
3400	4299		COSSELL RD	2
1200	1799	W	COURT ST	6
1700	1900	S	DENISON ST	7
300	1035		DIVISION ST	6
3000	3499		DIVISION ST	3
1001	2198		DR M L KING JR ST	4
500	799		DRAKE ST	4
500	599		DROVER ST	6
1400	1600	S	DUNLAP AVE	7
1	898	N	ELDER AVE	6
2	199	S	ELDER AVE	6
3700	3799		ELTZROTH ST	2
2200	2603	S	EMERSON AVE	1
1300	1699		EVERETT ST	6
1700	2300	S	EXECUTIVE DR	7
309	1598	N	EXETER AVE	2
301	398		EXETER DR	2
1051	1598	N	FALL CREEK PKWY E D	4
3800	4399		FARNSWORTH ST	5
1001	1098		FAYETTE ST	4
2400	3111		FOLTZ ST	5
3800	4199		GADSDEN ST	5
3400	3599		GARDEN AVE	2
1400	1500	S	GERRARD ST	7
1300	1333		GILLETTE ST	6
401	998		GRANDE AVE	2
2	899		HANCOCK ST	6
1	398	N	HARDING ST	6
2	999	S	HARDING ST	6
3000	3499	S	HARDING ST	3
2	599		HARRIS AVE	6
1300	1499	W	HENRY ST	6
600	799		HIATT ST	6
500	699		HOLLY AVE	6
2	1099	S	HOLMES AVE	6
1	1098	N	HOLT RD	2
2400	2999	S	HOLT RD	5
2600	2999		IDA ST	6
3800	4199		IRONTON ST	5
2100	3199		JACKSON ST	6

FROM	TO	DIRECTION	STREET NAME	ZONE
600	799		KAPPES ST	6
4900	5300	W	KELLY ST	7
800	1099		KENTUCKY AVE	6
2675	3173		KENTUCKY AVE	5
1	398		KOEHNE ST	6
500	849	W	LANGSDALE AVE	4
4800	5100	W	LEGRANDE AVE	7
501	1598	N	LIVINGSTON AVE	2
2400	3039	S	LOCKBURN ST	5
501	1598	N	LUETT AVE	2
1400	2300	S	LYNHURST DR	7
1401	1498		LYNN DR E	4
1401	1498		LYNN DR W	4
225	898		LYNN ST	6
501	698	N	LYONS AVE	2
2400	3149	S	LYONS AVE	5
1500	2300	S	MANHATTAN AVE	7
600	999		MARION AVE	6
1200	1799	W	MARKET ST	6
348	399		MARLETTE DR	4
2400	3089		MARS HILL ST	5
4800	5600	W	MARTHA ST	7
1700	2099	W	MARYLAND ST	6
2900	2999		MAYWOOD RD	5
901	998	N	MC CLURE ST	2
2400	3023	S	MC CLURE ST	5
1000	3299	W	MCCARTY ST	6
1700	1799		MCCORMICK ST	6
4800	5100	S	MECCA ST	7
4500	5100	S	MELROSE AVE	7
1600	1799	W	MIAMI ST	6
3400	4223	W	MICHIGAN ST	2
1550	2399	W	MICHIGAN ST	6
1	898		MILEY AVE	6
1601	1798		MILL ST	4
5000	5100	W	MILLER ST	7
4600	5600	W	MINNESOTA ST	7
1001	1198	N	MISSOURI ST	4
1900	1999		MOOREFIELD AVE	6
2800	2999	S	MOORESVILLE RD	5
2100	2799	W	MORRIS ST	6
2	1099	S	MOUNT ST	6
1300	1499	W	MURRAY ST	3
4100	4199	W	MURRY ST	5
4600	5100	W	NAOMI ST	7
2	199		NEAL AVE	6
3400	3535	W	NEW YORK ST	2

Street Zone Table

11/02/2001

FROM	TO	DIRECTION	STREET NAME	ZONE
1450	2099	W	NEW YORK ST	6
1600	1700	S	NORFOLK ST	7
3400	4299	W	NORTH ST	2
1401	1624		NORTHWESTERN AVE	4
1400	2399	W	OHIO ST	6
0	1598		OLIN AVE	2
800	2799		OLIVER AVE	6
4000	4199	W	PERRY ST	5
700	1199	S	PERSHING AVE	6
1	898	N	PERSHING AVE	6
1300	1500	S	PHILLPS DR	7
4700	5600		PLAINFIELD AVE	7
1001	1598		POLCO ST	2
1300	1400	S	RAGLAND ST	7
500	599		RANSOM ST	4
800	2899	W	RAY ST	6
4800	5100	W	RAYMOND ST	7
4800	5100	W	REGENT ST	7
2	199		REICHWEIN ST	6
1	498	N	REISNER ST	6
700	799	S	REISNER ST	6
1	298	N	RICHLAND ST	6
700	799	S	RICHLAND ST	6
600	1053		RIVER AVE	6
501	1574	N	ROCHESTER AVE	2
2400	3199		ROENA ST	5
2400	3199	S	RYBOLT AVE	5
401	1198	N	RYBOLT AVE	2
800	899		SADIE ST	6
2	99		SANATORIUM AVE	6
1400	1599		SAULCY ST	6
2	1199	S	SHEFFIELD AVE	6
1	898	N	SHEFFIELD AVE	6
700	799		SHEPARD ST	6
401	1598	N	SOMERSET AVE	2
3800	4199	W	SOUTHERN AVE	5
5101	5344	E	SOUTHERN AVE	1
1700	2399	W	ST CLAIR ST	6
0	1001		STADIUM DR	4
2800	2899		STANDARD AVE	6
1234	1499	W	SUMNER AVE	3
1700	1900	S	TAFT AVE	7
301	1598	N	TIBBS AVE	2
2900	3041	S	TIBBS AVE	5
800	899		TIP ST	6
501	598		TOMLINSON DR	2
2	199	S	TRAUB AVE	6

Street Zone Table

11/02/2001

FROM	TO	DIRECTION	STREET NAME	ZONE
1	898	N	TRAUB AVE	6
2	1199	S	TREMONT ST	6
1	898	N	TREMONT ST	6
1200	1499	W	TROY AVE	3
3300	4199	W	TROY AVE	5
2100	2399		TURNER AVE	6
2800	2899		VANDALIA AVE	6
3400	4261	W	VERMONT ST	2
1500	2099	W	VERMONT ST	6
2600	2999		VICTORIA ST	6
2100	2399	W	WALNUT ST	6
3640	3799	W	WALNUT ST	2
2	1199	S	WARMAN AVE	6
500	999		WARREN AVE	6
900	3499	W	WASHINGTON ST	6
2101	2198		WENDELL AVE	4
1	898	N	WHITE RIVER PKWY W	6
2	1099	S	WHITE RIVER PKWY W	6
3500	3699		WILCOX ST	2
1500	2099		WILCOX ST	6
2100	2499	W	WILKINS ST	6
1500	1600	S	WORTH ST	7
2800	3099	W	WYOMING ST	6

STANDARD OPERATING PROCEDURES
FOR
PUSH-PROBE SOIL SAMPLING

REVISED: November 13, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
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MATERIALS

Latex or nitrile gloves
Plastic sheeting
Plastic bags
Photoionization detector

1. Place clean piece of plastic sheeting over work area.

2. Place clean latex vinyl examination gloves on hands.

3. Obtain the soil sample in the dedicated, disposable, plastic liner from the push-probe operator.

4. Classify the soil samples for lithology, moisture content, odor, staining, color (Munsel Chart) and any other significant characteristic once the sampler is opened. Classify the soils using the U.S. Department of Agriculture system.

5. Samples will be collected from each two-foot interval unless specified in the site-specific SAP or QAPP.

6. Once the sample is classified, split the sample longitudinally into two equal portions: place one portion of the sample into a new, clean, sealed, and labeled plastic bag for field screening; place the other portion of the sample into a new, clean, sealed, and labeled sample container obtained from the laboratory.

7. Immediately place the laboratory container sample on ice in a cooler. Allow the field screening sample to sit for 10 to 15 minutes to allow organic vapors to equilibrate in the air space of the bag. All field screening samples must be treated identically to ensure accurate comparisons. For example, if one field screening sample is placed in the sun to warm then all are placed in the sun.

8. Field screen the volatilized sample using an appropriate, calibrated organic vapor detector. Push the tip of the detector into the plastic bag and record the highest reading.

9. At the completion of the field screening process, determine which, if any, of the sample intervals will be sent to the laboratory for analysis. All samples that are not sent to the laboratory will be disposed of in accordance with the site-specific SAP or QAPP.

10. Complete the chain of custody form with the appropriate sampling information.

11. Keep detailed notes in the field logbook per KERAMIDA's Field Logbook SOP.

STANDARD OPERATING PROCEDURES FOR FIELD SCREENING OF SOIL SAMPLES

REVISED: November 13, 2001

PREPARED BY:

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FIELD SCREENING OF SOIL SAMPLES

The soil samples collected for field screening and possible laboratory consideration should be classified in the field for lithology, moisture content, odor, staining and any other significant characteristics upon collection. Once the sample is classified, split the sample longitudinally into two equal portions: place one portion of the sample into a new, clean, sealed, and labeled plastic bag for field screening; place the other portion of the sample into a new, clean, sealed, and labeled sample container obtained from the laboratory.

Immediately place the laboratory container sample on ice in a cooler. Allow the field screening sample to sit for 10 to 15 minutes to allow organic vapors to equilibrate in the air space of the bag. All field screening samples must be treated identically to ensure accurate comparisons. For example, if one field screening sample is placed in the sun to warm then all are placed in the sun.

The samples are field screened using a photoionization detector (PID) or a flame-ionization detector (FID) depending on the suspected contaminants. FID instruments are more sensitive to the presence of heavier organic compounds such a polynuclear aromatic hydrocarbons. The selected instrument is properly calibrated in accordance with the methods presented in its respective operations manual. At a minimum, the instrument should be "bump checked" once per day. The samples are field screened by inserting the PID or FID's probe into the plastic bag, while the bag remains closed. The readings are recorded in the field log book.

At the completion of the field screening process, determine which, if any, of the sample intervals will be sent to the laboratory for analysis. All samples that are not sent to the laboratory will be disposed of in accordance with the site-specific SAP or QAPP.

The samples selected for laboratory analyses should remain in the cooler, maintaining a temperature of 4°C, until delivery to the selected laboratory with all proper chain-of-custody documentation. Detailed project notes are entered in the field logbook per KERAMIDA's Field Logbook SOP.

STANDARD OPERATING PROCEDURES
FOR
PUSH-PROBE GROUNDWATER SAMPLING PROCEDURES

REVISED: January 4, 2001

PREPARED BY:

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MATERIALS

Field book
Latex or nitrile gloves
Peristaltic pump (Geopump)
Polyethylene tubing
Silicon tubing
Sample bottles, labels, indelible markers, and clear tape
Ice and coolers
Pocketknife or scissors
Proper personal protective equipment (PPE)

1. Place clean latex vinyl examination gloves on hands.

2. Advance Geoprobe water sampler to the desired depth.

3. Assemble Geopump peristaltic pump per operating manual instructions, which accompany pump.

4. Silicon tubing is to be used only through the head of the peristaltic pump.

5. At the pump intake, attach polyethylene tubing to the silicon tubing. The polyethylene tubing should be long enough to extend to the bottom of the water sampler. At the pump discharge end of the pump, attach a short length of polyethylene tubing.

6. Turn on the pump and draw the water from the water sampler, through the pump, and into the sample container. If the sample is exceptionally silty, purge the system by running the water into a bucket until it clears enough for sampling.

7. Sample first for VOA, taking care to remove all air bubbles from the vial and minimize agitation. If bubbles persist, VOA samples may be taken in unpreserved 40ml vials. Note this on the chain of custody as this changes the holding time for the sample. Collect remaining organic samples then inorganic samples.

8. The recommended order of sample collection is as follows:

   In-situ measurements (e.g., temperature, pH, specific conductance)
   Field test kits (e.g., ferrous iron, hydrogen sulfide)
   Volatile organic analytes (VOA)
   Total organic halons (TOX)
   Total organic carbon (TOC)
   Semi-volatile organic analytes (SVOA)
   Total metals
   Dissolved metals

Phenols
Cyanide
Sulfate and chloride
Turbidity
Nitrate and ammonia
Radionuclides

9. Affix a sample label to each sample container and complete all required information (sample no., date, time, sampler's initials, analysis, preservatives). Record sample ID, date, and time in the field book. Complete chain-of-custody forms with appropriate sampling information.

10. Thoroughly decontaminate all non-dedicated and non-disposable equipment used. Discard used tubing, towels, gloves, etc., in a plastic bag.

STANDARD OPERATING PROCEDURES
FOR
MONITORING-WELL DESIGN AND INSTALLATION

REVISED: November 26, 2001

PREPARED BY:

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INTRODUCTION

Scope

This document outlines procedures for the design and installation of monitoring wells. For a more complete discussion of techniques, equipment, and the theory behind developing a ground water monitoring well system, refer to the related geotechnical standard operating procedures for drilling methods and borehole and ground water sampling. Driscoll (1986), in Groundwater and Wells, provides a good discussion of drilling methods and monitoring well installation. Freeze and Cherry (1979), in Groundwater, cover the theories related to ground water and the rationale used in deciding the placement of monitoring wells.

Monitoring wells, are installed in accordance with all applicable federal, state and local requirements. In Indiana, IDNR Code is used as guidance for monitoring well design and installation.

Objectives

The principal goal of the well installation is to provide ground water monitoring points that meets the objectives of the sampling and analysis plan. Ground water samples provide information on ground water quality and aid in the definition and tracking of ground water contaminant plumes. Secondary objectives of monitoring well drilling and installation may include the following:

- To provide water-level data so that potentiometric maps can be constructed and flow directions determined.
- To provide access to aquifers so that aquifer tests can be conducted.
- To provide soil and rock samples for geologic characterization of the study area.

Special Construction Adaptations

Monitoring well design and construction can be accomplished using a variety of techniques. Standard water well design and construction techniques are used, but significant modifications are required for adaptation to the specifications of a monitoring well. These modifications include provisions for the health and safety concerns inherent in hazardous waste site work, as well as special procedures to prevent the introduction of contaminants to the well. In addition, the design and construction techniques take into account the specific requirements of the monitoring program; that is, wells are designed to monitor only a limited, discrete zone within an aquifer.

Monitoring well construction techniques and materials must not alter the chemical or physical properties of the ground water being sampled. Wells must provide samples that are truly representative of the aquifers sampled, because test results are often subject to legal scrutiny. An understanding of the site geology and chemical properties of suspected contaminant determines the proper selection of construction techniques and materials.

WELL DESIGN

Data Collection

Before a ground water monitoring program is designed, available hydrogeologic background data are reviewed. As the objectives of the program are developed, the background database is referenced continually. This process ensures that the installed wells meet the objectives of the monitoring program.

Monitoring Well Elements

Monitoring wells are designed considering the following elements: 1) location, 2) diameter, 3) depth, 4) casing, 5) screen, 6) seal, and 7) well development. These seven elements are discussed below.

Well Location

Monitoring wells are located both spatially and vertically to ensure that ground water within the flow regime of concern is monitored. The number of wells and their location are generally determined by the objectives of the monitoring program.

The initial placement of monitoring wells depends on preliminary data such as anticipated ground water flow direction, behavior of suspected contaminants in the subsurface, and site geology. As the study progresses, and better data on flowpaths and site geology are generated, wells are more confidently located to intercept contaminants.

Wells are typically located in source areas as well as upgradient and downgradient of suspected contaminant sources. Upgradient wells are necessary to provide data on background water quality, as well as additional data points for water level gauging and determination of flow directions. Downgradient wells provide data on plume movement and potential impacts to sensitive receptors.

Well Diameter

The diameter of a monitoring well depends on the objectives of the monitoring program and on the size of the sampling device or pump used to withdraw a water sample. The most common sizes used are 2 inches and 4 inches in outside diameter (OD). Reasons for using smaller diameter wells include the following:

- Lower construction costs.
- Better adaptability to marginal water producing zones (i.e., less problem in removing water volumes than from a larger diameter well; shorter recharge time).
- Smaller quantities of water to be disposed of during development and purging.

Large diameter wells can be useful in permeable formations where monitoring may be followed by a remedial action. In this instance, the "monitoring" well becomes a "recovery" well to remove contaminated water from the ground for treatment. Larger diameter wells are also more versatile in conducting aquifer tests because they can accommodate larger pumps.

Depth

The depth of each monitoring well is determined by hydrogeologic conditions at the site being monitored and by the subsurface behavior of suspected contaminants. Many monitoring wells are completed in the first relatively permeable water-bearing zone encountered because potential sources of contamination are frequently near the ground surface. Care is taken to assure that the well is completed at a depth sufficient to allow for seasonal water table fluctuations.

Under confined or semi-confined (leaky) conditions, the water level will rise above the top of the water-bearing zone. In these instances, the well is completed (has a screened interval) within the water-bearing zone only and not above it.

Multiple Wells

If the water-bearing zone is thick (greater than 10 feet) or if contamination is known or suspected in deeper formations, multiple wells are typically completed at different depths. Multiple wells are also used to determining vertical hydraulic gradients. This is done by comparing water levels measured in the wells.

Depth-Discrete Wells

It is important that monitoring wells be constructed so that they are depth discrete, that is, so that they sample from one specific formation or zone without interconnection to others. To ensure that this requirement is met, provisions for the placement of a well sealant are made. Commonly used well sealants are pelletized bentonite and bentonite and cement grout. Sealants are placed around the well casing above and, if necessary, below the well intake.

Monitoring Well Construction Materials and Methods

Well-Casing and Screen Materials

The type of material used for a monitoring well can have a detrimental effect on the quality of the sample to be collected. The materials of choice should retain their structural integrity for the duration of the monitoring program under actual subsurface conditions. The materials should neither adsorb nor leach chemical constituents that would bias the collection of representative samples. Therefore, a strategy for ground water monitoring must consider the effects of contaminated water on well-construction materials.

Commonly used materials include polyvinyl chloride (PVC), stainless steel, polytetrafluoroethylene (PTFE; Teflon is a brand name) and others. Each material has advantages and disadvantages relating to factors such as cost, long-term structural integrity, chemical inertness under site conditions (including exposure to acids, caustic substances, and various organic solvents), and sorptive properties. For a detailed discussion on the selection of materials, see Barcelona, Gibb, and Miller (1983).

PVC

Polyvinyl chloride, with its low cost and widespread availability, is one of the most commonly used materials in monitoring wells. Though PVC is sufficiently sturdy for most applications, it has the disadvantage of leaching and sorbing certain organics. For many applications, however, such leaching does not present a problem. PVC is also subject to degradation by certain organics, including low molecular weight ketones, aldehydes, and chlorinated solvents (Barcelona et al., 1983). A cost-effective alternative is the use of PVC casing above the water table, and more inert materials (stainless steel or PTFE) below the water table.

Stainless Steel and PTFE

These materials are significantly more expensive than PVC, but offer some advantages. Stainless steel and PTFE are preferred for some long-term monitoring projects because of their chemical inertness and long-term structural integrity. Stainless steel (type 316 is preferred) is slightly susceptible to corrosion by halide solutions and certain acids, and can also leach metals under very corrosive conditions (Barcelona et al., 1983). PTFE is the most inert material available, but is also the most costly

Centering Guides

Where casing or screen assemblies over 40 feet long are installed in holes having diameters 2 inches or larger than the outside diameter of the casing, centering guides (centralizers) are typically installed. Such guides not only hold the casing in the center of the hole, but offer support, against bending and buckling because of axial and unbalanced horizontal loads. Centering guides are essential for centering casing and screens in preparation for grouting and gravel pack installation. The guides are placed at the bottom and the 20- to 40-foot intervals up the borehole.

Well Screen Characteristics

All well screens should allow unobstructed entry of formation water. The purpose of the screen is to prevent fine materials from entering the well. Two factors are important in enhancing a sediment-free flow: 1) the slot size of the well screen and 2) a filter pack compatible with the selected screen size.

Another important consideration is the length of the well screen. Several factors influence this decision:

- Thickness of the monitored formation.
- Objective of the monitoring program.
- Nature (e.g., density) of the contaminant(s) monitored.

Well Seal

It is critical that the screened portion of each monitoring well access ground water from a specific depth interval. Vertical movement of ground water in the vicinity of the intake can greatly influent sample quality. Rain water can infiltrate backfill, potentially diluting or contaminating the sample. Vertical seeping of leachate along the well casing can also produce unrepresentative samples. Most important, the creation of a conduit in the annulus of the monitoring well can hasten the spread of contamination; hence the

necessity for proper well sealing techniques. When a telescoping well is drilled to prevent cross-contamination between formations, it is imperative that a seal be placed at the top of each telescoped section.

Several techniques are available for sealing monitoring wells and abandoned boreholes. Virtually all of these methods involve pumping grout (cement, bentonite, or combinations of both) down the borehole. Typically, bentonite in pellet form is placed above the gravel pack to occupy an interval of one to several feet. This is followed by the placement of grout. The grout is pumped in from just above the bentonite to several feet below the ground surface. A cement plug (collar) can then be placed around the casing and mounded to divert surface drainage from the casing area. This collar typically extends below the frost line.

WELL INSTALLATION

Drilling Methods

Inspecting and Cleaning Equipment

The construction of monitoring wells should be accomplished in a manner that minimizes the introduction of contaminants and the disturbance of subsurface materials. Care is taken to steam clean the drill rig and all other equipment and well components before they are transported to the site. Repeated cleaning of drilling equipment and well constructed materials at the site also is necessary, especially before drilling at a new on-site location. The drill rig is checked repeatedly for oil and hydraulic fluid leaks. These precautions are essential to ensure that trace contaminants from the drilling process are not introduced to the monitoring wells.

Choosing a Drilling Method

The selection of a drilling method best suited for a particular installation is based on the following factors, listed in order to importance:

1. Hydrogeologic information: types of formations, depth of drilling, and depth of desired screen setting below water table.
2. Types of contaminants suspected.
3. Location of drilling site (e.g., dry land or inside a lagoon).
4. Design of monitoring well desired.
5. Availability of drilling equipment.

The principles of operation and the advantages and disadvantages of the more common types of drilling techniques suitable for constructing ground water monitoring wells are discussed by Scalf (1981), and Barcelona, et al. (1983).

Installation Procedures

Pre-emplacement Activities

Care must be given to the preparation of the casing and well screen materials before their installation. As a minimum, both should be washed with detergent and rinsed thoroughly with clean water. Steam cleaners and high pressure, hot water cleaners effectively remove cutting oils and lubricants left on casings and screens after their manufacture. To ensure that these and other sampling materials are protected from contamination, some type of temporary storage cover, such as plastic sheeting, is recommended. Well material thermetically sealed at manufacture, does not require cleaning prior to installation as long as seal is not breached prior to emplacement.

Well Emplacement

After drilling the borehole to the desired well depth, the borehole is reamed (cleaned out) and the well prepared for emplacement. The screen and casing sections are joined and slowly lowered into the borehole. Threaded pipe with O-ring seals are simply twisted together. Threaded joints without O-ring seals are wrapped with Teflon tape to inhibit leakage. Threaded joints are preferred to joints requiring solvent. Solvents should never be applied to monitoring well casing. It is imperative that the well assembly not be dropped to the bottom of the borehole, because the screen and casing could be damaged.

Placement of the well screen should be as precise as project objectives warrant. If it is essential that the screen intersect a specific interval, field personnel should ensure that this point is reached. This may entail removing the well and recleaning the borehole.

Backfilling the Annulus

This procedure generally involves three operations: 1) placement of the filter pack, 2) grouting (sealing), and 3) installation of the concrete plug. The filter pack is placed around the well screen in the borehole annulus to a depth approximately one to two feet above the screened interval. Emplacement of the filter pack can be accomplished by jetting or washing down the pack, pouring the pack material down the annulus (in shallow holes only), or by allowing cave-in of the in-site formation. If performed, these activities are recorded in the field notebook.

The grout seal (bentonite or a combination of bentonite and cement) is emplaced in the borehole annulus above the filter pack to the depth of the frost line in one continuous operation. The grout may be placed by means of a tremie pipe and pump. The grout is allowed to set up before the concrete collar (plug) is installed at the surface.

Well Security

To provide well security, protective covers are placed over the wellhead. These protective covers may be a steel or a flush-mounted traffic-rated road box. The well casing is centered around and embedded in the concrete plug (stick-up cover). The stick-up protective casing is of sufficient diameter to allow easy access to the well casing. Drain hole(s) are made in the protective casing to facility drainage. Locking caps are placed on the tops of the well casings on both stick-up and flush-mount wells. As an alternative, locks may be placed on the outer protective casings.
If the stick-up monitoring well is in a location accessible to vehicular traffic, bumper guards are to be installed around the well. These guards should be constructed of steel pipes filled and embedded in concrete. Several guards may be used to protect the well.

WELL DEVELOPMENT

Rationale

Removing the Mudcake

During the drilling process, fine-grained materials are forced into the open borehole, forming a mudcake that reduces the hydraulic conductivity of the materials opposite the screened portion of the well. To allow free entry of water into the monitoring well and to maximize well yields (a particularly important factor for low-yield geologic materials), this mudcake must be broken down and its particles removed from the well.

Filtering and Preserving Samples

Additionally, monitoring wells must be developed to provide water samples free of suspended solids. At the time of collection for metal ions and other inorganic constituents, water samples must be filtered and preserved. Improperly developed monitoring wells will produce samples containing suspended sediments that will both bias the chemical analysis of the collected samples and frequently cause clogging of the field filtering mechanisms (Barcelona et al., 1983).

Methods

Productive Aquifers

The development procedures used for monitoring wells are similar to those used for production wells. They include: 1) creating alternately high and low velocities of water flow in the well to break down the mudpack or loosen fine particles and 2) pumping to remove the particles from the well and the immediate area outside the well screen. Successful development methods for monitoring wells installed in productive aquifers include the following:

- Surge block.
- Bailing.
- Surging by pumping (water or air).

Unproductive Aquifers

Development procedures for monitoring wells in relatively unproductive geologic materials are somewhat limited. Because these materials have a low hydraulic conductivity, surging of water in and out of the well casing is extremely difficult. Moreover, when the well is pumped, the entry rate of water is inadequate to effectively remove fine particles from the borehole and from the gravel pack material outside the well screen.

In this type of geologic setting, clean water is sometimes circulated down the well casing, out through the screen and gravel pack, and up the open borehole before grout is placed in the annulus. Relatively high water velocities can be maintained, and the mudcake from the borehole wall can be broken down effectively and removed. (Because of the low hydraulic conductivity of geologic materials outside the well, a negligible amount of water will penetrate the formation being monitored.) Immediately following this procedure, the grout is emplaced and the well pumped to stabilize the formation around the outside of the screen and to ensure that the well will produce fairly clear water.

DOCUMENTATION

The well design and installation methods are documented in the field and written report. The following information relating to monitoring well installation:

- Data collection and review, including site history and well-placement process (written report only).
- Drilling method(s) and procedures.
- Well construction -- including specifications.
- Description of seal and backfill of annulus.
- Description of surface protection for the wellhead.
- Lithologic logs with description.
- Well development procedures.
- Well construction diagram, to scale (written report only).

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STANDARD OPERATING PROCEDURES
FOR
MONITORING WELL SAMPLING

REVISED: November 26, 2001

PREPARED BY:

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MATERIALS LIST

Sampling notebook
Groundwater monitoring data log forms
Well key
Adjustable wrench or manhole wrench
Plastic sheeting
Photoionization detector (PID) or Flame-ionization detector (FID)
Flashlight or mirror
Electronic water level indicator and oil/water interface probe
Bailer(s)
Pump (for purging), polyethylene tubing, and battery
Buckets
Nylon or polyethylene rope or monofilament
pH, conductivity, and temperature meters
Sample bottles, labels, indelible markers, and clear tape
Ice and coolers
Geopump
0.45-micron filters (for dissolved metals analysis)
Teflon and polyethylene tubing
Pocketknife or scissors
Proper personal protective equipment (PPE)
Nitrile gloves
Vinyl gloves
Decontamination supplies (Deionized water, Alconox, brushes, bucket, and paper towels)
Toolbox (Wrenches, screwdrivers, and hammer)

SAMPLE COLLECTION

1. Verify locations of wells and parameters to be analyzed as specified in the sampling plan.

2. Prepare field log book in accordance with SOP for Note Taking and Log Book Entries, and include a description of site, weather, participants, and other relevant observations.

3. Complete the groundwater monitoring data log (Figure 1) for each monitoring well or sampling point.

4. Using Level C protection, unless historical data allow downgrading to Level D protection equipment, survey around the base of the well and wellhead with a PID; remove well cap, place probe of PID in wellhead, and record PID response in field book. Survey the

breathing zone to ensure that the level of personal protection is appropriate. Note observations in the groundwater monitoring data log.

5. Inspect water surface in the well, using a flashlight if necessary. Note any observable floating contaminants and record observations in the field book.

6. Measure and record the extent of protrusion of the top of the well casing above the ground. If well is a flush mount, measure and record the depth of the top of the well casing below the ground. Measure the casing inside diameter (CID) and record in inches.

WATER LEVEL MEASURMENTS

7. Liquid-level measurements and well sampling should start with the upgradient (or clean wells) and proceed downgradient (in the order from least to most contaminated) for the remaining monitoring wells.

8. From the top of the casing, measure the depth (in feet) to water (DTW) with an electronic water level indicator and record on the groundwater monitoring data log. Static water level measurements must be recorded from the surveyor's mark at the top of the casing, if present. If no mark is present, mark a location with a metal file or indelible marker on the casing for future reference. Measure and record in feet the total depth (TD) to the bottom of the well (TD). All well depth measurements should be taken to the nearest hundredth (0.01) of a foot.

9. Check for the presence and thickness of light non-aqueous phase liquids (LNAPLs) and dense non-aqueous phase liquids (DNAPLs) using a free product/water interface probe in accordance with the RCRA Groundwater Monitoring Technical Enforcement Guidance Document (September 1986).

10. Calculate the volume of water in gallons in one well casing:

    For a 2-inch well:

    $$vol = [(TD - DTW) * 0.16]$$

    For a 4-inch well:

    $$vol = [(TD - DTW) * 0.65]$$

    For a 6-inch well:

    $$vol = [(TD - DTW) * 1.47]$$

    or calculate the volume using the formula:

    $$vol = 0.04\ d^2h$$

    where:

    $h = TD - DTW$ in feet

    d = diameter of well in inches

WELL PURGING

11. Remove at least three well volumes to purge the well before sampling. To determine the number of gallons required to purge the well, multiply the number of gallons in one well volume (calculations above) by three. Record the minimum purge volume on the groundwater monitoring data log.

12. Assess for the presence of LNAPL by carefully lowering the bailer into the well taking care to prevent the bailer from sinking below the water surface. Remove bailer and inspect it for LNAPL. If required by the sampling plan, secure samples of the LNAPL for analysis and put the samples on ice.

13. Continue bailing at a uniform rate. Each time, empty the bailer into a calibrated container for measurement. After removing the minimum purge volume (at least three well volumes), dispose of the contents in an appropriate container for later disposal in compliance with federal and state laws.

14. A pump may be used in place of a bailer to purge wells when the situation warrants (see Table 1).

Table 4-1
Well Evacuation Equipment and its Uses

Method	Best Use
Peristaltic Pump (e.g., Geopump)	Water table within suction lift. Used on wells that require less than approximately 4 gallons of water for adequate evacuation. Good for slow recovery wells. Not recommended for volatile organic compound analysis.
Centrifugal Pump	Water table within suction lift on wells that have moderate to high recovery rates. Cannot be used for sampling.
Bailer (Teflon, PVC, polyethylene, or stainless steel)	On slow recovery wells and on wells where access is difficult.
4-inch Electric Submersible Pump	On wells where pump is permanently installed or deep, large diameter wells where use of low yield pumps not practical.
Bladder Type (e.g., Geotech, Well Wizard)	May be used to sample for volatile organic compound analysis. Water table below suction lift. Used when water level recovery rates are moderate to high.

15. If a well is bailed dry before removing three well volumes, allow well to recharge and proceed to sample. Wells will not be bailed dry if doing so will cause recharge water to enter the well in a cascading fashion, but instead will be bailed at a rate which will minimize the agitation of recharged water. If full recovery exceeds 2 hours, sample as soon as sufficient volume is available.

SAMPLE COLLECTION

16. All samples should be collected using a bailer unless an alternate method (i.e., bladder pump) is specified in the SAP or QAPP.

17. While collecting samples, lower the bailer slowly to avoid agitating the water. Sample first for VOCs, taking care to remove all air bubbles from the vial and minimize agitation. Collect remaining organic samples then inorganic samples.

19. The recommended order of sample collection is as follows:

In-situ measurements (e.g., temperature, pH, specific conductance)
Field test kits (e.g., ferrous iron, hydrogen sulfide)
Volatile organic analytes (VOA)
Total organic halides (TOX)
Total organic carbon (TOC)
Semi-volatile organic analytes (SVOA)
Total metals
Dissolved metals
Phenols
Cyanide
Sulfate and chloride
Turbidity
Nitrate and ammonia
Radionuclides

20. Affix a sample label to each sample container and complete all required information (sample no., date, time, sampler's initials, analysis, preservatives). Record sample number, well number, date, time, and the sampler's initials on the sample tracking form and in the field book. Complete chain-of-custody forms with appropriate sampling information.

21. Inspect the well for soundness of protective casing and surface ground seal. Record water color, suspended particulates, discoloration of casing, casing diameter and material, any unusual occurrences during sampling, and any pertinent weather details on the groundwater monitoring data log.

22. Thoroughly decontaminate all non-dedicated and non-disposable equipment using the SOP for Decontamination of Sampling Equipment. Discard used bailer cord, disposable bailer, plastic sheeting, towels, gloves, etc., in a plastic bag.

FILTERING OF METAL SAMPLES

A. Assemble Geopump peristaltic pump per operating manual instructions, which accompany pump.

B. Silicon tubing is to be used only through the head of the peristaltic pump.

C. At the pump intake, attach polyethylene tubing to the silicon tubing. The polyethylene tubing should be long enough to extend to the bottom of the bailer. At the pump discharge end of the pump, attach the 0.45-micron filter to the Silicon tubing.

D. Turn on the pump and draw the water from the bailer, through the pump and filter, and into the sample container.

E. Disassemble the pump head and discard the polyethylene and silicon tubing in a plastic bag.

STANDARD OPERATING PROCEDURES
FOR
SOIL SAMPLING USING HAND TROWEL

REVISED: February 18, 1999

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
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MATERIALS

Hand trowels (stainless steel)
Nitrile or surgical gloves
Tray, mixing pans, or Ziplock® plastic bags
Stainless steel spoons
Aluminum foil
Sample containers
Sample labels and indelible marker
Photoionization detector (PID)
Saranex or Tyvek suit

PROCEDURES

1. Wear clean latex vinyl gloves and other personal protective equipment as necessary. Nitrile gloves may only be used for hazardous sampling.

2. Decontaminate the sampling trowel per KERAMIDA's Standard Operating Procedures (SOPs) for decontamination of sampling equipment.

3. Remove all surface vegetation (if applicable) with the trowel or another decontaminated tool (i.e., shovel).

4. Place blade tip of trowel into soil and push firmly until the desired depth is reached. If sampling a loose gravelly or sandy soil, carefully remove the trowel so that the blade approaches a position to prevent soil from falling off the blade. If sampling a stiff silty or clayey soil, it will probably be necessary to remove the trowel and reinsert it to further loosen the soil. When the soil has been sufficiently loosened, lift a portion of the soil out with the blade and place into two sealed plastic bags.

5. Shallow subsurface soil samples can be collected by digging a hole or trench (i.e., using a shovel, backhoe, etc.), then removing the loose soil and collecting a soil sample at the desired depth. If a trowel is used to dig the initial hole, properly decontaminate the trowel before collecting the soil sample or use a separate decontaminated trowel for sample collection. Place soil from the trowel into two bags sealed plastic.

6. One bag of soil should be screened with the PID and the resultant readings should be recorded in the field log book per KERAMIDA's SOPs for field screening soil samples.

7. If more soil is needed to provide sufficient sample volume, reinstate trowel at sample location and retrieve as before.

8. Examine contents of the second bag and remove rock, cobble, and organic debris, such as roots, grass, and woody material, with clean latex vinyl gloves.

9. For volatile organic samples, transfer soil directly into sample container with clean latex vinyl gloves, choosing your sample from the bag to ensure homogeneity.

10. Before filling other sample containers, separate clumps of dirt and mix the contents of the bag to a homogeneous particle size and soil texture.

11. Transfer the bag contents to the appropriate laboratory provided glass sample containers using clean latex vinyl gloves.

12. The sample container should be sealed, labeled, and placed on ice in a cooler maintaining a temperature of 4°C., in anticipation of laboratory analysis.

13. Complete chain-of-custody form with appropriate sampling information.

14. The samples selected for laboratory analysis should remain in the cooler until delivery to the laboratory with all proper chain-of-custody documentation.

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STANDARD OPERATING PROCEDURES
FOR
THERMO ENVIRONMENTAL 580B PHOTOIONIZATION DETECTOR
CALIBRATION PROCEDURE

REVISED: September 21, 2001

PREPARED BY:

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Thermo Environmental 580B Photoionization Detector Calibration Procedure

The PID must be calibrated on a daily basis prior to use, and at any time during the day if the field readings are suspect. The calibration information must be noted in the field logbook per KERAMIDA's Field Logbook SOP.

The procedures listed below are valid for both cylinder and bag standards. The sequence requires both zero gas and span gas to be used. Span gas can be either contained as a cylinder or bag, in either case the exact concentration used must be known. This concentration will be entered in to the 580 when the program provides its entry. With respect to zero gas, there are several choices. Either a certified zero air standard in a cylinder or a charcoal scrubber can be used. Another approach which could be used in an emergency is to use room air unscrubbed. Caution must exercised when room air is used.

Prior to calibration or using the equipment in the field, ensure that the battery is fully charged and in good condition. In the event the batteries are leaking, please return to the manufacturer for maintainence.

Calibration Routine

1. Power-up instrument. In the field use battery power and in the office use the power plug.
2. Depress ON/OFF key to ignite the lamp and initiate the sample pump.
3. Depress Mode/Store key.
4. Depress -/CRSR key in response to Log this value? prompt.
5. Depress -/CRSR key to select Parameters Mode from the Main Menu.
6. Depress +/INC key to advance thru the Run Mode selection parameter prompt.
7. Depress +/INC key to advance thru the Auto Logging Mode selection parameter prompt.
8. Depress +/INC key to advance thru the Average Time selection parameter prompt.
9. Depress +/INC key to advance thru the Alarm Setting paramater prompt.
10. Depress +/INC key to advance thru Lamp Selection parameter prompt.

11. Depress +/INC key to advance thru Response Factor Setting parameter prompt.

12. Depress Response key to initiate calibration sequence.

13. Depress Reset -/CRSR key to decline restoration of the backup calibration.

Connect outlet of calibration tubing assembly to the Model 580B Detector Inlet.

14. Introduce zero air to Model 580B by opening flow regulator or attaching the carbon scrubber unit.

15. Depress Reset key to "zero" Model 580B.

16. Close flow regulator or remove the carbon scrubber unit.

17. Span calibration assumes that a span gas of 250 ppm isobutlyene is being used.

18. Simultaneously depress Reset and -/CRSR keys to activate the movable cursor.

19. Repeat step 18 until the cursor is at the ones place.

20. Simultaneously depress Reset and +/INC keys to increment the ones place value.

21. Repeat step 20 until the ones place value reads 0.

22. Repeat step 18 to move cursor to the tens place.

23. Repeat step 20 until the tens place value reads 5.

24. Repeat step 18 to move cursor to the hundreds place.

25. Repeat step 20 until the ones place value reads 2.

26. Repeat step 18 to move cursor to the thousands place.

27. Repeat step 20 until the ones place value reads 0.

28. The LCD should now read:

29. Span PPM = 0250
" + " to Continue

30. Depress +/INC to accept the span concentration value.

31. Connect isobutylene cylinder (250 ppm) to calibration tubing assembly.
32. Connect outlet of calibration tubing assembly to the Model 580B detector inlet.
33. Introduce isobutylene standard to Model 580B by opening flow regulator.
34. Reset key to "calibrate" Model 580B.
35. Depress +/INC key in response to "Reset" to calibrate message.
36. Depress Mode/Store to return to the Run Mode.

The instrument is now calibrated and ready to take measurements. Additional information on the 580B PID is available in the manufacturers service manual.

STANDARD OPERATING PROCEDURES FOR DECONTAMINATION OF SAMPLING EQUIPMENT

REVISED: September 21, 2001

PREPARED BY:

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MATERIALS

Tap water
Deionized or distilled water
10% nitric acid solution (mixed in squirt bottle)
Scrub brushes (short- and long-handled)
buckets or trash cans
Nonphosphate detergent (Liquinox or Alquinox)
Pesticide-grade solvent (isopropanol, acetone, or hexane in spray bottle)
Aluminum foil
Polyethylene plastic sheeting, plastic garbage bags, and Ziploc® plastic bags
Paper towels or Kimwipes®
Nalgene squirt bottles
Wire brush
Duct tape
Personal protective equipment (e.g., nitrile gloves, eye protection, skin protection)

Note: All sampling equipment must be decontaminated before shipment to the office.

LABORATORY DECONTAMINATION PROCEDURES

Equipment Used for Sampling Environmental Media Containing Organic or Inorganic Compounds and Metals.

1. Place polyethylene sheeting on firm, flat surface to collect spillage during decontamination. Mix solution of nonphosphate detergent and tap water in bucket.

2. Wear appropriate personal protective equipment to prevent exposure to skin, eyes, and respiratory system.

3. Wipe contaminated sampling equipment with paper towels to remove residual soils or gross contamination. Heavy oils or grease may be removed with paper towels soaked with solvent (acetone or methanol).

4. Disassemble sampling equipment (e.g., split-spoon samplers, bailers). Wash equipment thoroughly with nonphosphate soap and hot tap water solution. Teflon bailers must be disassembled and the inside washed with long-handled bottle brush or short-handled brush pulled through the bailer with rope.

5. Rinse the equipment with hot tap water.

6. If the equipment will be used to collect samples for metals analysis, follow tap water rinse with a 10% nitric acid solution rinse. Metal equipment (e.g., bucket augers) should not be rinsed with nitric acid solution because of problems with oxidizing the metal surfaces. Collect the nitric acid rinse in a separate bucket. Rinse the equipment with tap water.

7. Thoroughly rinse the equipment with deionized water.

8. Spray the equipment with solvents (acetone or methanol followed by hexane) and allow to completely air dry. The solvent equipment rinse must be collected in a separate bucket.

9. Rinse the equipment with analyte-free water using at least five times the volume of solvent used in the previous step.

10. After the equipment has been allowed to completely air dry, each piece must be individually wrapped with aluminum foil (shiny side out), and then wrapped in plastic. **Note: Decontamination solvents may introduce contaminants to environmental samples.** It is very important to ensure that the equipment has completely dried before wrapping the equipment for storage.

11. Label each piece of equipment with the date of decontamination, the initials of decontamination personnel, and the type of decontamination solutions used. This will allow other personnel to select the correct piece of sampling equipment for future use.

FIELD DECONTAMINATION

1. Field sampling equipment should be decontaminated prior to and after each use to minimize the potential for cross-contamination.

2. Place polyethylene sheeting on firm, flat surface (if available) to collect spillage during decontamination (when required). Mix solution of liquinox and distilled water in bucket. A liquinox and tap water solution can be used for push-probe sampling equipment.

3. Wear appropriate personal protective equipment to prevent exposure to skin, eyes, and respiratory system.

4. Wipe contaminated sampling equipment with paper towels to remove residual soils or gross contamination. If necessary, heavy oils or grease may be removed with paper towels soaked with solvent (acetone or methanol).

5. Disassemble sampling equipment (e.g., push-probe samplers, bailers). Wash equipment thoroughly with nonphosphate soap and distilled water (the water for push-probe

equipment) solution. Teflon bailers must be disassembled and the inside washed with long-handled bottle brush or short-handled brush pulled through the bailer with rope.

6. Double rinse the equipment with distilled water (tap water for push-probe equipment).

7. Note any discrepancies from standard decontamination procedures in the project field notebook.

DISPOSAL OF DECONTAMINATION SOLUTIONS

Laboratory Solutions

Decontamination solutions (e.g., washwater, nitric acid rinsewater, and solvent rinsewater) must be handled appropriately. Nonphosphate wash water can be disposed of directly to the municipal sanitary sewer. Nitric acid rinsewater solution must be neutralized with baking soda, diluted to normal pH (i.e., 6.0 to 8.0) and disposed of in the sanitary sewer. Solvent rinsewater should be negligible because of the use of small amounts. Solvents should be allowed to evaporate in a well-ventilated area or under a laboratory hood. Paper towels soaked with solvent should be allowed to dry and be disposed of in a general waste container.

Field Solutions

Field decontamination presents unique problems in disposal of decontamination solutions. Nonphosphate wash water must be containerized and properly disposed of in the facility wastewater treatment system or otherwise in accordance with state and federal laws. The generation of solvent rinsewaters should be minimal in field decontamination. Solvents should be collected in separate buckets and allowed to evaporate.

Paper towels soaked with cleaning solvent should be allowed to air dry and be disposed of with solid waste. Under no circumstances should any decontamination solution be disposed of by pouring it on soil surfaces.

STANDARD OPERATING PROCEDURES
FOR
FIELD QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

REVISED: November 26, 2001

PREPARED BY:

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MATERIALS

Ice and cooler
Sample containers
Sample container labels
Indelible marker or pen
Clear tape
Laboratory deionized water
Non-phosphate detergent (Liquinox or Alconox)
Pesticide grade solvent (isopropanol, acetone, or hexane) in a spray bottle (optional, reference QAPP)
Clean sampling equipment
Chain-of-custody forms
Custody seals

PROCEDURES

1. Select the appropriate glassware for the field Quality Assurance/Quality Control (QA/QC) samples from those provided by the analytical laboratory. Refer to the KERAMIDA Standard Operating Procedure for Sample Container, Preservatives, and Holding Times to determine the appropriate bottles to use. As an alternative, contact the analytical laboratory for this information.

2. Field QA/QC samples can include the following:

   trip blanks
   duplicate samples
   equipment blanks
   field blanks
   matrix spike/matrix spike duplicates

3. Pre-prepared volatile organic compound (VOC) trip blanks should be provided by the analytical laboratory for all projects where VOCs are analytes. Trip blanks should accompany the sample bottles from the analytical laboratory to the site and accompany the sample containers at all times during the sampling event. One trip blank for each batch of samples, or for each day of sampling activities, should be submitted to the analytical laboratory for analysis of VOCs only.

4. One set of duplicate samples should be collected for every 10 samples of each matrix (e.g., soil and groundwater) collected during each independent sampling event. Duplicates should be collected by equally dividing the material (e.g., soil, sediment, ground water) into the two sample aliquots. Solids (e.g., soil) sample bottles should be filled by alternating between the two sample bottle sets. The procedures outlined in KERAMIDA's Standard Operating Procedure for collection of solids (e.g., soil) samples

should be followed. Groundwater duplicates should be collected by alternately filling the two sample bottle sets from the same sampling vessel (e.g., bailer). The procedures outlined in KERAMIDA's Standard Operating Procedure for collection of groundwater samples should be followed. Field duplicate samples should be analyzed for all the analytes that are being analyzed for during the sampling event. Reference the Sampling and Analysis Plan for a complete list of analytical parameters.

5. One equipment blank should be collected in the field at a rate of one per type of equipment per decontamination event not to exceed one per day. If dedicated sampling equipment is used, reference the QAPP for any site-specific equipment blank requirements. Typically equipment blanks are not necessary for this type of sampling. If field decontamination of sampling equipment is required, the equipment blanks should be prepared after the equipment has been used and field-decontaminated at least once. Equipment blanks should be prepared by filling or rinsing the precleaned equipment with analyte-free water (deionized) and collecting the rinsate in the appropriate sample containers. The samples should be labeled, preserved, and filtered (if required) in the same manner as the collected environmental samples. Equipment blanks should be analyzed for all the analytes that the environmental samples are being analyzed for. Decontamination of the equipment following equipment blank procurement is not required.

6. One field blank should be collected in the field at a rate of one per every 10 samples. Field blanks should be prepared by filling the appropriate sample container with deionized water. The samples should be analyzed for all the analytes that the environmental samples are being analyzed for. Reference the QAPP to determine the need for field equipment blanks.

7. All QA/QC samples should be submitted to the analytical laboratory with unique sample numbers. Therefore, the QA/QC samples and duplicate samples should be labeled as separate environmental samples following the same numbering scheme used during that particular sampling event. However, on KERAMIDA's copy of the chain-of-custody form and in the field notebook the QA/QC samples should be clearly identified. Reference the QAPP for the proper sample numbering scheme.

NOTE: These procedures may not be applicable for all circumstances. For instance, some states or EPA regions may have more stringent or different QA/QC requirements, which should be followed in those cases. Also, always check the QA/QC requirements for the specific program of interest (e.g., VRP, LUST). Reference the QAPP for any site-specific requirements.

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STANDARD OPERATING PROCEDURES
FOR
SAMPLE CONTAINER, PRESERVATIVES, & HOLDING TIMES

REVISED: November 26, 2001

PREPARED BY:

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SCOPE

This operating procedure describes the ways and means of selecting the appropriate sampling containers for environmental sampling.

APPLICATION

The purpose of this procedure is to ensure that sample volumes and preservatives are sufficient for analytical services required under EPA-approved protocols.

MATERIALS

Sample containers
Sample container labels
Indelible (waterproof) markers or pens
Clear tape
Ice and cooler

PROCEDURES

1. Refer to Table 1 for minimum sample volume and glassware types required for sampling a particular matrix and compound class.

2. Select the appropriate glassware (i.e., bottles or jars) from those provided by the analytical laboratory. Verify that the analytical laboratory has provided the correct number of sample containers and the correct preservatives for the project per the sampling plan requirements.

3. The analytical laboratory should always provide extra sample containers for all analytical parameters in case of breakage or other problems encountered in the field. This is particularly true for VOC sample containers (i.e., 40-ml vials).

4. Report any discrepancies or non-receipt of specific types of sample containers to the Quality Assurance Officer immediately. Arrangements should be made with the laboratory to immediately ship the missing or additional sampling containers to the project site.

5. Apply sample labels to the sample containers.

6. Information on the sample labels should contain the following data:

   Site/Project name
   Project/Task number
   Unique sample identification number
   Sample date
   Time of sample collection (military system, e.g., 0000 to 2400 hours)
   Analytical parameters
   Preservative
   Sampling personnel

Table 1
Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Matrix	Required Volume (mls)	Sampling Container Size and Type	Preservatives	Maximum Holding Time
Bacteria:					
Coliform, fecal		100	Sterile	Cool, 4 C	6 hours
Inorganics:					
Acidity		100	P, G	Cool, 4 C	14 days
Alkalinity		100	P, G	Cool, 4 C	14 days
Ammonia		500	P, G	4 C, H2SO4 pH <2	28 days
BOC		1000	P, G	Cool, 4 C	48 hours
CBOD		1000	P, G	Cool, 4 C	48 hours
COD		50	P, G	4 C, H2SO4 pH <2	28 days
Chloride		100	P, G	Cool, 4 C	28 days
Chlorine, Residual**		50	P, G	Cool, 4 C	24 hours
Color		100	P, G	Cool, 4 C	48 hours
Cyanide, Total & Amen.		1000	P, G	4 C, NaOH pH >12	14 days
Fluoride		100	P only	Cool, 4 C	28 days
Hardness, Total & Ca		50	P, G	HNO3 pH <2	6 months
pH		100	P, G	Cool, 4 C	24 hours
TKN		200	P, G	4 C, H2SO4 pH <2	28 days
Nitrate		50	P, G	Cool, 4 C	48 hours
Nitrate+Nitrite		50	P, G	4 C, H2SO4 pH <2	28 days
Nitrite		50	P, G	Cool, 4 C	48 hours
Odor		500	G only	Cool, 4 C	24 hours
Oil & Grease		1000	G only	4 C, H2SO4 pH <2	28 days
Ortho Phosphorus		250	P, G	Cool, 4 C	48 hours
Oxygen, Dissolved		no headspace	P, G	Cool, 4 C	24 hours
Phenol		500	P, G	4 C, H2SO4 pH <2	28 days

P = Plastic G = Glass Teflon = Teflon-lined Cap

Table 1 (continued)
Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Matrix	Required Volume (mls)	Sampling Container Size and Type	Preservatives	Maximum Holding Time
Phosphorus, Total		100	P, G	4 C, H2SO4 pH <2	28 days
Solids, Total		100	P, G	Cool, 4 C	7 days
Solids, Dissolved		100	P, G	Cool, 4 C	7 days
Solids, Suspended		100	P, G	Cool, 4 C	7 days
Solids, Settleable		1000	P, G	Cool, 4 C	48 hours
Solids, Volatile		1000	P, G	Cool, 4 C	7 days
Silica		100	P only	Cool, 4 C	28 days
Specific Conductance		200	P, G	Cool, 4 C	28 days
Sulfate		200	P, G	Cool, 4 C	28 days
Sulfide		200	P, G	NaOH + ZnAc	7 days
Surfactants (MBAS)		500	P, G	Cool, 4 C	48 hours
Turbidity		100	P, G	Cool, 4 C	48 hours
Metals:					
Hex. Chromium		100	P, G	Cool, 4 C	24 hours
Mercury		100	P, G	HNO3 pH <2	28 days
All Other Metals		200	P, G	HNO3 pH <2	6 months
Organics:					
*Acrolein/Acrylonitrile		no headspace	3 G vials	Cool, 4 C pH 4-5	14 days
Acid Extractables		1000	G Teflon	Cool, 4 C	7 day extension
Base Neutrals		1000	G Teflon	Cool, 4 C	7 day extension
PCBs		1000	G Teflon	Cool, 4 C	7 day extension
Pesticides		1000	G Teflon	Cool, 4 C	7 day extension
Herbicides		1000	G Teflon	Cool, 4 C	7 day extension
Volatiles		no headspace	3 G vials	4 C, HCl pH <2	14 days
Volatiles		no headspace	3 G vials	Cool, 4 C, no pres.	7 days

P = Plastic G = Glass Teflon = Teflon-lined Cap

7. Once sample containers are properly labeled, the sample labels should be wrapped with clear tape to prevent deterioration of sample level.

8. Proceed with the sample collection per the sampling plan requirements.

9. Collected samples should be immediately placed in an iced cooler to maintain as close as possible a 4°C atmosphere for shipment to the analytical laboratory. Follow sample shipping procedures detailed in Sample Shipping Standard Operating Procedures.

10. Recommended order of sample collection:

    In-situ measurements (e.g., temperature, pH, specific conductance)
    Volatile organic analytes (VOA)
    Purgeable organic carbon (POC)
    Purgeable organic halogens (POX)
    Total organic carbon (TOC)
    Extractable organics
    Total petroleum hydrocarbons (TPH)
    Total metals
    Dissolved metals
    Microbiologicals
    Phenols
    Cyanide
    Sulfate and chloride
    Turbidity
    Nitriate and ammonia
    Radionuclides

STANDARD OPERATING PROCEDURES
FOR
SAMPLE SHIPPING PROCEDURES

REVISED: January 4, 2001

PREPARED BY:

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MATERIALS

Sturdy plastic or metal ice cooler
Chain-of-custody forms
Custody seals
ESC mailing labels
Strapping, clear packing, and duct tape
Ziploc® plastic bags (or equivalent)
Knife or scissors
Tape and dispenser
Extra labels, custody seals
Permanent marker
Surgical gloves on nitrile gloves (only for hazardous waste)
Large plastic bag (garbage can size)
Arrow labels or "This End Up" labels
Minimum eight pounds of ice
Wet ice packs (frozen)
Bubble wrap or other packing material
Federal Express form (with ESC account number)
Vermiculite (or commercially available cat liner)

PROCEDURES

For shipping purposes, samples are segregated into two classes; environmental samples and restricted articles (i.e., hazardous materials). Environmental samples can also be categorized based on expected or historical analyte levels (i.e., low or high). An environmental sample is one that is not defined as a hazardous material by the Department of Transportation (DOT, 49 CFR Part 171.8). The DOT defines a "hazardous material" as a substance which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and which has been so designated. Any material of a suspected hazardous nature, previously characterized as hazardous, or known to be hazardous is considered a restricted article.

In general, the two major concerns in shipping samples are protecting the samples from incidental breakage during shipment and complying with applicable DOT and courier requirements for restricted article shipments.

Protecting the samples from incidental breakage can be achieved by following "common sense." All samples should be packed in a manner that will not allow them to freely move about in the cooler or shipping container. Glass surfaces should not be allowed to contact each other. When possible, repack the samples in the same materials that they were originally received in from the laboratory. Each container should be cushioned with plastic bubble wrap, styrofoam, or other

nonreactive cushioning material. Shipping restricted articles should conform to the packaging, marking, labeling and shipping instructions identified in 49 CFR Part 172.101.

Environmental samples shall be packed for shipment using the following procedures:

1. Select a sturdy cooler in good condition. Secure and tape the drain plug with fiber tape. Line the cooler with a large, heavy-duty plastic bag.

2. Place 2-4 inches of bubble wrap or other packing material in the bottom of the cooler.

3. The sample packer should wear eye protection and protective gloves when handling the samples during the packing process.

4. After ensuring that sample container lids are secure, place the bottles in separate and appropriately size Ziploc® polyethylene bags. Seal the bags with tape.

5. Wrap duplicate volatile organic (VOA) vials in one piece of bubble wrap or other packing material as a "VOA sandwich."

6. Place the bottles in the cooler with sufficient space to allow for the addition of more bubble wrap or other packing material between the bottles. Large or heavy sample containers should be placed on the bottom of the cooler with lighter samples (i.e., VOAs) placed on top to eliminate breakage.

7. Put "wet ice" (i.e., ice packs) or ice that has been placed in sealed heavy-duty polyethylene bags on top of or between the samples. Pack enough ice in the cooler to chill the samples during transit. If the cooler is shipped on a Friday or Saturday for Monday delivery, double the amount of ice placed in the cooler. Fill all remaining space with bubble wrap or other packing material. Securely fasten the top of the cooler with tape.

8. Place chain-of-custody form (and, if applicable, CLP traffic reports) into Ziploc® plastic bag and affix to the cooler's inside lid, then close the cooler. Securely fasten the top of the cooler shut with fiber tape. Place two signed and dated chain-of-custody seals on the top and sides of the cooler so that the cooler cannot be opened without breaking the seals.

9. Once cooler is sealed, shake test cooler to make sure that there are no loose sample containers in the cooler. If loose samples are detected, open the cooler and repack the samples.

10. Using clear tape, affix a mailing label and KERAMIDA's return address to the top of the cooler.

11. Mark the cooler with "This End Up" and arrow labels that indicate the proper upward position of the cooler.

12. Ship samples via priority overnight express to the contracted analytical laboratory for next morning delivery. If applicable, check for Saturday delivery.

13. Declare value of samples on the shipping form for insurance purposes. Note this declared value should reflect the cost to recollect the samples.

14. Record the tracking numbers from the express courier forms in the field notebook. Also, retain the customer's copy of the express courier airbill.

Restricted articles should be packed according to the above procedures with the following additions:

1. Place samples in individual Ziploc® plastic bags and secure with a plastic tie.

2. Place samples in paint cans in a manner which would prevent bottle breakage (i.e., do not place glass against glass).

3. Place vermiculite or other absorbent packing material in the paint can around the samples. The amount of packing material used should be sufficient to absorb the entire contents of the sample if the container is broken during shipment.

4. Secure a lid to the paint can with can clips and label the outside of the can with sample numbers and quantity. Mark the paint can with "This End Up" and arrow labels that indicate the property upward position of the paint can.

5. Package the paint cans in DOT boxes or coolers, with appropriate DOT shipping labels and markings on two adjacent sides of the box or cooler.

6. Ship the restricted articles via overnight courier following the courier's documentation requirements. A special airbill must be completed for each shipment. Retain a copy of the airbill for ESC records and tracking purposes, if necessary.

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Drilling Log

FLUOR DANIEL GTI

Soil Boring GP-

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261
Surface Elev. _____ Total Hole Depth 12 ft. Diameter 2 in.
Top of Casing _____ Water Level Initial 11 ft. Static _____
Screen: Dia _____ Length _____ Type/Size _____
Casing: Dia _____ Length _____ Type _____
Fill Material _____ Rig/Core SIMCO
Drill Co. Earth Exploration Method Geoprobe
Driller T. Haskett Log By Krista Gremos Date 12/19/96 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Geoprobe boring, backfilled with bentonite.

Depth (ft.)	PID (ppm)	Sample ID Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50:
-2					
0					
2	4.6	0-2		ML	Clayey SILT; Dark brown to reddish brown, clayey SILT, some sand, trace gravel, moist.
4					
6	5.2	5-7		ML	See above, dark brown to black, very moist.
8					
10					
12	52	10-12		SP	SAND: Gray brown, fine to medium SAND, some coarse sand, little to some fines, trace gravel, very moist to saturated (?).
14					Boring terminated at 12 feet. Sampled to 12 feet. Groundwater encountered at approximately 11 feet.
16					
18					
20					
22					
24					

FLUOR DANIEL GTI

Drilling Log

Soil Boring GP-2

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261
Surface Elev. ____ Total Hole Depth 12 ft. Diameter 2 in.
Top of Casing ____ Water Level Initial 11 ft. Static ____
Screen: Dia ____ Length ____ Type/Size ____
Casing: Dia ____ Length ____ Type ____
Fill Material ____ Rig/Core SIMCO
Drill Co. Earth Exploration Method Geoprobe
Driller T. Haskett Log By Krista Gremos Date 12/19/96 Permit # ____
Checked By Krista Gremos License No. ____

See Site Map For Boring Location

COMMENTS:

Geoprobe boring, backfilled with bentonite.

Depth (ft.)	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2						
0						
	4.6	0-2			ML	Clayey SILT; Rubble and dark brown clayey silt
2						
4						
6	24	5-7			ML	Clayey SILT; Dark gray-brown, clayey SILT, some sand, trace gravel, moist, crumbly. Thin sand seam @ 6.8 feet.
					SP/ML	
8						
10						
	17	10-12			SP	SAND: Medium to dark brown SAND, some coarse sand, little fines, very moist to saturated.
12						Boring terminated at 12 feet. Sampled to 12 feet. Groundwater encountered at approximately 11 feet.
14						
16						
18						
20						
22						
24						

FLUOR DANIEL GTI

Drilling Log

Soil Boring GP-3

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261
Surface Elev. ____ Total Hole Depth 12 ft. Diameter 2 in.
Top of Casing ____ Water Level Initial 11 ft. Static ____
Screen: Dia ____ Length ____ Type/Size ____
Casing: Dia ____ Length ____ Type ____
Fill Material ____ Rig/Core SIMCO
Drill Co. Earth Exploration Method Geoprobe
Driller T. Haskett Log By Krista Gremos Date 12/19/96 Permit # ____
Checked By Krista Gremos License No. ____

See Site Map For Boring Location

COMMENTS:

Geoprobe boring, backfilled with bentonite.

Depth (ft.)	PID (ppm)	Sample ID Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2					
0				Asph	Asphalt and fill to approximately 1 foot.
	15	0-2		Fill	Clayey SILT; Dark brown, clayey SILT, some sand, trace gravel, stiff.
2				ML	
4					
6	44	5-7		ML	Clayey SILT; Medium gray-brown, clayey SILT, to silty clay, some sand, trace gravel, moist.
8					
10					
	2.5	10-12		SP	SAND: Medium brown, fine to medium SAND, little to some coarse sand, little fines, trace gravel, very moist to saturated.
12					Boring terminated at 12 feet. Sampled to 12 feet. Groundwater encountered at approximately 11 feet.
14					
16					
18					
20					
22					
24					

Drilling Log

FLUOR DANIEL GTI

Soil Boring GP-4

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261
Surface Elev. ____ Total Hole Depth 12 ft. Diameter 2 in.
Top of Casing ____ Water Level Initial 11 ft. Static ____
Screen: Dia ____ Length ____ Type/Size ____
Casing: Dia ____ Length ____ Type ____
Fill Material ____ Rig/Core SIMCO
Drill Co. Earth Exploration Method Geoprobe
Driller T. Haskett Log By Krista Gremos Date 12/19/96 Permit # ____
Checked By Krista Gremos License No. ____

See Site Map For Boring Location

COMMENTS:

Geoprobe boring, backfilled with bentonite.

Depth (ft.)	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2					
0					
	1.3	0-2		ML	Clayey SILT; Dark reddish brown, clayey SILT, some sand, moist, crumbly.
2					
4					
6	2.0	5-7		ML	Silty CLAY; Medium brown, silty CLAY, some sand, trace gravel, moist, very stiff. Small sand seam near bottom of sample.
				SP	
8					
10					
	3.0	10-12		ML	Clayey SILT; Dark brown, clayey SILT, some sand, trace gravel, saturatec plastic to sticky.
12					Boring terminated at 12 feet. Sampled to 12 feet. Groundwater encountered at approximately 11 feet.
14					
16					
18					
20					
22					
24					

Drilling Log

FLUOR DANIEL GTI

Soil Boring GP-5

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261
Surface Elev. _____ Total Hole Depth 12 ft. Diameter 2 in.
Top of Casing _____ Water Level Initial 11 ft. Static _____
Screen: Dia _____ Length _____ Type/Size _____
Casing: Dia _____ Length _____ Type _____
Fill Material _____ Rig/Core SIMCO
Drill Co. Earth Exploration Method Geoprobe
Driller T. Haskett Log By Krista Gremos Date 12/19/96 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Geoprobe boring, backfilled with bentonite.

Depth (ft.)	PID (ppm)	Sample ID Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2					
0	2.8	0-2		ML	Clayey SILT; Reddish brown, clayey SILT, some sand, trace gravel, moist, crumbly.
2					
4					
6	2.0	5-7		SP / ML	SAND; Medium brown, fine SAND, some fines, moist. Grades to medium brow clayey SILT, some sand, moist, at 6.5 feet.
8					
10	6.4	10-12		SP	SAND; Medium brown, fine to medium SAND, some coarse sand, some fines, trace gravel, very moist to saturated.
12					Boring terminated at 12 feet. Sampled to 12 feet. Groundwater encountered at approximately 11 feet.
14					
16					
18					
20					
22					
24					

FLUOR DANIEL GTI

Drilling Log

Soil Boring GP-6

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261
Surface Elev. ____ Total Hole Depth 12 ft. Diameter 2 in.
Top of Casing ____ Water Level Initial 11 ft. Static ____
Screen: Dia ____ Length ____ Type/Size ____
Casing: Dia ____ Length ____ Type ____
Fill Material ____ Rig/Core SIMCO
Drill Co. Earth Exploration Method Geoprobe
Driller T. Haskett Log By Krista Gremos Date 12/19/96 Permit # ____
Checked By Krista Gremos License No. ____

See Site Map For Boring Location

COMMENTS:

Geoprobe boring, backfilled with bentonite.

Depth (ft.)	PID (ppm)	Sample ID Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2					
0					
	8.2	0-2		ML	Clayey SILT; Reddish brown, clayey SILT, some sand, trace gravel, moist, crumbly to plastic.
2					
4					
6	7.0	5-7		SP	SAND; Medium brown, fine to medium SAND, trace coarse sand, little fines, moist.
8					
10					
	4.5	10-12		SP	SAND; Medium brown, fine to medium SAND, little coarse sand, little fines, very moist to saturated.
12					Boring terminated at 12 feet. Sampled to 12 feet. Groundwater encountered at approximately 12 feet.
14					
16					
18					
20					
22					
24					

Drilling Log

GROUNDWATER TECHNOLOGY

Soil Boring HP-1

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. ____ Total Hole Depth 5 ft. Diameter 6 in.
Top of Casing ____ Water Level Initial 5 ft. Static ____
Screen: Dia ____ Length ____ Type/Size ____
Casing: Dia ____ Length ____ Type ____
Fill Material ____ Rig/Core CME-45
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller S. Phillips Log By Krista Gremos Date 9/6/95 Permit # ____
Checked By Krista Gremos License No. ____

See Site Map For Boring Location

COMMENTS:

Hydropunch

Depth (ft.)	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2						
0						
2						
4	0.0	3-5	8 14 14 16		SP SC	SAND: Tan SAND, very fine, dry, stiff, to 4'. Grading into clayey SAND, fine to coarse, moist, trace gravel. Saturated at 5'.
6						Boring terminated at 5 feet. Sampled to 5 feet. Groundwater encountered at 5 feet.
8						
10						
12						
14						
16						
18						
20						
22						
24						

KERAMIDA Environmental, Inc.	LOG OF BORING KB-1 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829D Date Drilled : 3/1/00 Drilling Method : Geoprobe Geologist/Tech : BH Drilling Co : KEI General Location : NE corner of North and Olin
KERAMIDA Project No. 2829D	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Silty Clay with gravel FILL			ND	
	CL		Silty CLAY, 10YR 4/4, moist	1	80	ND	
5						ND	
	GW		Silty SAND AND GRAVEL, 10YR 4/5, very moist SAND AND GRAVEL, 10YR 4/5, moist	2	80	13.6	
	SW		Medium to Coarse SAND with scattered gravel, 10YR 5/2, moist SAA, 10YR 5/1			14.4	
10				3	75		
	SP		Silty Fine SAND, 10YR 5/4, tight			17.1	
	GW		Medium to Coarse SAND AND GRAVEL, 10YR 5/1, moist			27.0	Groundwater screen set from (10-15')
	CL		Sandy Silty CLAY with scattered gravel, 10YR 5/1, moist	4	90		
15						1.6	
20							No soil sampled based on field observations
25							
30							
35							
40							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-2 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829D Date Drilled : 3/1/00 Drilling Method : Geoprobe Geologist/Tech : BH Drilling Co : KEI General Location : East of MW-156 in : alley
KERAMIDA Project No. 2829D	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt and gravel				
	FL		Silty Clayey gravelly FILL, moist FILL Sand, 10YR 3/5, moist	1	70	ND ND	
5	GW		SAND AND GRAVEL, 10YR 6/4, dry to slightly moist	2	60	2.4 2.1	
10			SAA, slightly moist	3	75	4.0 11.1	
15				4	75	15.0 14.4	
			Blind Drilled (16'-20')	5			Groundwater screen set from (16-20')
20							
25							
30							
35							
40							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-3 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829D Date Drilled : 3/1/00 Drilling Method : Geoprobe Geologist/Tech : BH Drilling Co : KEI General Location : Southeast of : MW-157
KERAMIDA Project No. 2829D	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Topsoil				
	FL		Sandy Silty Clay FILL, 10YR 4/5, moist	1	80	1.0 1.9	
	SW		Medium to Coarse SAND with gravel, 10YR 5/4	2	80	2.4 2.4	
5			SAA, 10YR 4/4	3	80	2.4 3.0	
10			Medium SAND, 10YR 5/4, moist	4	75	2.4 3.0	
15	SP		Fine SAND, 10YR 5/4, very moist				
	GW		SAND AND GRAVEL, 10YR 5/4, moist	5	75	3.5 3.0	
20			Blind Drilled (20'-23')	6			Groundwater screen set from (19-23')
25							
30							
35							
40							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-4 (Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829D

Project ID : 2829D
Date Drilled : 3/3/00
Drilling Method : Geoprobe
Geologist/Tech : BH
Drilling Co : KEI

General Location : Michigan Apts.- : South of MW-161

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	CL		Silty CLAY, 10YR 4/3, moist	1	60	0.3	
	SW		Medium to Coarse SAND, 10YR 4/4, moist			1.1	
5	CL		Medium to Coarse Sandy Silty CLAY, 10YR 4/4, moiar Silty CLAY with scattered Sand, 10YR 4/3	2	30	0.6 0.6	
10	FL		Sand and Gravel FILL with concrete Sand and Gravel FILL with wood material	3 4	25 35	0.8 5.6	Refusal at 11.5' moved probe approximately 6' east
	GW		Silty Clayey SAND AND GRAVEL, 10YR 5/1, very moist to wet	5	80	2.3	
15	SW		Medium to Coarse SAND with scattered gravel, 10YR 5/1, wet			1.8	
				6	80	1.8	
20			SAA			1.8	
				7	80	4.3 6.1	
25	GW		SAND AND GRAVEL, 10YR 5/1, wet SAA with rock, 10YR 5/2	8	85	13.4 8.1	
30			SAND AND GRAVEL, 10YR 5/1, wet	9	85	14.9 9.6	
				10	70	48	Groundwater screen set from (32-36')
35	SP		Fine SAND, 10YR 5/1, wet			27	
	GW		SAND AND GRAVEL, 10YR 5/1, wet			17.1	
	CL		Silty CLAY	11	85	17.1	
40							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-5

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829D

Project ID : 2829D
Date Drilled : 3/6/00
Drilling Method : Geoprobe
Geologist/Tech : BH
Drilling Co : KEI

General Location : In Michigan Apts.
: across from MW-160

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Sandy Silty Clayey Gravelly FILL	1	60	0.3	
			Silty Sandy FILL			1.8	
5				2	60	1.3	
	GW		SAND AND GRAVEL, 10YR 5/4, dry			1.1	
			SAA, slightly moist	3	60	1.6	
10	SM		Silty SAND, 10YR 4/4, very moist SAA, wet			1.8	
	SW		Medium to Coarse SAND, 10YR 5/1, wet	4	60	1.6	
15						2.6	
				5	70	5.8	
						4.6	
20			SAA	6	70	19.4	
						12.1	
	GW		Medium to Coarse SAND AND GRAVEL, 10YR 5/1, wet SAA, 10YR 4/1	7	80	11.9	
25							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-5

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829D

Project ID : 2829D
Date Drilled : 3/6/00
Drilling Method : Geoprobe
Geologist/Tech : BH
Drilling Co : KEI

General Location : In Michigan Apts.
: across from MW-160

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
25	GW			7	80	5.4	
	SW		Medium SAND, 10YR 5/1, wet	8	15	6.8 6.8	
30	SP		Fine to Medium SAND, 10YR 5/1, wet	9	80	38.2 83.9	Groundwater sample collected for possible lab analysis (32-36')
35	GW		SAND AND GRAVEL, wet	10	90	31.9 37.4	
	SW		Medium to Coarse SAND w/gravel, wet				
40	GW		SAND AND GRAVEL, 10YR 4/1, wet	11	80	69 72	
	SW		Medium to Coarse SAND with gravel, 10YR 4/1, wet				
	GW		SAND AND GRAVEL, 10YR 4/1, wet				
45				12	40	45 45	
50							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-6 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829D Date Drilled : 3/6/00 Drilling Method : Geoprobe Geologist/Tech : BH Drilling Co : KEI General Location : In Michigan Apts. : NE of Tennis Courts
KERAMIDA Project No. 2829D	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	CL		Silty CLAY, 10YR 4/3, slightly moist			0.3	
	FL		Silty Sand and Gravel FILL, moist	1	70	1.3	
5				2	80	1.8	
	SM		Silty SAND, 10YR 5/4, dry			1.3	
10	SW		Medium to Coarse SAND w/scattered gravel, 10YR 5/4 slightly moist to dry	3	60	2.1	
	ML		SILT, 10YR 4/2, very moist			1.8	
15	SW		Medium SAND, 10YR 4/1, moist Medium to Coarse Sand, 10YR 4/1, wet As above w/scattered gravel, 10YR 5/1	4	60	1.6 1.8	
	SP		Fine to Medium SAND, 10YR 5/1, wet	5	70	1.6	
20	SW		Medium to Coarse SAND with gravel, 10YR 5/1, wet	6	70	1.8 1.6	
25			SAA	7	55	1.6 1.3	Groundwater screen set from (22.5-26.5')
30	CL		Silty CLAY with scattered Sand and Gravel, 10YR 4/1, moist	8	95	1.1 0.6 0.6	
35							
40							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-7 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 4/5-6/00 Drilling Method : Push Probe Geologist/Tech : RSF Drilling Co : Terra Probe General Location : NW corner of Michigan : Apts. near Holt Road : Bridge
KERAMIDA Project No. 2829E	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Topsoil and Grass			0	
	FI		FILL Material, black slag	1			
			Sandy CLAY, brown, dry, medium stiff, trace organics			3.3	
5			SAA	2		2.7	
	CL		6" sand seam			1.5	
			2.5" sand seam				
10			2" sand seam	3		0	
						1.2	
			Sandy CLAY, brown, dry, medium stiff, trace organics				
			SAND AND GRAVEL, brown, moist			2.3	
15				4		2.3	
				5		NA	
						NA	
20			SAND AND GRAVEL, gray, wet			1.0	
				6		0.4	
25	GW			7		0.4	
						0.4	
30			SAA	8		0.2	
						0.4	
				9		0	
35						1.5	Groundwater well screen set from (33-36')
	CL		Silty CLAY, gray, moist to dry, "hard pan"	10		1.1	
			SAA			1.1	
40							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-8

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 4/14/00
Drilling Method : Geoprobe
Geologist/Tech : BH
Drilling Co : Terra Probe

General Location : Near NE corner of : Michigan Apt. #16

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Topsoil				
	CL		Silty CLAY w/gravel	1	85	1.9	
	GW		Silty SAND AND GRAVEL, slightly moist			2.4	
5	SW		Medium SAND, 10YR 4/4, slightly moist	2	85	2.2	
			SAA, 10YR 5/3			2.2	
			SAA				
			Medium to Coarse SAND with gravel, 10YR 5/3, slightly moist	3	80	2.4	
10	SP		Fine to Medium SAND, 10YR 5/1, slightly moist				
	SW		Medium to Coarse SAND, 10YR 4/4, moist			2.4	
	CL		Sandy Silty CLAY w/scattered gravel, 10YR 4/4, moist, mottling, @11.5' Sandy Silty CLAY, 10YR 4/2 moist				
	SW		Medium to Coarse SAND, 10YR 4/2, moist, @13.25 Silty Medium to Coarse SAND with gravel, 10YR 4/2			3.3	
	CL		Slightly Sandy Silty CLAY w/scattered gravel, 10YR 4/1, moist	4	80		
15	GW		Medium to Coarse SAND AND GRAVEL, 10YR 4/3, moist			2.8	
			SAA, 10YR 4/1, wet	5	80	3.0	
						2.8	
20				6	70	4.1	
	SP		Fine SAND, 10YR 4/1, wet			17.1	
				7	50	22.4	
25							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-9 (Page 1 of 2)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 4/14/00
Drilling Method : Geoprobe
Geologist/Tech : BH
Drilling Co : Terra Probe

General Location : SW corner of : Michigan Apt. #4

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Topsoil				
	CL		Silty CLAY w/scattered sand and gravel, 10YR 4/3, mois	1	100	0.4	
			Sandy, Silty, CLAY, 10YR 4/2, moistt	2	100	ND	
5						0.5	
						0.8	
	GW		SAND AND GRAVEL, 10YR 5/4, slightly moist	3	90	1.8	
10						2.2	
				4	85	1.9	
	ML		Fine Sandy SILT, 10YR 5/6, very moist; @14.75, SAA, 10YR 5/1			1.6	
15	SW		Medium to Coarse SAND, 10YR 4/1, wet			1.9	
	GW		SAND AND GRAVEL, 10YR 4/1, wet	5	85	1.9	
	SP		Fine to Medium SAND, 10YR 4/1, wet				
20	SW		Medium to Coarse SAND with gravel, 10YR 4/1,wet	6	85	1.8	
						2.2	
				7	75	2.5	
25							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-10 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 4/5/00 Drilling Method : Push Probe Geologist/Tech : RSF Drilling Co : Terra Probe General Location : 642 Luett between : road and sidewalk : in grass
KERAMIDA Project No. 2829E	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Topsoil grass, dry, medium stiff			0	
	CL		Sandy CLAY, brown, dry, medium stiff, sand in bottom	1		1.1	
5			Sandy CLAY, brown, dry to moist			1.1	
	SW		Medium SAND, brown, dry to moist	2		1.1	
	GW		SAND AND GRAVEL, moist to dry			1.4	
10				3		1.7	
			Sand and Gravel, brown/black, no odor	4		1.7	
15						2.1	
				5		1.8	
20						2.7	
				6		3.0	Groundwater sample collected for possible lab analysis (22-25')
			SAA, wet, small band of orange @23'			0.4	Groundwater screen set from (22-25')
25							
30							
35							
40							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829D

Project ID : 2829D
Date Drilled : 4/5/00
Drilling Method : Push Probe
Geologist/Tech : RSF
Drilling Co : Terra Probe

General Location : NE corner of Walnut
: Alley east of Olin

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Topsoil grass, dry, medium stiff	1		0	
	CL		Mix of Sandy CLAY and Sand, brown, dry			0	
	GW		SAND AND GRAVEL, brown, dry				
5				2		0	
						0	
10				3		0	
						1.1	
15				4		0.1	
						0.1	
				5		1.1	
20			Same as above, with orange tint at water interface, wet			0	
				6		0	Groundwater sample collected for possible lab analysis (21-24')
						0	Groundwater screen set from (21-24')
25							
30							
35							
40							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 4/5/00
Drilling Method : Push Probe
Geologist/Tech : RSF
Drilling Co : Terra Probe

General Location : East side of Olin Ave

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Gravel, Slag and Asphalt FILL, black and dark brown	1		0	
	CL		Sandy CLAY, brown, dry to moist			0.7	
5				2		0.7	
	GW		SAND AND GRAVEL, brown, dry			0.5	
			SAA, dry to moist	3		0.7	
10			SAA, moist with orange coloring at 11.5'-11.7'			0	
	ML		Sandy SILT, brown, dry to moist, stiff	4		0	
15	GW		SAND AND GRAVEL, brown, moist to wet			0.5	
	CL		Sandy CLAY, brown, moist				
	GW		SAND AND GRAVEL, wet	5		NA	
20						NA	Groundwater screen set from (17-20')
25							
30							
35							
40							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 4/6/00
Drilling Method : Push Probe
Geologist/Tech : RSF
Drilling Co : Terra Probe

General Location : Located between east : fence line and bldg.

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Asphalt and base FILL				
	CL		Sandy CLAY, black/brown, moist, w/organics (wood)	1		2.3 2.0	
5	GW		SAND AND GRAVEL, brown, dry Rock	2		3.3 2.6	
10				3		4.0 0.5	
			SAND AND GRAVEL, brown, moist to wet	4		0.5	
15			SAA, wet			1.5	Groundwater screen set from (14-17')
			SAA, wet	5		2.0 1.5	
20							
25							
30							
35							
40							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 4/6/00
Drilling Method : Push Probe
Geologist/Tech : RSF
Drilling Co : Terra Probe

General Location : 50' North of KB-13

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Asphalt FILL				
	CL		Sandy CLAY, black/brown, moist, soft	1		0.2	
			Sandy CLAY, brown, moist, soft			0.7	
5				2		1.1	
	GW		SAND AND GRAVEL, brown, dry			0.9	
10				3		1.1	
			Same as above, w/fine SAND, moist			1.7	
			Sand and Gravel w/fine Sand at 12-13', orange tint, moist	4		0.2	
15			SAND AND GRAVEL, brown, wet			1.1	
				5		1.2	Groundwater screen set from (15-18')
			SAA			0	
20							
25							
30							
35							
40							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 4/6/00
Drilling Method : Push Probe
Geologist/Tech : RSF
Drilling Co : Terra Probe

General Location : ' South of KB-14

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Asphalt FILL				
	CL		Sandy CLAY, black/brown, moist, soft	1		0	
						2.0	
5			SAA			3.0	
	GW		SAND AND GRAVEL, brown, dry	2		29.0	
10			SAA, moist	3		30	
						26	
	SP		Fine SAND, brown, moist SAA, with gravel, orange/reddish tint	4		17.6	
15	GW		SAND AND GRAVEL, brown, moist to wet			26	
				5		0.4	Groundwater screen set from (16-19')
20						0	
25							
30							
35							
40							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/3/00
Drilling Method : Hurricane Push Probe
Geologist/Tech : Brian Harrington
Drilling Co : Terre Probe

General Location : SW corner of Bldg 10, : Grass area of west side of : parking lot adjacent : to brick entrance sign

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Grass and top soil				
	FL		Sand FILL, dry	1		10	
			Medium to Coarse SAND, brown, dry			0	
5				2		0.7	
						0.5	
10			SAA,dry to damp, color change to rusty brown at 11'10"	3		1.5	
						0.6	
15			Silty Clayey SAND with trace gravel, grayish brown, moist, stiff, slightly plastic	4		0.7	
			Medium to Coarse SAND with some gravel, light brown, dry to damp			0.5	
			SAA, grayish borwn	5		2.0	
20	SW		Well sorted Medium SAND, grayish brown, saturated			0.4	
				6		0.8	
			SAA			1.5	
25				7		5.8	
						NA	
30			SAA with some gravel	8		8.3	Groundwater sample collected for possible lab analysis (29-34')
						4.0	
35				9		14.	
						NA	
	SP		Silty Clayey SAND with trace gravel, dark grayish brown, low moisture, very stiff, non-plastic	10		1.2	
40						0.2	

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KERAMIDA Environmental

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Avery-Dennison Facility
650 West 67th Avenue
Schererville, Indiana 46320
KERAMIDA Project No. 3334

Project ID	: 2829E
Date Drilled	: 5/2/00-5/3/00
Drilling Method	: Push Probe
Geologist/Tech	: Brian Harrington
Drilling Co.	: Terra-Probe

General Location : Building #1, NW parking : space in front (south) : parking lot

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Water Levels	Samples	Rec inches0.	PID ppm	REMARKS
0			Asphalt					
	SP		Silty, Clayey SAND with little gravel, dark brown, dry to damp, cohesive, stiff		1	100	1.4	
							1.5	
5			SAA with increasing sand content, noncohesive		2	100	4.7	
			SAA, grading to sand with little silt				23.8	
	SW		Medium to Coarse SAND with little fine gravel, brown, dry		3	80	13.8	
10			SAA, with 3" of iron staining				50.9	Soil sample collected for laboratory analysis (10-12')
					4	100	50.3	
15	SP		Fine SAND, brown, well sorted, wet	▼			5.2	
	SW		Medium to Coarse SAND with trace gravel, grayish brown, saturated, well sorted		5	NA	NA	
20			SAA, dark gray, saturated, 2" clay stringer @ 20.75'				0	
					6	NA	0	
							0	
25	GW		SAND AND GRAVEL, grayish brown, saturated		7	NA	1.0	Groundwater sample collected for possible lab analysis (24-29')
							1.3	Groundwater screen set from (24.5-29.5')
30	SP		Silty, Clayey SAND with trace gravel, brownish gray, moist, stiff, slightly plastic		8	NA	1.0	
							0.7	
			5" of wood debris and organic material beginning at 30.5'		9	NA	0.4	
35							0.6	
					10	NA	0.9	
40							0.7	

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-18 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 7/10/00 Drilling Method : Geoprobe Geologist/Tech : Brian Harrington Drilling Co : KEI General Location : Along East side of Holt Rd : adjacent to appartments
KERAMIDA Project No. 2829E	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Silty clay FILL, with scattered brick fragments and gravel, 10YR 4/3, moist	1	95	15.6	
			Silty Clay FILL with scattered sand, 10YR 3/1, moist			15.6	
5				2	95	9.0	
	SM		Silty CLAY, with sand & gravel, 10YR 4/4, slightly moist			15.6	
10	GW		Silty SAND & GRAVEL, 10YR 5/4, slightly moist	3	60	9.0	
			Same as above, 10YR 4/6			9.0	
			SAND & GRAVEL, 10YR 5/6, slightly moist	4	70	10.7	
15	CL		Sandy silty CLAY, 10YR 4/4, very moist			20.1	
			Same as above, 10YR 4/1	5	40	20.1	
			As above, with scattered gravel			20.1	
20	GW		SAND & GRAVEL, 10YR 5/4, moist				
	SW		Medium SAND, w/ gravel, 10YR 4/1, very moist	6	70	4.0	
			Same as above, wet			4.0	
25			Same as above, 10YR 4/2, wet	7	70	40.3	
	GW		SAND & GRAVEL, 10YR 4/2, wet			48.4	
30	SW		Medium to coarse SAND & GRAVEL, wet, 10YR 4/2	8	70	36.3	
						60.4	
35	GW		SAND & GRAVEL, wet, 10YR 4/4	9	30	64.5	
			As above, 10YR 4/2			64.5	
40			Medium to coarse SAND & GRAVEL, wet, 10YR 4/1	10	50	20.1	
						44.3	
				11	75	52.4	
45						48.4	Groundwater sample collected for lab analysis (44-48')
				12	60	52.4	
			As Above			68.6	
50				13	80	48.4	
						36.3	
	CL		Sandy, silty CLAY , very moist, 10YR 4/1	14	80	40.3	
55						28.2	
60							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 7/11/00
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co : KEI

General Location : Along west side of Holt
: parallel with north
: side of bldg 23

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	CL		Silty CLAY with scattered Sand & Gravel Fill, 10YR 3/3, slightly moist	1	80	1.0	
			As Above			4.1	
5	GW		SAND & GRAVEL, dry to slightly moist, 10YR 5/4	2	90	1.2	
	SW		Medium SAND, 10YR 5/4, dry to slightly moist			2.2	
10	GW		SAND AND GRAVEL, 10YR 5/4, slightly moist	3	80	12.3	
						14.5	
			Silty Clayey SAND AND GRAVEL, 10YR 4/4, very moist	4	75	10.7	
15			SAA,10YR 4/2			9.8	
			SAA, 10YR 4/1				
	CL		Silty CLAY with Sand and Gravel, 10YR 4/1	5	90	11.0	
	SW		Medium SAND with gravel, 10YR 4/4, moist; @19', SAA, 10YR 5/4			28.0	
20	GW		SAND AND GRAVEL, 10YR 5/3, wet	6	80	32.0	Groundwater sample collected for possible lab analysis (20-24')
						12.2	
25	SW		Medium to Coarse SAND with Gravel, 10YR 5/3, wet	7	80	0.8	
	GW		SAND AND GRAVEL, 10YR 5/3, wet			2.7	
			Medium to Coarse SAND AND GRAVEL, 10YR 4/4, wet	8	80	2.7	
30			SAA, 10YR 5/3			2.7	
35			SAA,10YR 4/1	9	40	3.1	
						2.7	
40				10	60	1.8	
						2.1	
				11	40	3.4	
						3.4	
45	SW		Medium SAND with scattered Gravel, 10YR 4/1, wet	12	85	2.1	
	GW		SAND AND GRAVEL, 10YR 4/1, wet			3.1	Groundwater sample collected for possible lab analysis (44-48')
50				13	85	2.7	
	CL		Silty CLAY with scattered Sand, 10YR 4/1, very moist			3.4	
55							
60							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 7/12/00
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co : KEI

General Location : Northeast corner of : Michigan St. and Holt Rd.

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Silty Clay with Sand & Gravel FILL, 10YR 4/4, slightly moist	1	40	3.1	
			Sand and Gravel FILL, slightly moist to dry, 10YR 3/1			3.1	
5	GW		SAND & GRAVEL, moist, 10YR 4/4	2	90	2.5	
						7.5	
10	SW		Medium SAND, 10YR 4/4, moist	3	60	9.4	
	GW		SAND AND GRAVEL, 10YR 4/4, moist			3.7	
15	SP		Silty Clayey SAND, 10YR 5/2, very moist to wet	4	75	9.7	
						48	Soil sample collected for possible lab analyis (14-16')
20	SW		Medium to Coarse SAND, 10YR 5/4, moist	5	95	53	
			SAA with gravel			2.2	
			SAA, wet	6	75	55.6	
			SAA, 10YR 4/1			91	Groundwater sample collected for possible lab analysis (20-24')
25	GW		SAND AND GRAVEL, 10YR 4/1, wet	7	30	10.7	
			SAA			10.7	
30				8	75	10.4	
			SAA			14.5	
35				9	40	9.4	Groundwater sample collected for possible lab analysis (31-35')
			Silty SAND AND GRAVEL, 10YR 5/1, wet			9.4	
	CL		Silty CLAY with scattered Sand, 10YR 5/1, moist	10	100	1.2	
	SW		Medium to Coarse SAND, 10YR 5/1, wet			5.0	
	SP		Fine to Medium SAND, 10YR 5/1, wet				
40							
45							
50							
55							
60							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 7/12/00
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co : KEI

General Location : Along North side of : Michigan St., North of : Apt. 13

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Asphalt				
	CL		Gravelly FILL;@ 0.5' Silty Clay with with Sand & Gravel Fill, 10YR 3/1, moist	1	95	1.2	
						1.5	
5			Silty CLAY with scattered Sand and Gravel , 10YR 3/3				
			SAND & GRAVEL, slightly moist, 10YR 5/4	2	85	2.2	
			As Above			3.4	
10	GW			3	60	5.0	
						1.8	
				4	60	2.2	
15			As Above				
	CL		Sandy, Silty CLAY, 10YR 4/1, moist			6.3	
	GW		Silty, Clayey SAND & GRAVEL, very moist, 10YR 4/1	5	75	2.2	
20			SAND AND GRAVEL, wet, 10 YR 4/1			3.7	
	SP			6	60	5.6	
	GW		Fine to Medium SAND, 10YR 5/1, wet				
25	SW		SAND & GRAVEL, 10YR 5/1, wet			3.1	
			Medium to Coarse SAND, 10YR 5/1, wet	7	65	6.9	
			SAND & GRAVEL, 10YR 5/1, wet			11.3	
30	GW		SAA	8	45	7.8	
						12.6	
35	CL		Silty CLAY with scattered sand, moist, 10YR 4/1	9	70	8.0	Groundwater sample collected for possible lab analysis (30-34')
						9.5	
40							
45							
50							
55							
60							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 7/13/00
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co : KEI

General Location : Along North side of : Michigan St. East of Plaza

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Silty CLAY, 10YR 4/4, slightly moist to dry Silty CLAY with Sand & Gravel, slightly moist, 10YR 3/2	1	50	4.5 4.8	
5	SW		Medium SAND with scattered Gravel, 10 YR 4/4, slightly moist	2	30	5.9 5.9	
	GW		Silty, Clayey SAND & GRAVEL, moist, 10YR 4/4				
10	CL		Sandy, Silty CLAY with Gravel	3	80	6.4 8.4	
	GW		SAND & GRAVEL, 10YR 5/4, slightly moist				
15	SW		Medium SAND, 10YR 4/6, slightly moist	4	75	9.3 5.7	
	GW						
	SP		Silty SAND & GRAVEL, 10YR 4/4, moist				
			Fine to Medium SAND, 10YR 5/4, slightly moist	5	60	6.9	
20	SW		Medium to Coarse SAND with Gravel, 10YR 4/4, wet Medium SAND, 10YR 4/1, wet Medium to Coarse SAND with gravel, 10YR 5/1, wet	6	60	11.3 11.2 12.2	
25	GW		SAND & GRAVEL, 10YR 5/1, wet SAA	7	60	6.7 14.3	
30				8	90	10.1 7.6	Groundwater sample collected for possible lab analysis (26-30')
	CL		Silty CLAY with scattered Sand, 10YR 5/1, moist				
35							
40							
45							
50							
55							
60							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 7/13/00
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co : KEI

General Location : Southwest Corner of Olin Ave. and Michigan Street

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Silty Clayey Sand and Gravel FILL, 10YR 5/4, slightly moist	1	50	8.8	
			Silty Sandy FILL, moist, 10YR 4/3			7.2	
5				2	<10	6.8	
						6.8	
10	GW		Silty Clayey SAND AND GRAVEL, 10YR 4/2, very moist	3	40	3.4	
			SAA, moist			5.0	
15	SP		Fine to Medium SAND, 10YR 4/1, moist	4	60	7.5	
						6.3	
	GW		Silty, SAND & GRAVEL, moist to wet, 10YR 4/2;@19', Medium to Coarse SAND AND GRAVEL, 10YR 3/1, wet, petroleum odor	5	75	10.1	
20						340	Groundwater sample collected for possible lab analysis (18-22')
	SP		Fine to Medium SAND, wet, 10YR 5/1	6	95	13.2	
			SAA			8.0	
25				7	60	8.2	
						7.2	
30	SW		Medium to Coarse SAND with Gravel, 10YR 5/1, wet	8	75	3.7	Groundwater sample collected for possible lab analysis (26-30')
	CL		Silty CLAY with scattered SAND, 10YR 5/1, moist			3.5	
35							
40							
45							
50							
55							
60							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 7/17/00
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co : KEI

General Location : Southwest Corner of
: Plaza Property

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FI		Asphalt				
	CL		Gravelly FILL; @0.5', Silty Clay with Sand and Gravel FILL, 10YR 3/3	1	100	1.8 2.2	
5			Silty CLAY, 10YR 3/3, slightly moist; @2' Silty CLAY with scattered sand and gravel, 10YR 3/3, slightly moist	2	80	2.1 3.4	
	GW		SAND & GRAVEL, 10YR 5/4, Dry	3	70	2.1 1.3	
10			As Above	4	75	2.4 4.4	
15	SP		Fine SAND, 10YR 5/3, slightly moist; @17.5'	5	85	5.1	
	SW		Silty Fine SAND, 10YR 4/, very moist				
	SP		Medium to Coarse SAND, very moist, 10YR 4/1			92	Soil sample was collected for possible lab analysis (18-20')
20	GW		Silty, Fine SAND, very moist, 10YR 4/1	6	NA	NA NA	
			SAND & GRAVEL, moist, 10YR 5/4				
25	BD		BLIND DRILL (20'-36')	7	NA	NA NA	
30				8	NA	NA NA	
35				9	NA	NA NA	Groundwater sample collected for possible lab analysis (32-36')
40							
45							
50							
55							
60							

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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 7/17-18/00
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co : KEI

General Location : ALong East Edge of
: Plaza Parking Lot

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		TOPSOIL				
			Silty Clay FILL, 10YR 3/2	1	100	2.1	
	CL		Silty CLAY with scattered Sand and Gravel, 10YR 3/3, moist			2.4	
5			SAA	2	30	2.1	
						2.1	
	GW		SAND & GRAVEL, moist, 10YR 5/4	3	60	4.1	
10						1.3	
				4	75	2.0	
15			As Above			3.4	
	SP		Fine SAND, moist, 10YR 5/1 @19' SAA, Silty Fine SAND	5	50	5.1	
20	GW		SAND & GRAVEL, wet, 10YR 4/1			2.0	
				6	60	2.1	
25	NR		NO RECOVERY			1.0	
				7	0	ND	
						ND	
30	GW		SAND & GRAVEL, wet, 10YR 5/1	8	60	2.6	
			SAA			1.5	
35				9	85	3.3	Groundwater sample collected for possible lab analysis (32-36')
	CL		Sandy, Silty CLAY, moist, 10YR 5/1			2.7	
40							
45							
50							
55							
60							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-26

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 7/18/00
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co : KEI

General Location : Near Northeast Corner of Village Pantry

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt				
	FL		Sandy, Gravelly FILL, dry	1	85	1.8	
			Silty CLAY, slightly moist, 10YR 3/3			1.3	
5	CL		Silty CLAY with scattered Sand & Gravel, 10YR 3/3, slightly moist	2	85	2.7	
			SAND & GRAVEL, slightly moist, 10YR 5/4			4.5	
10	GW		As Above	3	40	2.4	
						2.6	
15				4	70	7.3	
						2.6	
	SP		Fine to Medium SAND, 10\YR 5/4, slightly moist	5	80	1.3	
20			SAND & GRAVEL, moist, 10YR 5/4			3.2	
			Silty SAND AND GRAVEL, 10YR 5/1, very moist				
			SAND AND GRAVEL, 10YR 5/1, wet	6	70	9.3	
			As Above			9.1	Groundwater sample collected for possible lab analysis (20-24')
25	GW			7	70	4.7	
						6.4	
30				8	70	1.0	
			As Above			1.2	
35				9	70	1.1	Groundwater sample collected for possible lab analysis (32-36')
	CL		Silty CLAY with scattered Sand & Gravel, 10YR 4/1, moist			1.0	
40							
45							
50							
55							
60							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-27

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 7/24/00
Drilling Method : Geoprobe
Geologist/Tech : Frank West
Drilling Co : KEI

General Location : North Olin Ave. Trailor 23
: West side of Rd, 1' off
: sidewalk

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt and gravel base				
	SP		Moist, dark brown, clayey SAND with gravel Dry, light brown, SAND, with gravel	1	80	2.1 2.1	
5				2	70	3.1 0.6	
			As Above, gravel increasing				
10				3	75	1.5 .3	
			As Above, moist, iron staining, grey color	4	95	1.5 3.4	
15	GW		Gray and Brown, wet, SAND & GRAVEL				
	SP		Grayish Brown, wet Medium SAND, little gravel, wet	5	50	2.7 NA	
20			As Above, Saturated, 2" clay seam at 22'8"	6	70	1.8 1.2	
25			As Above	7	90	1.2 1.8	
30	NR		NO RECOVERY	8	0	NA NA	Groundwater sample collected for possible lab analysis (28-32')
35				9	0	NA NA	
	SW		Fine SAND, grayish brown,	10	50	0.9 NA	
40				11	75	0.9 0.9	
45			Grayish brown, Saturated, medium SAND with little gravel.	12	75	0.9 0.9	
	GW		SAND & GRAVEL				
50							
55							
60							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-28

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/15/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : NE corner of site

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Silty CLAY, 10YR 4/3, moist Sandy Gravelly Clayey FILL			0.3	
	CL		Silty CLAY, 10YR 3/2, moist Sandy Gravelly Silty CLAY, 10YR 4/4, moist	2	75	0.3	
5	GW		Silty SAND AND GRAVEL, 10YR 4/2, moist	3	70	0.3	
	SP		Silty Fine to Medium SAND , 10YR 4/4, very moist			0.3	
	GW		SAND AND GRAVEL, 10YR 4/4, moist	4	70	1.0	
10			SAA, 10YR 4/2			1.0	
				5	60	0.3	
15			SAA, wet			0.3	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-29

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/15/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : East of building, near Sue MW

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FI		Asphalt				
			Gravelly FILL				
			Silty CLAY, 10YR 3/2, moist			1.0	
			Sandy Gravelly Silty CLAY, 10YR 3/3, moist	1	100		
	CL					1.0	
			As Above				
5						1.7	
			SAND AND GRAVEL, 10YR 5/3, slightly moist	2	75		
						15.1	
			As Above				
						11.6	
10	GW			3	50		
						17.9	
			As Above, bottom 1" wet				
						15.1	
				4	70		
15						12.3	
	SP		Silty Fine/Medium SAND, very moist to wet				
	GW		SAND AND GRAVEL, 10YR 5/4, wet				
20							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-30 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 5/15/01 Drilling Method : Geoprobe Geologist/Tech : Brian Harrington Drilling Co. : Terra Probe General Location : NE corner of site
KERAMIDA Project No. 2829E	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	CL		Silty CLAY, 10YR 3/2, slightly moist			1.0	
			Sandy Silty CLAY, 10YR 3/2, slightly moist	1	80		
	GW		SAND AND GRAVEL, 10YR 5/4, slightly moist			0.3	
			As Above				
5						1.0	
	SW		Medium/Coarse SAND with gravel, 10YR 5/1	2	75		
						1.0	
			As Above				
						1.0	
10			As Above, wet	3	60		
						1.7	
15							
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-31

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/15/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : East of KB-30,
: midway down building

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	CL		Sandy Silty CLAY, 10YR 4/2, moist			ND	
	SP		Silty SAND (medium), 10YR 4/4, moist	1	80	ND	
5	GW		SAND AND GRAVEL, 10YR 5/4, moist As Above			ND	
	CL		Sandy Silty CLAY with scattered gravel , 10YR 4/1, moist	2	70		
	SP		Silty SAND, 10YR 5/4, moist Medium SAND, 10YR 5/4, moist As Above			ND ND	
10	GW		Silty SAND AND GRAVEL, 10YR 4/1, wet SAND AND GRAVEL, 10YR 4/2, wet	3	80	ND	
15							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-32

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/15/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : SE corner of : property

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	CL		Sandy Gravelly Silty CLAY, 10YR 3/2, moist	1	80	0.3	
	GW		SAND AND GRAVEL, 10YR 5/4, slightly moist			0.3	
			As Above				
5				2	70	1.7	
						2.4	
			As Above, bottom 1" Silty clay, 10YR 5/1, moist				
10				3	80	4.5	
						10.2	
	CL		Silty CLAY with scattered sand and gravel, 10YR 5/1, moist				
	SP		Silty Fine to Medium SAND, 10YR 4/1			4.5	
15	SW		Medium to Coarse SAND with gravel, 10YR 4/1, wet	4	90	24.9	
20							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-33 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 5/15/01 Drilling Method : Geoprobe Geologist/Tech : Brian Harrington Drilling Co. : Terra Probe General Location : North of power line tower
KERAMIDA Project No. 2829E	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	CL		Slightly Silty CLAY with scattered gravel, 10YR 4/2, slightly moist			131	
	FL		Silty Clay FILL with brick and glass fragments, 10YR 3/1, solvent odor	1	90	>1400	
5	CL		Silty CLAY, 10YR 3/1, solvent odor	2	90	>1500	
			Silty CLAY with scattered sand and gravel, 10YR4/2, solvent odor, moist			>1100	
			Sandy Silty CLAY with scattered sand and gravel, 10YR 5/1, solvent odor, very moist	3	90	>1900	
10						>1800	
	SW		Medium to Coarse SAND with gravel, 10YR 5/1, very moist				
			As Above, wet	4	90	364	
15						52	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-34

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/16/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : SW portion of : property

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	CL		Silty CLAY with scattered sand and gravel, 10YR 3/2, slightly moist Sandy Silty CLAY, 10YR 3/3, slightly moist	1	70	66	
	SW		Medium to Coarse SAND with scattered gravel, 10YR 4/3, slightly moist As Above			13.9	
5	GW		SAND AND GRAVEL, 10YR 6/3, slightly moist	2	50	3.1 1.0	
	CL		Sandly Silty CLAY with gravel, 10YR 5/1, very moist			5.9	
10	GW		Silty SAND AND GRAVEL, 10YR 5/1, very moist to wet SAND AND GRAVEL, 10YR 5/1, wet As Above	3	75	8.7	
				4	75	155 216	
15							
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-35

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/16/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : South of SW corner of building

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt				
	FL		Gravelly FILL				
	CL		Sandy Gravelly Silty CLAY, 10YR 3/2 SAA, 10YR 5/6, slightly moist	1	80	1.7	
	GW		SAND AND GRAVEL, 10YR 5/6, slightly moist			2.4	
5	CL		Silty CLAY, 10YR 4/2, moist Sandy Silty CLAY with scattered gravel, 10YR 5/1, very moist As Above	2	80	37.2	
	SW		Silty Medium SAND with scattered gravel, 10YR 5/1 very moist Medium SAND, 10YR 5/1, very moist to wet Medium to Coarse SAND with gravel, 10YR 5/1, very moist to wet			32.0	
10			SAA, wet	3	80	78.4	
						28.5	
15							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-36

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/16/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : South of building
: in asphalt parking lot

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt				
	FL		Gravelly FILL			0.3	
	CL		Silty CLAY with scattered sand and gravel, 10YR 3/2, moist	1	85		
			Sandy Gravelly Silty CLAY, 10YR 3/2, moist			1.0	
			Sandy Silty CLAY with scattered gravel, 10YR 5/1, moist				
5						1.0	
	SP		Medium SAND with scattered gravel, 10YR 5/1, moist	2	60		
						1.0	
			As Above				
	GW		Silty SAND AND GRAVEL; 10YR 5/1, very moist			1.7	
10	SP		Medium SAND, slightly moist	3	80		
	GW		Very Silty SAND AND GRAVEL, 10YR 5/1, very moist			1.0	
	SW		Medium to Coarse SAND with gravel, 10YR 4/1, wet			1.7	
15				4	80	1.7	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-37

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/16/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : South of KB-36, : near fence line

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt				
	FL		Gravelly FILL				
	CL		Sandy Silty CLAY with scattered gravel, 10YR 4/4, moist	1	85	1.7	
						0.3	
	GW		SAND AND GRAVEL, 10YR 5/6, slightly moist As Above				
5						0.3	
	CL		Silty CLAY w/scattered sand and gravel, 10YR 4/2, moist Sandy Silty CLAY with gravel, 10YR 5/1, very moist	2	80		
						0.3	
	GW		SAND AND GRAVEL, 10YR 4/1, moist As Above				
	CL		Sandy Silty CLAY with gravel, 10YR 5/1, very moist			0.3	
	SP		Silty Medium SAND with gravel, 10YR 5/1, very moist				
10	GW		SAND AND GRAVEL, 10YR 4/1, very moist	3	90		
	SW		Silty Medium SAND with gravel, 10YR 5/1, wet Medium to Coarse SAND with gravel, 10YR 5/1, wet			0.3	
15							
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-38

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/16/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : Near SE corner of building

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Asphalt				
			Gravelly FILL				
	CL		Silty CLAY with scattered sand and gravel, 10YR 3/1			1.0	
			SAA, 10YR 4/3, moist	1	95		
						0.3	
			SAA, 10YR 4/2, moist				
5			Sandy Silty CLAY with gravel, 10YR 4/4			0.3	
				2	90		
	SP		Medium SAND, 10YR 5/1, slightly moist			1.7	
			As Above				
	CL		Silty CLAY with scattered sand and gravel, 10YR 4/2, moist			10.2	
10	SW		Medium to Coarse SAND with gravel, 10YR 5/4, moist	3	90		
						10.9	
			SAA, wet				
15							
20							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-39 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 8/27/02 Drilling Method : Geoprobe Geologist : Diane Fordik Drilling Co. : KEI General Location : 225' N of intersection of Cossel Rd and Olin Ave
KERAMIDA Project No. 2829E	

Depth in feet	GRAPHIC	DESCRIPTION	Water Levels	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 4/3 (brown)				0.0	
2		LOAM, dry, pliable, 10YR 4/3 (brown)		1	100	0.0	
4		LOAM with trace gravel, dry, friable, 10YR 4/3 (brown)				0.0	
6				2	100	0.0	
8		Medium SAND, dry, friable, 10YR 5/3 (brown)				0.0	
10				3	90	0.0	
12		Medium SAND, gravelly, medium gravel, dry, friable, 10YR 5/3 (brown)				0.0	
14				4	100	0.0	
16						0.0	
18				5	75	0.0	
20		wet	▼			0.0	Groundwater sample collected for lab analysis (20-24')
22				6	50	NA	
24							
26							
28							
30							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-40

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 30' N of kink in W. : fence

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 5/3 (brown), solvent odor	1	75	1225	Soil sample collected for lab analysis (2-4')
2		No Recovery (3-4')			>4260	
4		LOAM, wet, soft, 10YR 2/1 (black), solvent odor	2	75	>4560	Soil sample collected for lab analysis (4-6')
6		SILT LOAM, damp, hard, 10YR 5/1 (gray), solvent odor			>4346	Soil sample collected for lab analysis (6-8')
8					>4033	
10		Medium SAND with trace gravel, wet, soft, 10YR 5/1 (gray), solvent odor	3	50		
		No Recovery (10-12')			NA	
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-41

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 10' E of KB-40

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 5/3 (brown)			55	
2		LOAMY SAND with brick fragments, dry, friable, 10YR 2/1 (black)	1	100	1729	
4		Medium SAND with trace gravel, dry, friable, 10YR 5/3 (brown)			3501	
6		SILT LOAM with trace gravel, dry, friable, 10YR 5/1(gray)	2	50		
		No Recovery (6-8')			NA	
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-42

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 10' S of KB-40

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry friable, 10YR 5/3 (brown)				
		LOAMY SAND, moist, friable, 10YR 4/1 (dark gray)	1	85	1965	
2					>3643	
4		SANDY LOAM, moist, soft, 10YR 5/1 (gray), solvent odor	2	90	>3147	
6		SILT LOAM, damp, hard, 10YR 4/1 (dark gray), solvent odor			651	
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-43

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 10' N of KB-40

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 5/3 (brown)			25.9	
2		LOAMY SAND with trace medium gravel, dry, friable, 10YR 4/1 (dark gray)	1	75		
		No Recovery (3-4')			733	
4		SAND with silt, saturated, soft, 10YR 2/1 (very dark gray)			>4507	
6		SILT LOAM with trace gravel, damp, hard 10YR 5/1 (gray), solvent odor	2	75	>3556	
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-44

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 25' N of KB-40

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 5/3 (brown)			5.8	
2			1	90	3.8	Soil sample collected for lab analysis (2-4')
4		10YR 4/3 (brown)				Soil sample collected for lab analysis (4-6')
6		LOAMY SAND, gravelly, damp, soft, 10YR 5/2 and 10YR 2/1 (grayish brown and black)	2	55	3.8	Soil sample collected for lab analysis (6-8')
		SILT LOAM, damp, pliable, 10YR 5/1 (gray)			115	
		No Recovery (6.5-8')				
8		SILT LOAM, wet, soft, 10YR 5/1 (gray)			0.0	
10		No Recovery (10-12')	3	50	3.5	
12		Medium SAND, wet, soft, 10YR 5/1 (gray)			53.8	
14			4	100	17.9	
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-45

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 25' E of KB-40

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 5/2 (grayish brown)			5.1	
2			1	100		Soil sample collected for lab analysis (2-4')
		LOAMY SAND with brick, dry, friable, 2.5YR 5/8 (red)			6.4	
4		LOAMY SAND, dry, friable, 10YR 4/3 (brown)				Soil sample collected for lab analysis (4-6')
					5.1	
6			2	100		Soil sample collected for lab analysis (6-8')
					67.3	
8		SILT LOAM, damp, hard, 10YR 5/1 (gray)				
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-46

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 25' S of KB-40

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 5/3 (brown)			6.4	
2			1	95	194	Soil sample collected for lab analysis (2-4')
4		Medium SAND, moist, soft, 10YR 5/3 (brown)			77	Soil sample collected for lab analysis (4-6')
6		SILT LOAM, damp, hard, 10YR 5/1 (gray)	2	70	167	Soil sample collected for lab analysis (6-8')
8		SILT LOAM, wet, soft, 10YR 5/1 (gray)			35.9	
10		Medium SAND, moist, friable, 10YR 5/1 (gray)	3	100	635	Soil sample collected for lab analysis (10-12')
12		wet			30.0	
14			4	100	93.3	
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-47

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 8' W of KB-40

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 4/3 (brown)			10.3	
2		Medium SAND, moist, friable, 10YR 4/3 (brown)	1	95	11.0	Soil sample collected for lab analysis (2-4')
4		LOAMY SAND, moist, friable, 10YR 5/1 (gray)			134	Soil sample collected for lab analysis (4-6')
6		SILT LOAM, moist, pliable, 10YR 5/1 (gray), solvent odor	2	100	300	Soil sample collected for lab analysis (6-8')
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-48

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 35' N of KB-40

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 5/3 (brown)			1.9	
2			1	75		
					3.2	
4		LOAMY SAND, moist, soft, 10YR 5/3 (brown)				
					1.2	
6		Medium SAND, moist, friable, 10YR 5/3 (brown)	2	80		
		SILT LOAM, moist, soft, 10YR 5/1 (gray)			2.5	
8		No Recovery (7.25-8')				
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-49

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/26/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : 40' E of KB-40

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		LOAMY SAND, dry, friable, 10YR 5/3 (brown)			2.5	
		LOAMY SAND, dry, friable to hard, 10YR 5/3 (brown)	1	100		
2		LOAMY SAND with brick, dry, friable, 2.5YR 6/8 (red)				
		LOAMY SAND, dry, friable to hard, 10YR 5/3 (brown)			25.2	
4		LOAMY SAND, moist, soft, 10YR 5/3 (brown)				
					7.1	
6		LOAMY SAND, damp, friable, 10YR 5/3 (brown)	2	100		
					14.2	
8		SILT LOAM, moist, soft, 10YR 5/1 (gray)				
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i1

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/1/01
Drilling Method : Geoprobe
Geologist/Tech : A. Sargent
Drilling Co : IEGS

Location : 1st row, middle grid point, : inside garage door

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete Floor				
	FL		Sand FILL material, 10 YR 4/3			0.1	
			FILL mixed w/ parts, wood, glass, black staining	1	70	1.3	Soil samples collected for lab analysis (2-4' and 4-6')
5	CL		CLAY, dark, black-brown	2	100	0.0	
						0.5	
			CLAY w/ sand & gravel				
			1" sand seams at 9' and 9.5', tan, 1" sand seams at 9' and 9.5'	3	100	0.1	
10						0.2	
	SW		SAND, brown, moist				
			Same as above, brown, wet				
	GW		SAND & GRAVEL, brown, wet	4	80	0.0	
15						0.1	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i2

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/1/01
Drilling Method : Geoprobe
Geologist/Tech : A. Sargent
Drilling Co : IEGS

Location : Row 1, south grid, : point 1

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete floor (4') w/ sand base (2")				
	FL		FILL, black clay mixed with parts, wood, glass	1	70	1.5	
						0.0	Soil sample collected for lab analysis (2-4' and 5-6')
5	CL		CLAY w/ sand & gravel, green-gray (2.5 Y 3/1)	2	100	85.3	
			CLAY mixed w/ sand & gravel, brown (10 YR 5/3)			10.7	
10			Same as above, gray (10 YR 4/1)	3	90	4.5	
			Same as above, moist			2.8	
	GW		SAND & GRAVEL, wet	4	100	0.7	Groundwater sample collected for lab analysis (13-17')
15							
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i3

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/1/01
Drilling Method : Geoprobe
Geologist/Tech : A. Sargent
Drilling Co : IEGS

Location : Row 1, north grid : point

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete floor (4') w/ sand base (8")				
	CL		CLAY (2.5 Y 3/1) w/ sand & gravel	1	70	168	
						11.9	
			SAA				Soil samples collected for lab analysis (2-4' and 4-6')
5				2	30	32.6	
						5.3	
	GW		SAND & GRAVEL	3	30	79.4	
10						17.1	
			SAA, wet	4	NA	3.9	
15						4.1	
20							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-i4 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 5/1/01 Drilling Method : Geoprobe Geologist/Tech : A. Sargent Drilling Co : IEGS Location : 2nd row, middle grid : point
KERAMIDA Project No. 2829E	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete floor (4') w/ sand base (8")				
	FL		FILL Black CLAY w/ parts, sand & gravel, glass	1	50	1.2	
	CL		CLAY w/ sand & gravel Olive (2.5 Y 5/3) sandy CLAY w/ trace gravel			4.1	Soil samples collected for lab analysis (2-4' & 4-6')
5				2	80	0.6	
			2" sand seam Sandy CLAY w/ trace gravel, gray (10 YR 5/1), moist			0.7	
10				3	70	0.6	
			1" sand seam			1.3	
			Black CLAYseam w/ sand & gravel & parts			2.1	Soil sample collected for lab analysis (13-13.5')
	SP		Fine SAND layer, brown, 10 YR 5/3				
15	GW		SAND & GRAVEL, wet	4	90	8.9	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i5

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/1/01
Drilling Method : Geoprobe
Geologist/Tech : A. Sargent
Drilling Co : IEGS

Location : 2nd row north grid : point

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete floor (4') w/ sand base (2")				
	FL		FILL Sandy / gravelly CLAY, brown Layer of parts, glass, black sand & gravel	1	60	0.0	
	CL		Dark green-gray (5 Y 3/2) CLAY w/ sand & gravel Olive-green (5 Y 5/3), sandy CLAY	2	100	0.9 7.7	Soil samples collected for lab analysis (2-4' & 4-6')
5	GW		SAND & GRAVEL w/ some clay			3.3 7.1	
10	SP		Fine SAND w/ trace gravel	3	70	15.0	
	GW		SAND & GRAVEL, wet	4	90	17.8 1.6	
15							
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i6

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/1/01
Drilling Method : Geoprobe
Geologist/Tech : A. Sargent
Drilling Co : IEGS

Location : 2nd row, south grid : point

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete floor (4') w/ sand base (2")				
	CL		Black sandy, gravelly CLAY	1	70	28.6	
			Fine powder, dark red-brown			3.9	
5	CL		Sandy CLAY w/ gravel, olive-green (2.5 Y 5/3)	2	100	2.0	Soil samples collected for lab analysis (3-4' & 4-6')
			1" sand seam			0.9	
10				3	80	3.3	
						3.2	
	GW		SAND & GRAVEL	4	100	6.7	
15			Same as above, wet			2.3	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i7

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/1/01
Drilling Method : Geoprobe
Geologist/Tech : A. Sargent
Drilling Co : IEGS

Location : 3rd row, north grid : point

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete floor (4') w/ sand base (2")				
	CL		Brown (10 YR 3/3) CLAY w/ sand & gravel	1	80	0.5	Soil sample collected for lab analysis (2-4')
			SAA			0.0	
5				2	80	0.0	
	GW		SAND & GRAVEL, brown (10 YR 4/3)			0.3	
			SAA			0.0	
10	CL		Gray-brown (10 YR 4/2) CLAY w/ sand & gravel	3	90		
	SP		Fine SAND, brown (10 YR 4/3)			0.0	
	GW		SAND & GRAVEL			0.0	
			SAA, wet at 14'	4	100		
15						0.0	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i8

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/1/01
Drilling Method : Geoprobe
Geologist/Tech : A. Sargent
Drilling Co : IEGS

Location : 3rd row, middle grid : point

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete floor (4') w/ sand base (2")				
	CL		Dark brownish-gray (2.5 Y 3/1) CLAY w/ sand & gravel	1	80	0.2 0.2	Soil sample collected for lab analysis (2-4')
	GW		SAND & GRAVEL, dry, tan (10 YR 7/2)				
5	CL		Dark brown (10 YR 3/2) CLAY w/ sand & gravel	2	90	0.5	
	GW		SAND & GRAVEL w/ some clay			0.0	
	SP		Fine SAND, brown (10 YR 4/3)			0.2	
10	CL		Brown-gray CLAY w/ sand & gravel (10 YR 4/2)	3	100		
	SP		Fine SAND, brown (10 YR 4/3)			0.0	
	GW		Clayey SAND & GRAVEL, moist, (10 YR 4/3) SAND & GRAVEL, wet, (10 YR 4/3)	4	90	0.0 0.0	
15							
20							

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KERAMIDA Environmental, Inc.	LOG OF BORING KB-i9 (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 5/1/01 Drilling Method : Geoprobe Geologist/Tech : A. Sargent Drilling Co : IEGS Location : 3rd row, south grid : point
KERAMIDA Project No. 2829E	

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete floor (4') w/ sand base (2")				
	CL		Dark brownish-gray CLAY w/ sand & gravel	1	100	0.2 8.8	Soil sample collected for lab analysis (2-4')
5				2	90	3.2 2.5	
			Same as above, gray				
				3	90	1.5 0.0	
10	GW		SAND & GRAVEL				
			Same as above, wet	4	100	0.8 0.0	
15							
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i12

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/1/01
Drilling Method : Geoprobe
Geologist/Tech : A. Sargent
Drilling Co : IEGS

Location : 4th row, south grid
: point

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete floor (4') w/ sand base (8")				
	CL		Sandy CLAY w/ trace gravel, dark brown-gray (10 YR 3/2)		80	0.5	Soil sample collected for lab analysis (2-4')
			Same as above, olive-green (2.5			0.6	
5						0.0	
	GW		SAND & GRAVEL				
10	CL		Sandy, gravelly CLAY, gray (1		80	0.5	
	GW		SAND & GRAVEL	4	100	0.0	Groundwater sample collected for lab analysis (13-17')
15						0.1	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i13

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/16/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : Adjacent to floor : drain in NE corner : of building

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete				
	FL		Sand and Gravel FILL				
	CL		Sandy Gravelly Silty CLAY, 10YR 3/2, moist Sandy Silty CLAY with scattered gravel, 10YR 3/2	1	95	0.3	
			Slightly Sandy Silty CLAY with scattered gravel, 10YR 3/2			0.3	
			As Above				
5				2	80	0.3	
			Sandy Silty CLAY with gravel, 10YR 3/2, moist				
	GW		SAND AND GRAVEL, 10YR 5/4, slightly moist			0.3	
			As Above				
10				3	80	0.3	
			As Above			0.3	
				4	75	0.3	
15			As Above, wet			0.3	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i14

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/16/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : NW corner of old : building by sump

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete				
	FL		Sand and gravel FILL			0.3	
	CL		Sandy Silty CLAY with scattered gravel, 10YR 4/4, moist	1	75		
			As Above			0.3	
5	GW		Silty SAND AND GRAVEL, 10YR 3/3, moist	2	60	0.3	
			SAND AND GRAVEL, 10 YR 5/4			0.3	
			Silty SAND AND GRAVEL, 10YR 4/4, moist			0.3	
10	CL		Sandy Silty CLAY, 10YR 4/2, very moist	3	80		
						0.3	
	SP		Fine to Medium SAND, 10YR 5/3, moist				
15							
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i15

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/16/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : Along south wall, : west boring

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete				
	FL		Sand and gravel FILL, 10YR 4/4				
	CL		Sandy Silty CLAY with scattered gravel, 10YR 4/2, moist	1	80	0.3	
						1.0	
5			Silty CLAY with scattered sand and gravel, 10YR 4/2, moist	2	95	1.7	
						1.0	
	GW		Silty SAND AND GRAVEL, 10YR 5/6, moist				
			Sand and gravel, 10YR 5/6, slightly moist			13.7	
10	CL		Silty CLAY with scattered sand and gravel, 10YR 4/2, (wet sand seams, less than one inch thick at 10" and 10.5"), moist	3	95		
			Sandy silty clay with gravel, 10YR 5/1, very moist			29.2	
			As Above			45.3	
	SP		Medium SAND, 10YR 5/4, moist				
15	GW		SAND AND GRAVEL, 10YR 5/4, moist				
			As Above			39.0	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i16

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/16/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : Along south wall, : east boring

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete				
	FL		Sand and Gravel FILL, 10YR 4/4	1	60	0.3	
	CL		Silty CLAY with sand, 10YR 3/2, moist			1.0	
			SAA, 10YR 4/2				
5				2	95	1.0	
			Sandy Silty CLAY with gravel, 10YR 3/2			3.1	
			SAA				
				3	80	15.1	
10	SP		Medium SAND, 10YR 5/3, moist				
	GW		Silty SAND AND GRAVEL, 10YR 5/4, moist			12.3	
	CL		Sandy Silty CLAY with scattered gravel, 10YR 4/2, very moist				
	GW		SAND AND GRAVEL, 10YR 5/3	4	95	19.3	
15			SAND AND GRAVEL, 10YR 4/2, wet			10.2	
20							

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KERAMIDA Environmental, Inc.

LOG OF BORING KB-i17

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/18/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : Along southern wall, : middle boring

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete				
	FL		Sand and Gravel FILL, 10YR 4/4				
	CL		Sandy Silty CLAY with gravel, 10YR 4/4, slightly moist	1	95	23.5	
			Silty CLAY with scattered sand and gravel, 10YR 3/2, slightly moist			11.6	
			Sandly Silty CLAY, 10YR 3/2, slightly moist				
5			Sandy Gravelly Silty CLAY, 10YR 4/4, slightly moist	2	95	18.6	
			SAA, 10YR 5/6			22.8	
	GW		SAND AND GRAVEL, 10YR 5/4, slightly moist	3	85	84.0	
10	CL		Sandy Silty CLAY with scattered gravel, 10YR 4/4, moist				
			Silty CLAY with scattered sand and gravel, 10YR 5/1			77	
	GW		Silty SAND AND GRAVEL, 10YR 4/4, moist to very moist	4	85	132	
			SAND AND GRAVEL, 10YR 4/4, very moist				
15			SAA, wet			163	
20							

02-25-2002 G:\CLIENTS\GIGENUINEPS\OILBORING\KB-I17.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-i18

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/18/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : NE of KB-I17, : adjacent to floor : drain

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete				
	FL		Sand and Gravel FILL			3.8	
	CL		Sandy Silty CLAY with gravel, 10YR 3/2, slightly moist	1	70		
			Sandy Silty CLAY with scattered gravel, 10YR, 3/2 moist			3.1	
5			Sandy Silty CLAY with gravel, 10YR 3/2, moist	2	95	6.6	
	GW		Silty SAND AND GRAVEL, 10YR 5/4, moist SAND AND GRAVEL, SAA SAND AND GRAVEL, 10YR 5/3, moist			21.4	
10				3	90	42.5	
	CL		Sandy Silty CLAY with scattered gravel, 10YR 4/2, moist			40.2	
	GW		SAND AND GRAVEL, 10YR 4/4, moist SAND AND GRAVEL, 10YR 5/3, moist			38.0	
15			SAA, wet	4	90	17.2	
20							

02-25-2002 G:\CLIENTS\GENUINEP\SOILBORING\KB-I18.BOR

KERAMIDA Environmental, Inc.

LOG OF BORING KB-i19

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

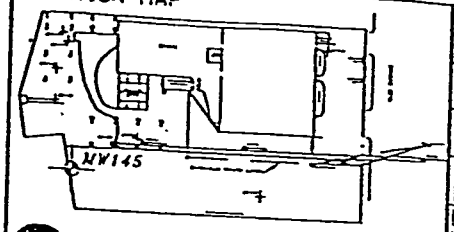
Project ID : 2829E
Date Drilled : 5/18/01
Drilling Method : Geoprobe
Geologist/Tech : Brian Harrington
Drilling Co. : Terra Probe

General Location : North of KB-I16, : adjacent to flow : drain

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete				
	FL		Gravelly FILL				
	CL		Sandy Gravelly Silty CLAY, 10YR 3/2, slightly moist	1	95	4.5	
			Silty CLAY with scattered sand and gravel, 10YR 3/2, slightly moist			5.9	
			As Above	2	95	4.5	
5						8.7	
	GW		Silty SAND AND GRAVEL, 10YR 5/6, moist SAND AND GRAVEL, 10YR 5/3, slightly moist	3	80	34.1	
10	CL		Silty CLAY with scattered sand and gravel, 10YR 4/2			7.3	
			As Above				
			Sandy Silty CLAY with scattered gravel, 10YR 5/1, very moist	4	80	9.5	
	GW		SAND AND GRAVEL, 10YR 5/3, moist				
15	CL		Silty CLAY with scattered sand and gravel, 10YR 5/1, very moist			1.0	
	GW		SAND AND GRAVEL, 10YR 5/3, wet				
20							

02-25-2002 G:\CLIENTS\G\GENUINEP\SOILBORI\KB-I19.BOR

LOCATION MAP



ENGINEERING-SCIENCE, INC. WELL LOG

PAGE 1 OF 2

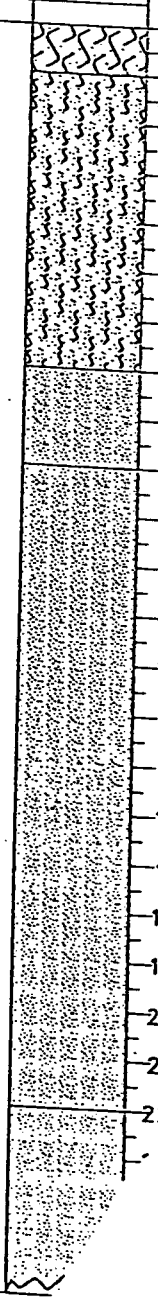
WELL NUMBER	SS145 / MW145	LOCATION	GM ALLISON GAS TURBINE PLANT 10
DATE	6/2/93	WEATHER	RAIN 55 °F
LOGGED BY	D.A. GROUTAGE	DRILLED BY	EARTH EXPLORATION
DRILLING METHOD	4.25' I.D. HOLLOW-STEM AUGERS	SAMPLING METHOD	STAINLESS STEEL SPLIT-SPOON
GRAVEL PACK	COARSE GRAINED SILICA SAND	SEAL	BENTONITE CHIPS

CASING TYPE SCHEDULE 5, 316 STAINLESS STEEL DIAMETER 2-INCH LENGTH 17.5 FEET HOLE DIA. 8-INCH

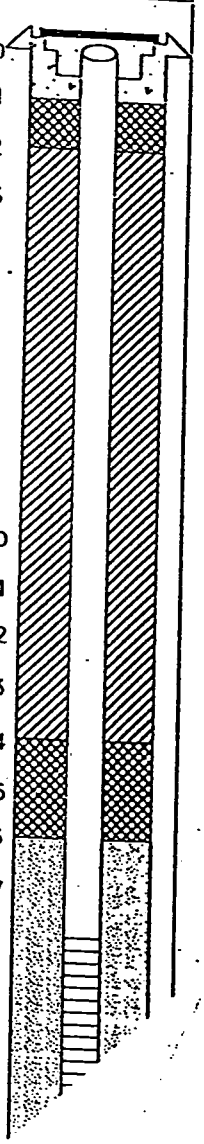
SCREEN TYPE 316 STAINLESS STEELSLOT 0.010-INCH DIAMETER 2-INCH LENGTH 10 FEET TOTAL DEPTH 28.0 FEET

SAMPLE NO.	ORGANIC VAPORS (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS (COLOR, SOIL, TYPE, SORTING, MOISTURE, PLASTICITY)
		0–1			0-1.0' SANDY SILT, brown topsoil. 1.0'-7.0' SILTY SAND, poorly sorted, with 20% small gravel, brown dry to damp.
		3		4, 2	
	0.5	4–5		10, 6	4.2'-4.3' Reddish brown stained interval. Damp to moist.
		7–8		20, 36	7.0'-9.0' SAND poorly sorted with silt and clay < 10% small gravel.
	6.3	9–10	20%	31, 41	9.0'-22.0' SAND, poorly sorted, small gravel a few large cobbles, gray, wet.
		12–13	GROUND-WATER	9, 12	
S01	11.8	14–15	70%	11, 14	
		18–19		13, 22	
	13.6	20	50%	10, 23	
		23–24		35, 44	22.0'-26.5' SAND, medium grained moderately sorted, gray, saturated.
	12.3	25	60%	73, 58	

LITHO. PROFILE



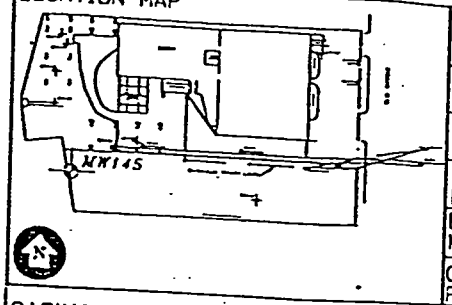
WELL COMPLETION



JOB #	DATE	DRAWN BY
CH151.02	7-8-93	MJK
UPDATE # 3/MJK		

SANDY SILT · SAND · BENTONITE CHIPS · SILTY SAND · CONCRETE · BENTONITE GRO

LOCATION MAP



ENGINEERING-SCIENCE, INC. WELL LOG

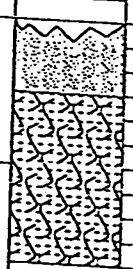
WELL NUMBER	SB145 / MW145	LOCATION	GM ALLISON GAS TURBINE PLANT 10
DATE	6/2/93	WEATHER	RAIN 55 °F
LOGGED BY	D.A. GROUTAGE	DRILLED BY	EARTH EXPLORATION
DRILLING METHOD	4.25' I.D. HOLLOW-STEM AUGERS	SAMPLING METHOD	STAINLESS STEEL SPLIT-SPOON
GRAVEL PACK	COARSE GRAINED SILICA SAND	SEAL	BENTONITE CHIPS

CASING TYPE SCHEDULE 5, 316 STAINLESS STEEL DIAMETER 2-INCH LENGTH 17.5 FEET HOLE DIA. 8-INCH

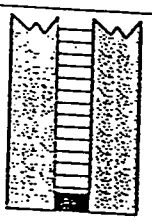
SCREEN TYPE 316 STAINLESS STEELSLOT 0.010-INCH DIAMETER 2-INCH LENGTH 10 FEET TOTAL DEPTH 28.0 FEET

SAMPLE NO.	ORGANIC VAPORS (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS (COLOR, SOIL, TYPE, SORTING, MOISTURE, PLASTICITY)
		25			
		26			26.5'-30' CLAYEY SILT with coarse grained sand and small gravel 10% damp, grey.
		27			
		28			TD = 28'
				9	
S02	0.7	29	100%	16	
				21	
		30		15	
		31			
		32			
		33			
		34			
		35			
		36			
		37			
		38			
		39			
		40			
		41			
		42			
		43			
		44			WELL CONSTRUCTION:
		45			SCREENED: 17.5' to 27.5'
					SAND: 16' to 28'
		46			BENTONITE CHIPS: 14' to 16'
					BENTONITE GROUT: 2' to 14'
		47			BENTONITE CHIPS: 1' to 2'
					FINISHED WITH FLUSH MOUNT
		48			PROTECTIVE WELL BOX
					IN CONCRETE.
		49			
		50			

LITHO. PROFILE



WELL COMPLETION

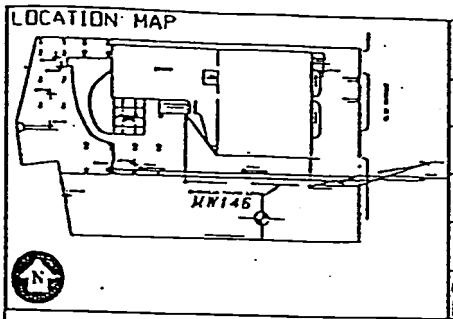


JOB#	DATE:	DRAWN BY:
CH151.02	6-29-93	MJK
UPDATE # 1/MJK		

SAND

CLAYEY SILT

LOCATION MAP



ENGINEERING-SCIENCE, INC. WELL LOG

PAGE 1 OF 1

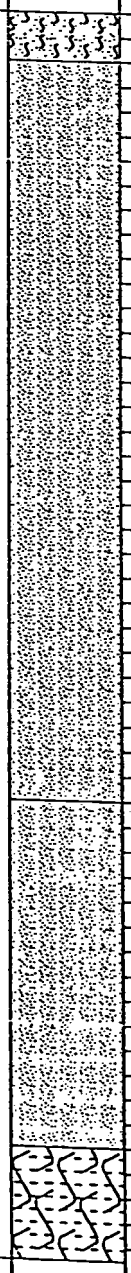
WELL NUMBER	SB146 / MW146	LOCATION	GM ALLISON GAS TURBINE PLANT 10
DATE	6/2,3/93	WEATHER	CLOUDY, RAIN 55-60 °F
LOGGED BY	D.A. GROUTAGE	DRILLED BY	EARTH EXPLORATION
DRILLING METHOD	4.25' I.D. HOLLOW-STEM AUGERS	SAMPLING METHOD	STAINLESS STEEL SPLIT-SPOON
GRAVEL PACK	COARSE GRAINED SILICA SAND	SEAL	BENTONITE CHIPS

CASING TYPE SCHEDULE 5, 316 STAINLESS STEEL DIAMETER 2-INCH LENGTH 15.0 FEET HOLE DIA. 8-INCH

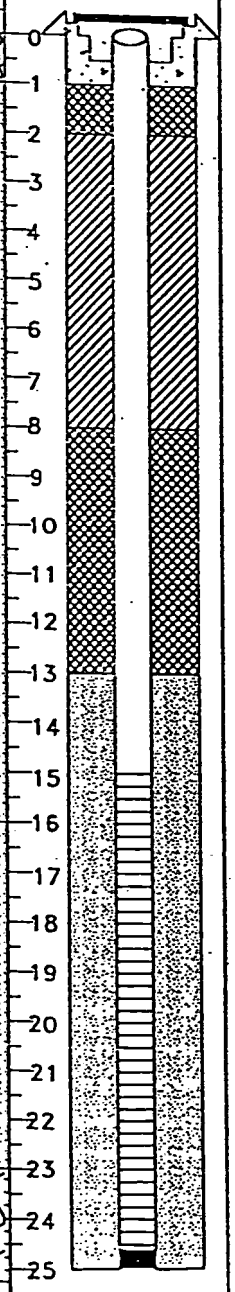
SCREEN TYPE 316 STAINLESS STEELSLOT 0.010-INCH DIAMETER 2-INCH LENGTH 10.0 FEET TOTAL DEPTH 25.3 FEET

SAMPLE NO.	ORGANIC VAPORS (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS (COLOR, SOIL, TYPE, SORTING, MOISTURE, PLASTICITY)
		0–1			0-1.0' SILTY SAND, moderately sorted, brown. 1.0'-16.0' SAND, medium grained, moderately sorted with small gravel < 10%, light brown to yellow, damp to dry.
	3.3	3–4	80%	3, 4, 6, 7	
		8–9	0%	8, 10, 14, 12	
		13	GROUND-WATER		
S01	3.5	14–15	100%	5, 9, 13, 18	WELL CONSTRUCTION: SCREENED: 15' to 25' SAND: 13' to 25.3' BENTONITE CHIPS: 8' to 13' BENTONITE GROUT: 2' to 8' BENTONITE CHIPS: 1' to 2' FINISHED WITH FLUSH MOUNT PROTECTIVE WELL BOX IN CONCRETE.
		16–23			16.0'-23.0' SAND, poorly sorted with gravel, due to sand coming into augers sample not collected at 18-20 feet depth. Attempted to seat augers in clay prior to sampling.
S02	0.0	24–25	80%	10, 20, 33, 31	23.0'-24.5' CLAYEY SILT, sand and gravel laminae 1-2' thick interspersed, gray, becomes damp to dry with depth. TD = 25.3'

LITHO. PROFILE



WELL COMPLETION

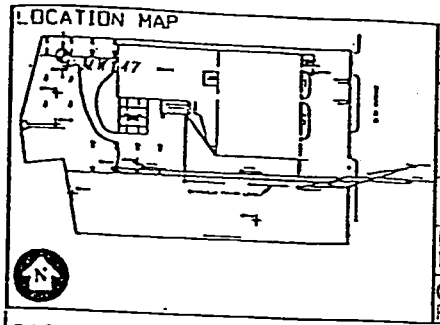


JOB#	DATE	DRAWN BY
CH151.02	6-29-93	MJK

UPDATE # 1/MJK

SILTY SAND · CLAYEY SAND · BENTONITE CHIPS · SAND · CONCRETE · BENTONITE GROUT

LOCATION MAP



ENGINEERING-SCIENCE, INC. WELL LOG

PAGE 1 OF 2

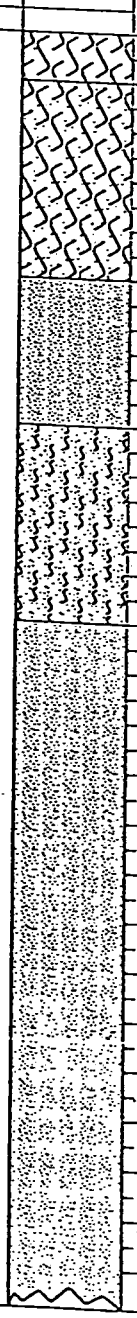
WELL NUMBER	SB147 / MW147	LOCATION	GM ALLISON GAS TURBINE PLANT 10
DATE	6/3/93	WEATHER	CLOUDY 55 °F
LOGGED BY	D.A. GROUTAGE	DRILLED BY	EARTH EXPLORATION
DRILLING METHOD	4.25' I.D. HOLLOW-STEM AUGERS	SAMPLING METHOD	STAINLESS STEEL SPLIT-SPOON
GRAVEL PACK	COARSE GRAINED SILICA SAND	SEAL	BENTONITE CHIPS

CASING TYPE SCHEDULE 5, 316 STAINLESS STEEL DIAMETER 2-INCH LENGTH 20.0 FEET HOLE DIA. 8-INCH

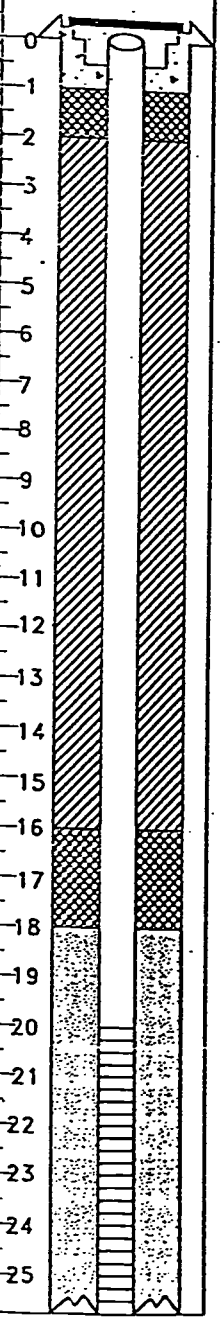
SCREEN TYPE 316 STAINLESS STEELSLOT 0.010-INCH DIAMETER 2-INCH LENGTH 10 FEET TOTAL DEPTH 30.5 FEET

SAMPLE NO.	ORGANIC VAPORS (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS (COLOR, SOIL, TYPE, SORTING, MOISTURE, PLASTICITY)
		0–3			0-1.0' SILTY, dark brown organic topsoil. 1.0'-4.9' SANDY SILT, brown with small gravel, damp to moist.
	54.4	4–5	30%	1, 2, 2, 2	4.9'-8.1' SAND, poorly sorted, damp.
S01	580	9–10	GROUNDWATER 100%	1, 2, 2, 3	8.1'-12.0' Wet SILTY SAND, with small gravel saturated at 9.0'
	4.8	13–15	100%	7, 12, 13, 15	12.0'-29.2' SAND, poorly sorted with small gravel.
	6.7	18–20	100%	3, 8, 14, 18	
	1.3	23–25	60%	9, 17, 22, 26	

LITHO. PROFILE



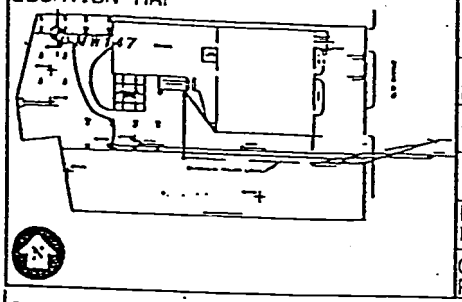
WELL COMPLETION



JOB	DATE	DRAWN BY
CH151.02	6-29-93	MJK
UPDATE # 1/MJK		

SILT | SAND | CONCRETE | BENTONITE CHIPS | SANDY SILT | SILTY SAND | BENTONITE GROUT

LOCATION MAP



ENGINEERING-SCIENCE, INC. WELL LOG

PAGE 2 OF 2

WELL NUMBER	SB147 / MW147	LOCATION	GM ALLISON GAS TURBINE PLANT 10
DATE	6/3/93	WEATHER	CLOUDY 55 °F
LOGGED BY	D.A. GROUTAGE	DRILLED BY	EARTH EXPLORATION
DRILLING METHOD	4.25' I.D. HOLLOW-STEM AUGERS	SAMPLING METHOD	STAINLESS STEEL SPLIT-SPOON
GRAVEL PACK	COARSE GRAINED SILICA SAND	SEAL	BENTONITE CHIPS

CASING TYPE SCHEDULE 5, 316 STAINLESS STEEL DIAMETER 2-INCH LENGTH 20.0 FEET HOLE DIA. 8-INCH

SCREEN TYPE 316 STAINLESS STEELSLOT 0.010-INCH DIAMETER 2-INCH LENGTH 10 FEET TOTAL DEPTH 30.5 FEET

SAMPLE NO.	ORGANIC VAPORS (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS (COLOR, SOIL, TYPE, SORTING, MOISTURE, PLASTICITY)
		25			12.0'-29.2' SAND, poorly sorted with small gravel.
		26			
		27			
		28			
		29		10 17	
S02	0.9		100%	17 30	29.2'-30.5' SILT with sand and small gravel, hard, gray, damp. TD = 30.5'
		30			
		31			
		32			
		33			
		34			
		35			
		36			
		37			
		38			
		39			
		40			
		41			
		42			
		43			
		44			
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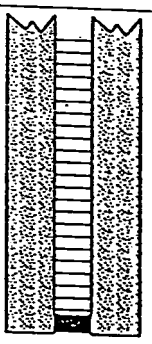
		47			
		48			
		49			
		50			

LITHO. PROFILE

WELL COMPLETION



WELL CONSTRUCTION:
- SCREENED: 20' to 30'
- SAND: 18' to 30.5'
- BENTONITE CHIPS: 16' to 18'
- BENTONITE GROUT: 2' to 16'
- BENTONITE CHIPS: 1' to 2'
- FINISHED WITH FLUSH MOUNT PROTECTIVE WELL BOX IN CONCRETE.

JOB# CH151.02 DATE: 6-29-93 DRAWN BY: MJK

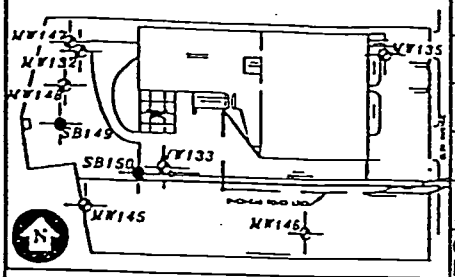
UPDATE # 1/MJK

SAND

SILT

151WL13

LOCATION MAP



ENGINEERING-SCIENCE, INC. WELL LOG

PAGE 1 OF 1

WELL NUMBER	SB148/MW148	LOCATION	GM-AGT, PLANT 10
DATE	6-3-93	WEATHER	CLOUDY, 65 °F
LOGGED BY	D. GROUTAGE	DRILLED BY	EARTH EXPLORATION, INC.
DRILLING METHOD	4.25"ID HOLLOW-STEM AUGER	SAMPLING METHOD	SPLIT-SPOON
GRAVEL PACK	SILICA SAND	SEAL	BENTONITE CHIPS

CASING TYPE SCH 5, 316 S.S. DIAMETER 2" LENGTH 15' HOLE DIA. 8"

SCREEN TYPE SCH 5, 316 S.S. SLOT 0.010" DIAMETER 2" LENGTH 10' TOTAL DEPTH 25.5'

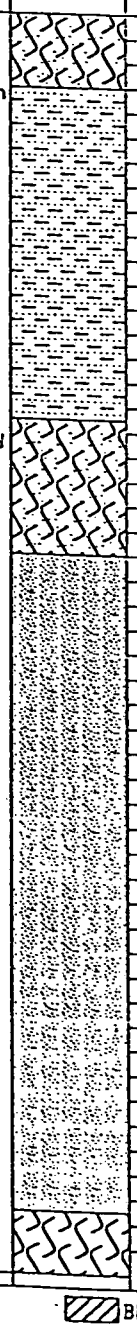
SAMPLE NO.	ORGANIC VAPORS (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS (COLOR, SOIL, TYPE, SORTING, MOISTURE, PLASTICITY)
		0			0-1.5' SANDY SILT; topsoil brown to dark brown; moist.
		1			1.5'-8.3' SANDY CLAY; brown to orange brown with some silt, moderately plastic, moist.
		2			
		3		3	
	0.0	4	80%	2	
				2	
		5		4	
		6			
		7			
		8		2	8.3'-11' SANDY SILT with clay; becoming more sandy with depth. Gray, wet. Becoming saturated at approx. 9.5'.
S01	334	9	100%	2	
				4	
		10		3	
		11			11'-24.2' SAND. Poorly sorted with gravel, some sand, fine to medium grained laminae 2-3" thick at various intervals; gray.
		12			
		13		8	
	525	14	50%	12	
				13	
		15		14	
		16			
		17			
		18		7	
		19		11	
	193		60%	24	
		20		21	
		21			
		22			
		23		8	
	5.2	24	80%	14	
				16	24.2'-25.5' SILT with small gravel; gray, damp to dry; hard.
		25		17	TD = 25.5'

WELL CONSTRUCTION:

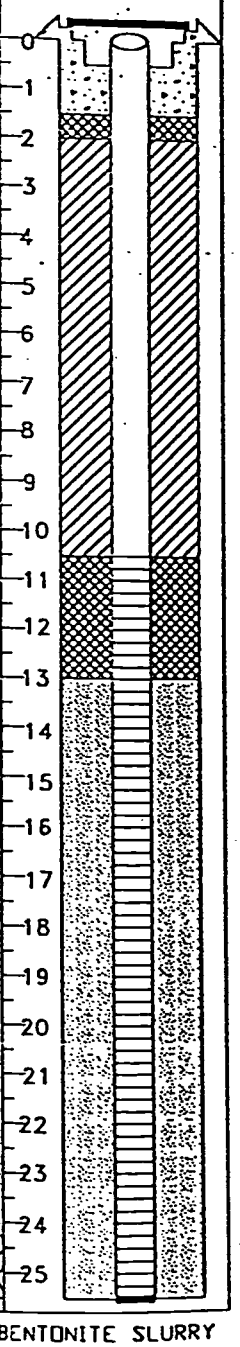
SCREENED:	25.5'-10.5'
SAND PACK:	25.5'-13'
BENTONITE CHIPS:	13'-10.5'
BENTONITE SLURRY:	10.5'-2'
BENTONITE CHIPS:	2'-1'

Finished with flush mount protective well box in CONCRETE.

LITHO. PROFILE



WELL COMPLETION



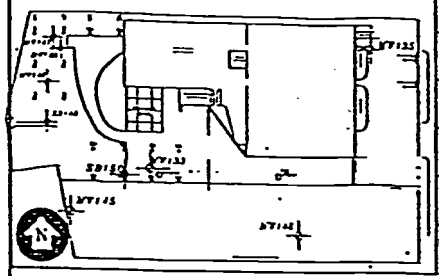
JOB CH151 DATE 6-14-93 DRAWN BY CK

UPDATE # 0

CONCRETE | SAND | BENTONITE CHIPS | SANDY SILT | SANDY CLAY | SILT | BENTONITE SLURRY

151WL14

LOCATION MAP



ENGINEERING-SCIENCE, INC. WELL LOG

PAGE 1 OF 1

WELL NUMBER	SB149	LOCATION	GM-AGT, PLANT 10
DATE	6-4-93	WEATHER	RAIN, T-STORMS, 60 °F
LOGGED BY	D. GROUTAGE	DRILLED BY	EARTH EXPLORATION, INC.
DRILLING METHOD	3.25"ID HOLLOW-STEM AUGER	SAMPLING METHOD	SPLIT-SPOON
GRAVEL PACK	NA	SEAL	BENTONITE CHIPS

CASING TYPE NA DIAMETER LENGTH HOLE DIA. 6"

SCREEN TYPE NA SLOT DIAMETER LENGTH TOTAL DEPTH 15'

SAMPLE NO.	ORGANIC VAPORS (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS (COLOR, SOIL, TYPE, SORTING, MOISTURE, PLASTICITY)
		0			0-2.5' SANDY SILT; topsoil brown.
		1			
		2			
		3			2.5'-6' SAND; poorly sorted, damp, brown.
				3	
				5	
	4.0	4	60%	7	
				8	
		5			
		6			6'-8.2' SANDY SILT; brown to light brown; wet.
		7			
		8		9	8.2'-10.5' SANDY SILT; gray, wet.
S01	48.4	9	80%	7	
			GROUND-WATER	6	
		10		3	
		11			10.5'-15' SAND; poorly sorted with gravel, nultiple 2-4" sand laminae, nedium to fine grained.
		12			
		13		9	
				14	
	24.5	14	90%	15	
				16	TD = 15'
		15			
		16			Boring sealed with bentonite chips.
		17			
		18			
		19			
		20			
		21			
		22			
		23			
		24			
		25			

LITHO. PROFILE

WELL COMPLETION

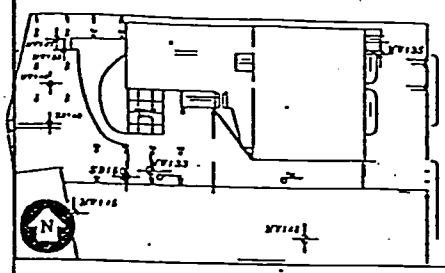
JOB CH151 DATE 6-29-93 DRAWN BY CK

UPDATE # 1.ck

SANDY SILT SAND

151WL15

LOCATION MAP



ENGINEERING-SCIENCE, INC. WELL LOG

PAGE 1 OF 1

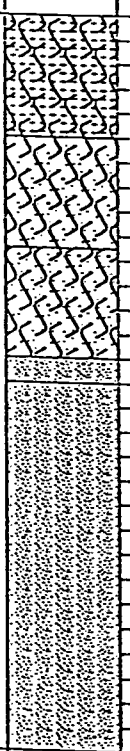
WELL NUMBER	SB150	LOCATION	GM-AGT, PLANT 10
DATE	6-4-93	WEATHER	CLOUDY, 70 °F
LOGGED BY	D. GROUTAGE	DRILLED BY	EARTH EXPLORATION, INC.
DRILLING METHOD	3.25"ID HOLLOW-STEM AUGER	SAMPLING METHOD	SPLIT-SPOON
GRAVEL PACK	NA	SEAL	BENTONITE CHIPS

CASING TYPE NA DIAMETER LENGTH HOLE DIA. 6"

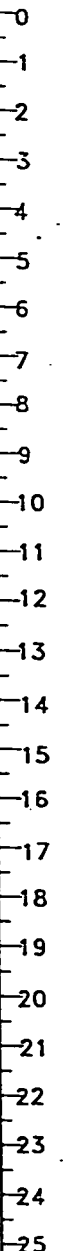
SCREEN TYPE NA SLOT DIAMETER LENGTH TOTAL DEPTH 15'

SAMPLE NO.	ORGANIC VAPORS (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS (COLOR, SOIL, TYPE, SORTING, MOISTURE, PLASTICITY)
		0			0-2.5' CLAYEY SILT with sand and gravel; moist.
		1			
		2			2.5'-4.8' SANDY SILT; brown, damp.
		3		3	
SO1	684	4	30%	4	
				10	
		5		13	4.8'-7' SANDY SILT; gray, damp to wet.
		6			
		7			7'-7.5' SAND; poorly sorted, gray and wet.
		8			7.5'-15' SAND; poorly sorted, gray, saturated.
				8	
SO2	38.4	9	80%	8	
			GROUND-WATER	11	
		10		11	
		11			
		12			
		13		4	
	24.6	14	80%	9	
				15	
		15		16	TD = 15'
		16			Boring sealed with bentonite chips.
		17			
		18			
		19			
		20			
		21			
		22			
		23			
		24			
		25			

LITHO. PROFILE



WELL COMPLETION



JOB# CH151 DATE: 6-29-93 DRAWN BY: CK

UPDATE # 1.ck

SANDY SILT SAND CLAYEY SILT

Drilling Log

GROUNDWATER TECHNOLOGY

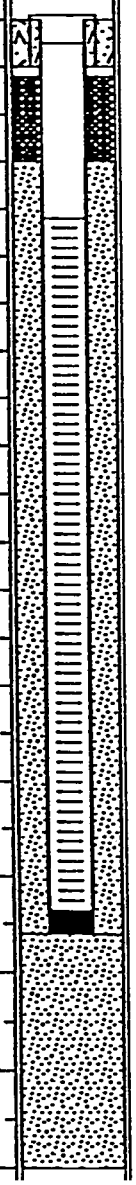
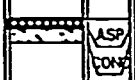
Monitoring Well MW-150

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 20 ft. Diameter 6 in.
Top of Casing 712.93 ft. Water Level Initial _____ Static 13.30 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 4.2 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-55
Drill Co. Haskett Drilling Method Hollow-Stem Auger
Driller D. Manning Log By Krista Gremos Date 6/28/95 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mounted well box.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0						ASP CONC	Asphalt. Concrete.
2							Blank drilled to 25'.
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							

GROUNDWATER TECHNOLOGY

Drilling Log

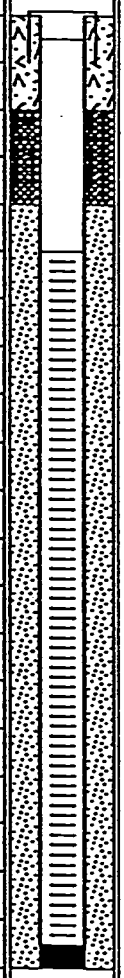
Monitoring Well MW-151

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 20 ft. Diameter 6 in.
Top of Casing 712.96 ft. Water Level Initial _____ Static 14.04 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 5 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-55
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller J. Mathis Log By Krista Gremos Date 7/11/95 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mounted well box.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2						
0					ASP	Asphalt.
2						Blank drilled to 20'.
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						Boring terminated at 20 feet. Monitoring well set to 20 feet.
24						

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-152

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 19.8 ft. Diameter 6 in.
Top of Casing 713.06 ft. Water Level Initial _____ Static 13.57 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 4.8 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core B61-CA Mod. Split spoon
Drill Co. Haskett Drilling Method Hollow-Stem Auger
Driller D. Manning Log By Gary Prange Date 6/27/95 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mounted well box.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0						ASP CON	Asphalt. Concrete.
2							
4		0.0	3-5	1 2 4 4		CL	Sandy CLAY: Dark brown, sandy CLAY, trace of silt, damp, stiff.
6							
8		0.0	8-10	6 9 12 14		SW ML	SAND: Light yellow brown, fine to coarse SAND, trace fine gravel, damp, loose, to 9'. Medium brown, sandy SILT, wet, loose, to 10'.
10							
12							
14		0.0	13-15	4 5 7 9		SW	SAND: Medium yellow brown, fine to coarse SAND, some medium gravel, wet, dense.
16							
18		7.5	18-20	5 5 7 7		SW	SAND: Gray, fine to coarse SAND, well graded, very moist, to 19.5'. Fine gray SAND, poorly graded, very moist, to 20'.
20							
22							Boring terminated at 20 feet. Sampled to 20 feet. Monitoring well set to 19.8 feet. Well flushed, sand heave in boring.
24							

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-153

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 20 ft. Diameter 6 in.
Top of Casing 711.64 ft. Water Level Initial _____ Static 11.76 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 4.5 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-55
Drill Co. Haskett Drilling Method Hollow-Stem Auger
Driller D. Manning Log By Krista Gremos Date 6/29/95 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well Pro-cover well box.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
2.5							
Not to scale							
0							
2							Blank drilled to 22.
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							Boring terminated at 22 feet. Monitoring well set to 19.5 feet. Augers loaded prior to setting well. Sand heave in boring.
24							

GROUNDWATER TECHNOLOGY

Drilling Log

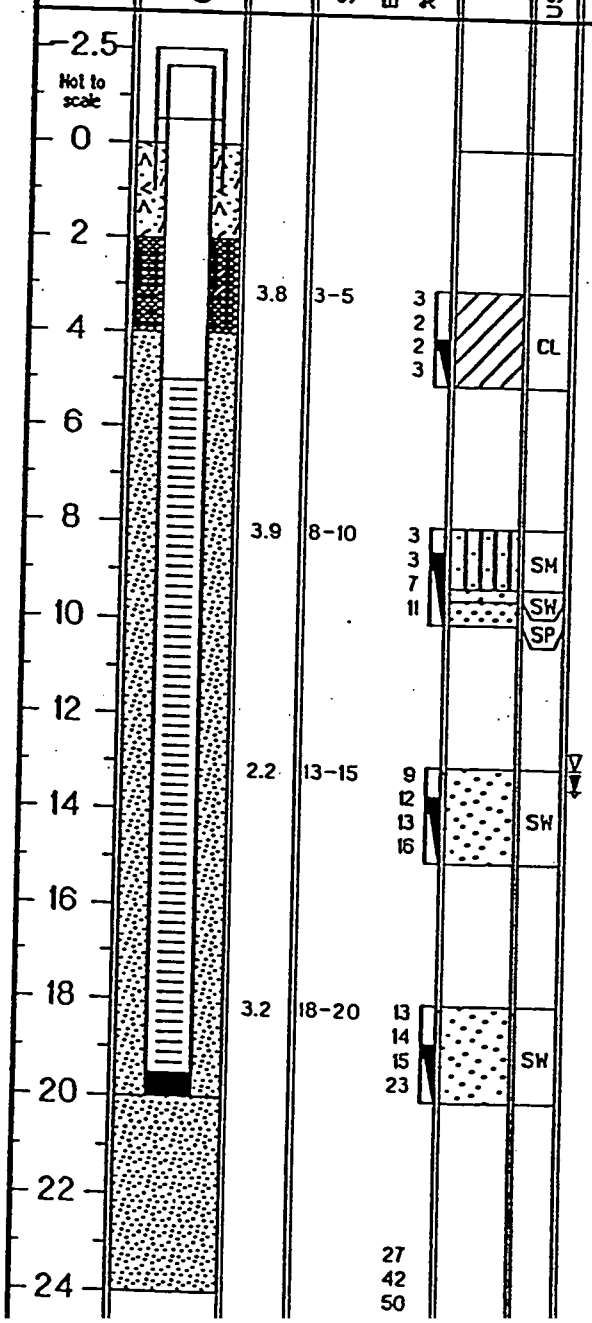
Monitoring Well MW-154

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 20 ft. Diameter 6 in.
Top of Casing 714.22 ft. Water Level Initial 13.0 ft. Static 13.42 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 5 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-55
Drill Co. Haskett Drilling Method Hollow-Stem Auger
Driller D. Manning Log By Krista Gremos Date 6/29/95 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Pro-cover well box.



Description
(Color, Texture, Structure)
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

CLAY: Dark brown, CLAY, some sand, semimoist, plastic.

Sandy SILT: Gray sandy SILT, very moist to saturated, to 9.25'. Fine to coarse SAND, some fine gravel, moist, to 9.5'. Gray, fine to medium SAND, very moist.

SAND: Gray, fine to coarse SAND, well graded, saturated, many fines.

SAND: Gray, fine to coarse SAND, with fine to medium gravel, saturated black staining at 19.5'.

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-155

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. ____ Total Hole Depth 29 ft. Diameter 6 in.
Top of Casing 717.52 ft. Water Level Initial 19 ft. Static 16.78 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 14 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-55
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller R. Smith Log By Krista Gremos Date 9/5/95 Permit # ____
Checked By Krista Gremos License No. ____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mount well box.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0							
2							
4		0.0	3-5	3 2 2 2		ML	SILT: Dark brown SILT, trace sand and gravel, moist, crumbly.
6							
8		0.0	8-10	55 57		CL SP	See above to 8.5', Grading into sandy CLAY, very moist, plastic to 9'. @9-10' Fine gray SAND, semi-moist, little clay and silt.
10							
12							
14		200	13-15	3 5 5 6		ML	SILT: Dark gray-brown SILT, some sand and clay, trace gravel, moist to very moist.
16							
18		85	18-20	5 7 8 11		SW	See above to 19'. @19-20 Fine to Coarse Gray SAND, some gravel, trace silt and clay, saturated. Groundwater encountered at 19'.
20							
22							
24		1.0	23-25	5 8 13		SP	

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-155

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
24				13, 14		SP, GP	See above, grading to fine SAND @24'. Coarse sand and gravel layer @25'.
26							
28		7.0	28-30	11, 21, 29, 34		SP, CL, GM	SAND: Fine gray SAND, moist to 29'. 29-29.5' Dark brown silty CLAY. 29.5-30 coarse sand and gravel layer.
30							Boring terminated at 30 feet. Sampled to 30 feet. Monitoring well set to 29 feet. Groundwater encountered at 19 feet.
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-156

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 20 ft. Diameter 6 in.
Top of Casing 711.69 ft. Water Level Initial 13 ft. Static 12.21 ft.
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 5 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-55
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller R. Smith Log By Krista Gremos Date 9/5/95 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mount well box.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2, 0, 2							
4		0.4	3-5	44, 46		CL	Silty CLAY: Dark brown silty CLAY, some sand, trace gravel, moist, semi-stiff.
6, 8		0.5	8-10	6, 10, 15, 16		SW	SAND: Light brown to orangish brown SAND, fine to coarse, some silt, trace clay, trace gravel, semi-moist.
12, 14		0.4	13-15	6, 6, 8, 10		CL	SAND: Medium to dark brown SAND, fine to coarse, some silt, trace clay and gravel, saturated, to 14.5. 14.5 to 15' Dark grayish brown silty CLAY, some sand, trace gravel, stiff, semi-moist.
16, 18, 20		1.0	18-20	7, 10, 12, 14		SW	SAND: Gray SAND, fine to coarse, trace silt, clay, and gravel, saturated.
22, 24							Boring terminated at 20 feet. Sampled to 20 feet. Monitoring well set to 20 feet. Groundwater encountered at 13 feet.

GROUNDWATER TECHNOLOGY

Drilling Log

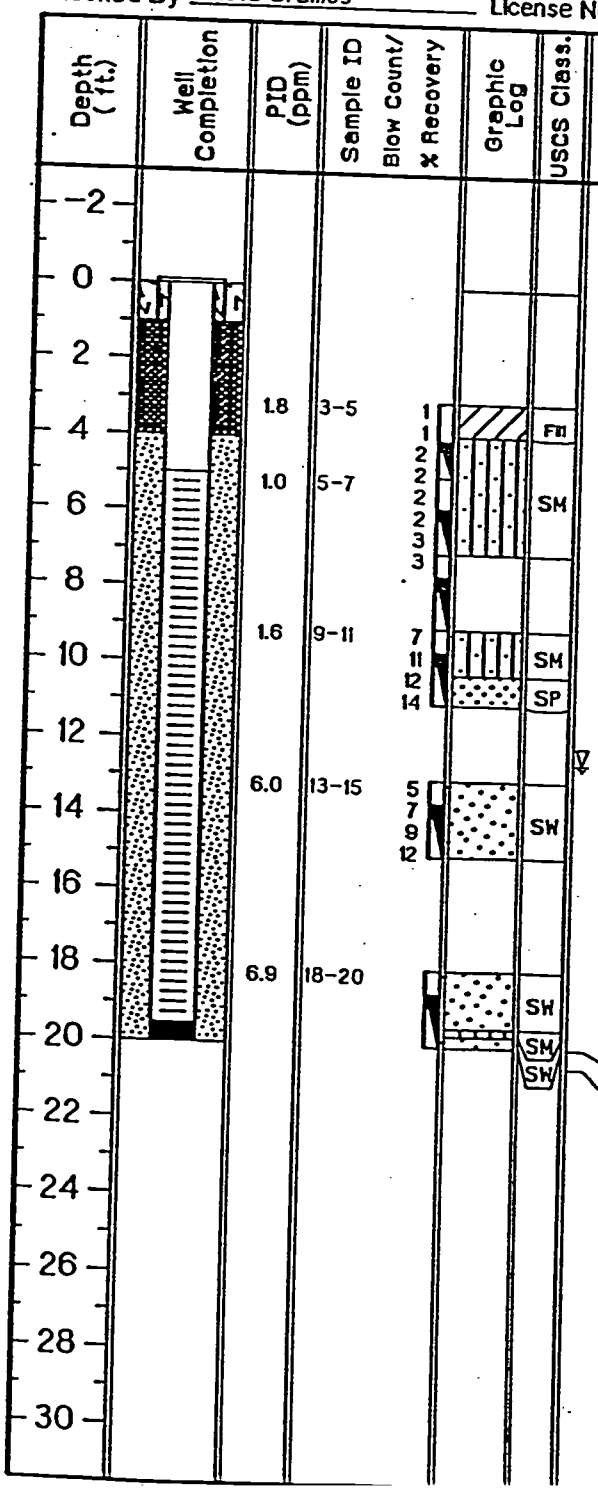
Monitoring Well MW-157

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261
Surface Elev. _____ Total Hole Depth 20 ft. Diameter 6 in.
Top of Casing _____ Water Level Initial 12.5 ft. Static _____
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 5 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-750
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller E. Dixon Log By Krista Gremos Date 1/23/97 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mount well box.



Description

(Color, Texture, Structure)
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

FILL; Dark brown sandy CLAY, fill type material, asphalt and gravel pieces to 3.9 feet. Medium brown, silty SAND (fine), some clay, moist, crumbly.

See above.

See above, dark brown, to 10.2 feet. SAND: fine to medium, tan, SAND, some silt, trace to little gravel, moist.

SAND; fine to coarse, light brown, SAND, little fines, little gravel, saturated.

See above, grades to gray @ 19.5 feet. Fine sandy/silt layer (2") from 19.5 to 19.7 feet.

Boring terminated at 20 feet. Sampled to 20 feet. Monitoring well set to 20 feet. Groundwater encountered at 13 feet.

GROUNDWATER TECHNOLOGY

Drilling Log

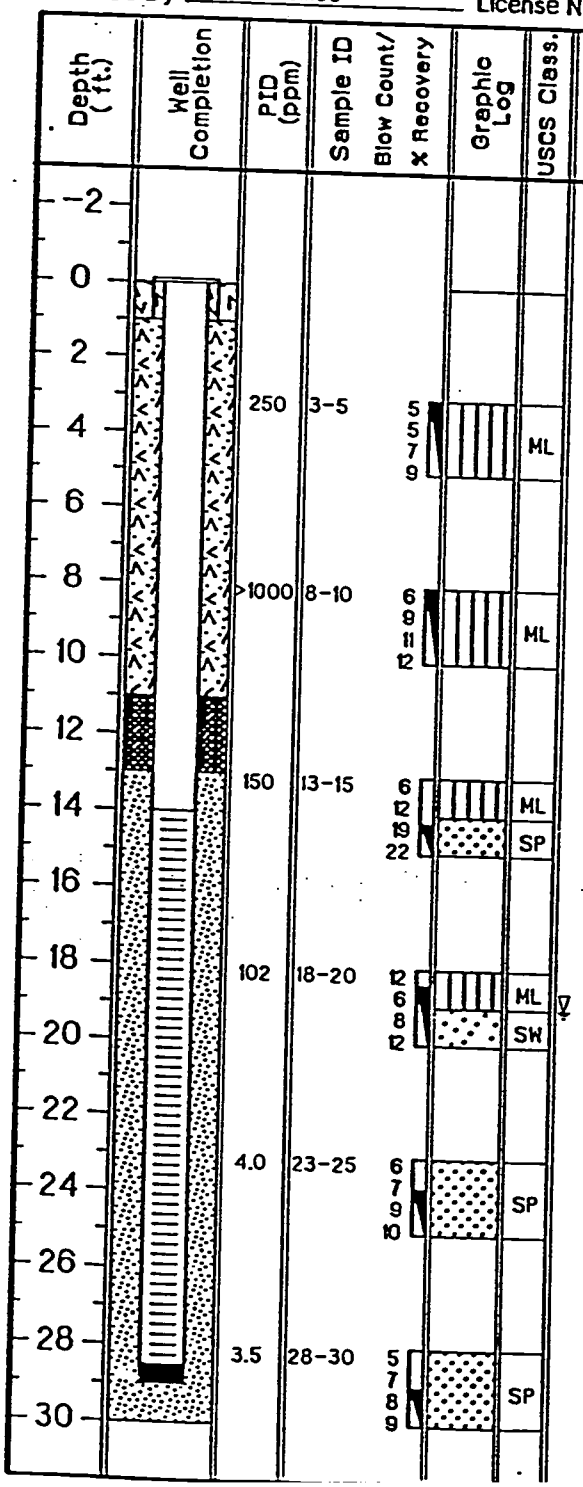
Monitoring Well MW-158

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261
Surface Elev. _____ Total Hole Depth 29 ft. Diameter 6 in.
Top of Casing _____ Water Level Initial 19 ft. Static _____
Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 14 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-750
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller E. Dixon Log By Krista Gremos Date 1/23/97 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mount well box.



Description

(Color, Texture, Structure)
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

Silty CLAY; dark brown Silty CLAY, some to little sand, trace gravel, moist.

See above grades to drier clayey silt at 9.3 feet.

See above to 14.5 feet. Fine to coarse, tan, SAND with silt, some clay, trace to little gravel, moist from 14.5 to 15 feet.

SILT; Dark brown silt with clay, some sand, trace gravel, moist, to 19 feet. Fine to coarse, gray, SAND, some fines, trace gravel, saturated, from 19 to 20 feet.

SAND; fine to medium, gray, SAND, some fines, trace gravel, saturated.

See above, large gravel prevented good recovery.

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-200

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 50 ft. Diameter 6 in.
Top of Casing 713.03 ft. Water Level Initial 13.0 ft. Static _____
Screen: Dia 2 in. Length 5 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 45 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-750
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller J. Mathis Log By Krista Gremos Date 7/10/95 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mount well box. Double cased well.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0							
2							
4		0.0	3-5	6 6 9 13		SM	Silty SAND: Medium brown, silty SAND, little gravel, dry.
6							
8			8-10	10 13 13 15			Trash in spoon, no recovery.
10							
12							
14		2.0	13-15	4 9 14 14		SW	SAND: Gray brown, fine to coarse, SAND, trace fine gravel, well graded coarsening downward, saturated.
16							
18		0.0	18-20	8 9 11 15		SW SP	See above to 19.5. Gray, fine SAND, poorly graded, saturated.
20							
22							
24		1.0	23-25	5 5 9		SP CL	

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-20(

Project *Allison-GM Plant 10* Owner *General Motors/Allison*
Location *700 N. Olin Avenue, Indianapolis, IN* Proj. No. *040020345*

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50
24				9, 9		CL	SAND: Reddish brown, fine SAND, poorly graded, some silt, to 23.5 Grayish brown, Sitly CLAY, some sand, stiff, moist, to 25'.
26							
28		0.0	28-30	8, 9, 12, 14		CL	Silty CLAY: Gray silty CLAY, some sand, trace to little fine gravel, moist, very stiff.
30							
32							
34		1.4	33-35	13, 7, 9, 11		SW	SAND: Gray, fine to coarse, SAND, little gravel, saturated.
36							
38		0.2	38-40	10, 21		SW	See above.
40							
42							
44		0.7	43-45	20, 24		SW, SP	See above to 44.5'. Fine SAND at 44.5-45 feet.
46							
48		0.0	48-50	6, 6, 6, 7		SP	SAND: Fine to medium SAND, little silt, very moist.
50							Boring terminated at 50 feet. Sampled to 50 feet. Monitoring w set to 50 feet. Double cased to 25 feet. Sand heave in boring.
52							
54							
56							

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-201

Project *Allison-GM Plant 10* Owner *General Motors/Allison*
Location *700 N. Olin Avenue, Indianapolis, IN* Proj. No. *040020345*
Surface Elev. _____ Total Hole Depth *38 ft.* Diameter *6 in.*
Top of Casing *712.29 ft.* Water Level Initial *18 ft.* Static *12.99 ft.*
Screen: Dia *2 in.* Length *2 ft.* Type/Size *0.020 in.*
Casing: Dia *2 in.* Length *36 ft.* Type *Sch 40 PVC*
Fill Material *Sand* Rig/Core *CME-750*
Drill Co. *Earth Exploration* Method *Hollow-Stem Auger*
Driller *S. Phillips/J. Mathis* Log By *Krista Gremos* Date *7/5/95* Permit # _____
Checked By *Krista Gremos* License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mount well box. Double cased well.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0						ASP	Asphalt over gravel base.
2							
		0.0	3-5	1 2 2 2		ML	Sandy SILT: Medium reddish-brown, sandy silt, semi-dry, layer of broken asphalt at 4-4.5 feet.
4							
6							
8		0.0	8-10	5 5 2 3		ML / SW	See above to 9.25. SAND: Light brown, fine to coarse SAND, well graded, trace gravel, semi dry.
10							
12							
		0.0	13-15	5 6 6 5		SW	See above, moist at 15'.
14							
16							
18		8.4	18-20	5 5 6 4		SW	See above, medium brown, little silt, trace gravel, saturated.
20							
22							
		0.0	23-25	14 35 10		SP	
24							

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-201

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
24				10 10		SP	See above, coarse gravel at 25'.
26							
28		5.8	28-30	9 8 9 11		CL	Silty CLAY: Dark grayish-brown, silty CLAY, some sand, trace gravel, moist, very stiff. (Trash in spoon to 29').
30							
32							
34		0.0	33-35	10 10 11 16		CL	See above.
36							
38		0.0	38-40	9 11 14 21		CL	See above.
40							Boring terminated at 38 feet. Sampled to 38 feet. Monitoring well set to 38 feet. Double cased to 25 feet. Sand heave in boring.
42							
44							
46							
48							
50							
52							
54							
56							

GROUNDWATER TECHNOLOGY

Drilling Log

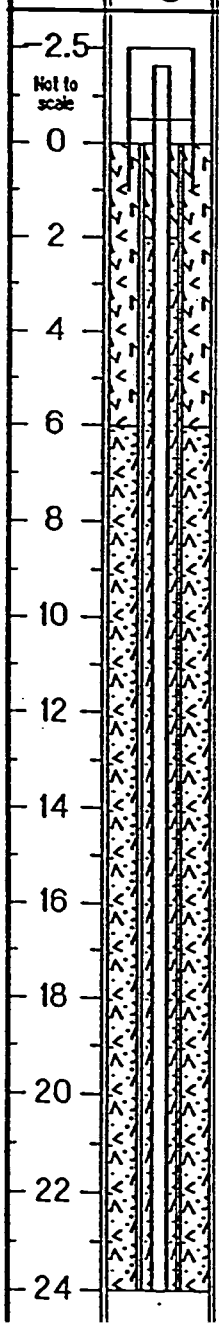
Monitoring Well MW-202

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 35 ft. Diameter 6 in.
Top of Casing 711.88 ft. Water Level Initial 13 ft. Static 12.33 ft.
Screen: Dia 2 in. Length 2 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 33 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-750
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller S. Phillips/J. Mathis Log By Krista Gremos Date 7/6/95 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Pro-cover well box. Double cased well.



PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
0.0	3-5	1 2 2 2		SP CL	SAND: Tan, fine SAND, poorly graded, moist to 4.5'. Silty CLAY: Medium brown, silty CLAY, some sand, trace gravel, stiff, to 5'.
0.0	8-10	5 5 2 3		SC	See above to 9.25. Clayey SAND: Gray, fine to coarse clayey SAND, well graded, trace gravel and silt, very moist, interbedded fine sand seams.
14.8	13-15	5 6 6 5		SW	SAND: Gray, fine to coarse SAND, well graded, some silt, trace gravel, saturated.
8.2	18-20	5 5 6 4		SW	See above, little gravel, saturated.
0.2	23-25	14 35 10		CL	

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-202

Project *Allison-GM Plant 10* Owner *General Motors/Allison*
Location *700 N. Olin Avenue, Indianapolis, IN* Proj. No. *040020345*

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
24				10 10		CL	Silty CLAY: Grayish-brown silty CLAY, some sand, trace gravel, semi-moist, stiff. (Trash in spoon to 24.25').
26							
28		0.0	28-30	9 8 9 11		CL	See above.
30							
32							
34		0.0	33-35	10 10 11 16		CL	See above.
36							Boring terminated at 35 feet. Sampled to 35 feet. Monitoring well set to 35 feet. Double cased to 25 feet. Sand heave in boring.
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-30

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 01021026I
Surface Elev. _____ Total Hole Depth 50 ft. Diameter 12 in.
Top of Casing _____ Water Level Initial 43 ft. Static _____
Screen: Dia 2 in. Length 5 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 45 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-750
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller E. Dixon Log By Krista Gremos Date 1/22-28/97 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Flush mount well box. Double cased well.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID / Blow Count / % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2						
0						
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						Blank drilled to 43 feet. See MW-201 for lithology from 0 to 43 feet.
28						
30						

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-30

Project Allison-GM Plant 10
Location 700 N. Olin Avenue, Indianapolis, IN
Owner General Motors/Allison
Proj. No. 010210261

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
30							
32							
34							
36							
38							
40							
42							
44		9.0	43-45	14 17 18		SP	SAND; Gray, fine to medium, SAND, some fines, little coarse sand, trace fine gravel, moist to very moist (saturated?)
46		6.4	45-47	20 16 21		SP	
				50/5			See above, saturated.
48		12	47-49	4 6		SC GP	
				7			See above, grades to clayey SAND (possible spoon trash), cobbles at 48 feet.
50		9.2	49-51	7 7 9 11 14		SP	See above (43-45 feet)
52							Boring terminated at 50 feet. Sampled to 51 feet. Monitoring well set to 50 feet. Double cased to 25 feet. Heavy sand heave in boring.
54							
56							
58							
60							
62							
64							
66							
68							
70							

GROUNDWATER TECHNOLOGY

Drilling Log

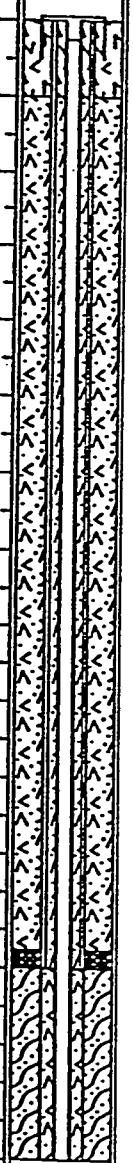
Monitoring Well MW-302

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261
Surface Elev. _____ Total Hole Depth 65 ft. Diameter 12 in.
Top of Casing _____ Water Level Initial 48 ft. Static _____
Screen: Dia 2 in. Length 10 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 45 ft. Type Sch 40 PVC
Fill Material Sand Rig/Core CME-750
Drill Co. Earth Exploration Method Hollow-Stem Auger
Driller E. Dixon Log By Krista Gremos Date 1/24-31/97 Permit # _____
Checked By Krista Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Monitoring Well. Pro-mount well box. Double cased well.

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0							
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							Blank drilled to 38 feet. See MW-202 for lithology from 0 to 38 feet.
28							
30							

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well MW-302

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 010210261

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
30, 32, 34, 36							
38, 40		28	38-40	10, 14, 17, 21		CL	CLAY; Dark brown, CLAY, some silt and sand, trace gravel, stiff to very stiff, moist.
42, 44		160	43-45	4, 8, 12, 19		CL	See above.
46, 48, 50		540	48-50	7, 15, 18, 23		SP, CL	See above. Sand seam (6" ?) at approx. 48 feet.
52, 54		180	53-55	9, 20, 43, 50/5		CL	See above, clay.
56, 58, 60		300	58-60	5, 17, 27, 31		CL	See above.
62, 64		200	63-65	5, 12, 18, 24		CL	See above.
66, 68, 70							Boring terminated at 63 feet. Sampled to 65 feet. Monitoring well set to 55 feet. Double cased to 25 feet.

GROUNDWATER TECHNOLOGY

Drilling Log

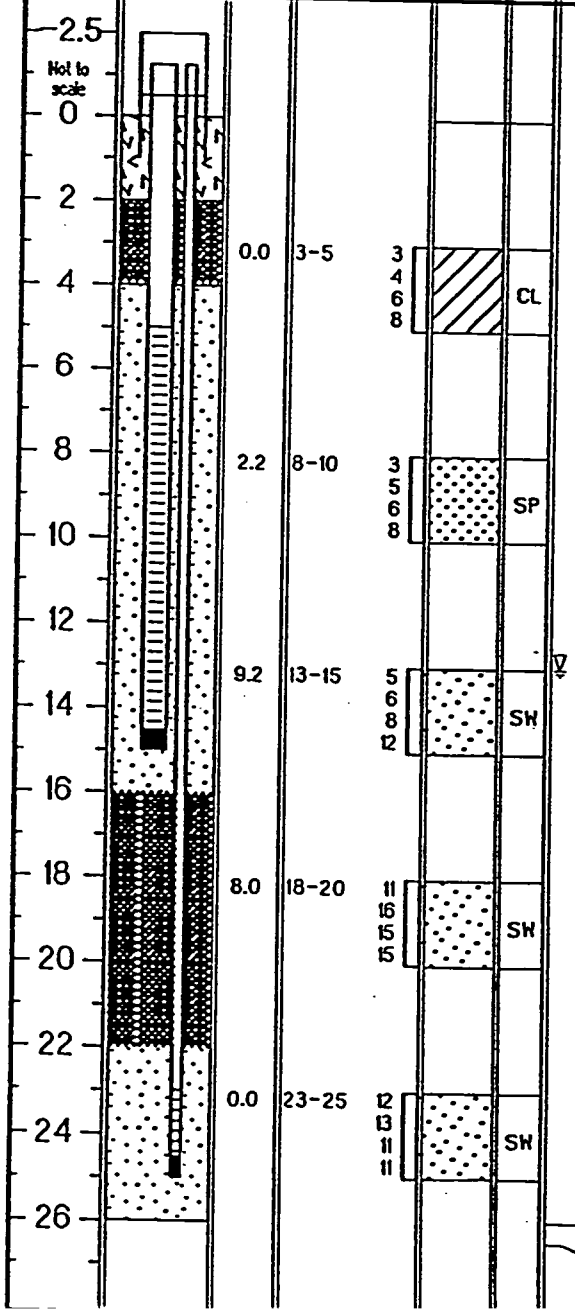
Monitoring Well SP-1

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 26 ft. Diameter 8 in.
Top of Casing _____ Water Level Initial 13 ft. Static _____
Screen: Dia 4/2 in. Length 10/2 ft. Type/Size 0.020/0.040 in.
Casing: Dia 4/2 in. Length 5/23 ft. Type PVC
Fill Material Sand Rig/Core CME 750
Drill Co. Earth Exploration Method Hollow Stem
Driller S. Phillps Log By K. Gremos Date 6/30/95 Permit # _____
Checked By K. Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Nested Pilot Test Well. Pro-cover well box.



Description

(Color, Texture, Structure)
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

CLAY: Medium brown, CLAY, some sand and gravel, stiff, interbedded with fine to coarse SAND, some gravel, semi-dry.

SAND: Fine to medium SAND, some gravel, trace silt, semi-moist.

SAND: Gray, fine to coarse SAND, trace gravel and silt, saturated.

See above, more coarse sand.

See above, with gravel, trace to little silt.

Boring terminated at 26'. Sampled to 26'. Nested wells set at 15 and 25 feet.

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well OB-1

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 15 ft. Diameter 6 in.
Top of Casing _____ Water Level Initial _____ Static _____
Screen: Dia 2 in. Length 10 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 5 ft. Type PVC
Fill Material Sand Rig/Core CME 750
Drill Co. Earth Exploration Method Hollow Stem
Driller E. Dixon Log By K. Gremos Date 6/30/95 Permit # _____
Checked By _____ License No. _____

See Site Map For Boring Location

COMMENTS:

Blank drilled to 15'. Observation Well. Pro-cover well box.

Depth (ft.)	Well Completion	FID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0							
2							Blank drilled to 15'.
4							
6							
8							
10							
12							
14							
16							Boring terminated at 15'. Observation well set at 15'.
18							
20							
22							
24							

GROUNDWATER TECHNOLOGY

Drilling Log

Monitoring Well OB-2

Project Allison-GM Plant 10 Owner General Motors/Allison
Location 700 N. Olin Avenue, Indianapolis, IN Proj. No. 040020345
Surface Elev. _____ Total Hole Depth 15 ft. Diameter 6 in.
Top of Casing _____ Water Level Initial _____ Static _____
Screen: Dia 2 in. Length 10 ft. Type/Size 0.020 in.
Casing: Dia 2 in. Length 5 ft. Type PVC
Fill Material Sand Rig/Core CME 750
Drill Co. Earth Exploration Method Hollow Stem
Driller J. Thacker Log By K. Gremos Date 6/30/95 Permit # _____
Checked By K. Gremos License No. _____

See Site Map For Boring Location

COMMENTS:

Blank drilled to 15'. Observation Well. Pro-cover well box.

Depth (ft.)	Well Completion	FID (ppm)	Sample ID	Blow Count/ % Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0							
2							Blank drilled to 15'.
4							
6							
8							
10							
12							
14							
16							Boring terminated at 15'. Observation well set at 15'.
18							
20							
22							
24							

KERAMIDA Environmental, Inc.

LOG OF BORING MW-160

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

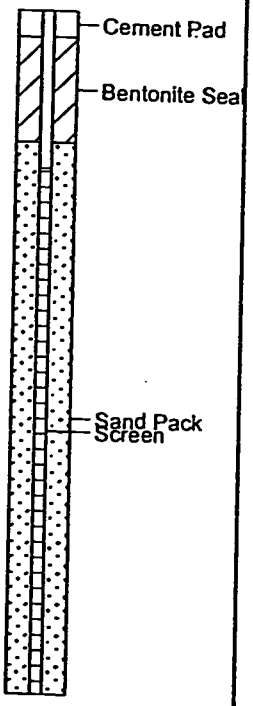
KERAMIDA Project No. 2829D

Project ID : 2829D
Date Drilled : 2/28/00
Drilling Method : Geoprobe
Geologist/Tech : BH
Drilling Co : KEI

General Location : Little Eagle Creek
: Flood Plain- East

Well:
Elev.:

Depth in feet	USCS	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	CL	Silty CLAY, 10YR 4/3, moist				
	SM	Silty SAND, 10YR 4/3, very moist SAA	1	70	ND	
	SW	Medium to Coarse SAND, 10YR 4/1, wet SAA, 10YR 5/1	2	50	ND	
5		SAA	3	40	ND	
		SAA	4	80	ND	
10		Medium SAND, SAA	5	95	ND	
		Medium to Coarse SAND, SAA	6	70	ND	
		SAA	7	90	6	
15	GW	Medium to Coarse SAND AND GRAVEL, 10YR 5/1, wet SAA	8	50	2.5	
		Medium to Coarse SAND and GRAVEL with Rock, 10YR 4/1, wet SAA	9	80	1.2	
20		SAA, silty	10	60	1.2	
	SW	Medium to Coarse SAND, 10YR 4/1, wet	11	60	7.6	
		SAA, silty, Bottom 1" Silty CLAY w/scattered sand, tight, moist	12	60	2.5	
25						



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KERAMIDA Environmental, Inc.

LOG OF BORING MW-161

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

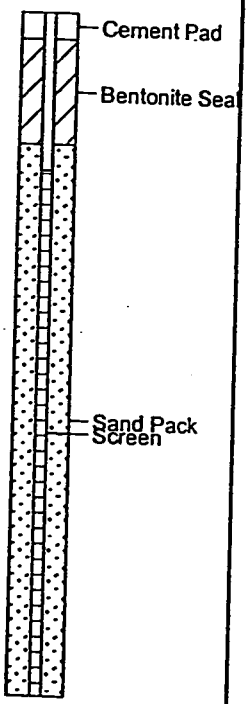
KERAMIDA Project No. 2829D

Project ID : 2829D
Date Drilled : 2/29/00
Drilling Method : Geoprobe
Geologist/Tech : BH
Drilling Co : KEI

General Location : Little Eagle Creek
: Flood Plain- West

Depth in feet	USCS	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	SM	Silty SAND, 10YR 4/1, moist				
	CL	Sandy Silty CLAY, 10YR 4/2, moist SAA	1	80	ND	
	SW	Medium SAND, 10YR 4/1, moist Medium to Coarse Sand, 10YR 4/1, moist, 1" silty clay seam SAA, wet	2	70	ND	
5	GW	Silty Clayey SAND AND GRAVEL, 10YR 5/1, wet	3	60	18.1	
	SW	Medium to Coarse SAND with scattered gravel, 10YR 5/1, wet SAA	4	60	161	
			5	95	339	
10	GW	Medium to Coarse SAND AND GRAVEL, 10YR 5/1, wet	6	50	131	
	SW	Medium to Coarse SAND w/scattered gravel, 10YR 5/1	7	50	141	
	GW	Silty Medium to Coarse SAND AND GRAVEL, 10YR 4/1, wet				
15	SW	Medium to Coarse SAND and rock, 10YR 4/1,wet Medium to Cloarse SAND, 10YR 5/1, wet	8	50	74	
			9	95	80	
	GW	Medium to Coarse SAND AND GRAVEL with rock, 10YR 5/1, wet				
20	SP	Fine SAND, 10YR 5/1, wet Fine to Medium SAND, SAA	10	60	80	
			11	80	90	
	GW	Medium to Coarse SAND AND GRAVEL, 10YR 5/1, wet	12	60	39	
	CL	Silty CLAY w/scattered sand, 10YR 4/1, moist, tight				
25						

Well:
Elev.:



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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

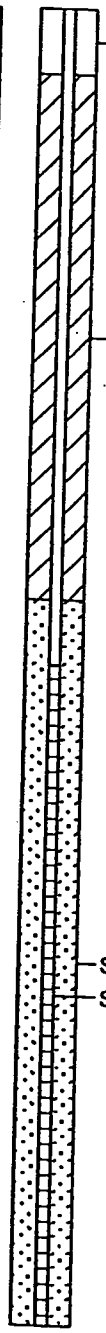
KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9-11-01
Drilling Method : HSA
Scientist : Brian Harrington
Drilling Co : Earth Exploration

General Location : North of KB-12

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Blind Drilled (0-20')				
				1	NA	NA	For lithology see KB-12
				2	NA	NA	
5				3	NA	NA	
				4	NA	NA	
				5	NA	NA	
10				6	NA	NA	
				7	NA	NA	
15				8	NA	NA	
				9	NA	NA	
20				10	NA	NA	

Well:
Elev.:



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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

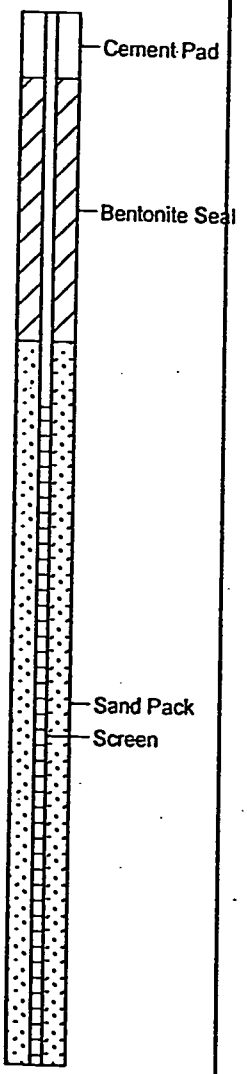
KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9-12-01
Drilling Method : HSA
Scientist : Steve Cobb
Drilling Co : Earth Exploration

General Location : North of KB-1

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Blind Drilled (0-20')				
				1	NA	NA	For lithology see KB-1
				2	NA	NA	
5				3	NA	NA	
				4	NA	NA	
				5	NA	NA	
10				6	NA	NA	
				7	NA	NA	
15				8	NA	NA	
				9	NA	NA	
				10	NA	NA	
20							

Well:
Elev.:



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KERAMIDA Environmental, Inc.

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

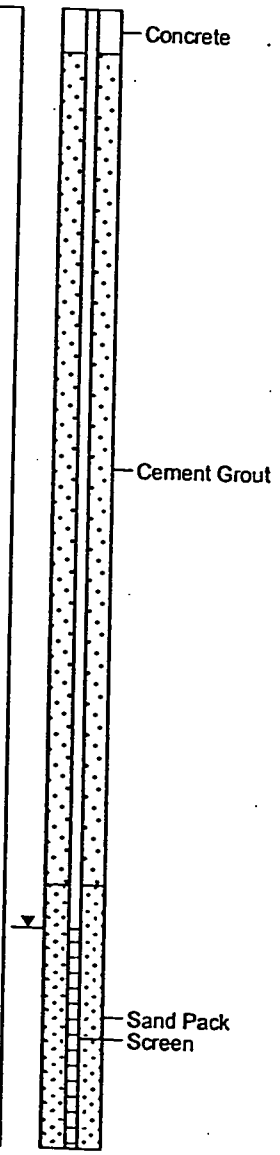
KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 9/11/00
Drilling Method : HSA
Geologist/Tech : BH
Drilling Co : Earth Ex

General Location :

Depth in feet	USCS	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		Blind Drill, grass at surface	1		NA	
	CL	Silty CLAY, moist, 10 YR 4/3	2	100	NA	
5		Slightly sandy silty CLAY, moist, 10 YR 3/5	3	90	NA	
	SM	Silty SAND, very moist, 10 YR 3/5	4	85	NA	
		SAA, very moist	5	50	NA	
10	CL	Sandy silty CLAY, very moist, 10 YR 4/4	6	45	NA	
	GW	SAND & GRAVEL, moist, 10 YR 4/6	7	60	NA	
		SAND & GRAVEL, slightly moist, 10 YR 5/1 w/ 10 YR 5/4				
15			8	70	NA	
			9	70	NA	
		SAND & GRAVEL, slightly moist to moist, 10 YR 5/4				
20			10	40	NA	
		SAA, wet	11	60	NA	
		SAA, wet, 10 YR 4/1				
			12	60	NA	
25		Blind Drill (24-26')	13		NA	
30						

Well:
Elev.:



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KERAMIDA Environmental, Inc.

LOG OF BORING MW-165

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

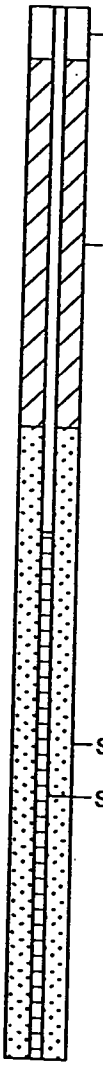
KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/21/01
Drilling Method : Geoprobe
Geologist/Tech : Andrew Sargent
Drilling Co : Earth Exploration

General Location : North of Apartment : Building #20, north : side of parking lot

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt and gravel base				
	CL		Silty CLAY with trace gravel, 10YR 4/3 (brown)	1	100	0.6	
			SAA	2	100	0.6	
5	SP		Silty Fine to Medium SAND with trace gravel, 10YR 4/3	3	50	0.6	
	SW		Silty Fine to Coarse SAND with pieces of wood, 2.5Y 4/1 (gray), damp	4	60	1.3	
10	CL		CLAY, 2.5Y 5/1 (light gray)	5	100	0.6	
	SP		Fine SAND with gravel, 2.5Y 6/1 (light gray)	6	60	0.6	
	GW		SAND AND GRAVEL, 2.5Y 5/1 (gray), wet	7	60	NA	
15			SAA	8	100	0.6	
	SW		Fine to Coarse SAND with trace gravel, 2.5Y 5/1 (gray)	9	100	1.3	
			Blind Drilled (19-20')	10			
20							
25							

Well:
Elev.:



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KERAMIDA Environmental, Inc.

LOG OF BORING MW-165D

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Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-10-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : Approximately 5' E of : MW-165

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0			Blind Drilled (0-19')				
5							
10				1	NA	NA	
15							
20			Very Gravelly SAND, wet, soft, 2.5Y 5/2 (grayish brown)	2	0	1.3	
				3	100	0	
25				4	25	1.3	
				5	25	1.3	
				6	50	4.0	
30			SAND, wet, soft, 2.5Y 5/2 (grayish brown)	7	50	4.0	
	SP			8	50	1.3	
35			Very Gravelly SAND, wet, soft, 2.5Y 5/2 (grayish brown)	9	100	16.2	
				10	100	24.4	
				11	75	40.7	
40				12	25	28.5	
			Coarse SAND, wet, soft, 2.5Y 5/2 (grayish brown)	13	100	63.7	
45			Gravelly SAND, wet, soft, 2.5Y 5/2 (grayish brown)	14	100	24.4	
				15	100	40.7	
			SILT LOAM, dry, hard, 2.5Y 4/1 (dark gray)	16	50	NA	
50							

Well:
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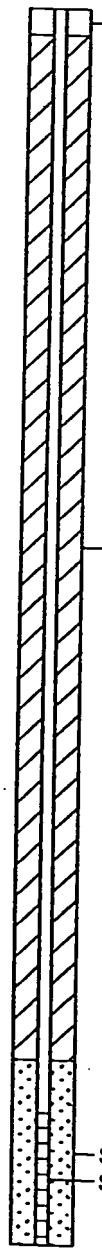

KERAMIDA Environmental, Inc.

LOG OF BORING MW-166

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/21/01
Drilling Method : Geoprobe
Geologist/Tech : Andrew Sargent
Drilling Co : KEI

General Location : East of building
: #16, in parking area

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt and gravel base				
	GW		SAND AND GRAVEL, 10YR 6/3, dry	1	50	0	
	SP		Fine SAND, 10YR 6/3	2	50	0	
5			SAA	3	50	0	
			SAA with trace gravel	4	40	0	
	GW		SAND AND GRAVEL	5	50	0	
10	CL		Sandy CLAY, 10YR 5/1 (gray)				
	GW		Silty SAND AND GRAVEL, 10YR 3/3 (brown)	6	NA	0	
			As Above, 10YR 6/3 (tan)				
	CL		CLAY, 10YR 5/1 (gray)	7	NA	0	
15	GW		SAND AND GRAVEL, 10YR 6/3 (tan), wet	8	NA	NA	
			As Above				
			As Above	9	NA	0	
			Blind drilled (19'-20')	10	NA	7.2	
20							
25							

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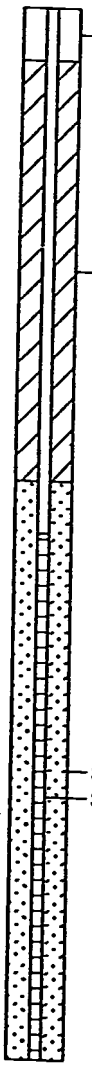

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KERAMIDA Environmental, Inc.

LOG OF BORING MW-166D

(Page 1 of 1)

Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

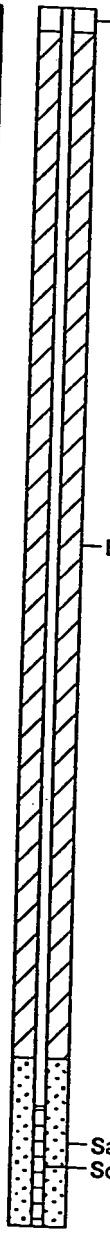
KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-14-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : Approximately 4' east of MW-166S

Well:
Elev.:

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0			Blind Drilled (0-19')				
5							
10				1	NA	NA	
15							
20			SAND, wet, soft, 2.5Y 5/2 (grayish brown)				
			Gravelly SAND	2	50	2.7	
			SAND	3	95	13.5	
25				4	30	8.1	
			Gravelly Sand	5	75	2.7	
			SAND	6	100	14.8	
30			Gravelly SAND	7	100	17.5	
				8	100	17.5	
35	SP		SAND	9	100	23.0	
				10	100	21.6	
				11	100	44.6	
40			Gravelly SAND	12	100	43.0	
			SAND	13	100	27.0	
			Gravelly SAND	14	100	31.1	
45				15	100	40.6	
			SAND	16	100	33.8	
50				17	100	29.7	
			SILT LOAM, dry, hard, 2.5Y 4/1 (dark gray)	18	NA	1.3	
55							



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KERAMIDA Environmental, Inc.

LOG OF BORING MW-167

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/21/01
Drilling Method : Geoprobe
Geologist/Tech : Andrew Sargent
Drilling Co : Earth Exploration

General Location : South side of Michigan : St., south of building : #13

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			SAND AND GRAVEL side of road				
	CL		Sandy CLAY with trace gravel, 10YR 3/3 (brown)	1	80	.6	
	GW		SAND AND GRAVEL, 10YR 6/3 (tan)				
			SAA	2	90	.6	
5			SAA	3	70	.6	
			SAA with some iron staining	4	50	.6	
			SAA with some iron staining	5	50	.6	
10			SAA with some iron staining	6	NA	.6	
			SAA with some iron staining	7	50	.6	
15	CL		Clay with some sand and gravel, heavy iron staining on top of clay, 10YR 5/1(gray)	8	50	.6	
			As Above, moist at 17'				
	GW		SAND AND GRAVEL, 10YR 5/1 (gray), wet	9	50	.6	
			As Above	10	NA	NA	
20	SP		Fine to Medium SAND, 10YR 5/1 (gray), wet				
			Blind Drilled (21'-22')	11	50	.6	
25							

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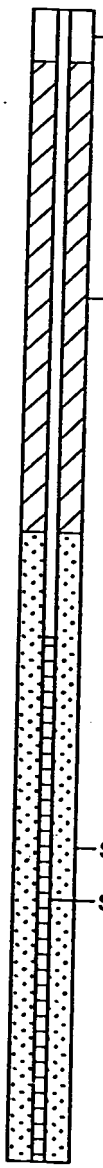

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KERAMIDA Environmental, Inc.

LOG OF BORING MW-167D

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Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-11-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : Approximately 5' east of MW-167S

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0			Blind Drilled (0-19')				
5							
10				1	NA	NA	
15							
20			SAND with trace gravel, wet, 2.5Y 4/1(dark gray)				
			Very Gravelly SAND	2	50	0	
				3	50	0	
25	SP		Gravelly SAND	4	100	1.2	
			Coarse SAND	5	100	1.2	
			Coarse SAND with trace gravel	6	100	2.5	
30				7	50	2.5	
			No Recovery (31-33')	8	0	NA	
			SILT LOAM, damp, hard, 2.5Y 5/1 (gray)	9	50	0	
35							
40							
45							
50							
55							

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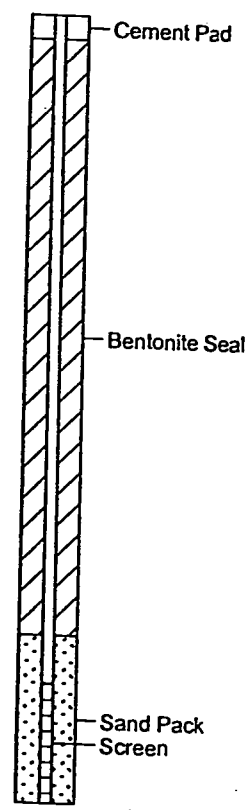

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KERAMIDA Environmental, Inc.

LOG OF BORING MW-168

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Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 5/21/01
Drilling Method : Geoprobe
Geologist/Tech : Andrew Sargent
Drilling Co : KEI

General Location : South side of Michigan St, south of building #1

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			SAND AND GRAVEL (side of road)				
	GW		Silty SAND AND GRAVEL, 10YR 3/2 (dark brown)	1	50	0	
			As Above	2	10	NA	
5			As Above	3	30	0	
	CL		Sandy CLAY with trace gravel, 10YR 3/2 (10YR 3/2)	4	30	0	
			As Above			0	
10	SP		Clayey Fine SAND with trace gravel, 10YR 4/1(grayish brown)	5	70		
	GW		Clayey SAND AND GRAVEL, 10YR 5/3, wet			NA	
	CL		Clay, 10YR 5/3, dry				
	SP		Fine SAND with iron staining, moist	6	70	0	
	ML		Clayey SILT with iron staining, 2.5YR 5/2				
15	CL		CLAY with Sand and Gravel, wet	7	80	0	
	GW		SAND AND GRAVEL, 10YR 5/2, wet at 17'	8	80	NA	
			SAA	9	60	0	
20			Blind Drilled (21'-22')	10	NA	0	
25							

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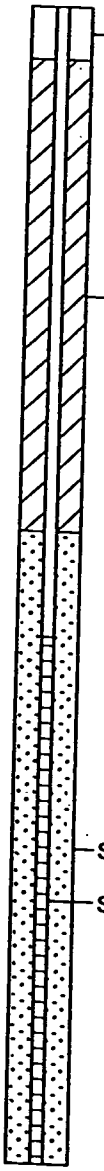

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KERAMIDA Environmental, Inc.

LOG OF BORING MW-168D

(Page 1 of 1)

Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-15-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : Approximately 6' west : of original MW-168S : location

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0			Blind Drilled (0-19')				
5							
10				1	NA	NA	
15							
20			No Recovery (19-21')	2	0	NA	
25	SP		Gravelly SAND, wet, soft, 2.5Y 5/2 (grayish brown)	3	40	0	
				4	40	0	
				5	40	0	
30			Coarse SAND	6	60	0	
			SILT LOAM, damp, hard, 2.5Y 5/1 (gray)	7	100	0	
				8	50	0	
35							
40							
45							
50							
55							

Well:
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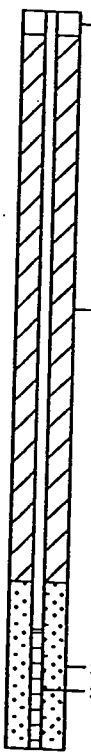

KERAMIDA Environmental, Inc.

LOG OF BORING MW-168S

(Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 1-18-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : South side of Michigan St, in left turn lane for Oline Ave, approx. 6' west of MW-168D

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			SAND AND GRAVEL (side of road)				
	GW		Silty SAND AND GRAVEL, 10YR 3/2 (dark brown)	1	NA	NA	MW-168S was reinstalled after it was paved over during lane expansion on Michigan St.
5				2	NA	NA	MW-168S was relocated approximately 11' west of the location of the original MW-168S
				3	NA	NA	
	CL		Sandy CLAY with trace gravel, 10YR 3/2 (10YR 3/2)	4	NA	NA	MW-168S was blind drilled to 22'
10			As Above	5	NA	NA	The lithology shown at left is from the boring log for the original MW-168S
	SP		Clayey Fine SAND with trace gravel, 10YR 4/1(grayish brown)				
	GW		Clayey SAND AND GRAVEL, 10YR 5/3 (brown), wet	6	NA	NA	
	CL		Clay, 10YR 5/3 (brown), dry				
	SP		Fine SAND with iron staining, moist				
	ML		Clayey SILT with iron staining, 2.5YR 5/2 (grayish brown)	7	NA	NA	
15	CL		CLAY with Sand and Gravel, wet	8	NA	NA	
	GW		SAND AND GRAVEL, 10YR 5/2 (brown), wet at 17'	9	NA	NA	
20			SAA	10	NA	NA	
			Blind Drilled (21'-22')	11	NA	NA	
25							

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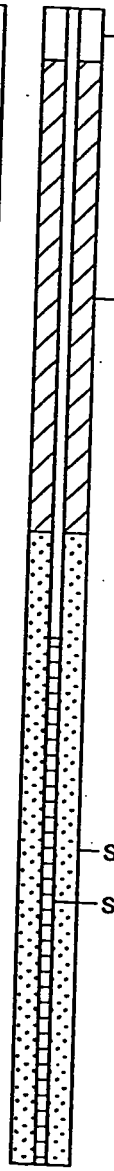

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KERAMIDA Environmental, Inc.

LOG OF BORING MW-169D

(Page 1 of 1)

Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

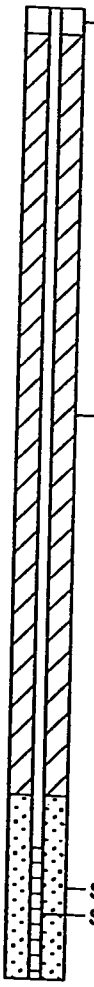
KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-16-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : Approximately 25' E
: from 3908 Cossel Rd.

Well:
Elev.:

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0			SANDY LOAM, damp, pliable, 10YR 4/4 (dark yellowish brown)	1	50	0	
5			SAND, damp, soft, 10YR 4/4 (dark yellowish brown)	2	100	0	
			SAND, damp, friable, 2.5Y 6/2 (light brownish gray)	3	50	0	
			No Recovery (7-9')	4	0	NA	
10			SAND with trace gravel, damp, friable, 2.5Y 5/2 (grayish brown)	5	70	0	
			Gravelly SAND, damp, friable, 2.5Y 5/2 (grayish brown)	6	25	0	
15				7	50	0	
				8	25	0	
				9	50	0	
20	SP		wet	10	25	0	
			Very Gravelly Coarse SAND, wet, soft, 2.5Y 5/3 (light olive brown)	11	75	0	
			iron staining 22.5-23'	12	50	0	
25			Gravelly SAND, wet, soft, 2.5Y 5/1 (gray)	13	50	0	
			SAND	14	25	0	
			Very Gravelly SAND	15	50	0	
30			Gravelly SAND	16	50	0	
35				17	70	0	
				18	70	0	
			SILT LOAM, damp, hard, 2.5Y 4/1 (dark gray)	19	50	0	
40							
45							
50							



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KERAMIDA Environmental, Inc.

LOG OF BORING MW-169S

(Page 1 of 1)

Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-16-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : Approximately 5' east of MW-169D

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0			SANDY LOAM, damp, pliable, 10YR 4/4 (dark yellowish brown)	1	NA	NA	MW-169S was blind drilled to 25'
5			SAND, damp, soft, 10YR 4/4 (dark yellowish brown)	2	NA	NA	
			SAND, damp, friable, 2.5Y 6/2 light brownish gray)	3	NA	NA	Lithology shown at left is from MW-169D
			No Recovery (7-9')	4	NA	NA	
10			SAND with trace gravel, damp, friable, 2.5Y 5/2 (grayish brown)	5	NA	NA	
				6	NA	NA	
15	SP		Gravelly SAND, damp, friable, 2.5Y 5/2 (grayish brown)	7	NA	NA	
				8	NA	NA	
				9	NA	NA	
20			wet	10	NA	NA	
			Very Gravelly Coarse SAND, wet, soft, 2.5Y 5/3 (light olive brown)	11	NA	NA	
			iron staining 22.5-23'	12	NA	NA	
25							
30							
35							
40							
45							
50							

Well:
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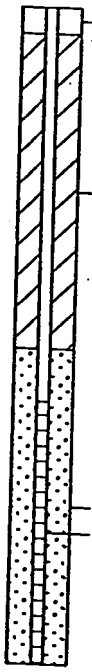

KERAMIDA Environmental, Inc.

LOG OF BORING MW-170S

(Page 1 of 1)

Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-16-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : Approximately 5'
: north of MW-170D

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0	SP		SAND with trace gravel, moist, soft, 2.5Y 5/1 (gray)	1	NA	NA	MW-170S was blind drilled to 27'
			LOAMY SAND, damp, pliable, 2.5Y 5/1 (gray)	2	NA	NA	
5			10YR 4/4 LOAMY SAND, damp, soft, 10YR 4/3 brown)	3	NA	NA	Lithology shown at left is from MW-170D
			Gravelly SAND, damp, friable, 2.5Y 5/3 (light olive brown)	4	NA	NA	
10			SAND with trace gravel, damp, friable, 2.5Y 5/3 (light olive brown)	5	NA	NA	
			10YR 5/6 (yellowish brown)	6	NA	NA	
15			SILT LOAM with trace gravel, damp, pliable, 2.5Y 4/4 (olive brown)	7	NA	NA	
			No Recovery (17-19')	8	NA	NA	
20	SP		SAND with trace gravel, moist, soft, 2.5Y 5/2 (grayish brown)	9	NA	NA	
			Gravelly SAND, moist, soft, 2.5Y 5/3 (light olive brown) wet	10	NA	NA	
25				11	NA	NA	
				12	NA	NA	
				13	NA	NA	
30							
35							
40							
45							
50							

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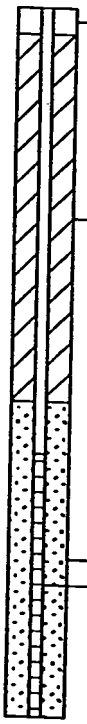

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KERAMIDA Environmental, Inc.

LOG OF BORING MW-170D

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Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

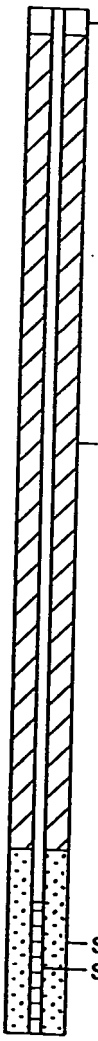
KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-16-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : East side of Holt Rd, : approximately 1 block : south of Michigan St., : near tree line property : boundary

Well:
Elev.:

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0			SAND with trace gravel, moist, soft, 2.5Y 5/1 (gray)				
			LOAMY SAND, damp, pliable, 2.5Y 5/1 (gray)	1	75	0	
5				2	100	0	
			10YR 4/4 (dark yellowish brown)				
	SP		LOAMY SAND, damp, soft, 10YR 4/3 (brown)	3	80	0	
			Gravelly SAND, damp, friable, 2.5Y 5/3 (light olive brown)	4	50	0	
10			SAND with trace gravel, damp, friable, 2.5Y 5/3 (light olive brown)	5	40	0	
				6	50	0	
			10YR 5/6 (yellowish brown)	7	30	0	
15			SILT LOAM with trace gravel, damp, pliable, 2.5Y 4/4 (olive brown)	8	25	0	
			No Recovery (17-19')	9	0	NA	
20			SAND with trace gravel, moist, soft, 2.5Y 5/2 (grayish brown)	10	30	0	
			Gravelly SAND, moist, soft, 2.5Y 5/3 (light olive brown) wet	11	25	0	
25				12	50	0	
				13	50	0	
	SP			14	50	0	
30			SAND with trace gravel, wet, soft, 2.5Y 5/3 (light olive brown)	15	75	0	
			Gravelly SAND, wet, soft, 2.5Y 5/1 (gray)	16	50	0	
35				17	50	0	
				18	50	0	
			SILT LOAM, damp, hard, 2.5Y 5/1 (gray)	19	40	0	
40				20	50	0	
45							
50							



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KERAMIDA Environmental, Inc.

LOG OF BORING MW-171D

(Page 1 of 1)

Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

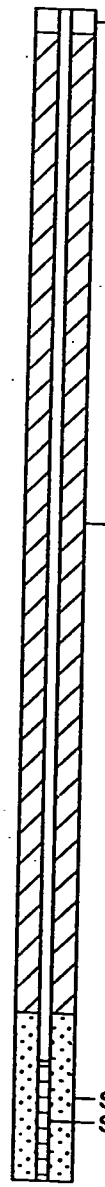
KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-22-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : East side of Olin Avenue, approximately half way between Michigan and Cossel

Well:
Elev.:

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0			Gravelly SAND, damp, soft, 2.5Y 4/3 (olive brown)				
			SAND with trace gravel, damp, soft, 2.5Y 4/3 (olive brown)	1	5	0	
5			SAND, damp, friable, 2.5y 6/2 (light brownish gray)	2	10	0	
	SP		SAND with trace gravel, damp, friable, 2.5Y 5/3 (light olive brown)	3	50	0	
				4	40	0	
10			Gravelly SAND, damp, friable, 2.5Y 5/4 (light olive brown)	5	45	0	
			Very Gravelly SAND, damp, friable, 2.5Y 5/6 (light olive brown)	6	50	0	
15				7	35	0	
			SAND, wet, soft. 2.5Y 5/1	8	45	0	
			SILT LOAM, wet, pliable, 2.5Y 4/1 (dark gray)				
	SP		SAND, wet, soft, 2.5Y 5/1 (gray)	9	45	0	
20			SILT LOAM, wet, soft, 2.5Y 4/1 (dark gray)	10	60	0	
			SAND, wet, soft, 2.5Y 5/1 (gray)				
			SAND with trace gravel, wet, soft, 2.5Y 5/1 (gray)	11	50	0	
25			Gravelly SAND, wet, soft, 2.5Y 5/1 (gray)	12	40	0	
			SAND with trace gravel, wet, soft, 2.5Y 5/1 (gray)	13	50	0	
				14	50	0	
30			Gravelly SAND, wet, soft, 2.5Y 4/1 (dark gray)	15	50	0	
				16	50	0	
35	SP			17	50	0	
			SAND with trace gravel, wet, soft, 2.5Y 4/1 (dark gray)	18	50	0	
40			SAND, wet, soft, 2.5Y 5/1 (gray), slight petro odor	19	55	1.3	
				20	50	1.3	
				21	100		
45			Gravelly SAND, wet, soft, 2.5Y 5/1	22	100	1.3	
			2" SILT LOAM seam at 47', ddry, hard, s.5Y 4/1 (dark gray)	23	100	1.3	
50			SILT LOAM, dry , hard, 2.5Y 4/1	24	100	1.3	
				25	25	0	
55							



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02-25-

KERAMIDA Environmental, Inc.

LOG OF BORING MW-171S

(Page 1 of 1)

Genuine Parts
700 N. Oline Avenue
Indianapolis, Indiana

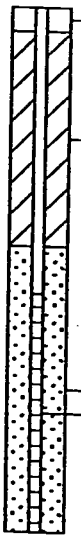
KERAMIDA Project No 2829E

Project I.D. : 2829E
Date Drilled : 1-22-02
Drilling Method : HSA
Geologist : Diane Fordik
Drilling Co : Earth Exploration

General Location : Approximately 5' north of MW-171D

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec. %	PID ppm	REMARKS
0	SP		Gravelly SAND, damp, soft, 2.5Y 4/3 (olive brown)	1	NA	NA	
			SAND with trace gravel, damp, soft, 2.5Y 4/3 (olive brown)	2	NA	NA	
5			SAND, damp, friable, 2.5y 6/2 (light brownish gray)	3	NA	NA	
			SAND with trace gravel, damp, friable, 2.5Y 5/3 (light olive brown)	4	NA	NA	
10			Gravelly SAND, damp, friable, 2.5Y 5/4 (light olive brown)	5	NA	NA	
			Very Gravelly SAND, damp, friable, 2.5Y 5/6 (light olive brown)	6	NA	NA	
15			SAND, wet, soft, 2.5Y 5/1	7	NA	NA	
	SP		SILT LOAM, wet, pliable, 2.5Y 4/1 (dark gray)	8	NA	NA	
			SAND, wet, soft, 2.5Y 5/1 (gray)	9	NA	NA	
20	SP		SILT LOAM, wet, soft, 2.5Y 4/1 (dark gray)	10	NA	NA	
			SAND, wet, soft, 2.5Y 5/1 (gray)	11	NA	NA	
25							
30							
35							
40							
45							
50							
55							

Well:
Elev.:



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02-25-2

KERAMIDA Environmental, Inc.	LOG OF BORING MW-172D (Page 1 of 1)

Genuine Parts Company
700 North Olin Avenue
Indianapolis, Indiana

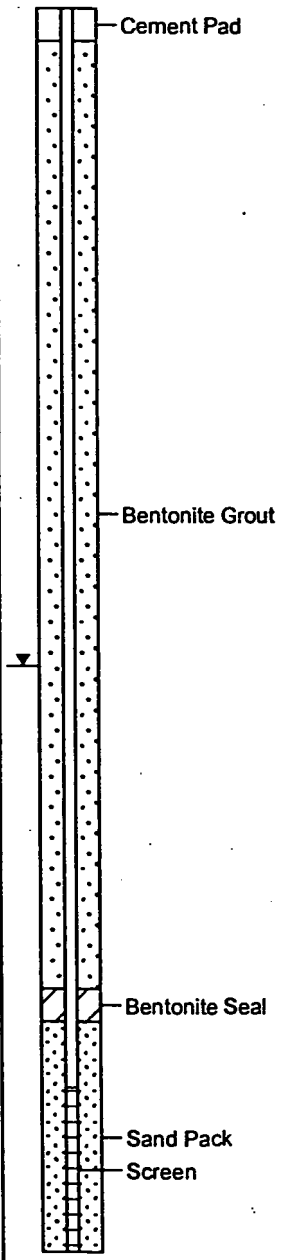
KERAMIDA Project No. 2829E

Project ID : 2829E
Date Drilled : 8/29/02
Drilling Method : Geoprobe
Geologist : Diane Fordik
Drilling Co. : KEI

General Location : Approximately 364' W of MW-169D

Well: MW-172D
Elev.:

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		SANDY LOAM, dry, hard, 10YR 3/3 (dark brown)	1	50	0.0	
2			2	100	0.9	
4		Medium SAND, dry, friable, 2.5Y 6/3 (light yellowish brown)	3	50	0.9	
6		Medium SAND with trace gravel, dry, friable, 2.5Y 6/3 (light yellowish brown)	4	75	0.9	
8			5	50	0.9	
10			6	50	0.9	
12		Medium to Coarse SAND, dry, friable, 2.5Y 6/3 (light yellowish brown)	7	50	0.9	
14			8	50	0.9	
16		Medium SAND with trace coarse gravel, damp, friable, 2.5Y 5/1 (gray)	9	50	0.9	
18		Fine to Medium SAND, moist, 2.5Y 5/1 (gray)	10	50	0.9	
20		Medium to Coarse SAND, saturated, friable, 2.5Y 5/1 (gray)	11	50	0.9	
22			12	50	0.9	
24		Medium to Coarse SAND with trace gravel, saturated, friable, 2.5Y 5/1 (gray)	13	50	0.9	
26			14	80	0.9	
28			15	50	0.9	
30		Medium to Coarse SAND, saturated, friable, 2.5Y 5/1 (gray)	16	50	0.9	
32		Medium to Coarse SAND with trace gravel, saturated, friable, 2.5Y 5/1 (gray)	17	50	0.9	
34		Medium to Coarse SAND, saturated, friable, 2.5Y 5/1 (gray)	18	50	0.9	
36			19	75	0.9	
38		SILT LOAM with trace gravel, damp, hard, 2.5Y 5/1 (gray)	20	40	0.9	
40						



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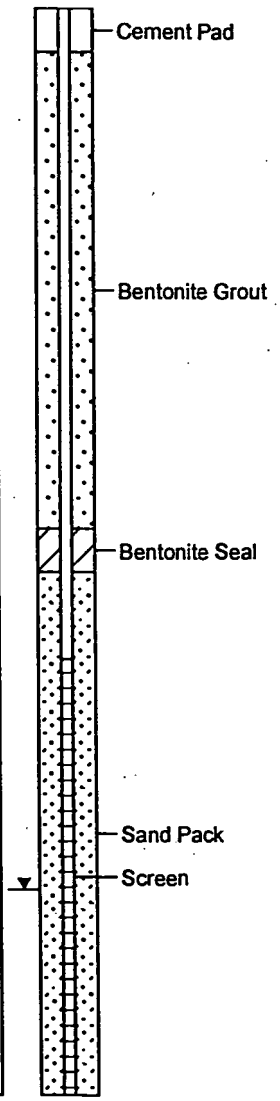
KERAMIDA Environmental, Inc.	LOG OF BORING MW-172S (Page 1 of 1)
Genuine Parts Company 700 North Olin Avenue Indianapolis, Indiana	Project ID : 2829E Date Drilled : 8/29/02 Drilling Method : Geoprobe Geologist : Diane Fordik Drilling Co. : KEI General Location : 4' S of MW-172D
KERAMIDA Project No. 2829E	

Depth in feet	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0		Blind Drilled (0-25')				
2		See MW-172D for Lithologies				
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						

Well: MW-172S
Elev.:



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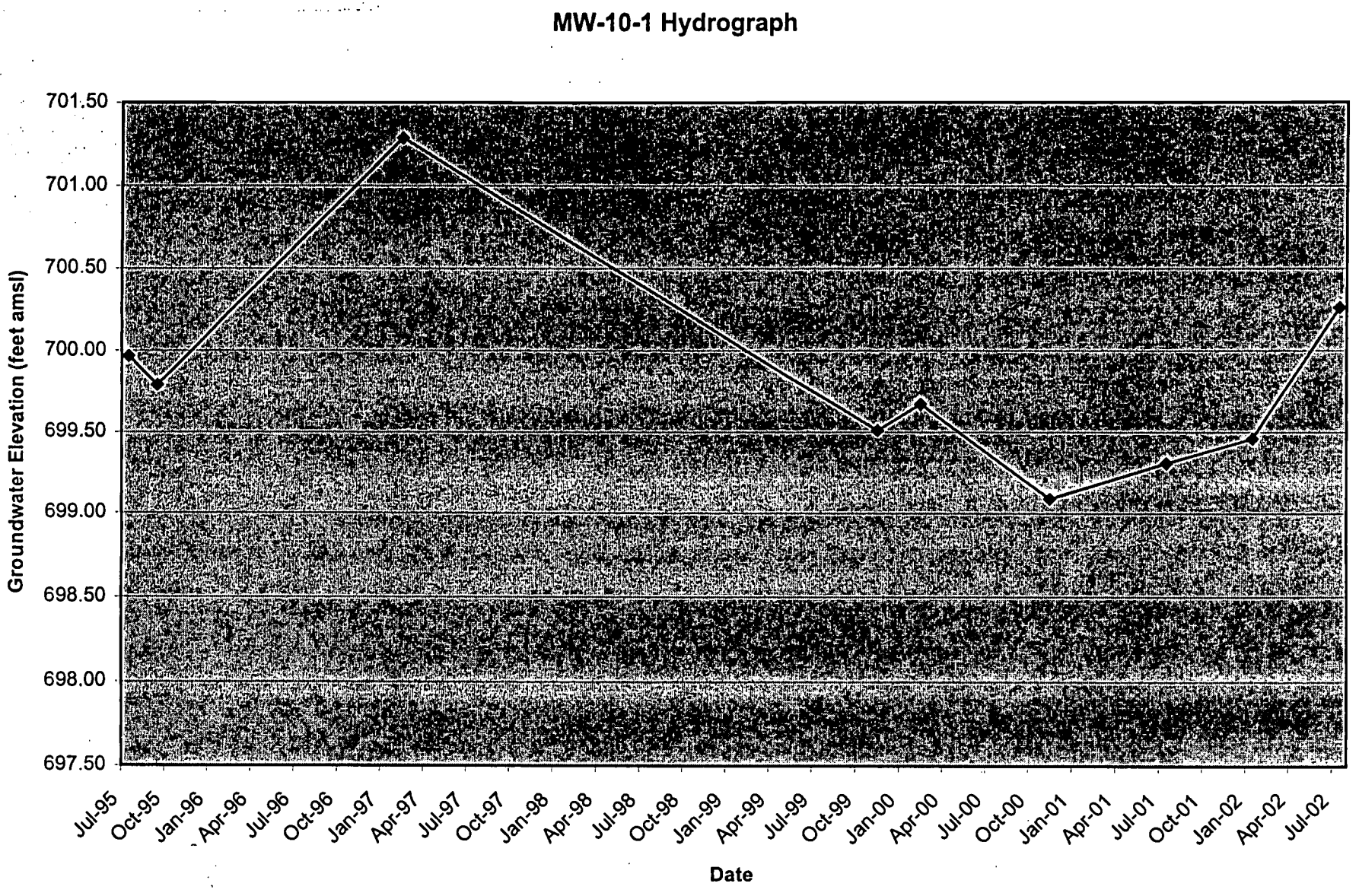
MW-10-1 Hydrograph
Groundwater Elevation (feet amsl)
701.50
701.00
700.50
700.00
699.50
699.00
698.50
698.00
697.50
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
Oct-98
Jan-99
Apr-99
Jul-99
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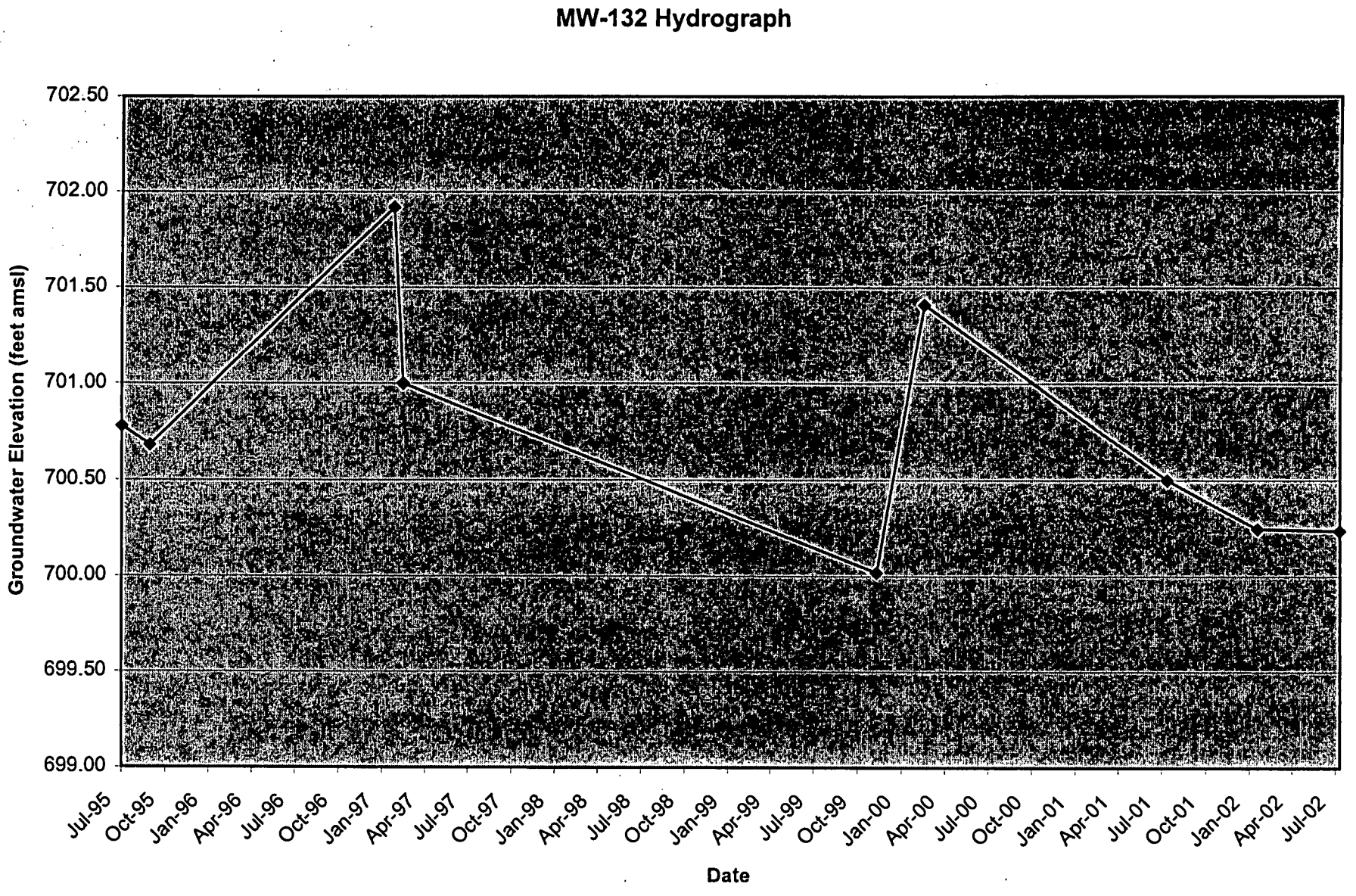
Jan-02
Apr-02
Jul-02
Date


MW-132 Hydrograph
Groundwater Elevation (feet amsl)
702.50
702.00
701.50
701.00
700.50
700.00
699.50
699.00
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
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Jan-99
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Jul-99
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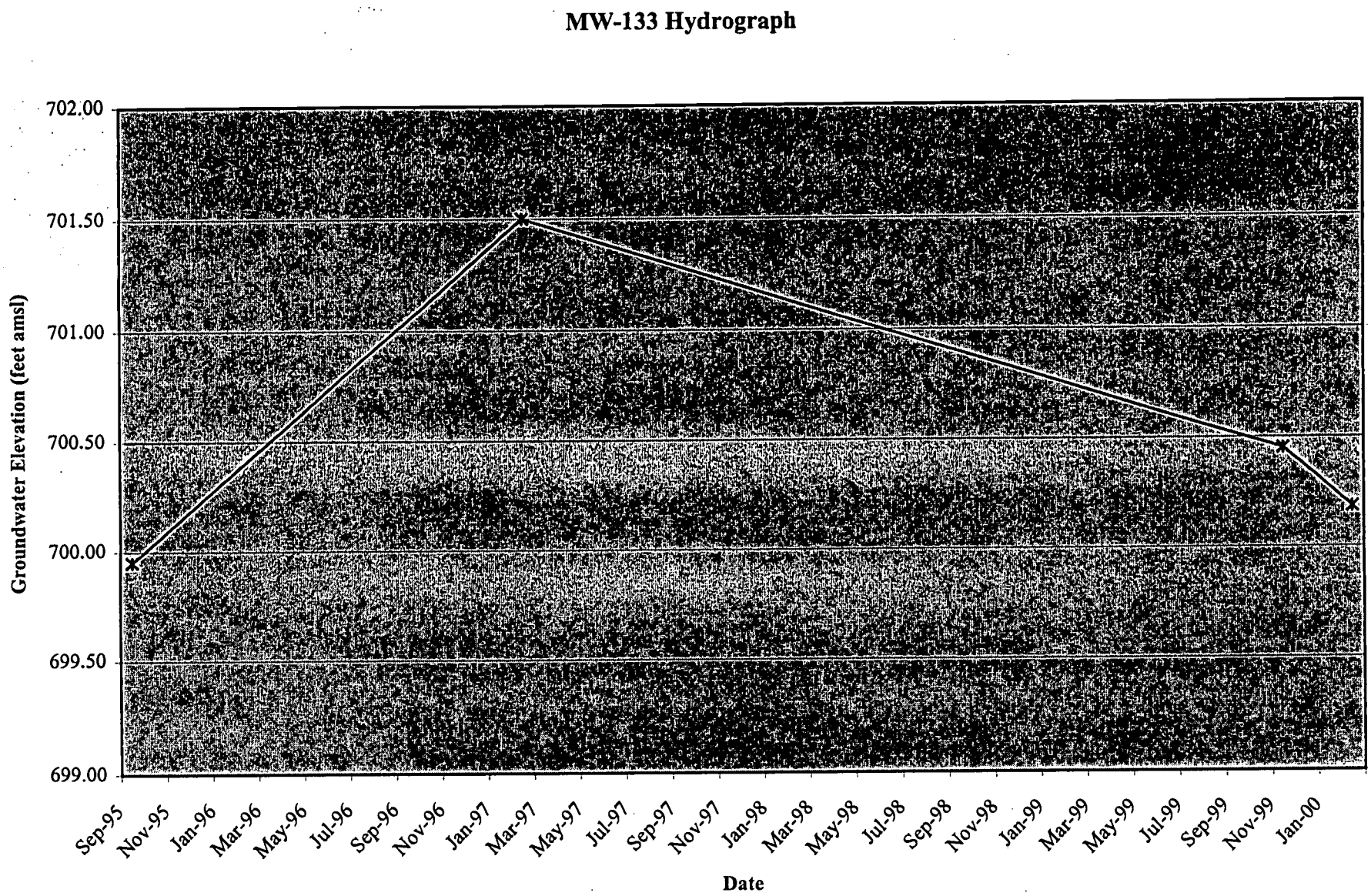
Jan-02
Apr-02
Jul-02
Date


MW-133 Hydrograph
Groundwater Elevation (feet amsl)
702.00
701.50
701.00
700.50
700.00
699.50
699.00
Sep-95
Nov-95
Jan-96
Mar-96
May-96
Jul-96
Sep-96
Nov-96
Jan-97
Mar-97
May-97
Jul-97
Sep-97
Nov-97
Jan-98
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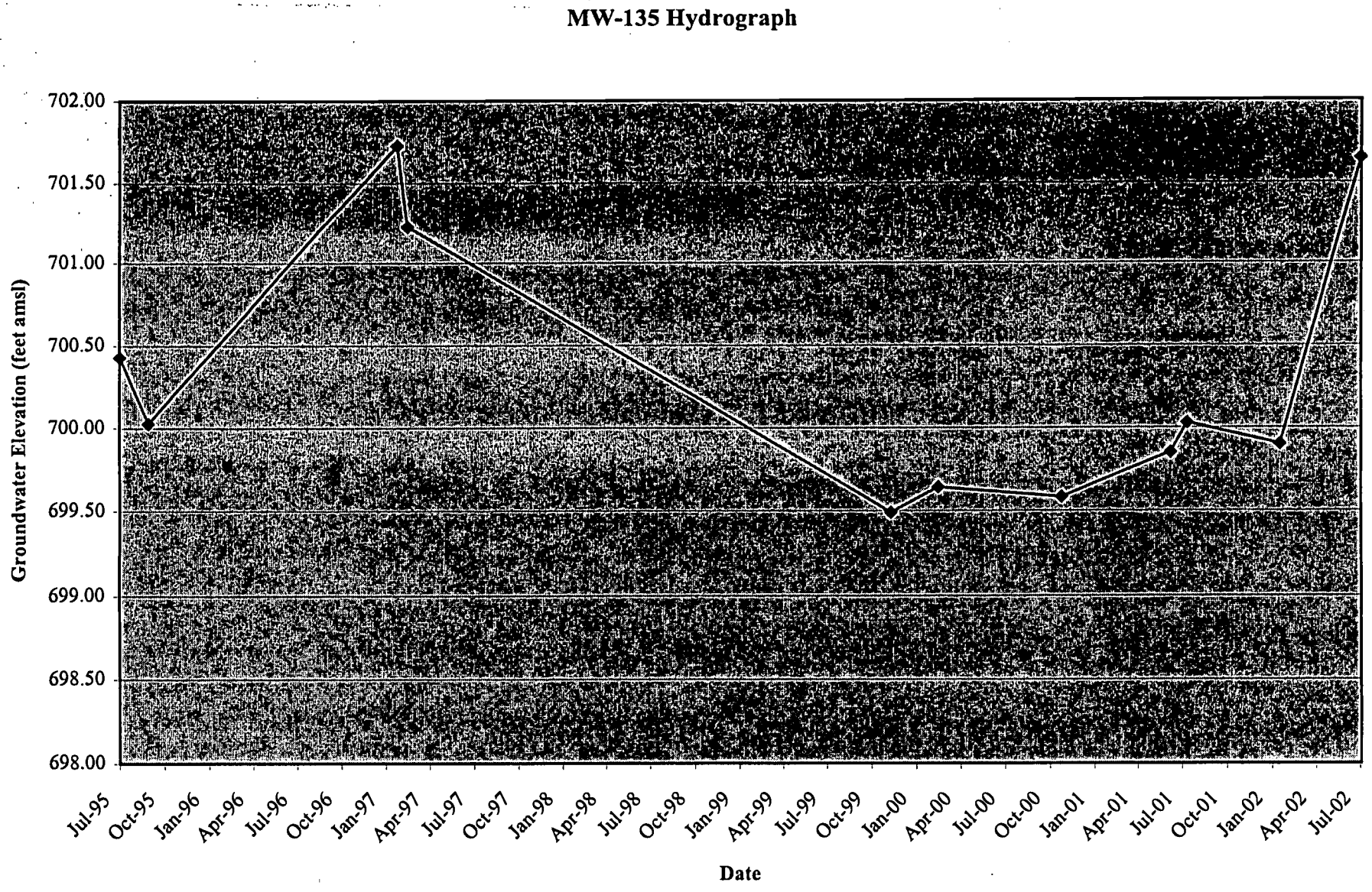
Sep-99
Nov-99
Jan-00
Date


MW-135 Hydrograph
Groundwater Elevation (feet amsl)
702.00
701.50
701.00
700.50
700.00
699.50
699.00
698.50
698.00
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
Oct-98
Jan-99
Apr-99
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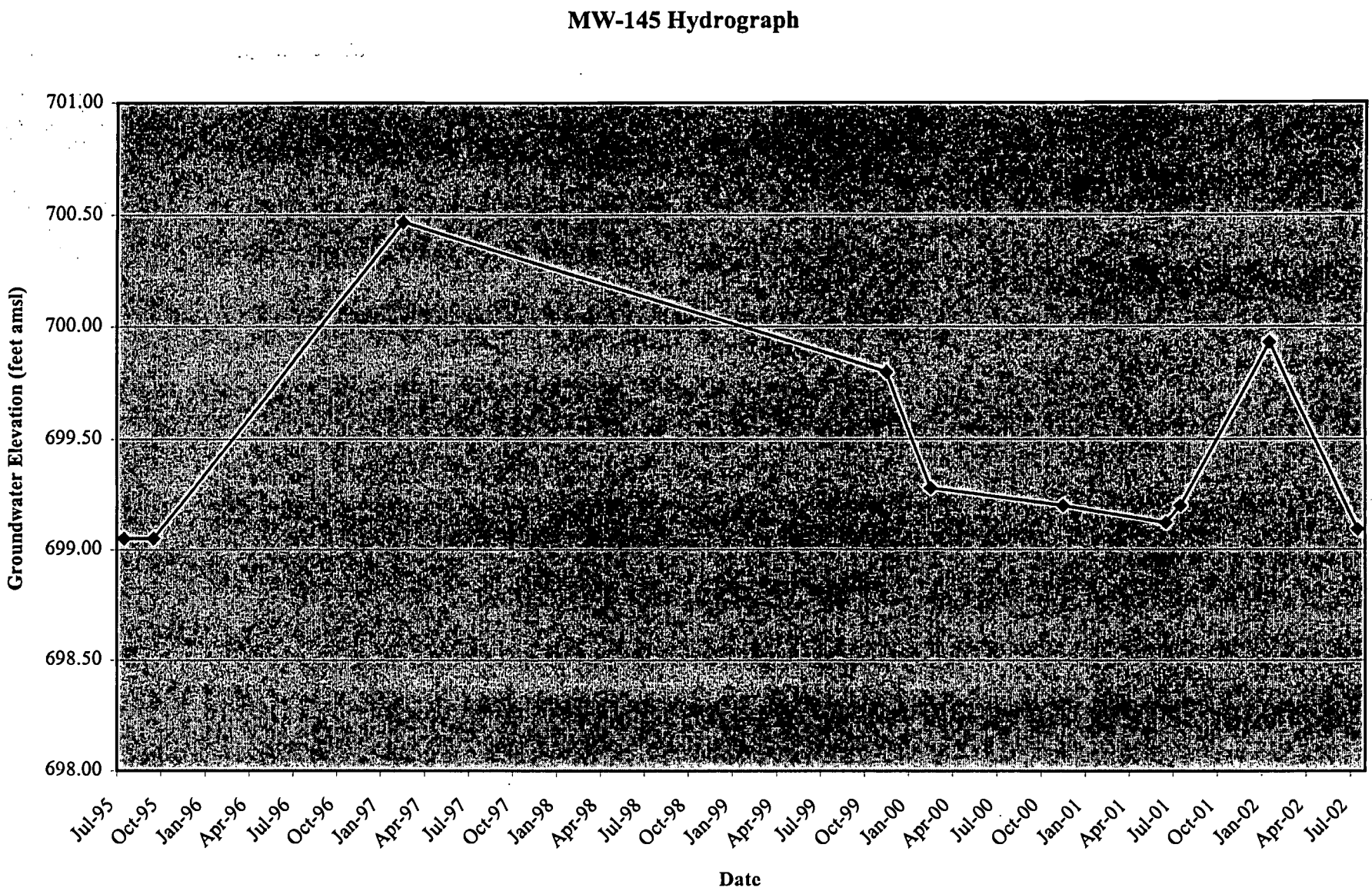
Apr-02
Jul-02
Date


MW-145 Hydrograph
Groundwater Elevation (feet amsl)
701.00
700.50
700.00
699.50
699.00
698.50
698.00
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
Oct-98
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Apr-99
Jul-99
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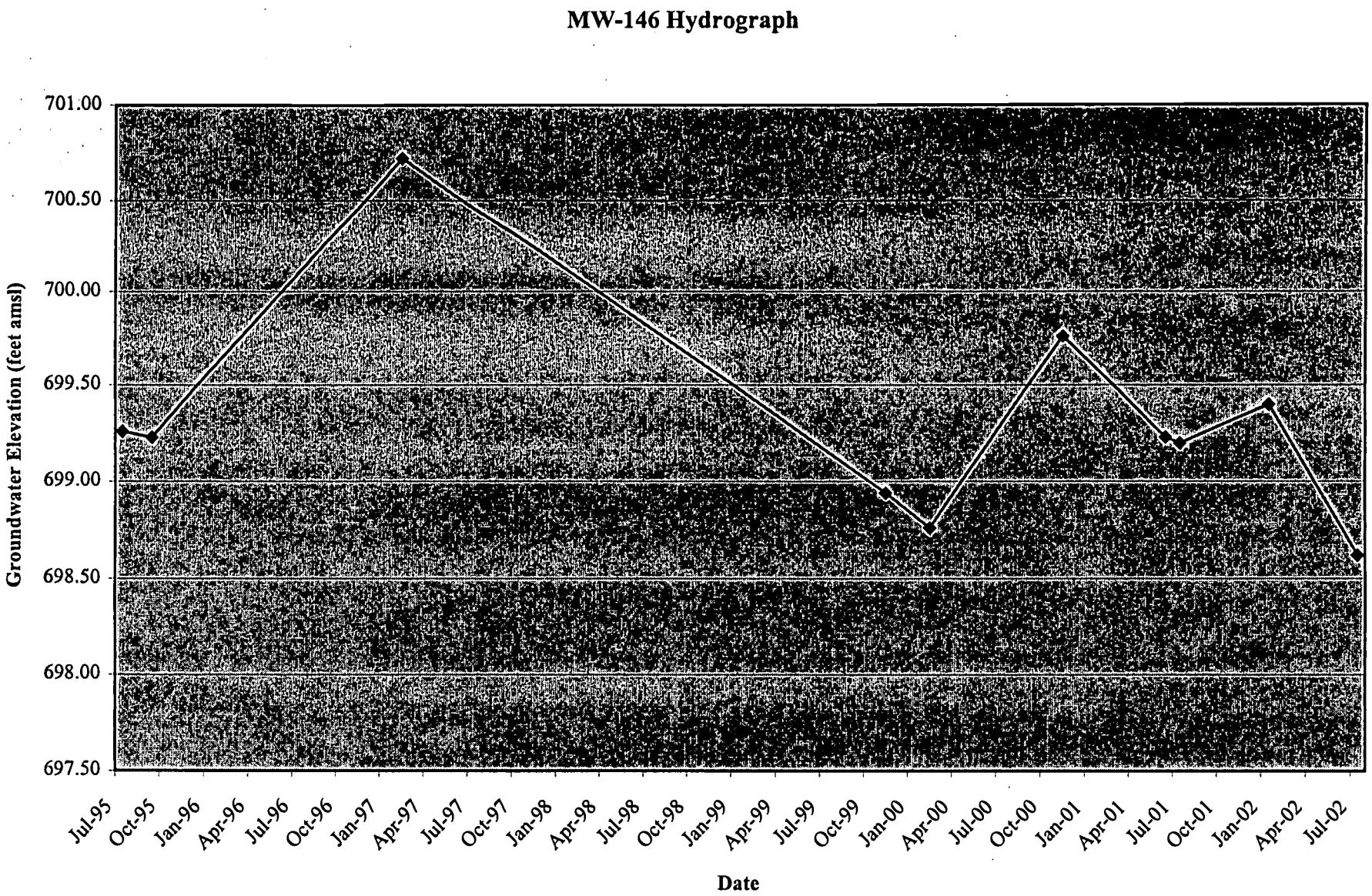
Jan-02
Apr-02
Jul-02
Date


MW-146 Hydrograph
Groundwater Elevation (feet amsl)
701.00
700.50
700.00
699.50
699.00
698.50
698.00
697.50
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
Oct-98
Jan-99
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Jul-99
Oct-99
Jan-00
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Oct-00
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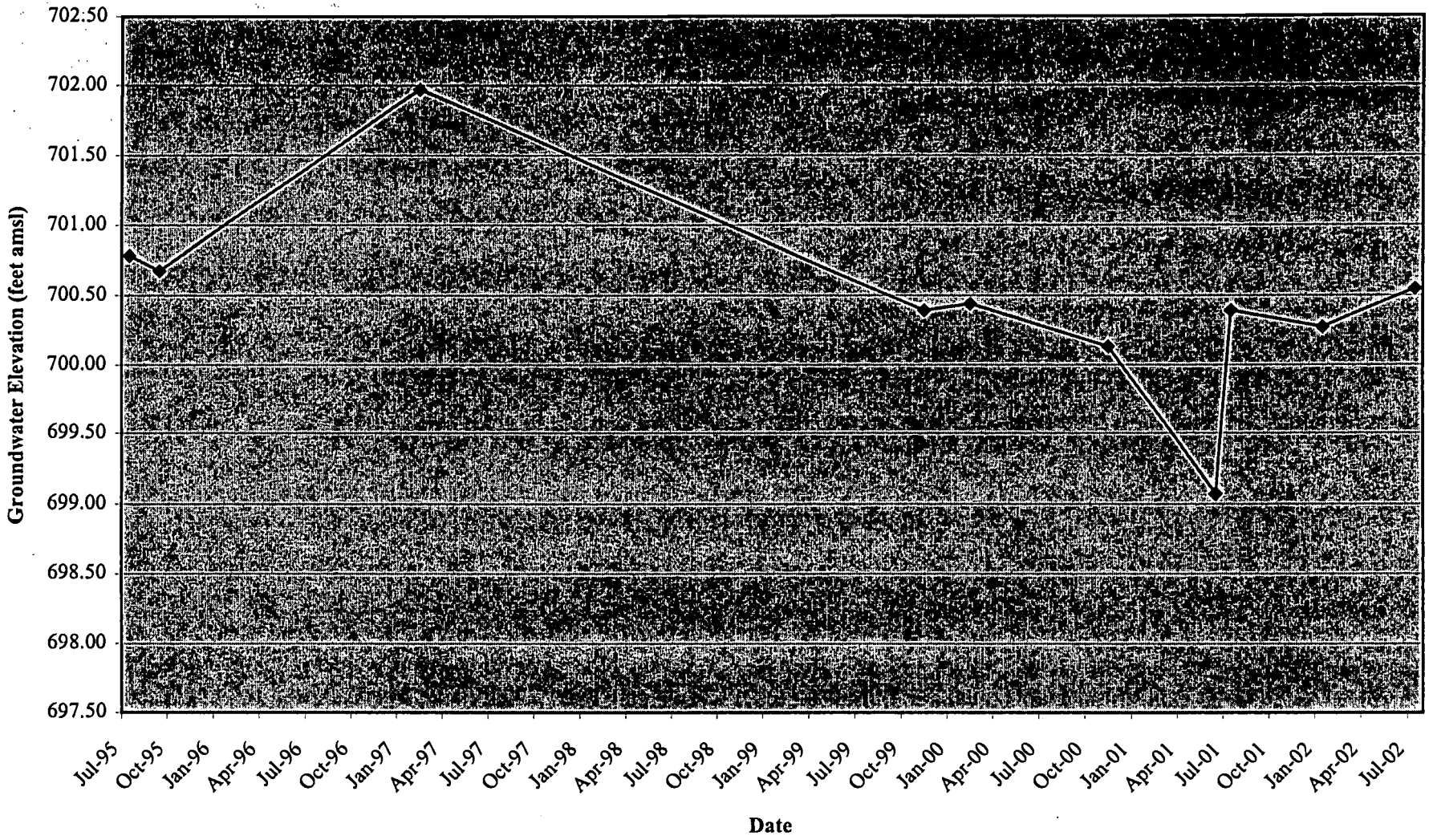
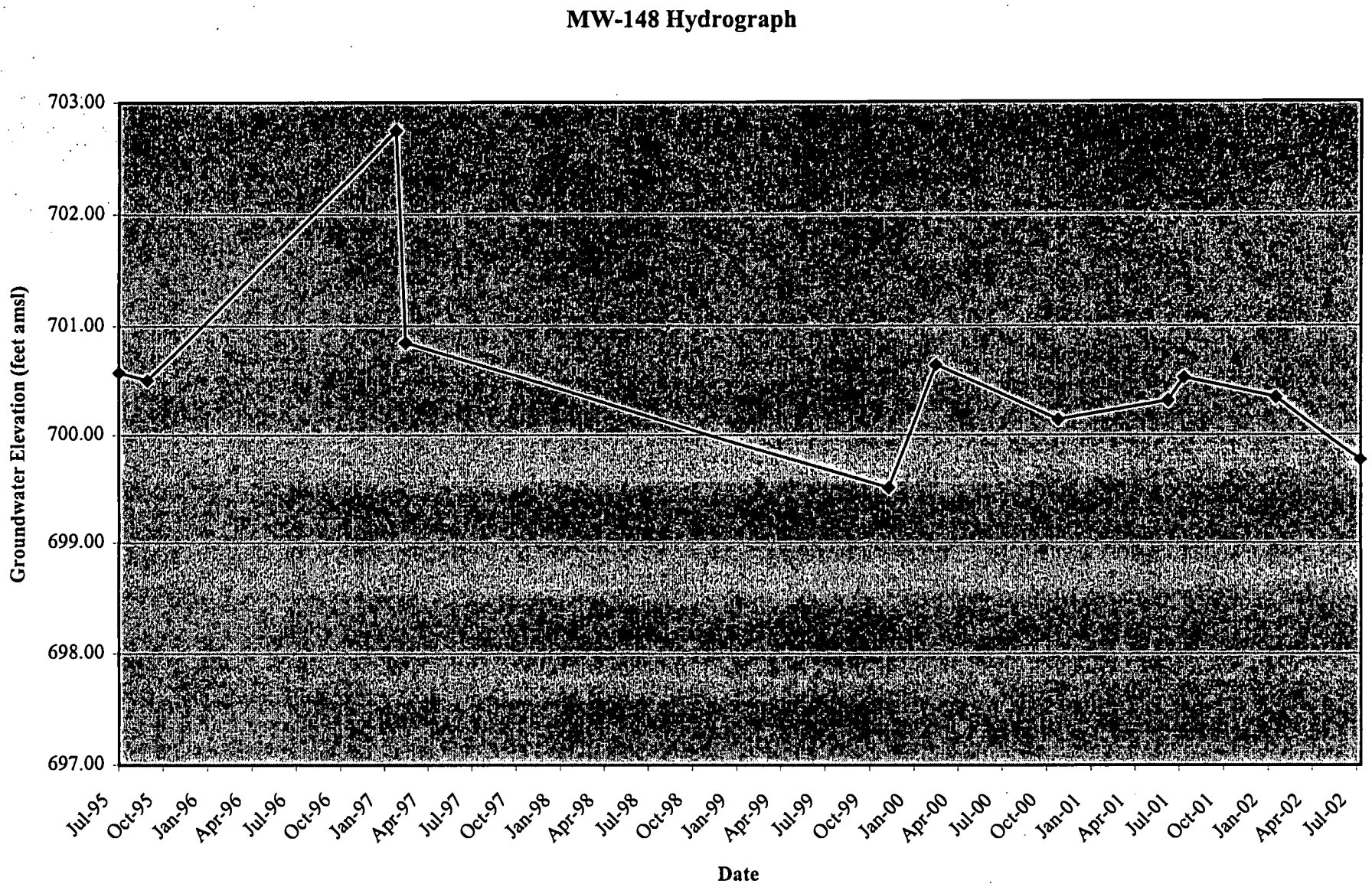
Apr-01
Jul-01
Oct-01
Jan-02
Apr-02
Jul-02
Date

MW-147 Hydrograph




MW-148 Hydrograph
Groundwater Elevation (feet amsl)
703.00
702.00
701.00
700.00
699.00
698.00
697.00
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
Oct-98
Jan-99
Apr-99
Jul-99
Oct-99
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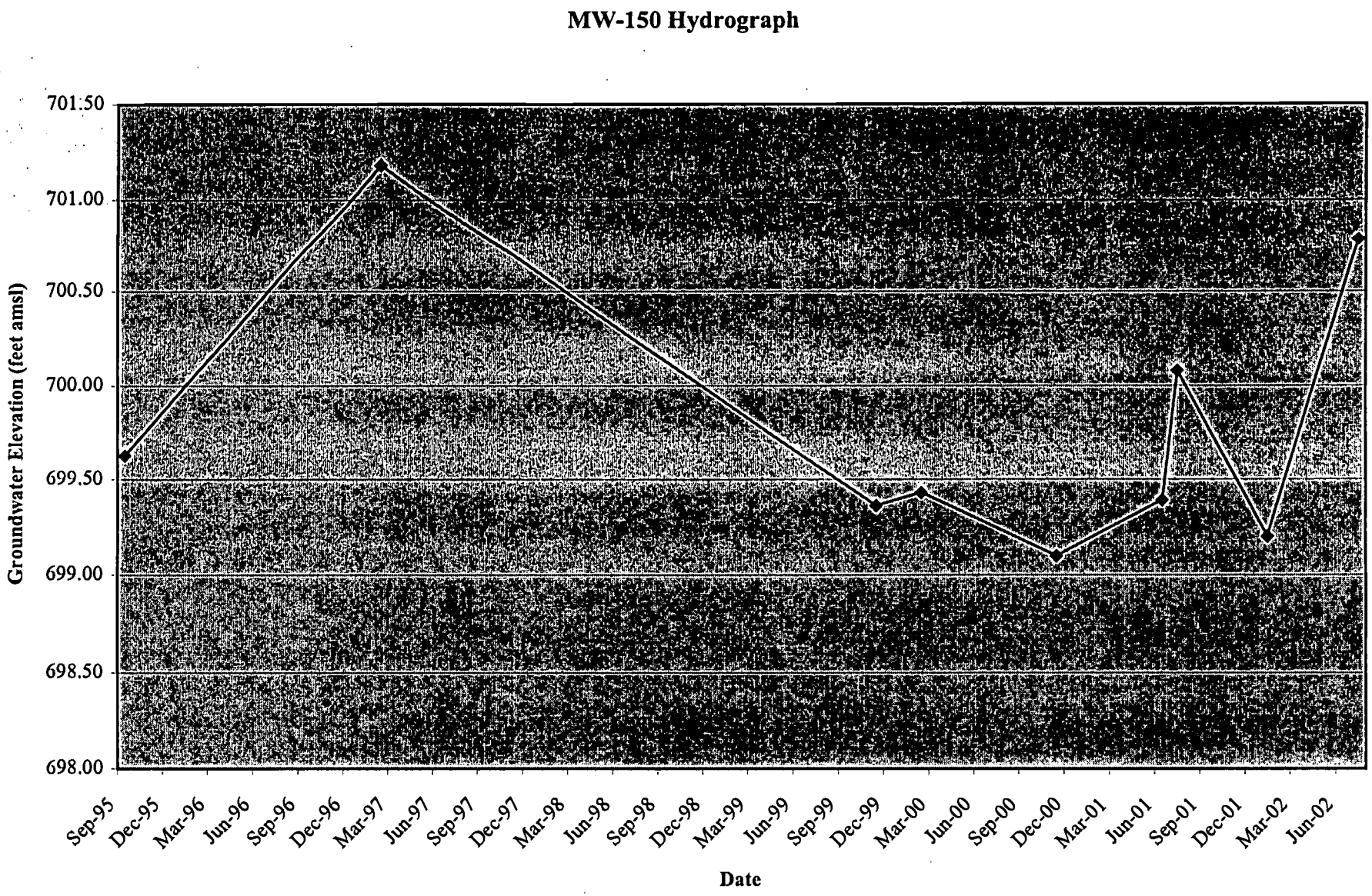
Apr-02
Jul-02
Date


MW-150 Hydrograph
Groundwater Elevation (feet amsl)
701.50
701.00
700.50
700.00
699.50
699.00
698.50
698.00
Sep-95
Dec-95
Mar-96
Jun-96
Sep-96
Dec-96
Mar-97
Jun-97
Sep-97
Dec-97
Mar-98
Jun-98
Sep-98
Dec-98
Mar-99
Jun-99
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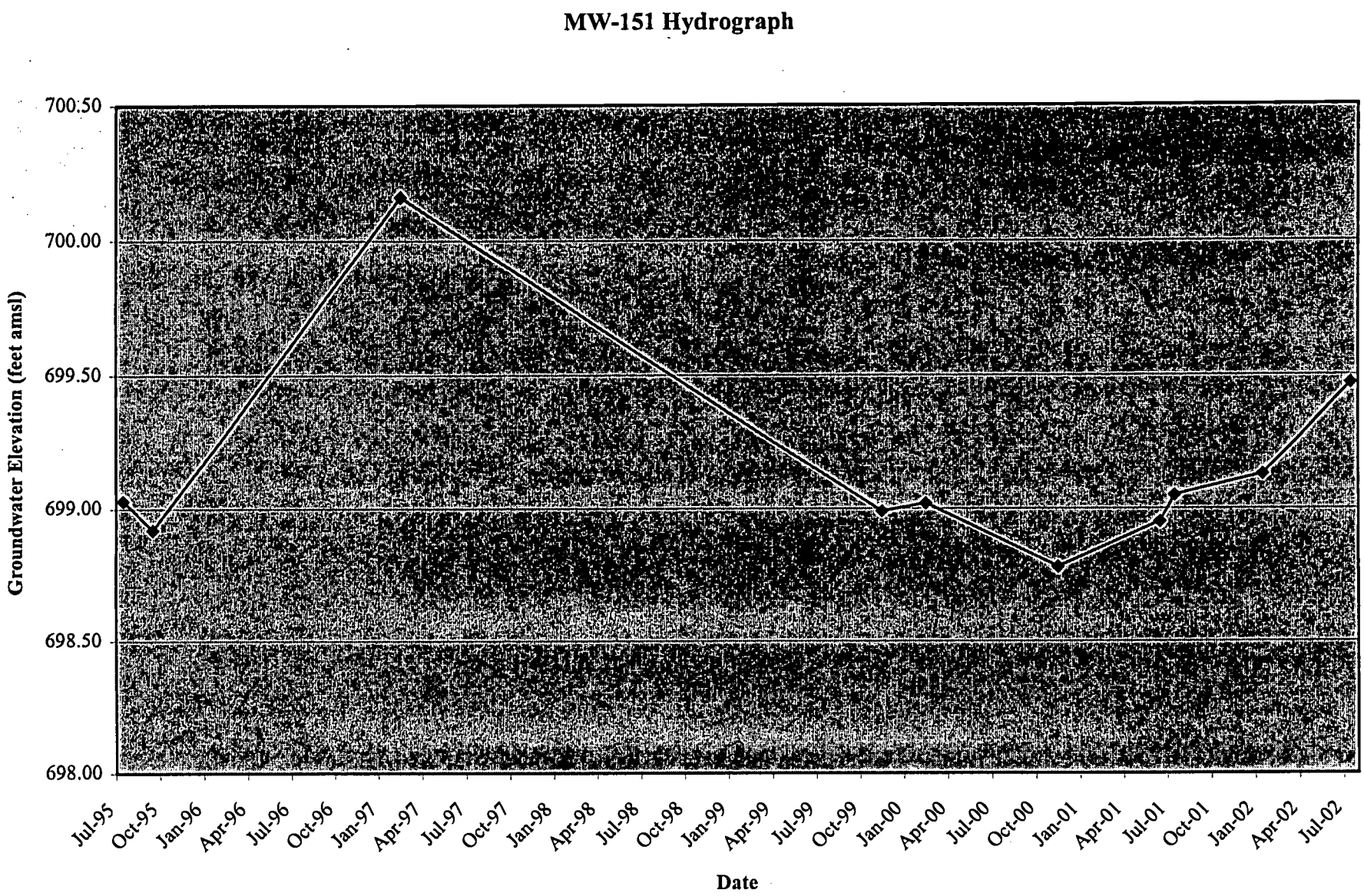
Dec-01
Mar-02
Jun-02
Date


MW-151 Hydrograph
Groundwater Elevation (feet amsl)
700.50
700.00
699.50
699.00
698.50
698.00
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
Oct-98
Jan-99
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Jul-99
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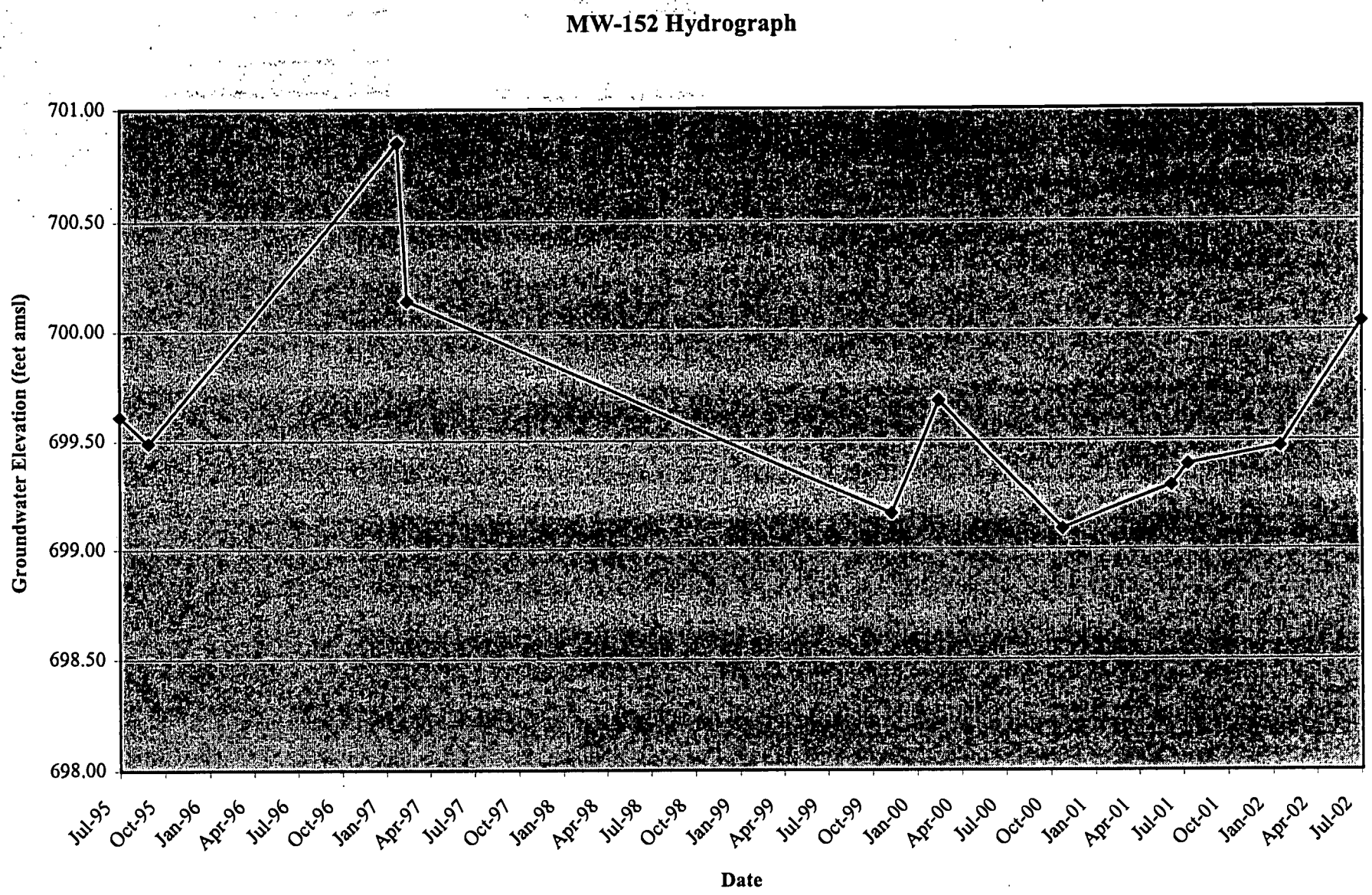
Jan-02
Apr-02
Jul-02
Date


MW-152 Hydrograph
Groundwater Elevation (feet amsl)
701.00
700.50
700.00
699.50
699.00
698.50
698.00
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
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Jan-99
Apr-99
Jul-99
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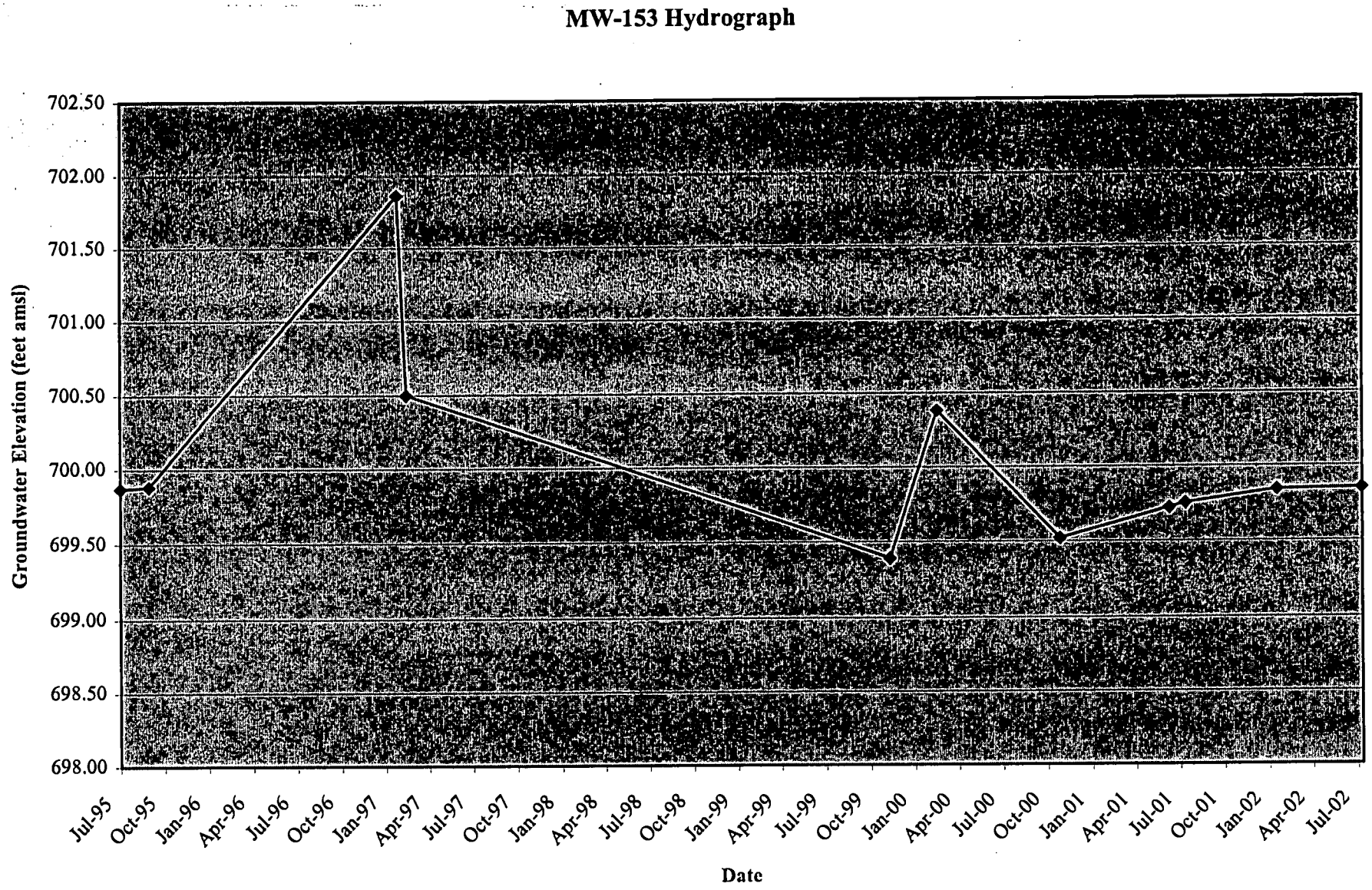
Apr-02
Jul-02
Date


MW-153 Hydrograph
Groundwater Elevation (feet amsl)
702.50
702.00
701.50
701.00
700.50
700.00
699.50
699.00
698.50
698.00
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
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Jan-99
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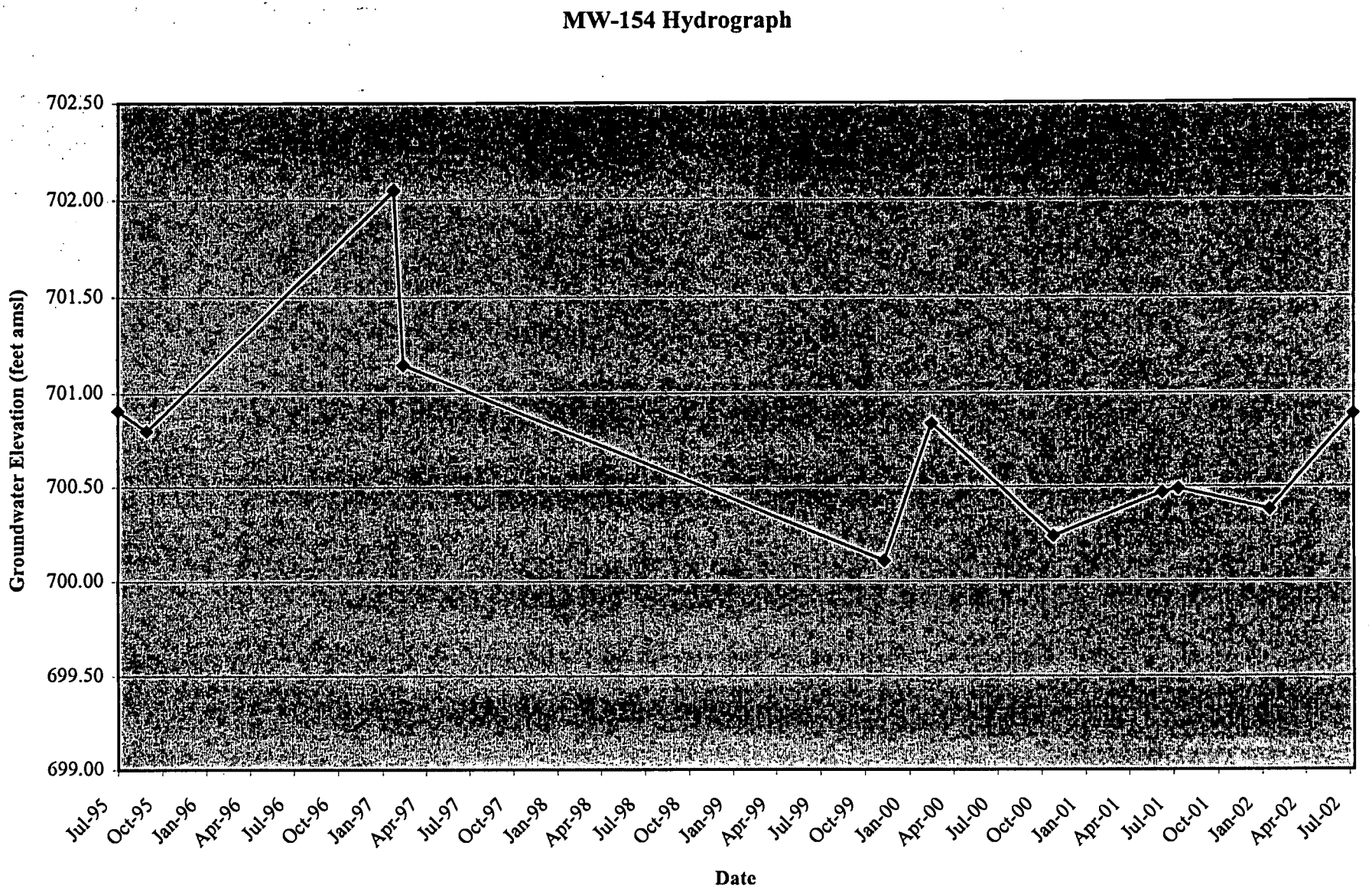
Jul-02
Date


MW-154 Hydrograph
Groundwater Elevation (feet amsl)
702.50
702.00
701.50
701.00
700.50
700.00
699.50
699.00
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
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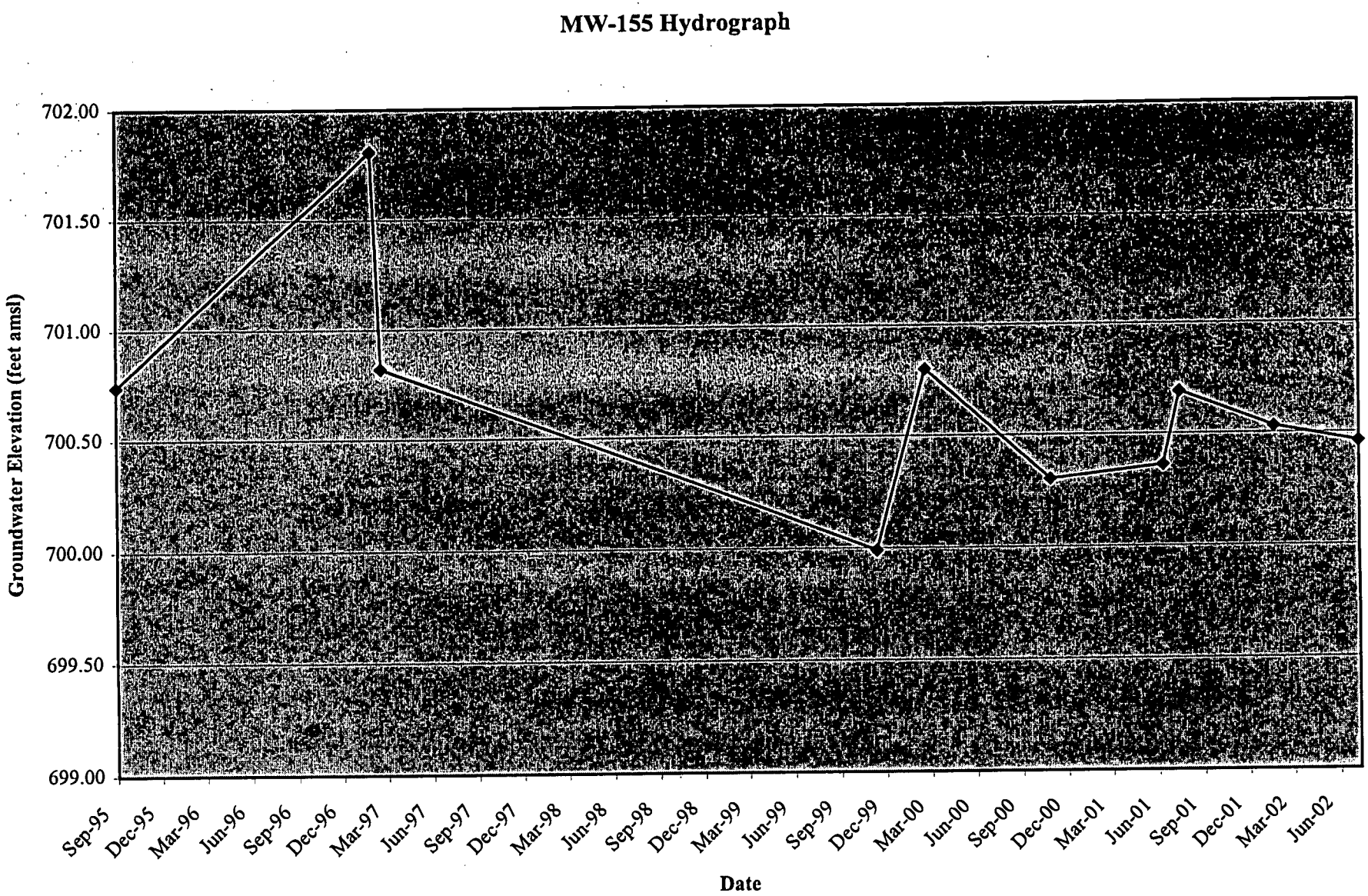
Apr-02
Jul-02
Date


MW-155 Hydrograph
Groundwater Elevation (feet amsl)
702.00
701.50
701.00
700.50
700.00
699.50
699.00
Sep-95
Dec-95
Mar-96
Jun-96
Sep-96
Dec-96
Mar-97
Jun-97
Sep-97
Dec-97
Mar-98
Jun-98
Sep-98
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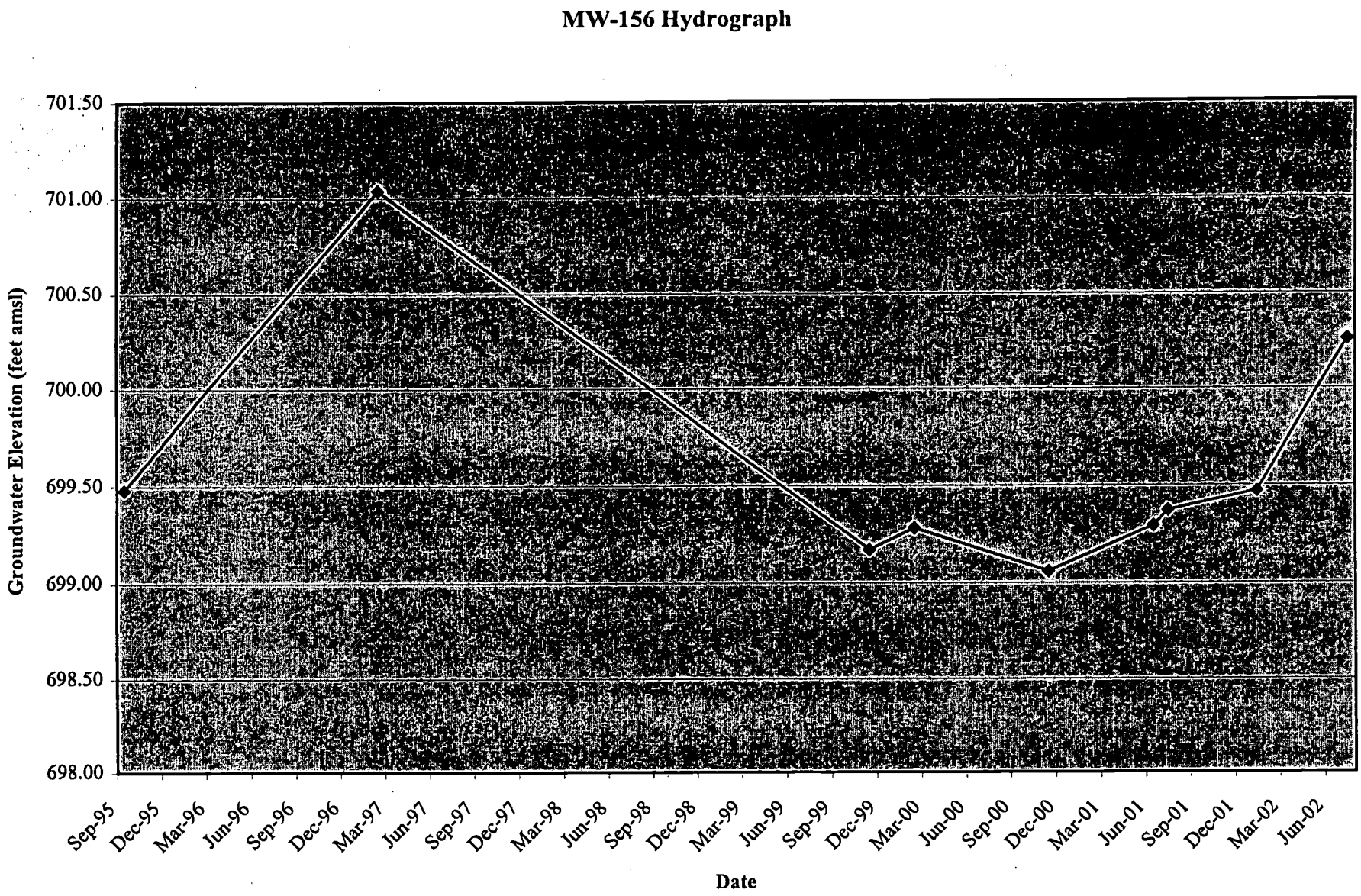
Mar-02
Jun-02
Date


MW-156 Hydrograph
Groundwater Elevation (feet amsl)
701.50
701.00
700.50
700.00
699.50
699.00
698.50
698.00
Sep-95
Dec-95
Mar-96
Jun-96
Sep-96
Dec-96
Mar-97
Jun-97
Sep-97
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Jun-98
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Jun-99
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Dec-99
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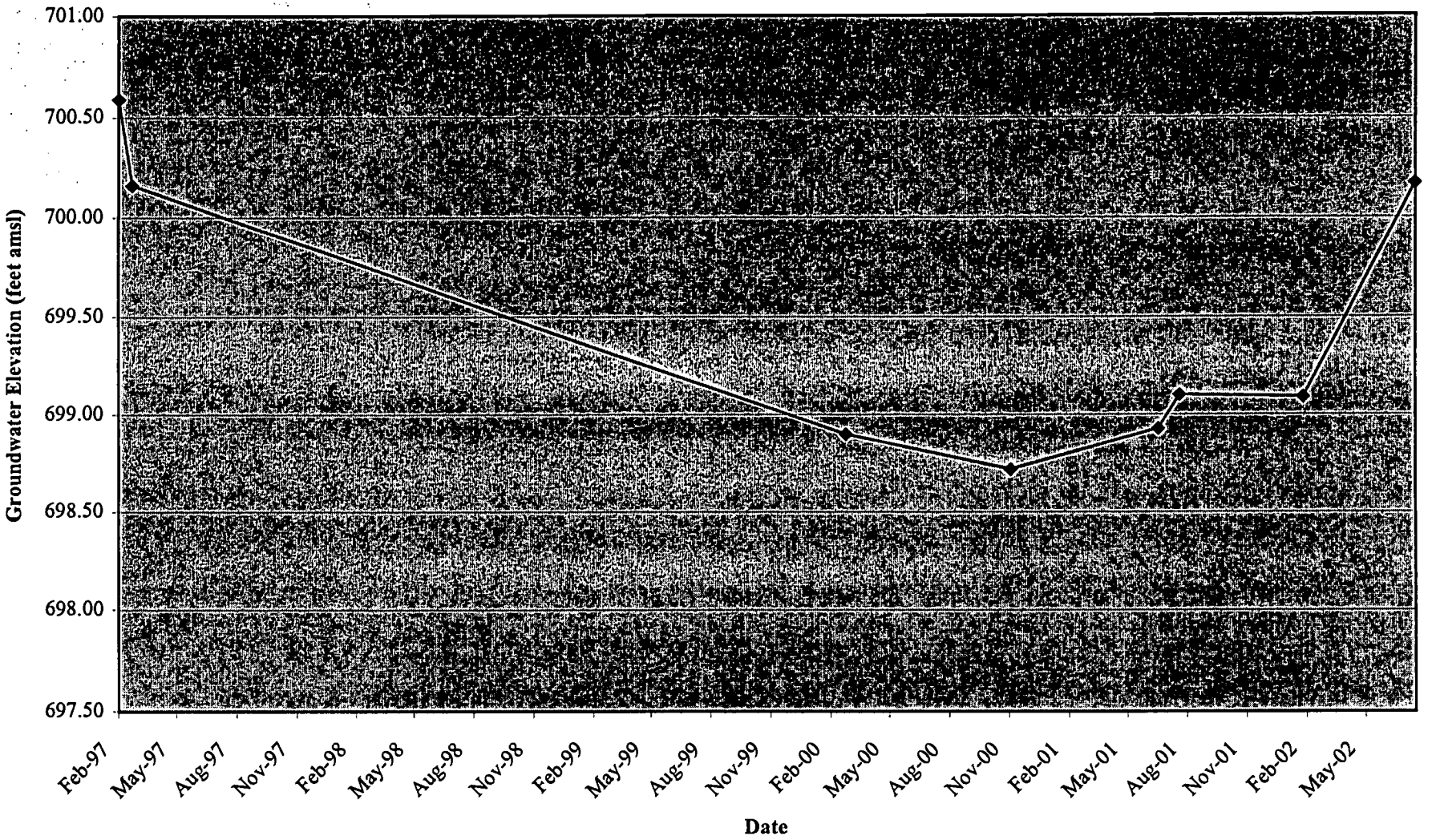
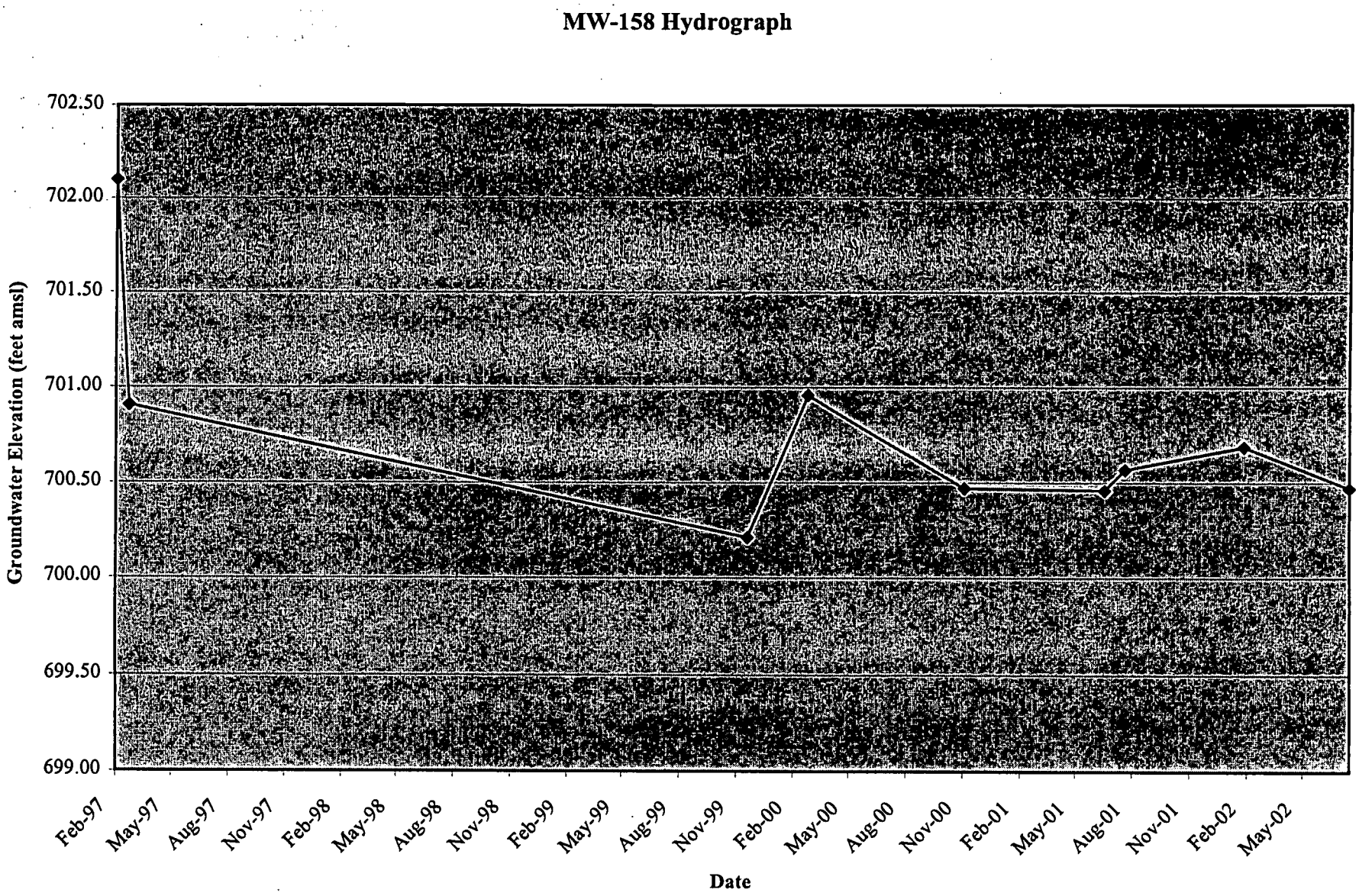
Mar-02
Jun-02
Date

MW-157 Hydrograph




MW-158 Hydrograph
Groundwater Elevation (feet amsl)
702.50
702.00
701.50
701.00
700.50
700.00
699.50
699.00
Feb-97
May-97
Aug-97
Nov-97
Feb-98
May-98
Aug-98
Nov-98
Feb-99
May-99
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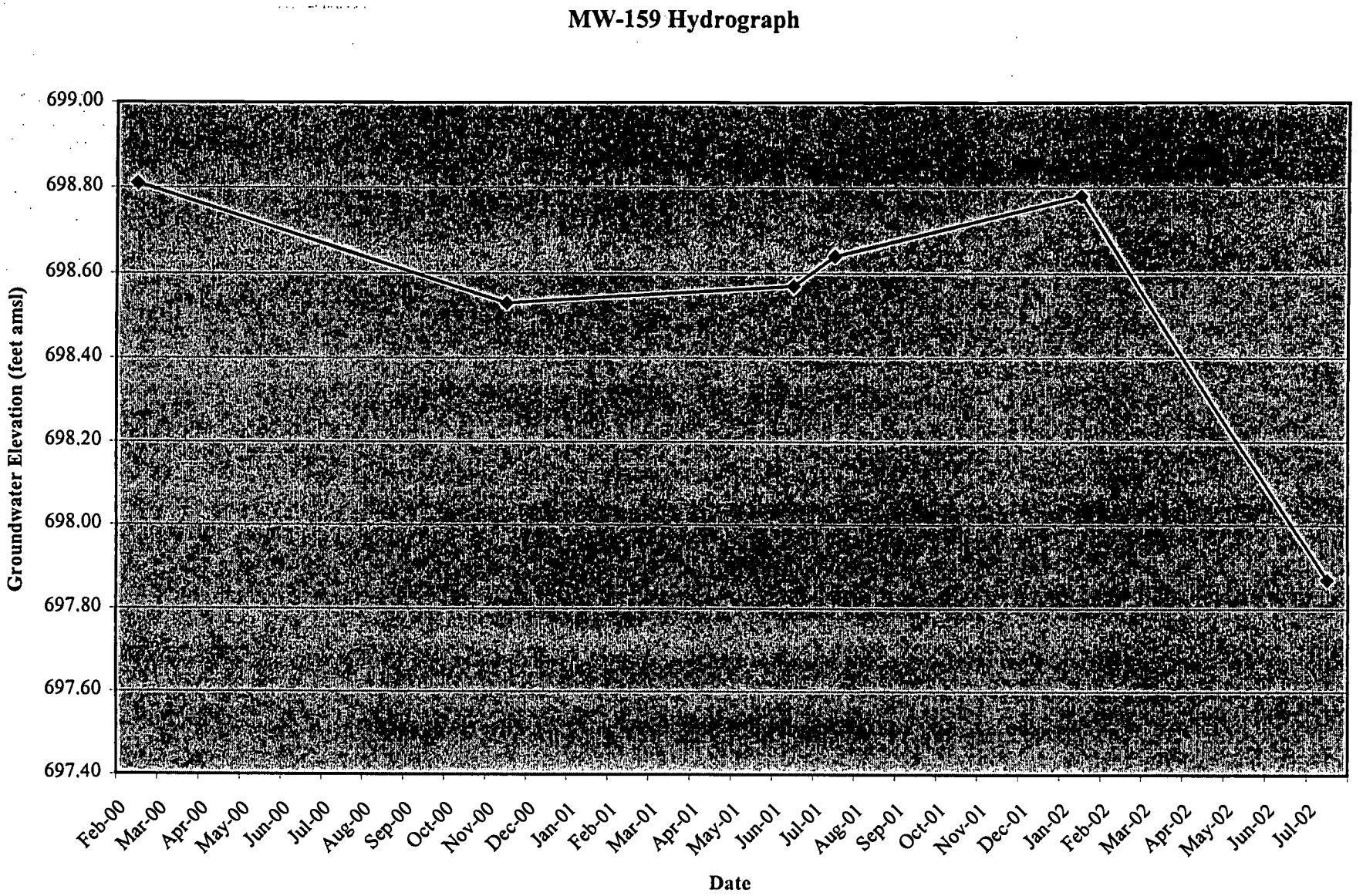
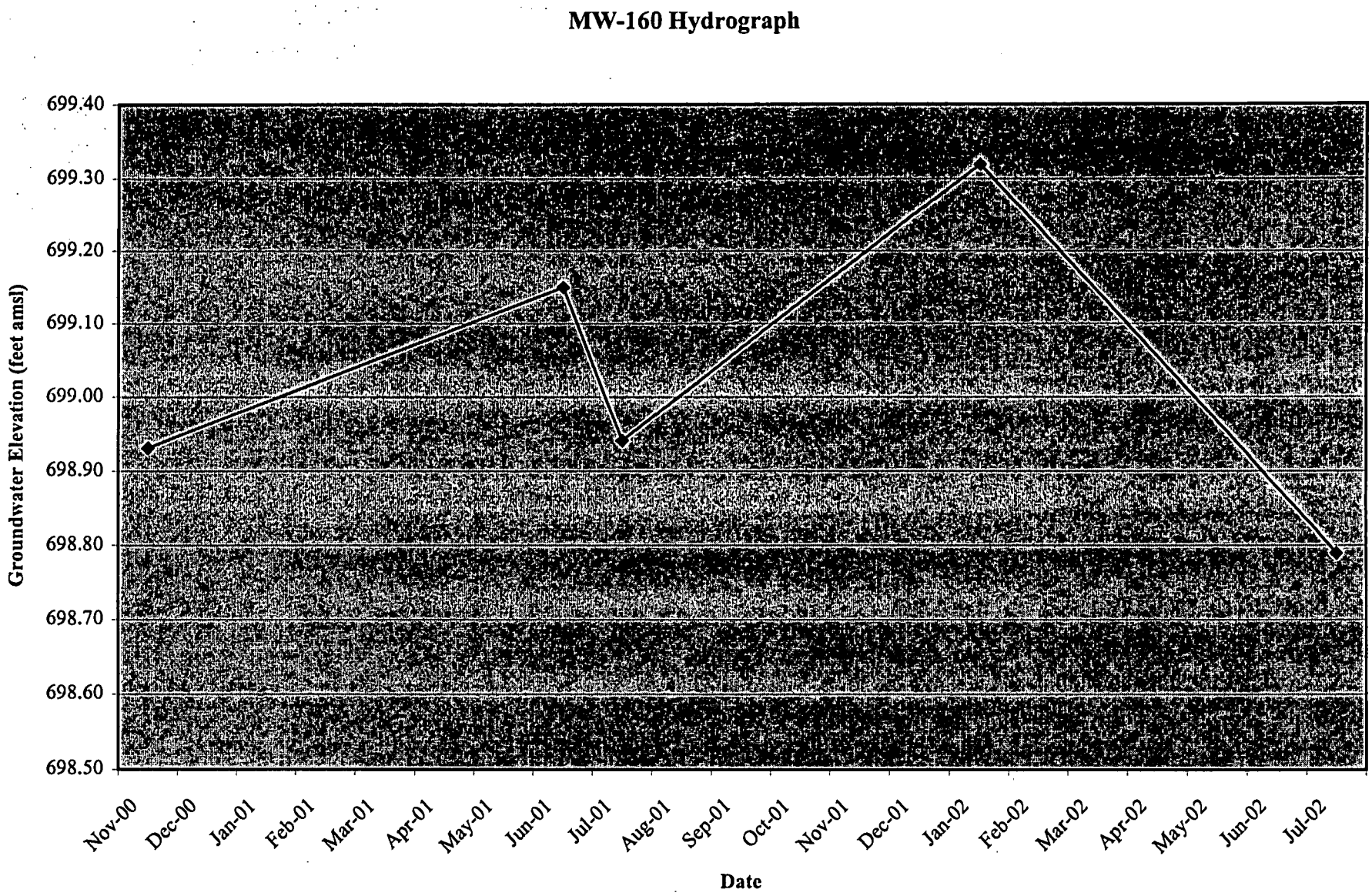
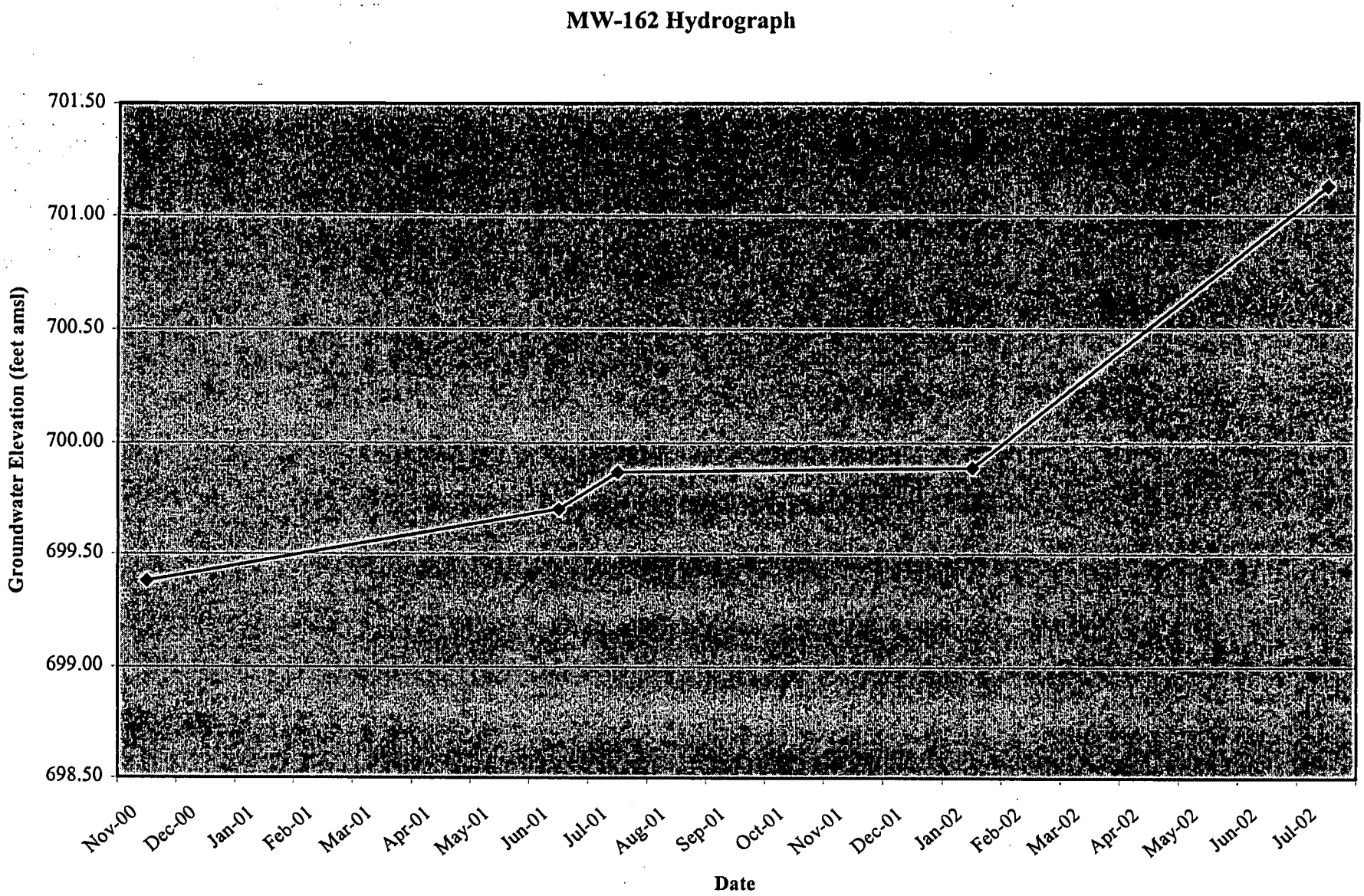
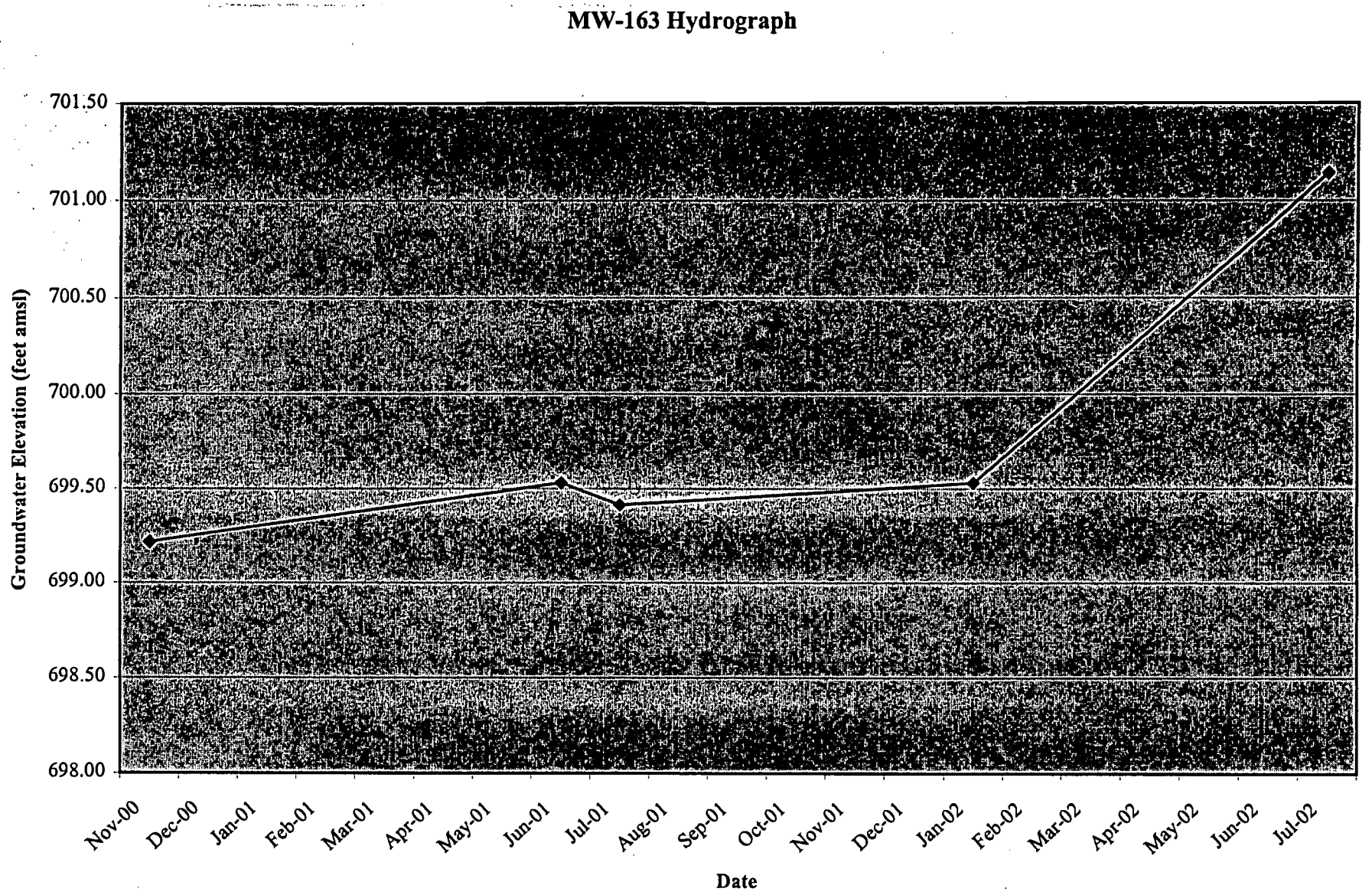
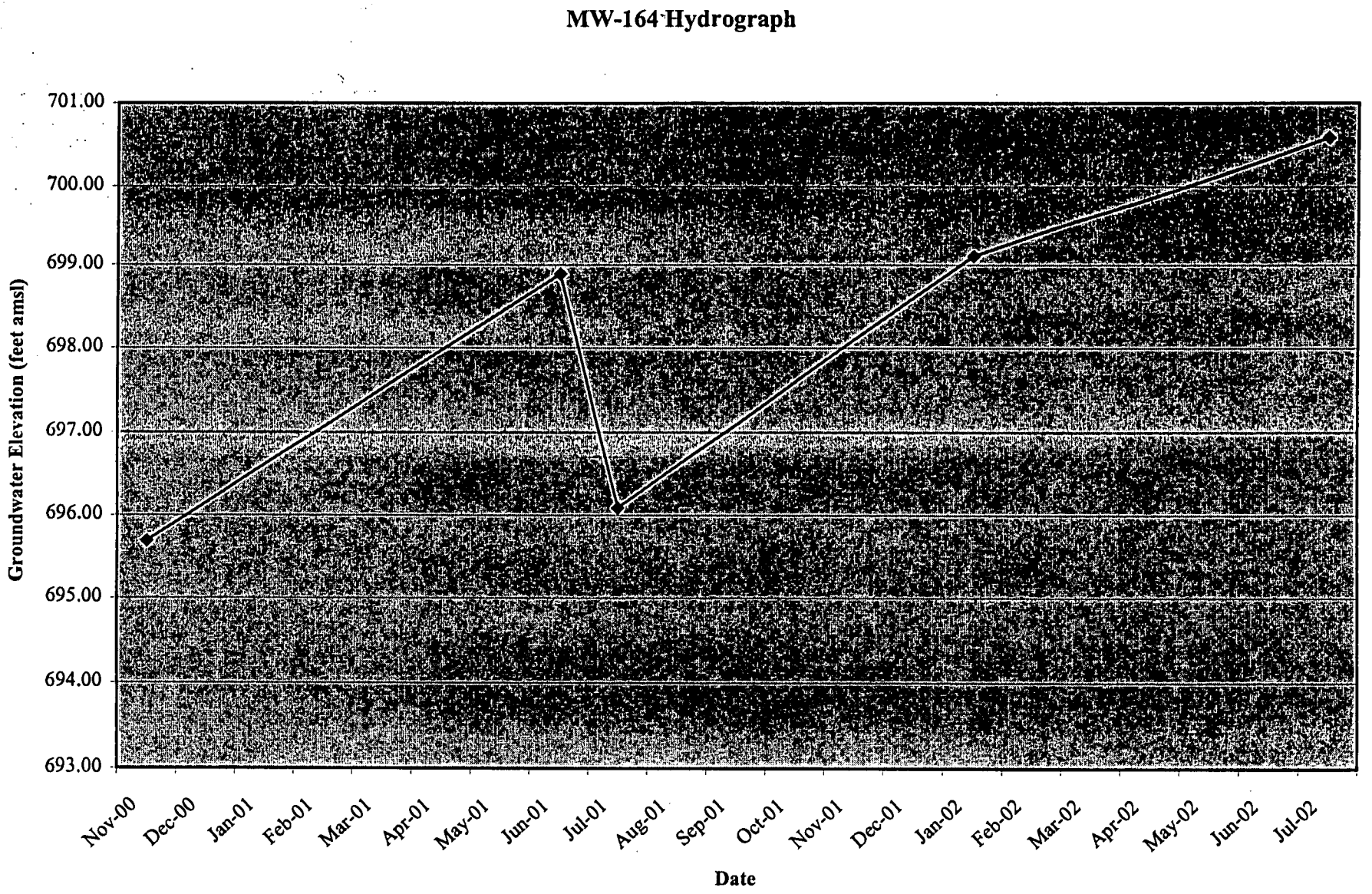
Nov-01
Feb-02
May-02
Date

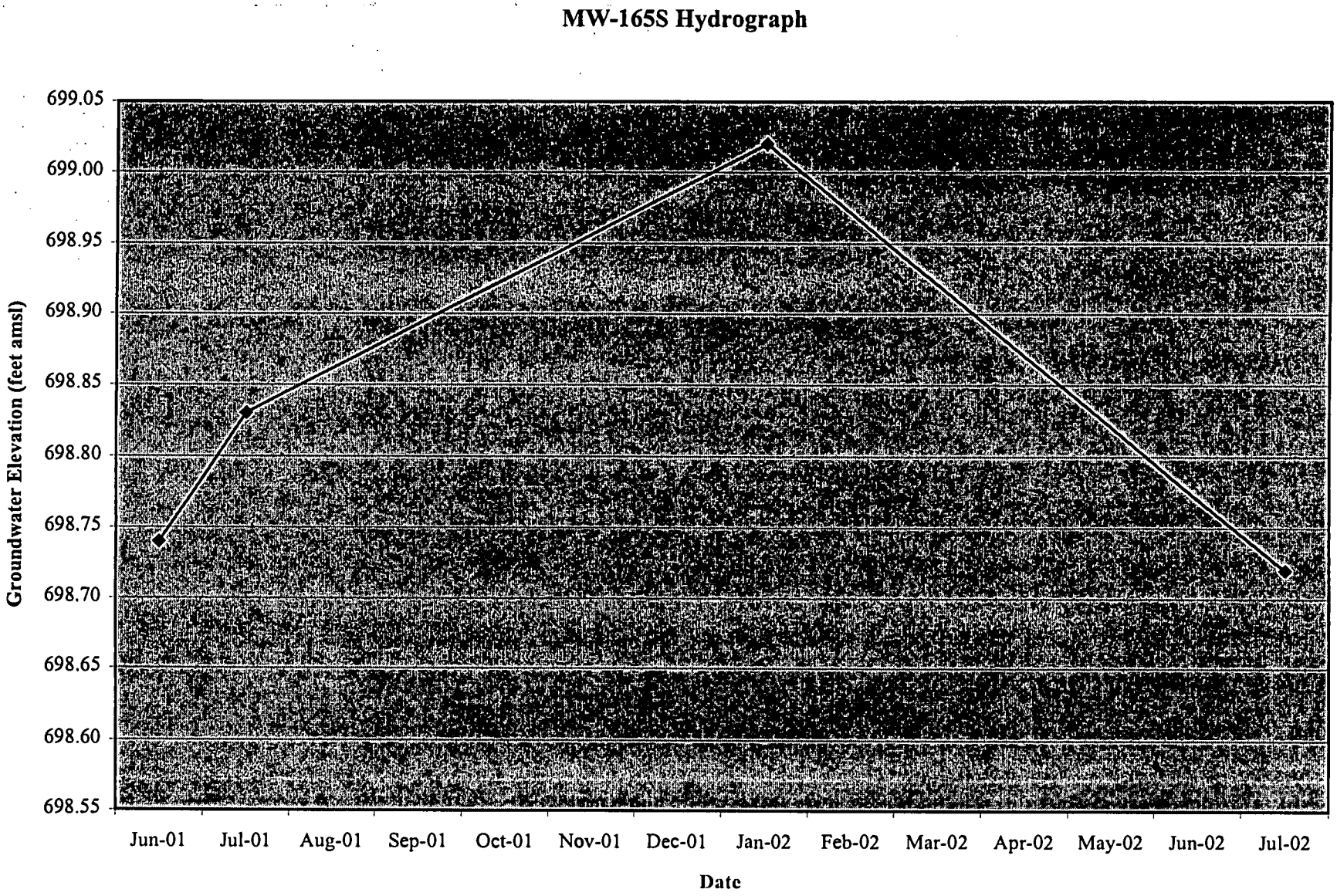

MW-159 Hydrograph
Groundwater Elevation (feet amsl)
699.00
698.80
698.60
698.40
698.20
698.00
697.80
697.60
697.40
Feb-00
Mar-00
Apr-00
May-00
Jun-00
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date


MW-160 Hydrograph
Groundwater Elevation (feet amsl)
699.40
699.30
699.20
699.10
699.00
698.90
698.80
698.70
698.60
698.50
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date

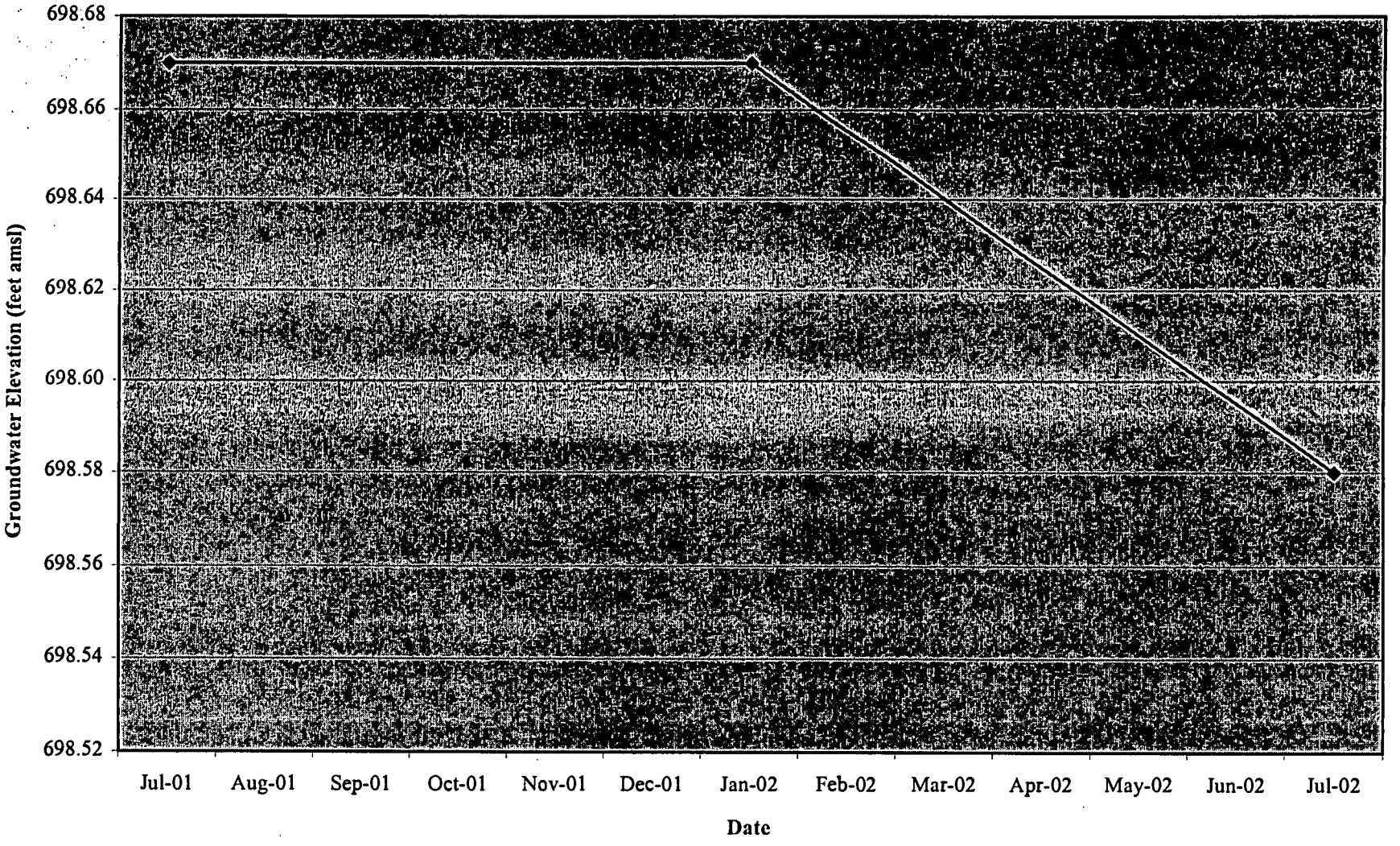

MW-162 Hydrograph
Groundwater Elevation (feet amsl)
701.50
701.00
700.50
700.00
699.50
699.00
698.50
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date


MW-163 Hydrograph
Groundwater Elevation (feet amsl)
701.50
701.00
700.50
700.00
699.50
699.00
698.50
698.00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date

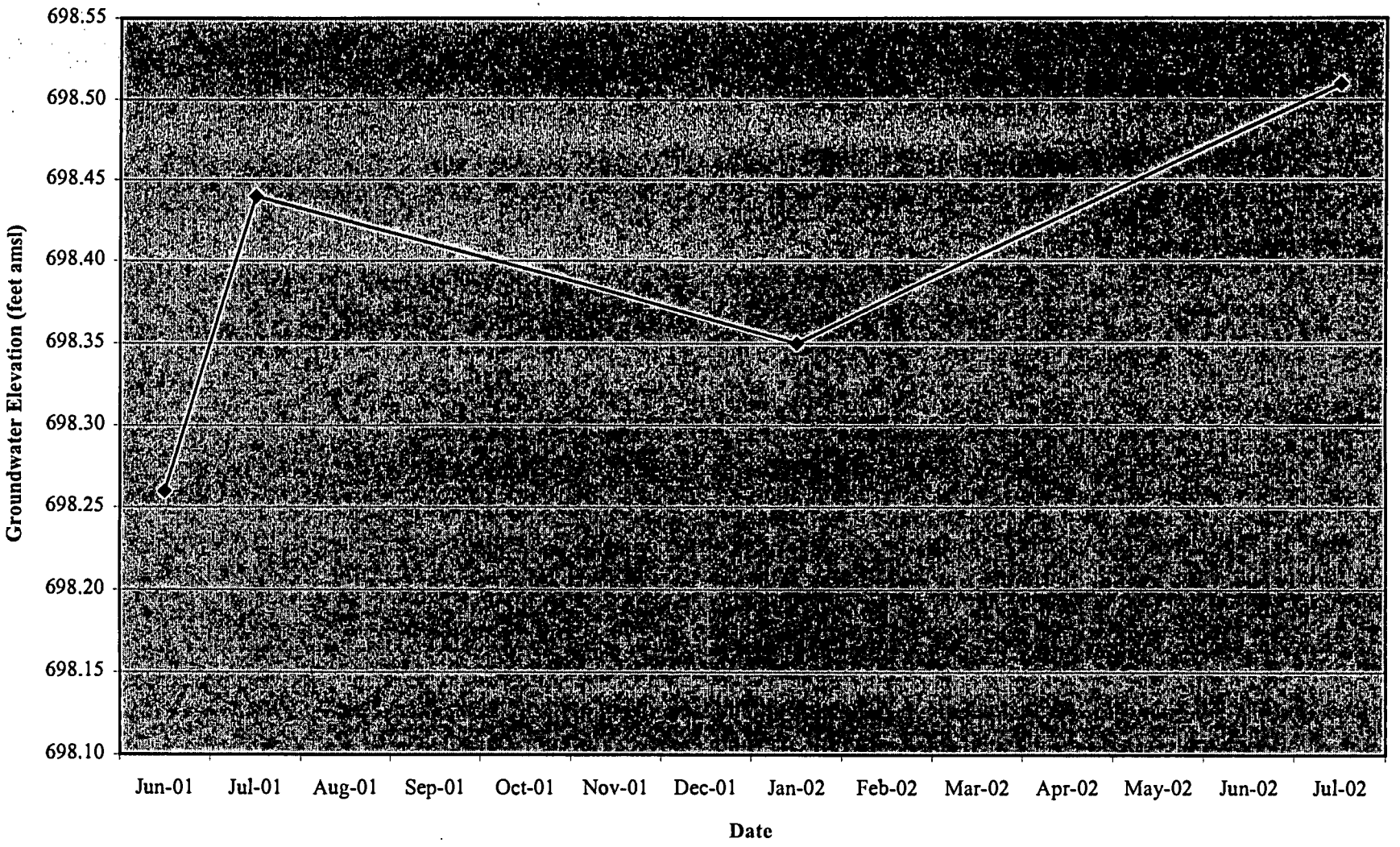

MW-164 Hydrograph
Groundwater Elevation (feet amsl)
701.00
700.00
699.00
698.00
697.00
696.00
695.00
694.00
693.00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date

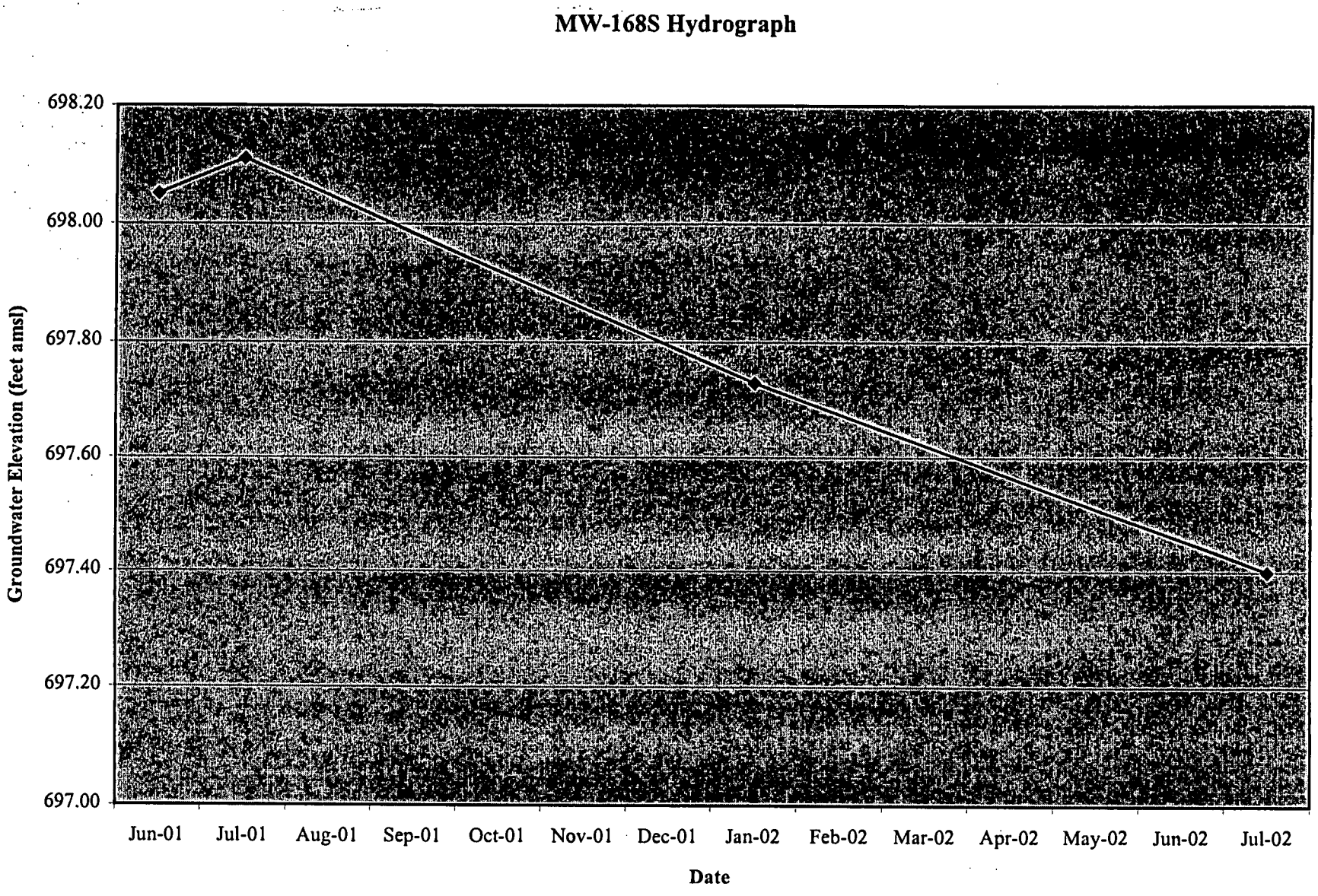

MW-165S Hydrograph
Groundwater Elevation (feet amsl)
699.05
699.00
698.95
698.90
698.85
698.80
698.75
698.70
698.65
698.60
698.55
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date

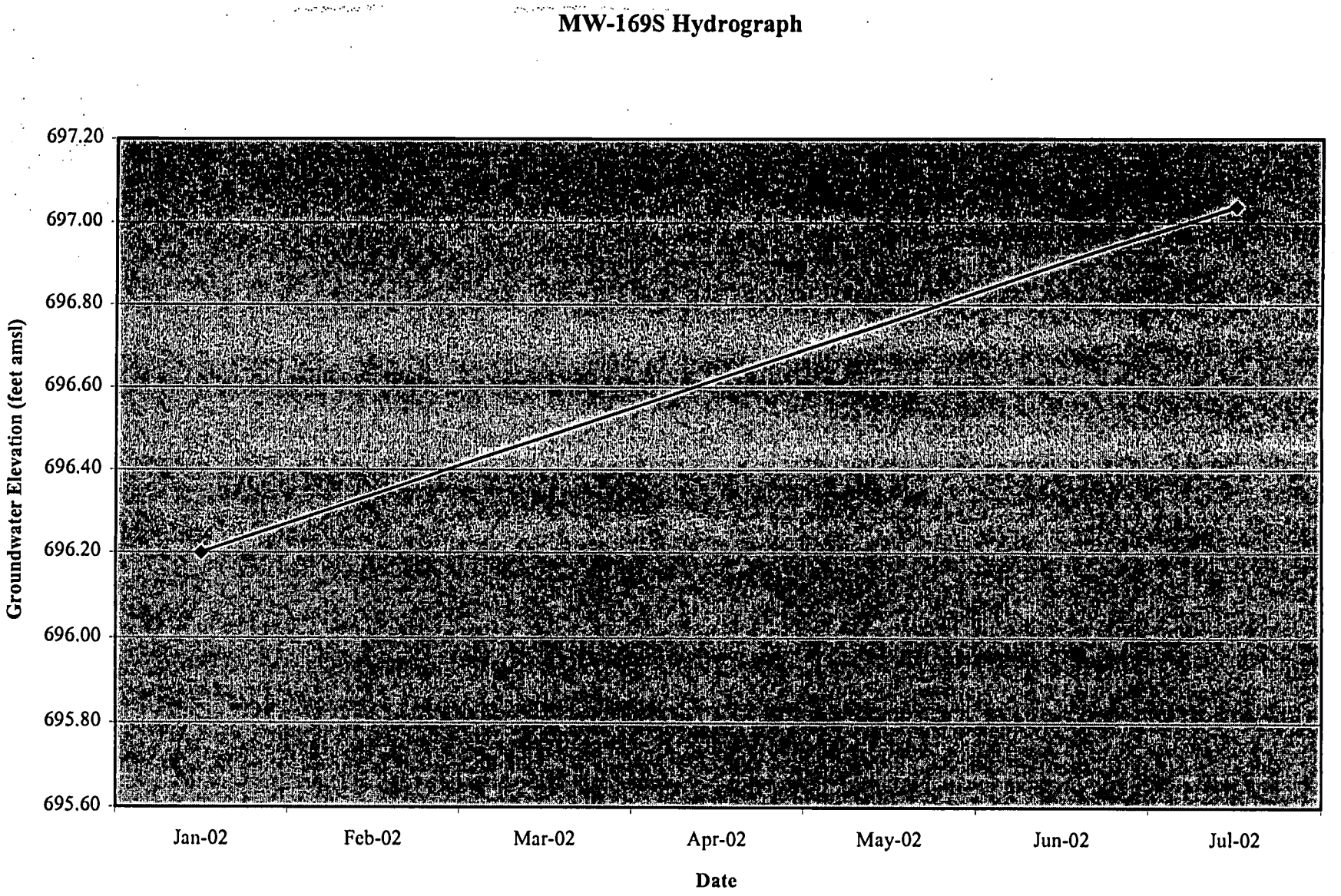
MW-166S Hydrograph

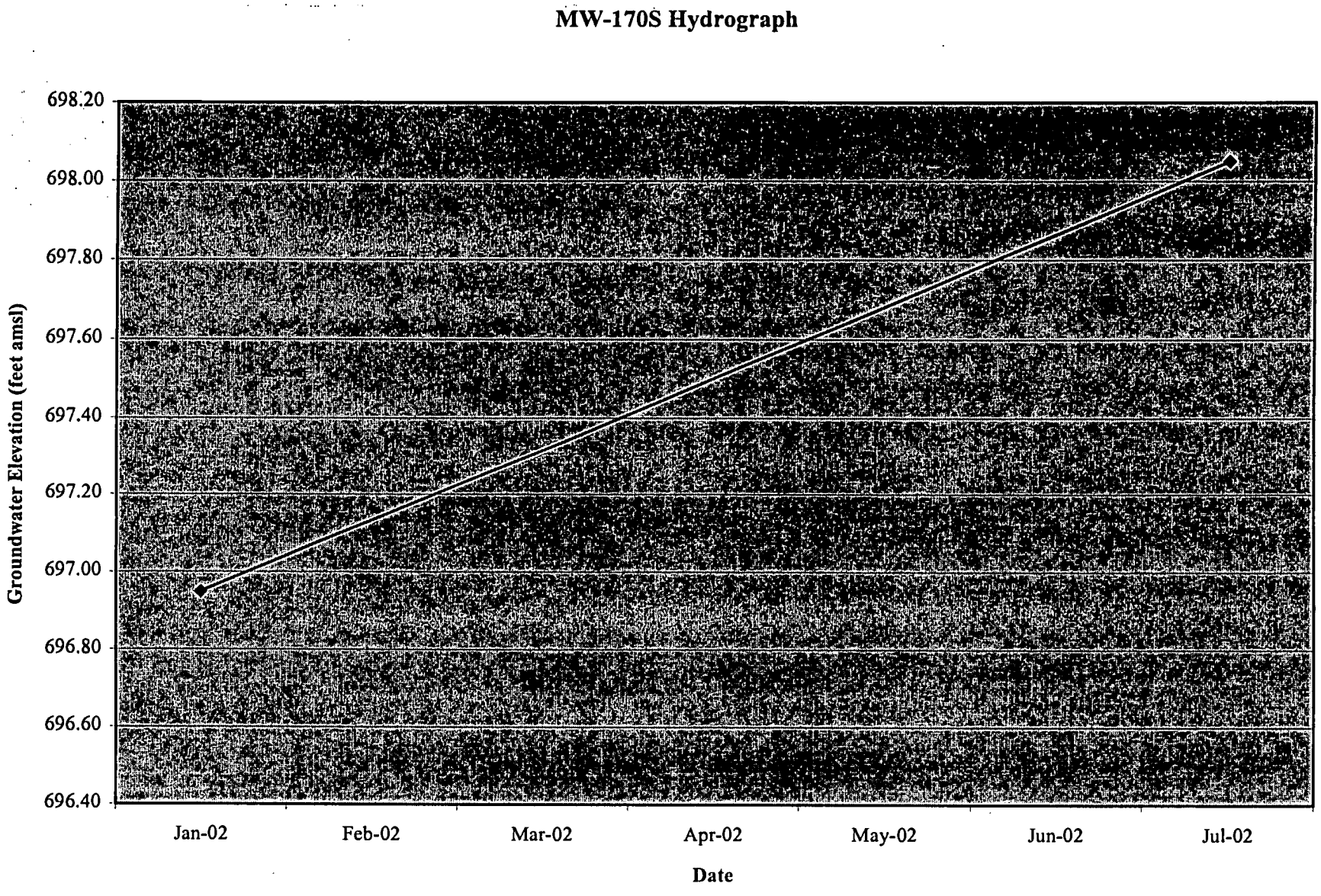


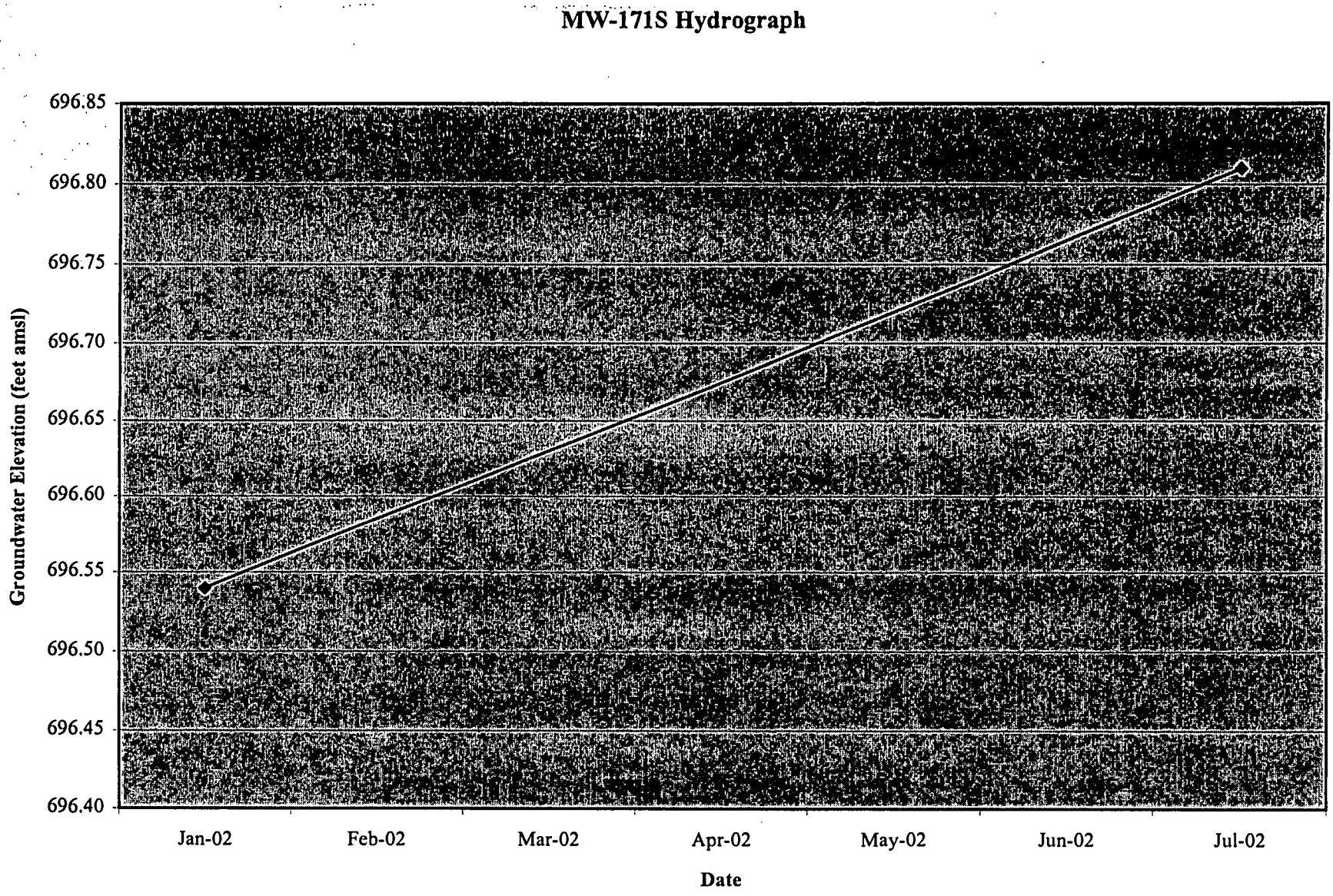
MW-167S Hydrograph

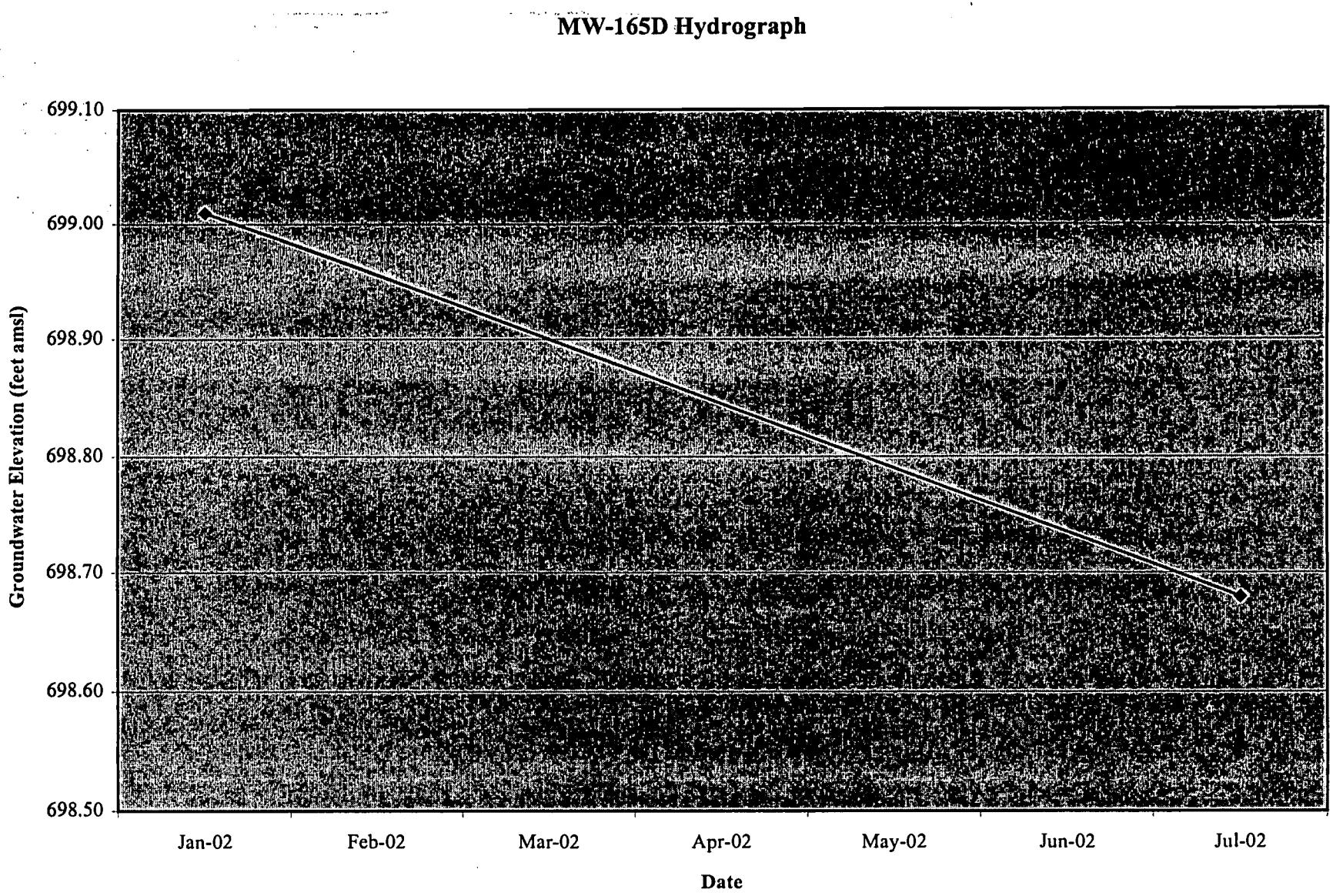


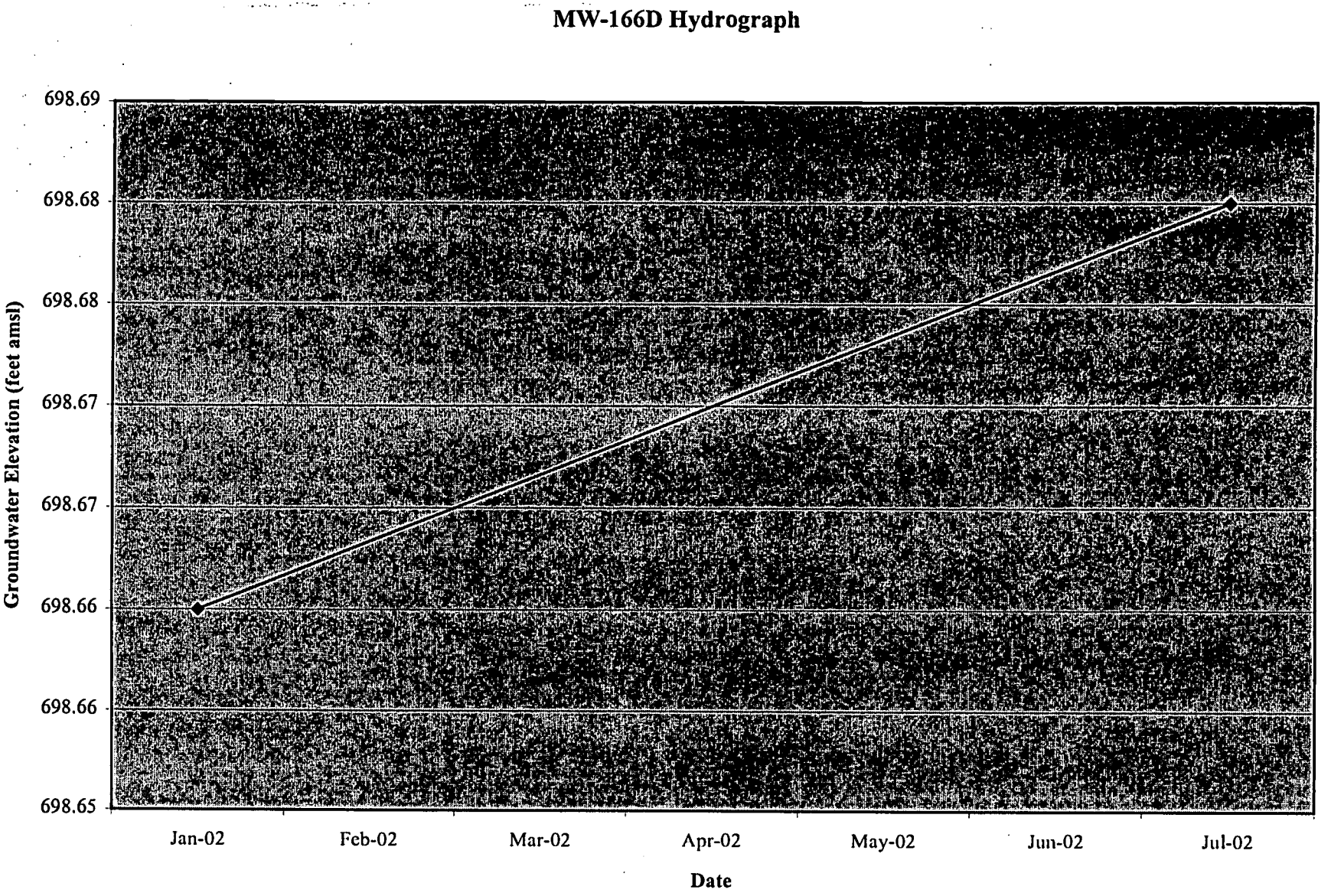

MW-168S Hydrograph
698.20
698.00
697.80
697.60
697.40
697.20
697.00
Groundwater Elevation (feet amsl)
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date

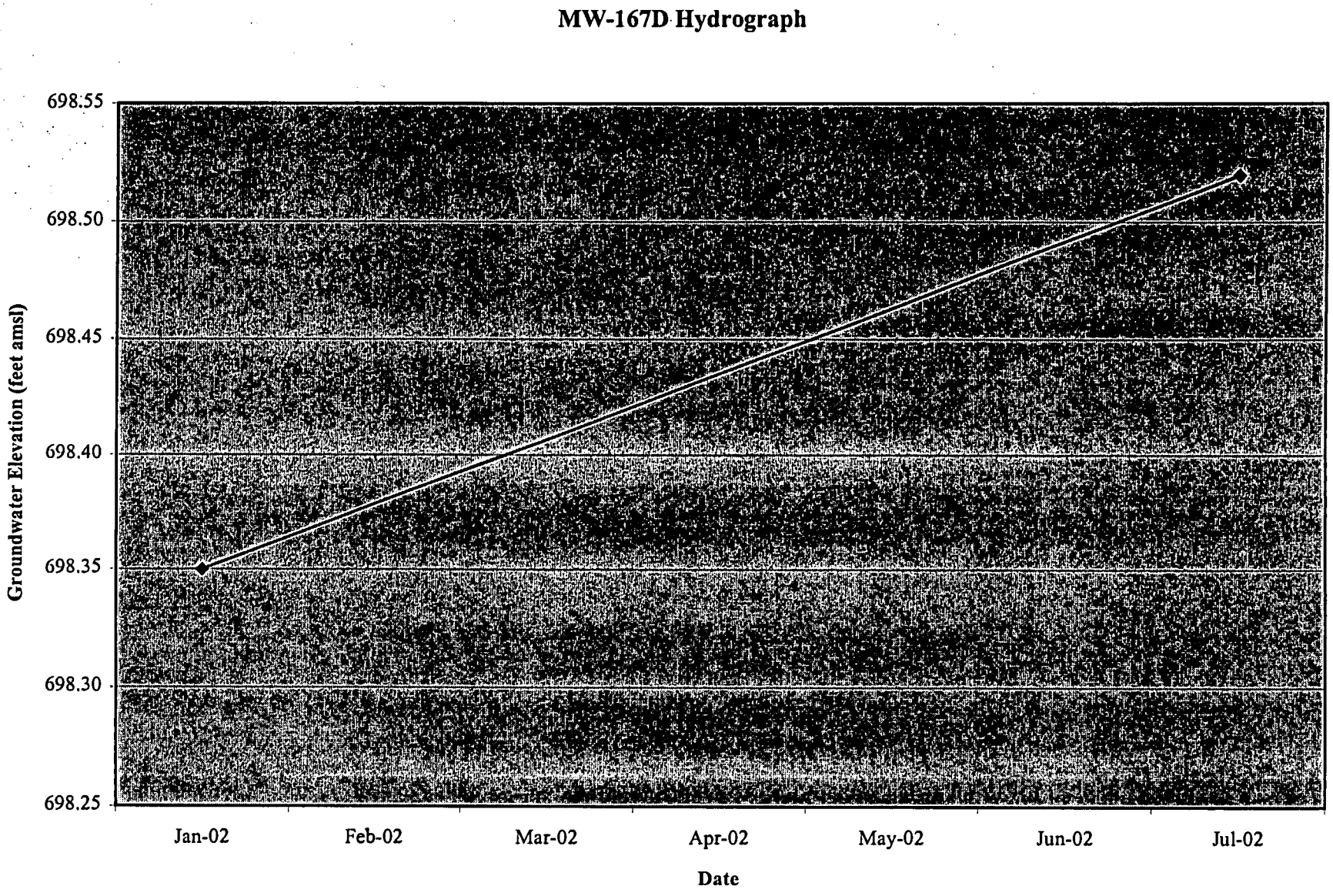

MW-169S Hydrograph
Groundwater Elevation (feet amsl)
697.20
697.00
696.80
696.60
696.40
696.20
696.00
695.80
695.60
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date


MW-170S Hydrograph
698.20
698.00
697.80
697.60
697.40
697.20
697.00
696.80
696.60
696.40
Groundwater Elevation (feet amsl)
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date

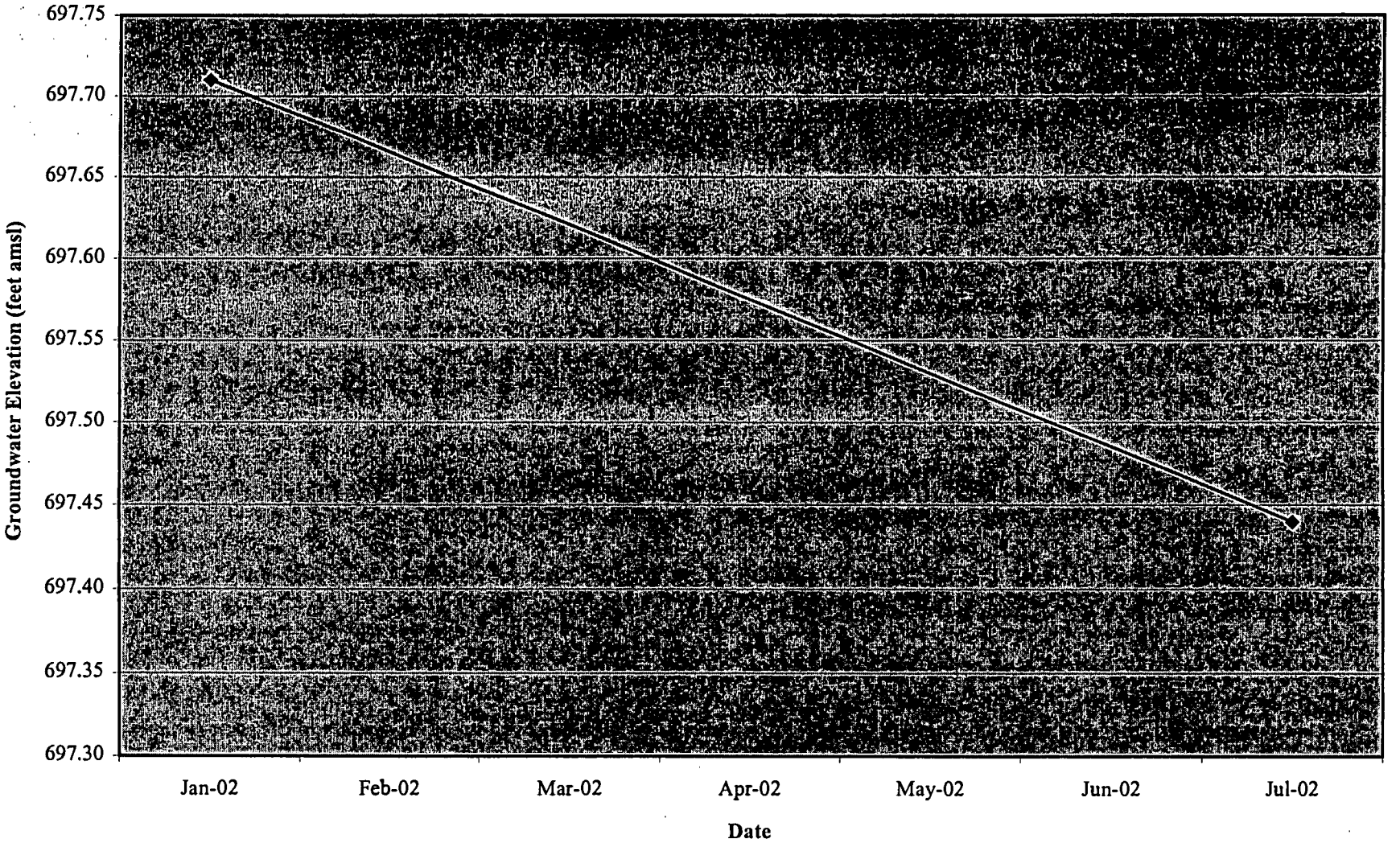

MW-171S Hydrograph
Groundwater Elevation (feet amsl)
696.85
696.80
696.75
696.70
696.65
696.60
696.55
696.50
696.45
696.40
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date


MW-165D Hydrograph
699.10
699.00
698.90
698.80
698.70
698.60
698.50
Groundwater Elevation (feet amsl)
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date

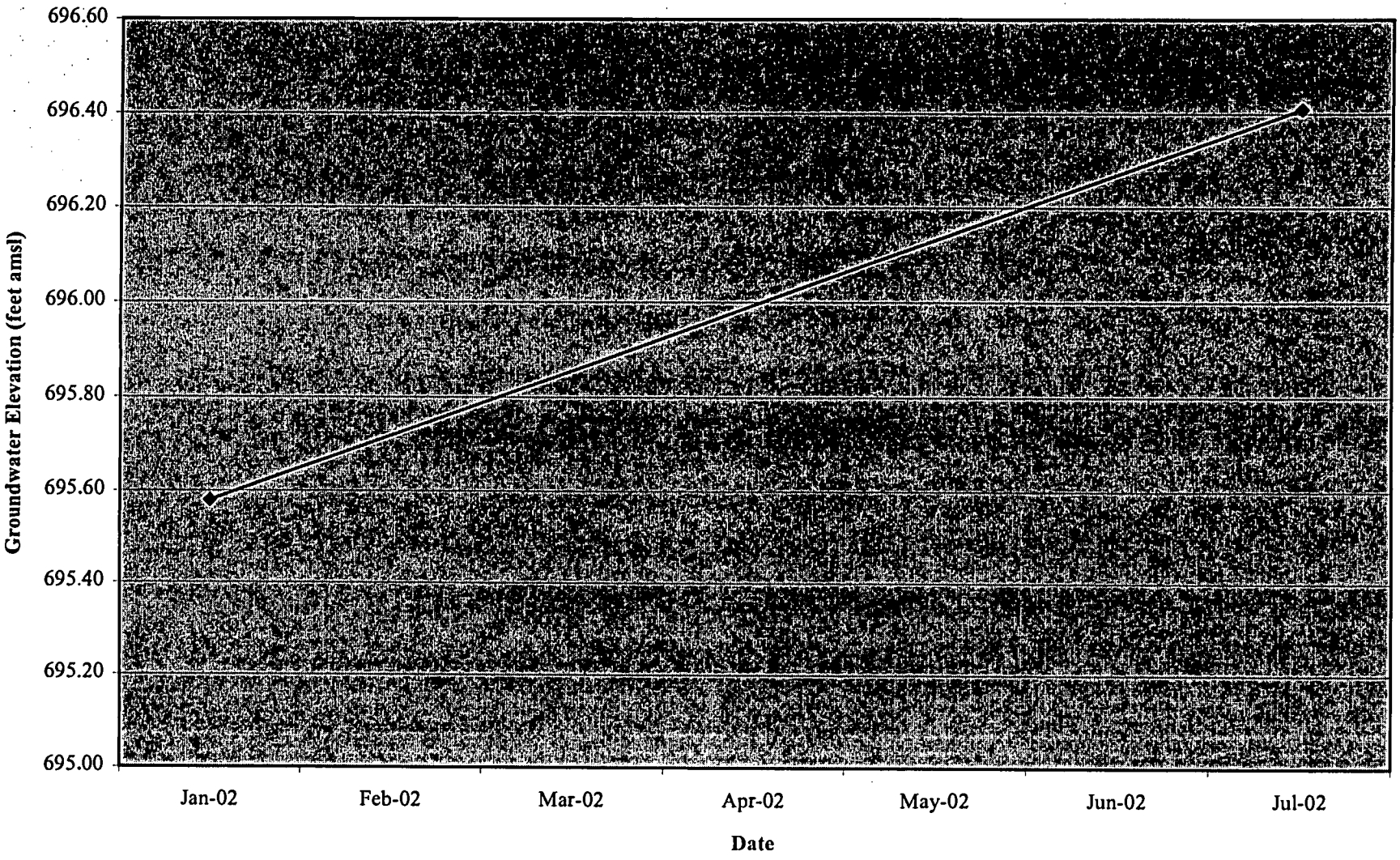

MW-166D Hydrograph
698.69
698.68
698.68
698.67
698.67
698.66
698.66
698.65
Groundwater Elevation (feet amsl)
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date


MW-167D Hydrograph
698.55
698.50
698.45
698.40
698.35
698.30
698.25
Groundwater Elevation (feet amsl)
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date

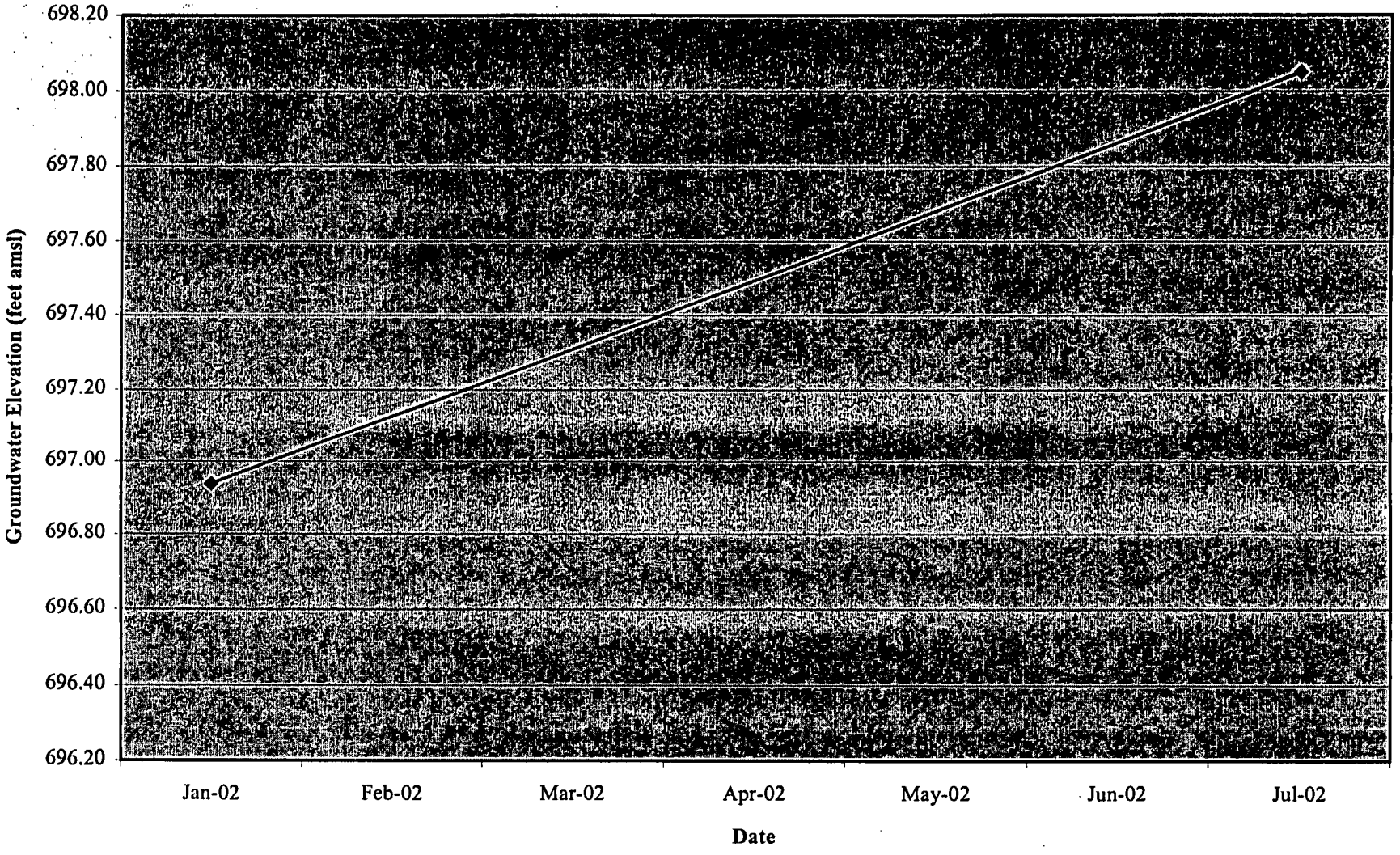
MW-168D Hydrograph

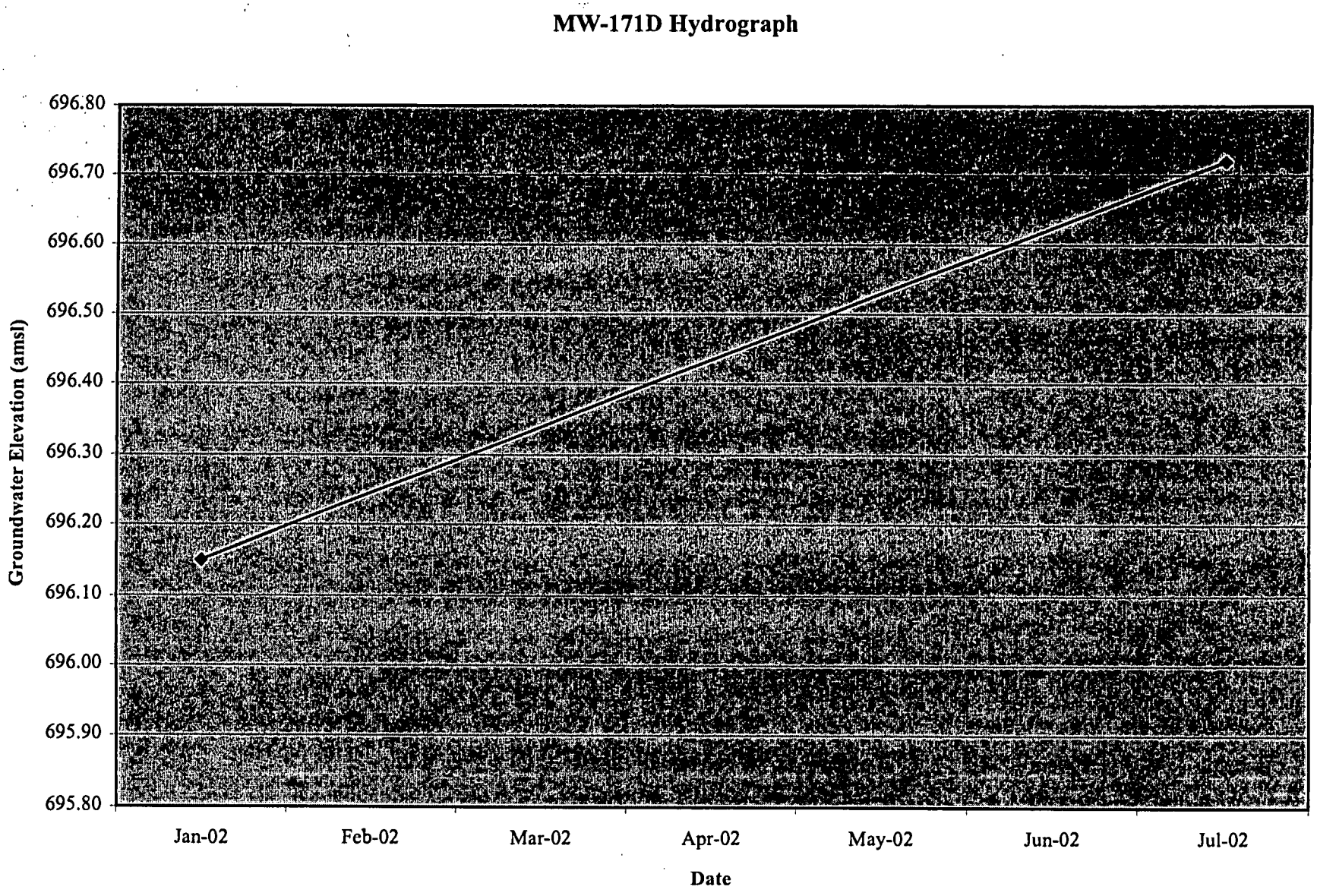


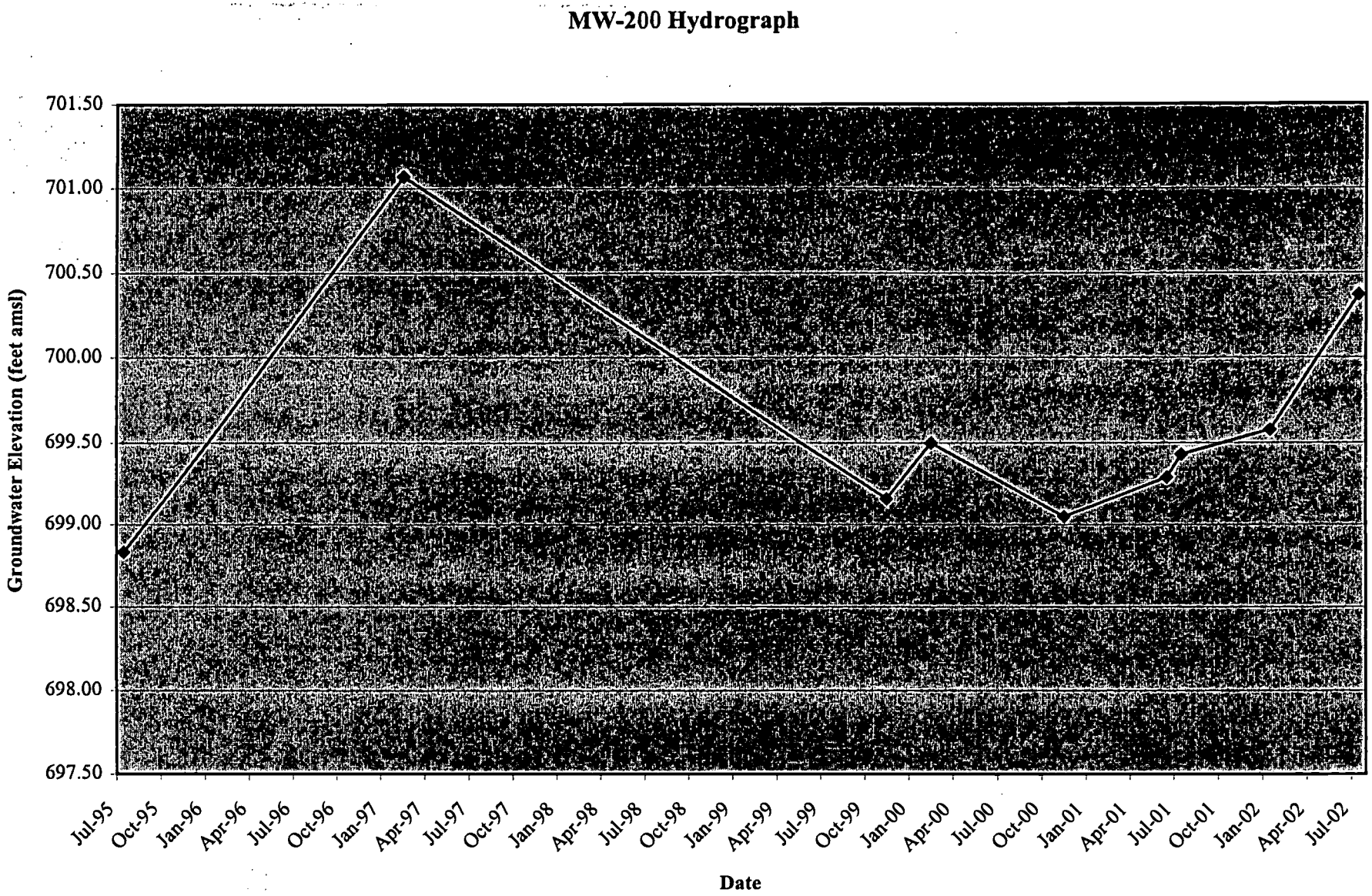
MW-169D Hydrograph

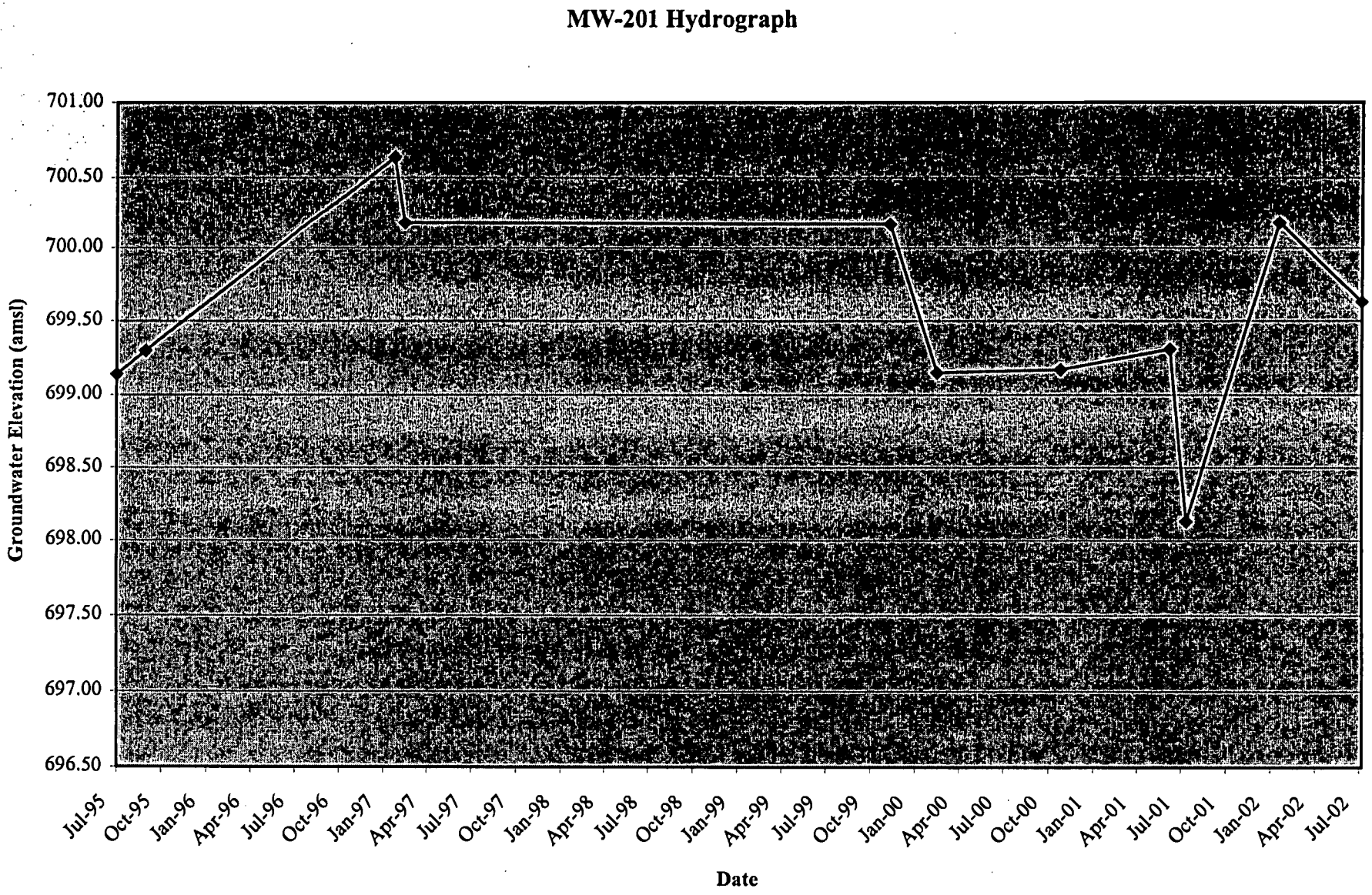


MW-170D Hydrograph

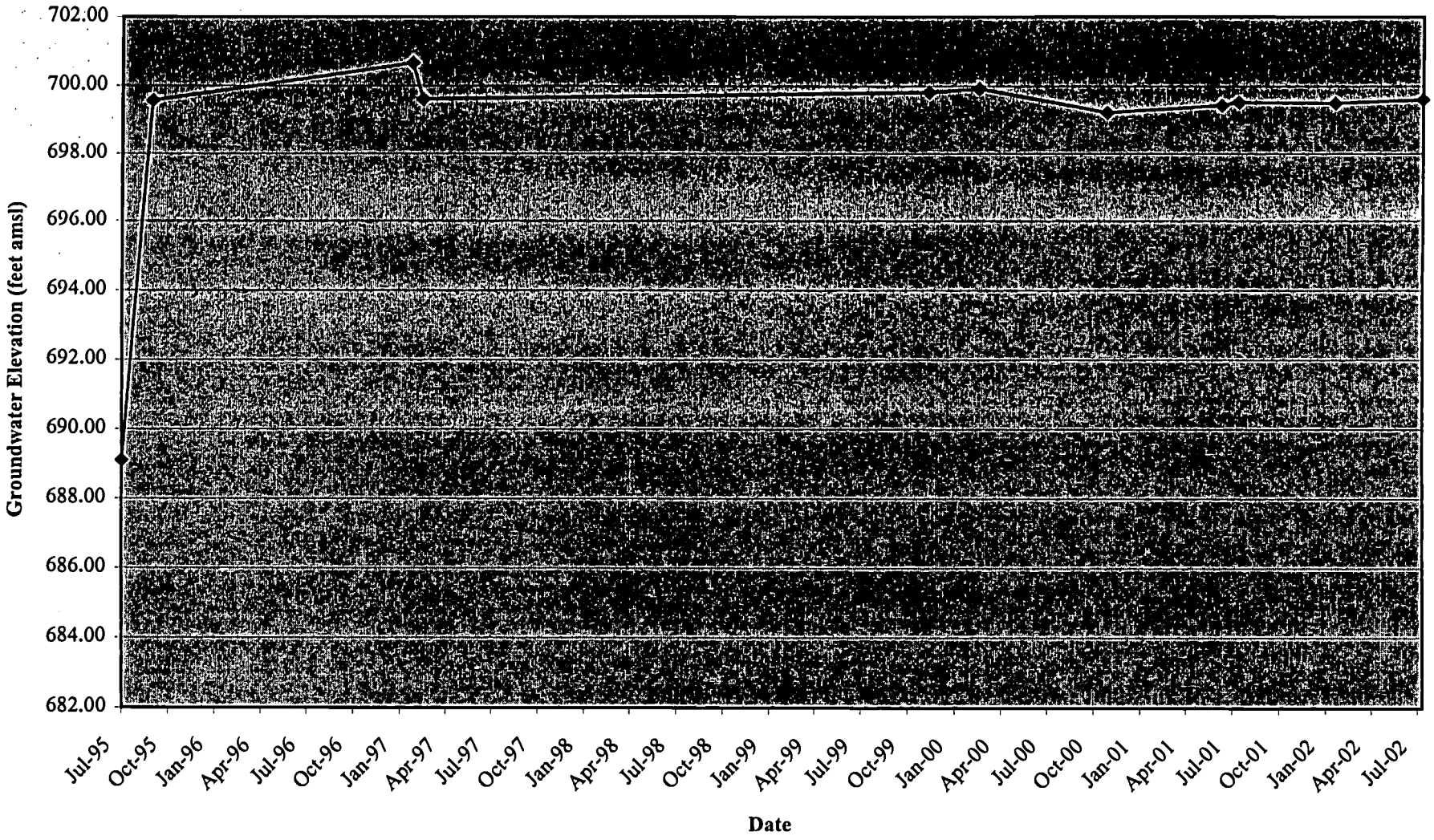



MW-171D Hydrograph
696.80
696.70
696.60
696.50
696.40
696.30
696.20
696.10
696.00
695.90
695.80
Groundwater Elevation (amsl)
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Date

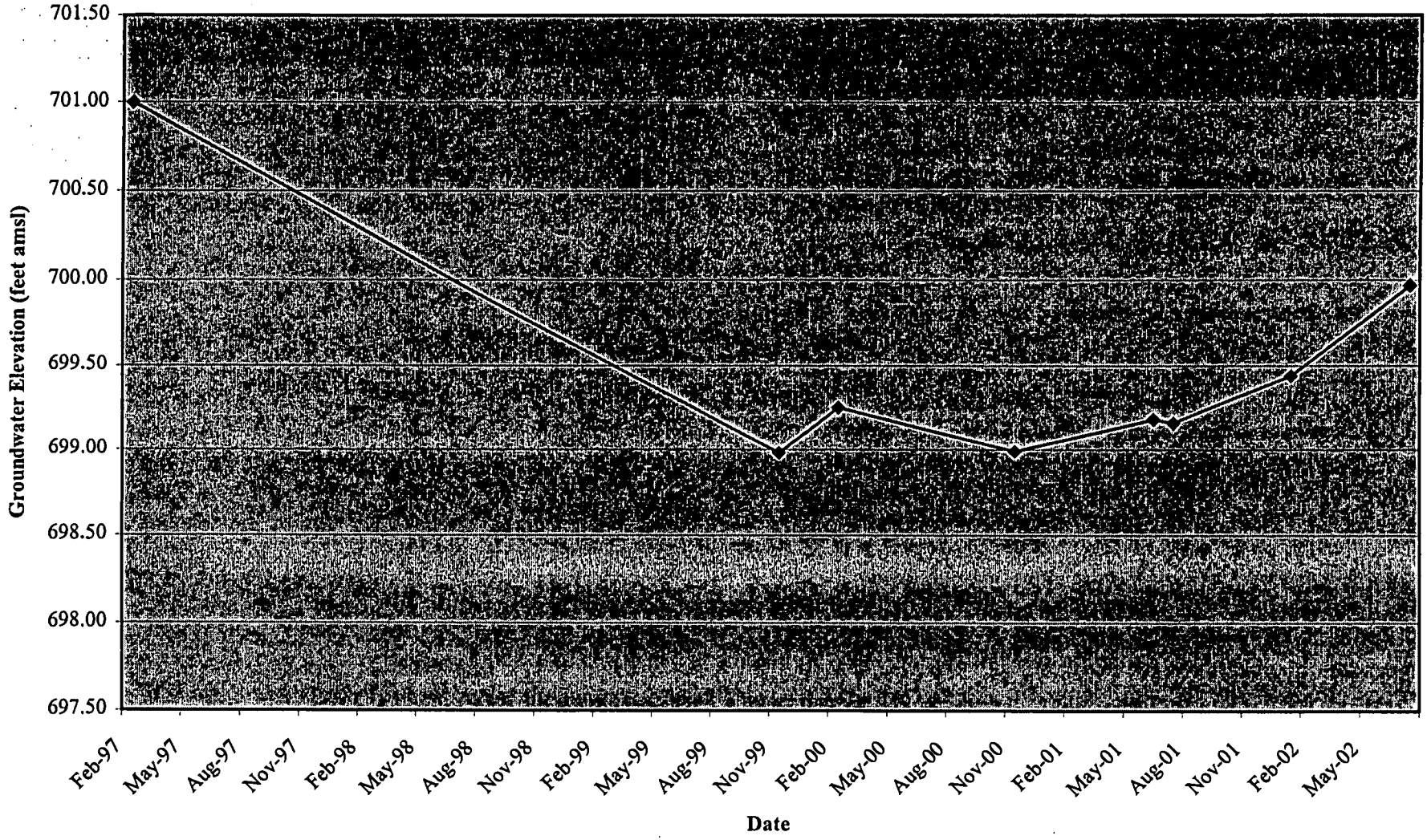

MW-200 Hydrograph
Groundwater Elevation (feet amsl)
701.50
701.00
700.50
700.00
699.50
699.00
698.50
698.00
697.50
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
Oct-98
Jan-99
Apr-99
Jul-99
Oct-99
Jan-00
Apr-00
Jul-00
Oct-00
Jan-01
Apr-01
Jul-01
Oct-01
Jan-02
Apr-02
Jul-02
Date

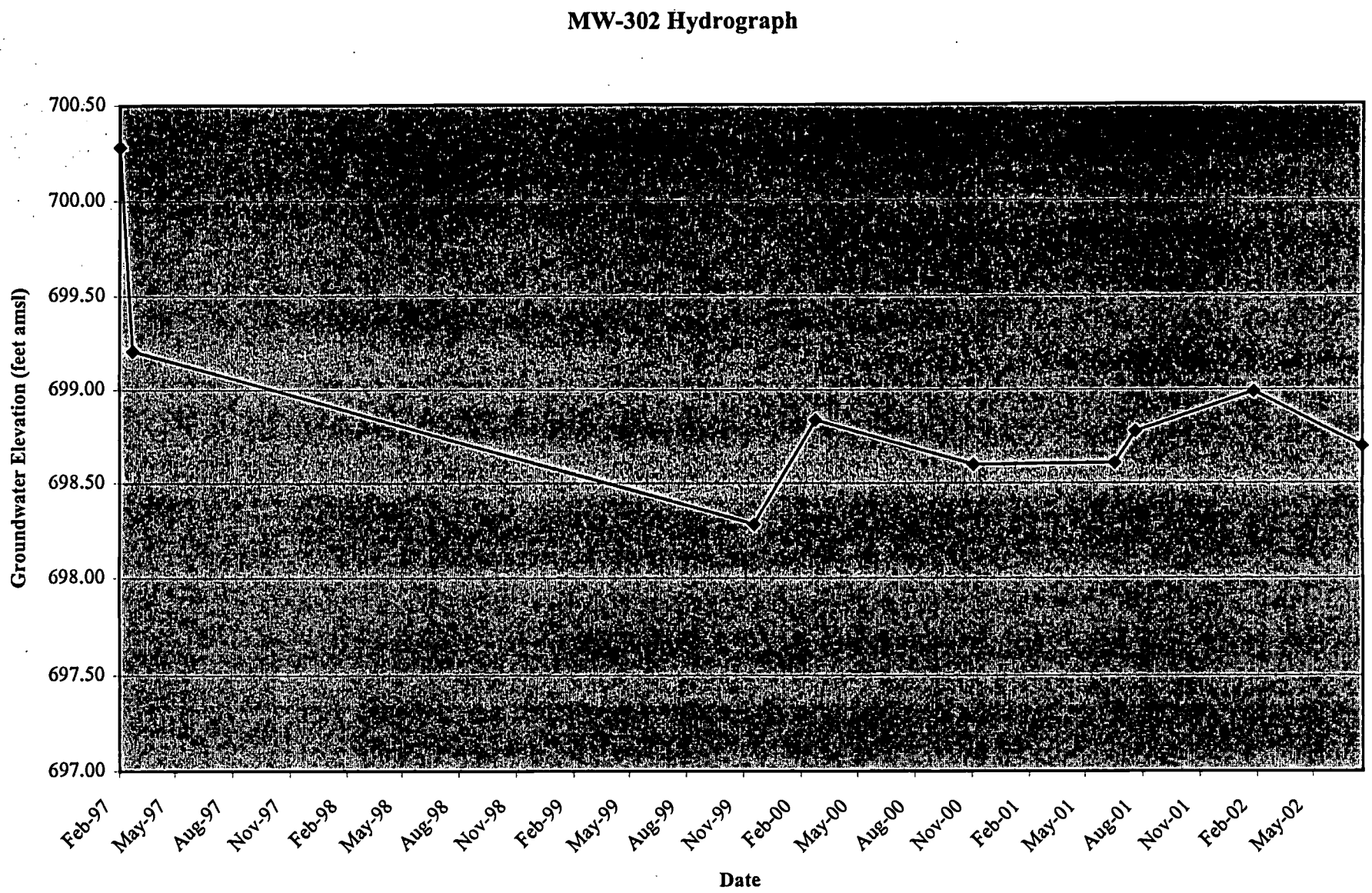

MW-201 Hydrograph
Groundwater Elevation (amsl)
701.00
700.50
700.00
699.50
699.00
698.50
698.00
697.50
697.00
696.50
Jul-95
Oct-95
Jan-96
Apr-96
Jul-96
Oct-96
Jan-97
Apr-97
Jul-97
Oct-97
Jan-98
Apr-98
Jul-98
Oct-98
Jan-99
Apr-99
Jul-99
Oct-99
Jan-00
Apr-00
Jul-00
Oct-00
Jan-01
Apr-01
Jul-01
Oct-01
Jan-02
Apr-02
Jul-02
Date

MW-202 Hydrograph



MW-301 Hydrograph




MW-302 Hydrograph
Groundwater Elevation (feet amsl)
700.50
700.00
699.50
699.00
698.50
698.00
697.50
697.00
Feb-97
May-97
Aug-97
Nov-97
Feb-98
May-98
Aug-98
Nov-98
Feb-99
May-99
Aug-99
Nov-99
Feb-00
May-00
Aug-00
Nov-00
Feb-01
May-01
Aug-01
Nov-01
Feb-02
May-02
Date