PHONE CONVERSATION [redacted]

DATE 3-21-84 TDD # R5 8303-01A IL 0189

TIME 10:45 AM

SITE US Army St Louis Area Support Center - Granite City, IL

CONTACT Mike Broten PHONE (217) 333 - 6800

Hydrology Ast.

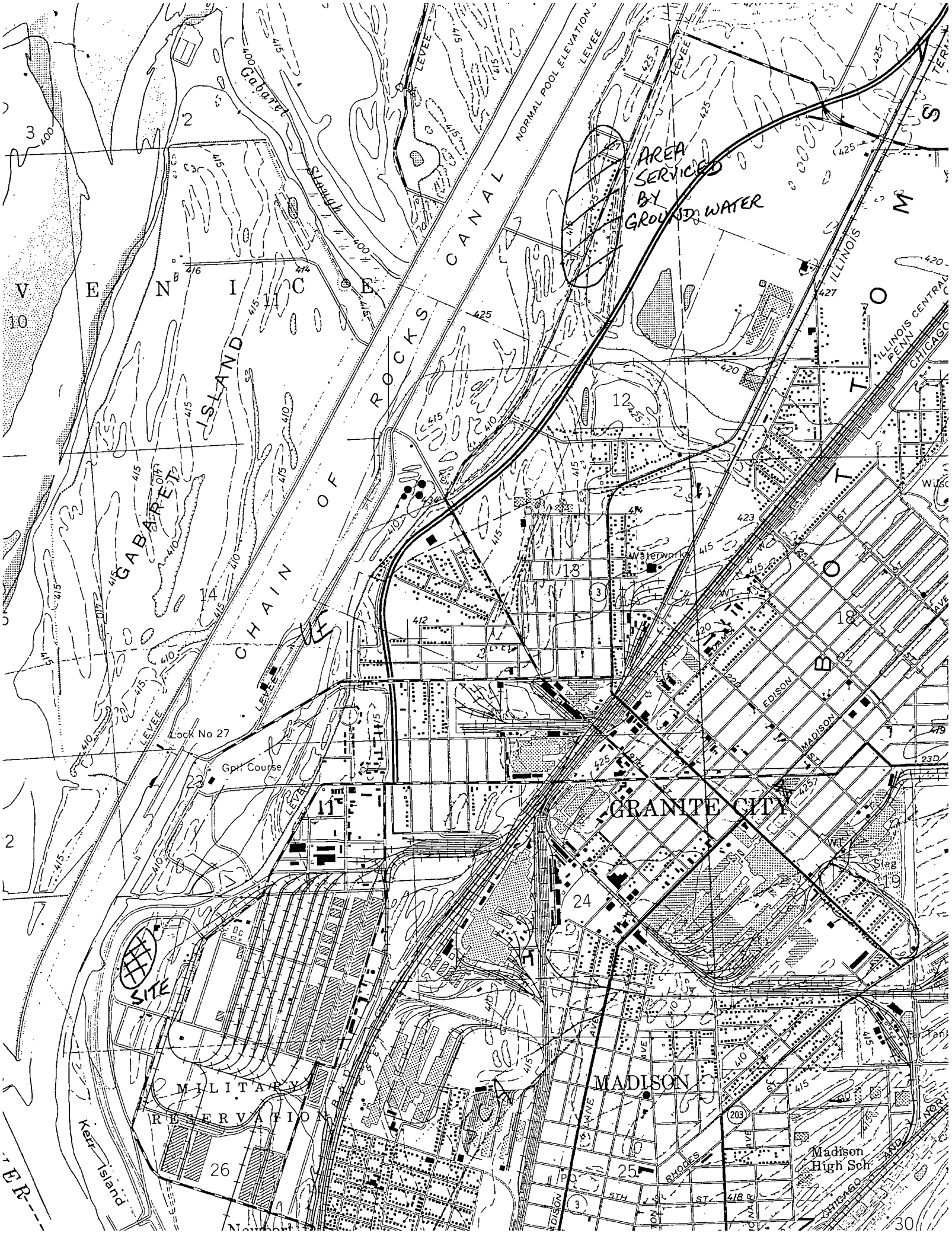
IL State Water Survey

US EPA RECORDS CENTER REGION 5
952927
578113

SUBJECT I spoke with Mike regarding ground water use in the vicinity of the above referenced site. I gave him the necessary information (Sec, Township, Range) so he could conduct a well log search of the area. He called back later in the day with the following information. The surficial aquifer is primarily used for industrial purposes although its use has steadily declined over the last 10-15 years. The Army installation, Granite City, and other surrounding communities receive their drinking water from the Mississippi River via the Illinois American Water Supply (IL WS) of Granite City which has intakes on the river. However, there is a residential area located north of Granite City and NE of the site that is serviced by individual domestic wells finished in sand and gravel deposits above bedrock. According to Mike's review of available well logs there are additional scattered domestic wells w/in 3 miles of the site similarily drawing from sand and gravel units

Michael A. Gifford

Date


AREA SERVICED BY GROUND WATER
NORMAL POOL ELEVATION
LEVEE
CANAL
CHAIN OF ROCKS
GABARET ISLAND
Gabaret Slough
VENICE
Lock No 27
Golf Course
Waterworks
GRANITE CITY
EDISON
MADISON
ILLINOIS CENTRAL PENN
CHICAGO
SITE
MILITARY RESERVATION
Kerr Island
MADISON
Madison High Sch
RHODES
5TH ST
203
3

Sample collected near the end of a 4 hour production test

Ap SO4 N03 F

City 1 Mile North of Granite City County Madison

Section 12 Twp. No. 3 N. Range 10 W

Location (in feet from section corner) East of Rock Road and West of West of East Side Levee & Sanitary District levee, Approx. 1600 ft. West and 2300 ft N. of S.E. Corner of Section 12, T.3 N., R.10 W.

Owner U.S. Coast Guard Radio Station. Authority

Contractor Layne-Western Co. Address 225 Grand Ave. Kirkwood, Mo.

Date drilled March 1, 1961 Elev. above sea level top of well 423 MSL (from Topog map)

Depth 65 ft. Bottom of screen set at 65 ft below ground surface.

Log
0 to 20 ft. Brown Clay.
20 to 27 ft. Blue Clay.
27 to 34 ft. Sand & Brown clay.
34 to 57 ft. Very fine sand.
57 to 74 ft. Meduim gray sand.

Were drill cuttings saved No. Where filed

Size hole 16-inch Gravel-packed with M erramec gravel. If reduced, where and how much None.

Casing record 10 ft of 6-inch shutter-type No.6 screen. 54' 4" of 6-inch casing which extends 16-inches above ground surface.

Distance to water when not pumping 29.5 ft Distance to water is 36.3 ft

feet after pumping at 60 G. P. M. for 2 hours. hours.

Reference point for above measurements Top of casing which is 16-inches above ground surface.

Type of pump Johnson Turbine Distance to cylinder Bottom of pump set at 59 ft below ground surface.

Length of cylinder Length of suction pipe below cylinder

Temporary equipment installed to make the production test.

Length stroke Speed 1760 RPM.

Hours used per day Type of power Gasoline engine

Rating of motor Rating of pump in G. P. M.

Can following be measured: (1) Static water level Yes

(2) Pumping level Yes (3) Discharge Yes, with orifice tube.

(4) Influence on other wells No other wells near.

Temperature of water 57 F. Was water sample collected Yes

Date March 2, 1961 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 154295

Please send copy of analysis to Layne-Western Co. 225 Grand Avenue Kirkwood Missouri Recorder

Date

2807-22617 12

E.G. Jones

(10 P 21 (2))

Well No. 1

City: Granite City County: Madison

Section: 7 Twp. No.: 3N Range: 9W

Location (in feet from section corner): 1100' E & 1500' N of SW Cor.

Owner: Royal Crown Cola Authority:

Contractor: Layne Western Address: Kirkwood, Mo.

Date drilled: May 1967 Elev. above sea level top of well: ± 420

Depth: 100'

Log: 0-15 Brown Clay, 15-55 Fine Brown Sand, 55-70 Fine Gray Sand & clay layers, 70-80 Clean Med. Sand, 80-109 Coarse Sand, gravel & boulders

Were drill cuttings saved: Where filed:

Size hole: 18" If reduced, where and how much:

Casing record: +1 to 85 8" 15' of #5 slot Stainless Steel Screen

Distance to water when not pumping: 23.28 Distance to water is: 32.26

feet after pumping at: 317 G. P. M. for: 3 hours.

Reference point for above measurements: Top of casing

Type of pump: Test Distance to cylinder:

Length of cylinder: Length of suction pipe below cylinder:

Length stroke: Speed:

Hours used per day: Type of power:

Rating of motor: Rating of pump in G. P. M.:

Can following be measured: (1) Static water level: yes

(2) Pumping level: yes (3) Discharge: yes

(4) Influence on other wells: ?

Temperature of water: 58°F Was water sample collected: yes

Date: 5/19/67 Effect of water on meters, hot water coils, etc.:

Date of Analysis: Analysis No.: 171544

Send Copies To: (over) Recorder: George E. Retz Jr.

2807-19399 : 12 Date: 5/19/67

White Copy — Ill. Dept. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTIONS TO DRILLER

FILL OUT ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ____. Finished in Drift ____. In Rock ____.
   Tubular ____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	22
Cuttings	22	50
Gravel	50	60

2. Distance to Nearest:
   Building 60 Ft. Seepage Tile Field —
   Cess Pool — Sewer (non Cast iron) —
   Privy — Sewer (Cast iron) ✓
   Septic Tank — Barnyard —
   Leaching Pit — Manure Pile —
3. Well furnishes water for human consumption? Yes ✓ No ____
4. Date well completed 4-6-76
5. Permanent Pump Installed? Yes ✓ Date 5-3-76 No ____
   Manufacturer Jacuzzi Type Deep Location ____
   Capacity ____ gpm. Depth of Setting 42' Ft.
6. Well Top Sealed? Yes ✓ No ____ Type Matthews
7. Pitless Adapter Installed? Yes ✓ No ____
   Manufacturer Matthews Model Number M Sub 3
   How attached to casing? Bolted
8. Well Disinfected? Yes ✓ No ____
9. Pump and Equipment Disinfected? Yes ✓ No ____
10. Pressure Tank Size 120 gal. Type ____
    Location Building
11. Water Sample Submitted? Yes ____ No ✓
REMARKS:

IDPH 4.065
1/74 — KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Apex Oil Co. Inc. Well No. ____
    Address 111 S. Meramec St. Louis, Mo.
    Driller H. Charles Rudley License No. 102-50
11. Permit No. 45258 Date 3-11-76
12. Water from Sand + gravel (Formation) 13. County Madison
    at depth 40 to 60 ft.
    Sec. 6 Sa
    Twp. 3N
    Rge. 9W
    Elev. ____
14. Screen: Diam. 8 in.
    Length: 8 ft. Slot ____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
8	Steel	0	52

SHOW LOCATION IN SECTION PLAT
512'N S75'
SE/c SW

16. Size Hole below casing: 6 in.
17. Static level 10 ft. below casing top which is 1 ft. above ground level. Pumping level ____ ft. when pumping at 100 gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sandy Clay	40	40
Sand + Gravel	20	60

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert W. Miller DATE 4-14-76

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	67
Gravel	67	75

2. Distance to Nearest:
   Building 20 Ft. Seepage Tile Field –
   Cess Pool – Sewer (non Cast iron) –
   Privy – Sewer (Cast iron) –
   Septic Tank 100 Barnyard –
   Leaching Pit – Manure Pile –
3. Well furnishes water for human consumption? Yes____No____
4. Date well completed 3-30-77
5. Permanent Pump Installed? Yes ✓ Date 4-6-77 No____
   Manufacturer Jacuzzi Type Subm Location Well
   Capacity 15 gpm. Depth of Setting 60 Ft.
6. Well Top Sealed? Yes ✓ No____ Type____
7. Pitless Adapter Installed? Yes ✓ No____
   Manufacturer Mathews Model Number Mark 3
   How attached to casing? Bolted
8. Well Disinfected? Yes ✓ No____
9. Pump and Equipment Disinfected? Yes ✓ No____
10. Pressure Tank Size 220 gal. Type Captive Air
    Location Basement
11. Water Sample Submitted? Yes____ No ✓
REMARKS:

10. Property owner [redacted] Well No.____
    Address [redacted]
    Driller St. Charles Drilling Co. License No. 0702-50
11. Permit No. 57978 Date 3-21-77
12. Water from Sand & Gravel Formation 13. County Madison
    at depth____ to____ft.
    Sec. 1 160
    Twp. 3N
    Rge. 10W
    Elev.____
14. Screen: Diam. 6 5/8 in.
    Length: 8 ft. Slot____

SHOW LOCATION IN SECTION PLAT
275'S, 237'W - NE/c
NW NE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8"	Steel	0	67

16. Size Hole below casing: 6 in.
17. Static level 20 ft. below casing top which is / ft. above ground level. Pumping level____ft. when pumping at 50 gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand & Gravel	75	75

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C. P. Chitwood DATE 5-23-77

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

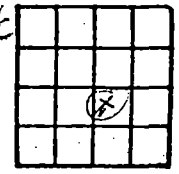
1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____ In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	75
Gravel	75	83

2. Distance to Nearest:
   Building____Ft. Seepage Tile Field 128' & gravel
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 120' Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes____No____
4. Date well completed 4-1-77
5. Permanent Pump Installed? Yes____Date____No ✓
   Manufacturer____Type____Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes____No____Type____
7. Pitless Adapter Installed? Yes____No____
   Manufacturer____Model Number____
   How attached to casing?____
8. Well Disinfected? Yes ✓ No____
9. Pump and Equipment Disinfected? Yes____No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____No ✓

REMARKS:

10. Property owner [redacted]
    Address [redacted]
    Driller St. Charles Drilling Co. License No. 902-50
11. Permit No. 57979 Date 3-21-77
12. Water from Gravel (Formation) 13. County Madison
    at depth 70 to 83 ft. Sec. 12 NW
    14. Screen: Diam. 6 5/8 in. Twp. 3N
    Length: 8 ft. Slot____ Rge. 10W
    Elev.____



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	19# Steel	0	75

SHOW LOCATION IN SECTION PLAT
712'N 250'E-SW/C
SW NW SE

16. Size Hole below casing:____in.
17. Static level____ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at 50 gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay & Sand	70	70
Gravel	13	83

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 5-23-77

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ____. In Rock ____.
   Tubular ____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	66
Gravel	66	74

2. Distance to Nearest:
   Building 80 Ft. Seepage Tile Field –
   Cess Pool – Sewer (non Cast iron) –
   Privy – Sewer (Cast iron) –
   Septic Tank 100' away Barnyard –
   Leaching Pit ____ Manure Pile –
3. Well furnishes water for human consumption? Yes ____ No ____
4. Date well completed 10-19-76
5. Permanent Pump Installed? Yes ____ Date ____ No ✓
   Manufacturer ____ Type ____ Location ____
   Capacity ____ gpm. Depth of Setting ____ Ft.
6. Well Top Sealed? Yes ____ No ____ Type ____
7. Pitless Adapter Installed? Yes ____ No ____
   Manufacturer ____ Model Number ____
   How attached to casing? ____
8. Well Disinfected? Yes ____ No ____
9. Pump and Equipment Disinfected? Yes ____ No ____
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No ✓

REMARKS:

IDPH 4.065
1/74 – KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

[redacted]

10. Property owner [redacted] Well No. [redacted]
    Address [redacted]
    Driller L. Christ Drilling Co. License No. 103-50
11. Permit No. 53605 Date 10-15-76
12. Water from Sand & Gravel (Formation) at depth ____ to ____ ft.
13. County Madison
    Sec. 12 NE
    Twp. 3N
    Rge. 10W
    Elev. ____
14. Screen: Diam. 6 5/8 in.
    Length: 8 ft. Slot –
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8"	Steel 19 lb	0	66

SHOW LOCATION IN SECTION PLA
250' N 250 SW SW NE

16. Size Hole below casing: 6 in.
17. Static level ____ ft. below casing top which is 1 ft. above ground level. Pumping level ____ ft. when pumping at 100 gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay-Sand	60	60
Sand & Gravel	14	74

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 11-28-76

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed X.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	72
Gravel	72	8

2. Distance to Nearest:
   Building____Ft. Seepage Tile Field____
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank____ Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes X No____
4. Date well completed____
5. Permanent Pump Installed? Yes____ Date____ No X
   Manufacturer____Type____Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes X No____ Type Mathews
7. Pitless Adapter Installed? Yes____ No____
   Manufacturer____Model Number____
   How attached to casing?____
8. Well Disinfected? Yes X No____
9. Pump and Equipment Disinfected? Yes____ No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____ No X

REMARKS:

IDPH 4.065
1/74 – KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property own[redacted] non responsive
    Address____
    Driller St. Charles Drilling Co License No. 092-006535/C. P. Chltwood
11. Permit No. 95832 Date 8-29-80
12. Water from Sand (Formation) at depth 20 to 80 ft.
13. County Madison
    Sec. 12.4
    Twp. 3N
    Rge. 10W
    Elev.____
14. Screen: Diam. 6 5/8 in.
    Length: 8 ft. Slot X

		X	

SHOW LOCATION IN SECTION PLAT
200's 150'W NE/C SW SW Sc

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6-5/8	Steel 19#	0	72

16. Size Hole below casing: 6 in.
17. Static level____ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at 100+ gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	20	20
Sand	50	70
Gravel	10	80

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C. P. Chltwood DATE 10-15-80

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	81
Gravel	81	89

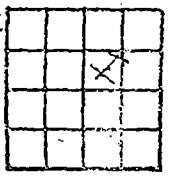
2. Distance to Nearest:
   Building 30' Ft. Seepage Tile Field 140'
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 110 Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes ✓ No____
4. Date well completed 11-10-77
5. Permanent Pump Installed? Yes____ Date____ No ✓
   Manufacturer____ Type____ Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes____ No____ Type____
7. Pitless Adapter Installed? Yes____ No____
   Manufacturer____ Model Number____
   How attached to casing?____
8. Well Disinfected? Yes____ No____
9. Pump and Equipment Disinfected? Yes____ No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____ No ✓

REMARKS:

IDPH 4.065
1/71 XNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [redacted] non responsive
    Address [redacted]
    Driller St. Charles Drilling Co. License No. 182-50
11. Permit No. 69047 Date 11-7-77
12. Water from Sand & Gravel (Formation) 13. County Madison
    at depth____ to____ft.
14. Screen: Diam.____in.
    Length:____ft. Slot____
    Sec. 12 NE
    Twp. 3N
    Rge. 10W
    Elev.____



SHOW LOCATION IN SECTION PLAT NE SW NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8"	Steel 19#	0	81

16. Size Hole below casing:____in.
17. Static level____ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at____gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	60	60
Sand & Gravel	29	89

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C.L. Chitwood DATE 11-18-77

White Copy — Ill. Dept. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	84
Gravel	84	92

2. Distance to Nearest:
   Building 76 Ft. Seepage Tile Field —
   Cess Pool — Sewer (non Cast iron) —
   Privy — Sewer (Cast iron) —
   Septic Tank 75 Barnyard —
   Leaching Pit____ Manure Pile —
3. Well furnishes water for human consumption? Yes ✓ No____
4. Date well completed 12-16-76
5. Permanent Pump Installed? Yes ✓ Date 12-22-76 No____
   Manufacturer Jacuzzi Type Submr Location Well
   Capacity 15 gpm. Depth of Setting 70 Ft.
6. Well Top Sealed? Yes ✓ No____ Type____
7. Pitless Adapter Installed? Yes ✓ No____
   Manufacturer Mathews Model Number M 360
   How attached to casing? Bolted
8. Well Disinfected? Yes ✓ No____
9. Pump and Equipment Disinfected? Yes ✓ No____
10. Pressure Tank Size 120 gal. Type Captive Air
    Location House
11. Water Sample Submitted? Yes____ No ✓

REMARKS:

10. Property [redacted]
    Address [redacted]
    Driller St. Charles Drilling Co. License No. 0102-50
11. Permit No. 54709 Date 11-16-76
12. Water from Sand & Gravel (Formation) 13. County Madison
    at depth____ to____ft.
14. Screen: Diam.____in.
    Length: 8' ft. Slot Ted
    Sec. 12 SE
    Twp. 3N
    Rge. 10W
    Elev.____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	Steel 19 lb.	0	84
—			
—			

SHOW LOCATION IN SECTION PLAT
300' N, 250' E - Sec
NW SW NW

16. Size Hole below casing: 6 in.
17. Static level____ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at 100+ gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay Sand & Gravel	92	92

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 1-12-77

IDPH 4.065
1/74 — KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL FINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled 6. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	72
Gravel	72	80

2. Distance to Nearest: time
   Building none at this Ft. Seepage Tile Field____
   Cess Pool ✓ Sewer (non Cast iron)____
   Privy ✓ Sewer (Cast iron)____
   Septic Tank ✓ Barnyard____
   Leaching Pit ✓ Manure Pile ✓
3. Well furnishes water for human consumption? Yes ✓ No____
4. Date well completed 10-15-77
5. Permanent Pump Installed? Yes____Date____No ✓
   Manufacturer____Type____Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes____No____Type____
7. Pitless Adapter Installed? Yes____No____
   Manufacturer____Model Number____
   How attached to casing?____
8. Well Disinfected? Yes ✓ No____
9. Pump and Equipment Disinfected? Yes____No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____No ✓

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property o[redacted]
    Address [redacted]
    Driller St. Charles Drilling Co. License No. 0102-50
11. Permit No. 68025 Date 10-12-77
12. Water from Sand & Gravel Formation
    at depth 40 to 80 ft.
13. County Madison
    Sec. 12th
    Twp. 3N
    Rge. 10W
    Elev.____
14. Screen: Diam. 6 5/8 in.
    Length: 8 ft. Slot Tel
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8	PVC	0	72

SHOW LOCATION IN SECTION PLAT NW NE NE

16. Size Hole below casing: 6 in.
17. Static level____ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at 50+ gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	40	40
Sand & Gravel	40	80

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C P Chitwood DATE 11-18-77

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT FORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed ✓.
   d. Grout:

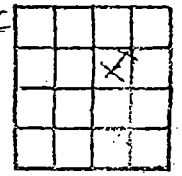
(KIND)	FROM (Ft.)	TO (Ft.)
Cement	0	20
Cuttings	20	81
Gravel	81	89

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 140'
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 110 Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes ✓ No____
4. Date well completed 11-10-77
5. Permanent Pump Installed? Yes____ Date____ No ✓
   Manufacturer____ Type____ Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes____ No____ Type____
7. Pitless Adapter Installed? Yes____ No____
   Manufacturer____ Model Number____
   How attached to casing?____
8. Well Disinfected? Yes____ No____
9. Pump and Equipment Disinfected? Yes____ No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____ No ✓

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property o[redacted]
    Address [redacted]
    Driller St. Charles Drilling Co. License No. 182-50
11. Permit No. 69047 Date 11-7-77
12. Water from Sand & Gravel (Formation) 13. County Madison
    at depth____to____ft.
14. Screen: Diam.____in.
    Length:____ft. Slot____
    Sec. 12 13 14
    Twp. 3N
    Rge. 10W
    Elev.____



SHOW LOCATION IN SECTION PLAT
NE SW NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6 5/8"	Steel 19#	0	81

16. Size Hole below casing:____in.
17. Static level____ft. below casing top which is 1 ft. above ground level. Pumping level____ft. when pumping at____gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	60	60
Sand & Gravel	29	89

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C.P. Chitwood DATE 11-18-77

IDPH 4.065
1/74 – KNB-1

Pumping started at 1;00 P.M. Sample collected at 4;30 P.M.

sp S.O.4

City 2 miles N. of Granite City County Madison

Section 1 Twp. No. 3 N. Range 10 W.

Location (in feet from section corner) Well at S.W. corner of farm residence Approx. 500 feet West and 2000 feet N. ~~of S.E. corner of Sec. 1, T.3 N. R.10.W~~

Owner J.F. Snyder Authority Karl Krohne & Harold Bauer

Contractor Tri-City Well Drilling Co. Address Box 682, RR,1 Granite City, Ill.

Date drilled November 1953 Elev. above sea level top of well 428 ± MSL.

Depth 72 feet below ground surface.

Log No log available at this time

Were drill cuttings saved yes Where filed SGS

Size hole 6 inch If reduced, where and how much No

Casing record 6-inch casing. No screen

Distance to water when not pumping 32.5 ft Distance to water is

feet after pumping at ? G. P. M. for hours.

Reference point for above measurements Top of concrete which is same as ground surf.

Type of pump Fairbanks-Morse, Jet Distance to cylinder Jet set at 50 feet.

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed

Hours used per day Type of power Elec. motor, single phase.

Rating of motor 1/3 HP Rating of pump in G. P. M. 10 gpm-30'H, 18 lbs.

Can following be measured: (1) Static water level At present but not after pump is installed.

(2) Pumping level (3) Discharge No

(4) Influence on other wells

Temperature of water 56.5 F Was water sample collected Yes

Date November 21, 1953 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 133412

Please send copy of analysis to
Tri-City Well Drilling Co.
Box 682, RR-1, Granite City, Ill and to
J.F. Snyder, Box 1335, RR-1 Granite City, Ill

Recorder

Date

2807-22617 12

Sample of water collected from driven well in basement of residence of George Johannigmeier, This well is approx. 30 feet from the Rammar Well which we have been measuring for some time.

City Rural Route No.1 Granite City, Ill County Madison

Section 6 Twp. No. 3 N. Range 9 W.

Location (in feet from section corner) Approx. 600 ft. North and 2100 ft West of the S.E. Corner ~~of Sec.6, T.3 N., R.9 W.~~

Owner George Johannigmeier Authority George Johannigmeier

Contractor Address

Date drilled 1950 Elev. above sea level top of well 417 ± MSL.

Depth 32 ft.

Log This is a 1 1/4-inch drive pipe in the basement of the residence of George Johannigmeier.
Well was pumped for about 5 minutes before collecting sample as water is pumped to a 30 gallon pressure tank.

Were drill cuttings saved Where filed

Size hole If reduced, where and how much

Casing record

Distance to water when not pumping 15 ft. Distance to water is

feet after pumping at G. P. M. for hours.

Reference point for above measurements

Type of pump Dayton-Dowd, belt driven suction pump Distance to cylinder

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed

Hours used per day Type of power F.M. motor

Rating of motor 1/4 HP. Rating of pump in G. P. M.

Can following be measured: (1) Static water level No

(2) Pumping level No. (3) Discharge No.

(4) Influence on other wells

Temperature of water 56.5 F. Was water sample collected

Date Sept. 8, 1952 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 129873 SS

Please send copy of analysis of sample
to Mr. George Johannigmeier
RR.No.1 Granite City, Illinois

Recorder

Date

2807-22617 12

E. G. Cross

gal.

This well furnishes water for watering the Athletic Field and grounds around High School.

City Madison Illinois County Madison, County

Section 30 Twp. No. 3 N. Range 9 W.

Located on East Side of Farish Street between 5th & 6th Streets, Madison, Ill.

Location (in feet from section corner) Approx. 1000 ft East & 2000 ft. South of N.W. Corner of Sec. 30 T.3 N., R.9 W.

Owner Madison High School. Authority

Contractor Luhr Bros., Inc. Address Columbia, Illinois

Date drilled May 6, 1958 Elev. above sea level top of well 415 ± MSL (from Map).

Depth 101 ft.

Log See reverse side of this sheet for log.

Were drill cuttings saved No. Where filed

Size hole If reduced, where and how much

Casing record 8" id Treated wood. Gravel Packed. Screen 37.0 ft Wood. Riser 62.6 ft " 1.5 ft Steel.

Distance to water when not pumping 25.1 Distance to water level Not measured.

feet after pumping at G. P. M. for hours.

Reference point for above measurements

Type of pump Peerless Distance to cylinder

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed

Hours used per day Type of power U.S. Motor.

Rating of motor 15 HP. Rating of pump in G. P. M.

Can following be measured: (1) Static water level No.

(2) Pumping level No. (3) Discharge No.

(4) Influence on other wells

Temperature of water 57 F. Was water sample collected

Date June 9, 1958 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 146826

Please send copy of analysis to
Board of Education
1707, 4th Street, Madison, Illinois

Recorder

Date

2807-22617 12

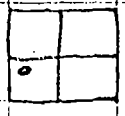
C. H. Jones

Log of well by driller.

0 to 2 ft.	Clay.
2 - 27 ft.	Fine brown sand.
27 - 32 ft.	Clay.
32 - 35 ft.	Fine gray sand.
35 - 45 ft.	Medium gray sand.
45 - 52 ft.	Medium coarse sand.
52 - 55 ft	Coarse sand.
55 - 60 ft.	Very coarse sand.
60 - 64 ft.	Medium Coarse sand.
64 - 67 ft.	Coarse sand with gravel.
67 - 73 ft.	Medium coarse sand.
73 - 90 ft.	Coarse sand.
90 - 101 ft.	Very coarse sand with gravel

Barber asphalt

sand and clay	0-4
sand, silt	4-25
clay	25-27
Quicksand	27-45
sand, very fine	45-70
sand, coarse	70-75
sand, fine	75-85
sand, very fine	85-95
sand, coarse	95-96
gravel	96-109



SW COR. Sec. 25
25.8b
T.3N, R.10W

aquifer thickness 19
to bedrock

3N 10W-13 SE

November 29, 1979

PARTIAL ANALYSIS

Sample of water collected October 17, 1979, from Well #2 owned by ADM Corn Sweeteners, Granite City, Illinois, in Madison County. Location of well: 620'N, 2700'W, of the SE corner of Section 13, T3N, R10W. Depth of well: 117 feet.

LABORATORY NO. 212205

		mg/l	me/l
Iron (total)	Fe	6.2	
Manganese	Mn	.60	
Turbidity		53	
Color		0	
Odor		0	

		mg/l	me/l
Phosphate (filt)	P	0.0	
(unfilt)	P	0.3	
Silica	SiO_2	34.1	
Fluoride	F	0.3	
Nitrate	NO_3	0.5	.01
Chloride	Cl	18	.51
Sulfate	SO_4	88.0	1.83
Alkalinity	(as $CaCO_3$)	316	6.32
Hardness	(as $CaCO_3$)	394	7.88
Total Dissolved Minerals		519	

mg/l = milligrams per liter
me/l = milliequivalents per liter
mg/l x .0583 = grains per gallon

ILLINOIS STATE WATER SURVEY

Kenni W. James
Assistant Chemist
Analytical Laboratory

KWJ/pcb

Army Engineers Pressure Relief well #39 NP SD4

City Granite City County Madison

Section 14 Twp. No. 3N Range 10 W

Location (in feet from section corner) Approx. 500'W & 1500'S of N.E. Cor.

Owner U.S. Army Authority

Contractor Address

Date drilled 1955 Elev. above sea level top of well

Depth 69'

Log

Were drill cuttings saved yes Where filed U.S. Army Eng - Vicksburg

Additional information to be submitted with test data.

Size hole If reduced, where and how much

Casing record

Distance to water when not pumping Distance to water is

feet after pumping at G. P. M. for hours.

Reference point for above measurements

Type of pump Distance to cylinder

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed

Hours used per day Type of power

Rating of motor Rating of pump in G. P. M.

Can following be measured: (1) Static water level

(2) Pumping level (3) Discharge

(4) Influence on other wells

Temperature of water Was water sample collected

Date May 4, 1955 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 137648

Recorder Jack Brown

Date May 14, 1955

2807-22617 12

MAD3N10W-14.1F

May 19, 1955

PARTIAL CHEMICAL ANALYSIS

Sample of water collected May 4, 1955 from Army Engineers Pressure Relief Well 439 owned by U. S. Army, Granite City, Madison County, Illinois. Location: approximately 500' W and 1500' S of NE corner, Section 14, T. 3 N., R. 10 W. Depth: 69 feet

LABORATORY NO. 137648

		ppm.	epm.			ppm.	epm.
Iron(total)	Fe	27.		Chloride	Cl	37.	1.04
				Sulfate	SO_4	100.8	2.10
				Alkalinity(as $CaCO_3$)		584	11.68
Turbidity		363		Hardness(as $CaCO_3$)		688	13.76
Color		0					
Odor		0		Total Mineral Content		752	

ppm = parts per million
epm = equivalents per million
ppm x .0583 = grains per gallon

STATE WATER SURVEY DIVISION

Laurel M. Henley
Assistant Chemist

LMH:lc

MAD3N10W-24.4d

SE 1/4 sec 24
T3N R10W

April 18, 1944

SHORT PARTIAL ANALYSIS

Sample of water collected February 23, 1944 from well owned by the City Ice & Fuel Co., Granite City, Illinois. Depth of well: 84'. Rate of pumping: 750 g.p.m. after 24 hours. Location of well: Well No. 1 in yard.

D

LABORATORY NO. 99359

Determinations Made

		Pts. per Million
Turbidity		100
Color		0
Odor		Tr.
Iron (unfiltered)	Fe	8.0
Chloride	Cl	38.0
Alkalinity (as $CaCO_3$)		
Phenolphthalein		0.
Methyl Orange		334.
Total Hardness (as $CaCO_3$)		712.
Total Mineral Content		825.

Temperature 56° F.

STATE WATER SURVEY DIVISION

T. E. Larson, Chemist

TEL:AD

Sec 15
T3N R10W
Madison Co

Nestle's Granite City

Depth	Formation
14	clay
20	fine sand
34	medium sand
67	hard packed sand
73	gravel - boulders
92	medium to fine sand loose
92	rock streak
116	gravel boulders
	rough going below 110 foot
	NE cor. Plant 35 foot/NS Fence
	12 foot/EW Fence

Test Hole 200+foot South of Test Hole 1

Depth	Formation
1	soil
10	fine sand
23	sandy clay
30	course sand
75	fine sand tight
94	coarse sand & gravel light
96	lime
111	gravel tight
	both finished on bedrock

White Copy — Ill. Dept. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTIONS TO DRILLERS

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored X. Hole Diam. 16 in. Depth 72 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled X. Finished in Drift ____. In Rock ____.
   Tubular ____. Gravel Packed X.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Concrete	13 #	10'
Clay	10'	0'

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) -0
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes ____ No X
4. Date well completed 8/10/74
5. Permanent Pump Installed? Yes X No ____
   Manufacturer LAYNE-Bowler Type Submersible
   Capacity 500 gpm. Depth of setting 50 ft.
6. Well Top Sealed? Yes X No ____
7. Pitless Adaptor Installed? Yes X Baker attached to casing No by weld
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes X No ____

REMARKS: This well located at Sewage treatment plant

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner City Granite City Sewage treatment Plant Well No. 1
    Address ____
    Driller LAYNE Western Co. License No. 92-189
11. Permit No. 27124 Date 1/4/74
12. Water from Alluvial Formation 13. County MADISON
    at depth 35 to 72 ft.
    14. Screen: Diam. 16 in.
    Length: 20 ft. Slot #6
    Sec. 23.66
    Twp. 3N
    Rge. 10W
    Elev. 410+

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
16		0	52

SHOW LOCATION IN SECTION PLAT
2400'N
1600'E of
SW/c SW

16. Size Hole below casing: — in.
17. Static level 13.2 ft. below casing top which is 2 above ground level. Pumping level 22 ft. when pumping at 50 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay and Fill	12	12
Fine brown Sand	13	25
Fine gray Sand	10	35
Coarse Sand & Gravel	15	50
fine gray Sand	19	69
Gravel, Boulders	4	73
Rock	1	73

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [illegible] DATE 10/8/75

WELL INVENTORY SCHEDULE

Well No. MAD 3N 10W-13.5a
Owner's No. 19

Location Granite City County Madison

Section 13.5a Twp. No. 3N Range 10W

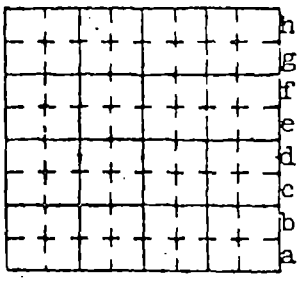
Feet from Sec. Cor. 350' N, 2000' E of SW cor.

Marschall Division

Owner Miles Laboratories, Inc. Address Granite City

Driller Layne Western Co. Address Kirkwood, Mo.

Date drilled Dec. 1962 Method Reverse rotary



Depth 119' Hole record 48" 0-69', 38" 69-119'

Casing record 38" 0-69' cemented, 16" S.S. blank 58-70',

Screen record 16" Layne shutter, S.S., #5 openings,

Log See back Drill cuttings _____ Sample set no. _____

Chief aquifer Sand & gravel from _____ to _____ Other aquifer _____

Land surface elev. 415± / sd 7/4 Topography _____

Nonpumping level _____ above / below measuring point on _____ (date) at _____ AM / PM

Pumping level _____ above / below measuring point after pumping at _____ gpm for _____ hours on _____ (date) at _____ AM / PM

Measuring point (MP) for above measurements _____

Airline and measuring equipment _____

Pump and power _____

Use of water _____

Water quality _____

Analysis No. and date _____ Temp. 62°F

Data collected by W. H. Baker Date _____

Source of information Process engineer & SWS files

Can well be used in pumping test? _____ Are nearby observation wells available? _____ Are pumping records available? _____

Are water level records available? _____

Remarks:

Drillers log

0 - 6' Fill

6 - 15' clay

15 - 70' sand, misc.

70 - 119' sand, gravel, some boulders

WELL INVENTORY SCHEDULE

Well No. MAD 3N 10W-13.4b
Owner's No. 17

Location Granite City County Madison

Section 13.4b Twp. No. 3N Range 10W

Feet from Sec. Cor. 920'N, 2130'W of SE cor.
Marshall Division

Owner Miles Laboratories, Inc. Address Granite City, Ill.

Driller Layne Western Co. Address Kirkwood, Mo.

Date drilled Mar 1961 Method reverse rotary

Depth 117' Hole record 48" 0-74', 34" 74-117'

Casing record 38" 0-74', 16" S.S. blank 64-74, cement 0-74', Gravel pack 74-112'

Screen record 16" 74-117'

Log See back Drill cuttings _____ Sample set no. _____

Chief aquifer Sand & gravel from _____ to _____ Other aquifer _____

Land surface elev. 415± Lsd TM Topography _____

Nonpumping level _____ above/below measuring point on _____ (date) at _____ PM

Pumping level _____ above/below measuring point after pumping at _____ gpm for _____ hours on _____ (date) at _____ AM/PM

Measuring point (MP) for above measurements _____

Airline and measuring equipment _____

Pump and power _____

Use of water _____

Water quality _____

Analysis No. and date _____ Temp. 64°F

Data collected by W. H. Baker Date _____

Source of information Process engineer and SWS files

Can well be used in pumping test? _____ Are nearby observation wells available? _____ Are pumping records available? _____

Are water level records available? _____

Remarks:

Drillers Log

0-7	fill
7-13	clay
13-75	sand
75-92	S+G
92-117	sand

White Copy — Ill. Dept. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in: Depth 113 ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift X. In Rock____.
   Tubular____. Gravel Packed L.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Concrete	0	20

2. Distance to Nearest:
   Building 100' Ft. Seepage Tile Field____
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank____ Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes____No X
4. Date well completed 3/29/79
5. Permanent Pump Installed? Yes X Date____No____
   Manufacturer Layne Type____Location____
   Capacity 700 gpm. Depth of Setting 6' Ft.
6. Well Top Sealed? Yes X No____Type Concrete
7. Pitless Adapter Installed? Yes____No X
   Manufacturer____Model Number____
   How attached to casing?____
8. Well Disinfected? Yes X No____
9. Pump and Equipment Disinfected? Yes X No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes X No____

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner ADM Corn Sweeteners Well No. GS #1
    Address Granite City, Ill
    Driller John T Rueter License No. 102-204
11. Permit No. 84420 Date 4/5/79
12. Water from Alluvial (Formation) 13. County Madison
    at depth 73 to 113 ft. Sec. 13 NW
    14. Screen: Diam. 16 in. Twp. 3N
    Length: 40 ft. Slot #6 Rge. 10W
    Elev.____

SHOW LOCATION IN SECTION PLAT
500'N 2570'W SE/C
(Indust.)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
16	Steel	+2'	-73'

16. Size Hole below casing: 48 in.
17. Static level 25.9 ft. below casing top which is 2' ft. above ground level. Pumping level ~~270~~ 34.6 ft. when pumping at 910 gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Cinders, Fill	0	3
Gray Hard clay	2	5
Gray Medium clay	5	10
Brown fine Sand	15	25
Brown fine to medium to coarse sand	20	45
" " " Sand	10	55
Gray fine to medium to coarse sand	35	90
Gray fine Sand	5	95
Medium, Coarse sand	18	113

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [illegible] DATE 8/14/79

IDPH 4.065
1/74 — KNB-1

WELL No. 2 HOUSEHOLD SUPPLY

Route 3 Bend Road

City E. St. Louis County Madison

Section 32 Twp. No. 3N Range 9W

Location (in feet from section corner) NW 1/4

Owner Hugo Aufderheid Authority

Contractor Address

Date drilled Elev. above sea level top of well

Depth 30'

Log

Were drill cuttings saved Where filed

Size hole DRIVEN WELL If reduced, where and how much

Casing record

Distance to water when not pumping Distance to water is

feet after pumping at G. P. M. for hours.

Reference point for above measurements

Type of pump Hand Distance to cylinder

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed

Hours used per day Type of power

Rating of motor Rating of pump in G. P. M.

Can following be measured: (1) Static water level

(2) Pumping level (3) Discharge

(4) Influence on other wells

Temperature of water 54°F Was water sample collected yes

Date 9/22/60 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 153311

Recorder [illegible]

Date 9/22/60

2807-82417 12

MAD309W-32.6g2

October 11, 1960

PARTIAL CHEMICAL ANALYSIS

Sample of water collected September 22, 1960 from Well No. 2 owned by Hugo Aufderheid near East St. Louis, Illinois in Madison County. Location of well: NW 1/4 of Section 32, T3N, R9W. Depth of well: 30 feet.

LABORATORY NO. 153311

	ppm.	epm.			ppm.	epm.
Iron (total) Fe	1.3		Chloride	Cl	6.	.17
			Nitrate	NO_3	0.7	.01
			Sulfate	SO_4	118.5	2.47
			Alkalinity	(as $CaCO_3$)	276.	5.52
			Hardness	(as $CaCO_3$)	394.	7.88
Turbidity	24					
Color	0					
Odor	0		Total Dissolved Minerals		465.	
Temp. (reported)	54°F					

ppm. = parts per million
epm. = equivalents per million
ppm. x .0583 = grains per gallon

STATE WATER SURVEY DIVISION

Laurel M. Henley
Associate Chemist

LMH/kmb

HOUSEHOLD SUPPLY

WELL No. 1
Route 3 Bend Road

1 gal
Mp SD 4
NO 3

City East St. Louis, Ill. County Madison

Section 32 Twp. No. 3N Range 9W

Location (in feet from section corner) NW 1/4

Owner Hugo Aufderheid Authority —

Contractor — Address —

Date drilled — Elev. above sea level top of well —

Depth 30'

Log —

Were drill cuttings saved — Where filed —

DRIVEN WELL

Size hole — If reduced, where and how much

Casing record —

Distance to water when not pumping — Distance to water is —

feet after pumping at — G. P. M. for — hours.

Reference point for above measurements —

Type of pump Hand Distance to cylinder —

Length of cylinder — Length of suction pipe below cylinder —

Length stroke — Speed —

Hours used per day — Type of power —

Rating of motor — Rating of pump in G. P. M. —

Can following be measured: (1) Static water level

(2) Pumping level (3) Discharge

(4) Influence on other wells

Temperature of water 54° F Was water sample collected Yes

Date 9/22/60 Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No. 153210

Recorder RJ Schicht

Date 9/22/60

2807-32617 18

MAD3N9W-32.6g

October 11, 1960

PARTIAL CHEMICAL ANALYSIS

Sample of water collected September 22, 1960 from Well No. 1 owned by Hugo Aufderheid near East St. Louis, Illinois in Madison County. Location of well: NW 1/4 of Section 32, T3N, R9W. Depth of well: 30 feet.

LABORATORY NO. 153310

	ppm.	epm.			ppm.	epm.
Iron(total)	Fe	1.5	Chloride	Cl	22.	.62
			Nitrate	NO_3	0.7	.01
			Sulfate	SO_4	162.1	3.37
			Alkalinity	(as $CaCO_3$)	336.	6.72
Turbidity	9		Hardness	(as $CaCO_3$)	510.	10.20
Color	0					
Odor	0					
Temp. (reported)	54°F		Total Dissolved Minerals		613.	

ppm. = parts per million
epm. = equivalents per million
ppm. x .0583 = grains per gallon

STATE WATER SURVEY DIVISION

Laurel M. Henley
Associate Chemist

LMH/kmb

NW¼ Sec 32 T 3 N R 9 W

February 4, 1944

SHORT PARTIAL ANALYSIS

MAD3N9W-32h

Sample of water collected in January 1944 from well owned by Mr. Schwartz, Horse Shoe Lake, Illinois. Depth of well: 25'. Location of well: NW. 1/4, Sec. 32, T. 3 N., R. 9 W.

LABORATORY NO. 98901

Determinations Made

		Pts. per Million
Turbidity		Tr.
Color		0
Odor		0
Iron	Fe	
(unfiltered)		0.6
Chloride	Cl	85.0
Alkalinity	(as $CaCO_3$)	
Phenolphthalein		0.
Methyl Orange		232.
Total Hardness	(as $CaCO_3$)	1321.
Total Mineral Content		1563.

STATE WATER SURVEY DIVISION

T. E. Larson, Chemist

TEL:AB