ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

US EPA RECORDS CENTER REGION 5
464196

MEMORANDUM

DATE: May 11, 1984

TO: Sandra Sroonian, Kathy McCormack, and Files

FROM: Mark Lunsford

SUBJECT: Joliet Area Sites
TDD #R5-8303-1A #0155 Mobil Oil Refinery
TDD #R5-8303-1B #0004 Amoco Chemical Corp.
TDD #R5-8303-1B #0122 Catepillar Tractor Co.

On May 9, 1984, Dave Curnock and the author visited the Illinois State Water Survey in Batavia to collect information on well records for areas within three miles of any of the above sites. The following is a description of the area covered by our research:

T. 33N., R.9E. Sections 2-5
T. 34N., R.9E. All of Channahon Township, Sections 1-36
T. 34N., R.10E. Sections 7, 18, 19, 30
T. 35N., R.9E. Sections 1, 11-15, 21-28, 33-36
T. 35N., R.10E. Sections 6-9, 16-20, 30

Each well log in the area noted above was examined. For each well recorded, the location (township, range and section), depth, and type of material that the well is finished in was recorded. The names of industries, businesses, schools, and government facilities with well records were recorded next to the well log entry for each named institution. Entries for well logs that have no name with them are from private residences.

recycled paper

Well records for schools, industry, and municipal wells were photocopied. Wells records for private, domestic wells were copied only if they were located in the same section with one of the three subject sites, or if they are the closest off site well which was determined by looking at the Channahon quadrange map.

The following is a list of industries for which well logs were copied:

Catepillar Tractor Co.
Amoco Chemical Corp.
Mobil Oil Co.
Dow Chemical U.S.A.
Stepan Chemical Corp.
Kankakee Ordnance Works (Joliet Army Ammunition Depot)
Blockson Chemical Co.
Rexall Chemical Co.
Glidden Durkee Co.
Midwestern Gas
Grown Trygg Corp.
Commonwealth Edison (Public Service Co.)

The well logs for the industries listed above do not specify whether water from a well is used for drinking or industrial purposes. To complete HRS scoring, it may be necessary to contact these industries or some other source to find out what the wells are used for.

In order to determine the population drawing from the aquifer of concern for any of the three sites, it will be necessary to compare the township range and section numbers within a three mile radius for each site to the area covered by our research so the well data for the site can be separated from well data that is appropriate only for the other sites.

ML:3F

DATE: MAY 10th, 1984
TO: Sandra Sroonian, Kathy McCormack and files
FROM: MARK LUNSFORD
SUBJECT: Joliet area sites
TDD# RS-8303-1A #0155 Mobil Oil Refinery
TDD# RS-8303-1B #0004 Amoco Chemical Corp.
#0122 Catepillar Tractor Co.

On May 9th, 1984 Dave Curnock and the author visited the Illinois State Water Survey in Batavia to collect information on well records for areas within ~~a~~ 3 miles of any of the above sites. The following is a description of the area covered by our research:

T. 33 N., R. 9 E. Sections 2-5
T. 34 N., R. 9 E. All of Channahon Township, Sections 1-3
T. 34 N., R. 10 E. Sections 7, 18, 19, 30
T. 35 N., R. 9 E. Sections 1, 11-15, 21-28, 33-36
T. 35 N., R. 10 E. Sections 6-9, 16-20, 30

Each well log in the area noted above was examined. ~~The depth and type of material each well~~ ~~Well depth and the type of material that each well is finished in was recorded.~~ ~~as well~~ For each well record the location (township, range & section), depth and type of material that the well is finished in was recorded. The names of industries, businesses, schools and government facilities with well~~s~~ records were recorded next to the well log entry for each ~~of~~ named institution. Entries ~~of~~ for well logs ~~with~~ that have no name with them ~~are assumed to be~~ are from ~~for~~ private residences.

Memo (continued)

~~Two criteria were used to decide which well logs were copied:~~

~~Well~~ Well records for schools, industries and municipal wells were copied. Well records for private, domestic wells were copied only if they were located in ~~the same section or~~ the same section with one of the three subject sites or if they ~~appeared to be the closest offsite well~~ are the closest offsite well, which was determined by looking at the Chanahon quadrangle map.

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The well logs for the industries listed above do not specify ~~what or~~ whether water from a well is used for drinking ~~or~~ or industrial purposes. To complete HRS scoring it may be necessary to contact these industries or some other source ~~that could~~ to find out what the wells are used for.

In order to determine the population drawing from the aquifer of concern for any of the three sites it will be necessary to compare the township, range and section numbers ~~indicated~~ within a three mile radius for ~~the particular~~ each site to the area covered by our research, so the well data for the ~~appropriate~~ site can be separated from well data that is appropriate only for the other sites.

5/9/89 M. Lundstone
D. Cunnock

Amoco Chemicals

T34N R9E Sec 3, 2, 10, 11

Caterpillar

T35N R9E Sec 25, 36 ← River border

T35N R10E Sec 30, (9)

↑ River border ← small corner

Mobil

T34N R9E Sec 22, 15 ← river border

Notes on Sections

Amoco

Sec 3 of the 7 logged wells most are about 200' or greater except for 2 that are 40' and 59'
40' is in gravel, 59' is in limestone

Sec 2 of the 3 logged wells, 260', 862' and 66'
66' is in shale but near site

Sec 10 of the 3 logged wells, 1405' - Amoco's, 365' Dry hole
100' - LS Midwestern Gas
but water is pumped from Sand + Gravel

Sec 11 all wells industrial and deep ≈ 1400'

Notes on Sections

Mobil

Sec 15 — no logs

Sec 22 of 2 wells, 1578' is Mobil's private well into limestone but water encountered at 13'.

Caterpillar

T34N R9E

Sec 25 3 wells of Kankakee Ordnance Works #'s 8, 9, 10

Sec 36 2 wells of Kankakee Ordnance Works #'s 6, 7

T34N R10E

(MARK) Sec 30 (over border)

(9) (small corner)

TR,	Sec	Depth	Material
T34N 9E	6	225	limestone
	6	105	limestone
	6	225	limestone
	6	225	limestone
	6	125	"
	6	225	"
	6	120	"
	6	160	"
	6	240	"
	6	200	"
	6	120	"
	6	120	"
	6	200	"
	6	200	"
	6	200	"
	6	125	"
	6	125	"
	6	125	"
	6	155	"
	6	170	"
	6	125	"
	6	100	"
	6	100	"
	6	90	"
	6	140	"
	6	95	"
	6	95	"
	6	360	"

TR,	Sec	Depth	Material
T34N 9E	6	120	limestone
	6	125	Black limestone
	6	125	limestone
	6	200	limestone
	6	125	"
	6	125	"
	6	240	"
	7	60	"rock" (limestone)
	7	55	"
	7	685	Sandstone (Public School dist.) H2O 485'-685 (CHANNAHAN
	7	125	SHALE H2O → 55-76' limestone
	7	105	limestone
	7	50	"rock" (limestone)
	7	58	"
	7	125	limestone
	7	31	Clay + Gravel
	7	60	rock (limestone)
	7	100	"
	7	80	"
	7	100	limestone
Village of	7	42	Gravel
Minooka	7	41	"overburden"
	7	55	"rock" (limestone)
	7	110	limestone
	7	110	"
	7	35	Clay + Gravel

34N 9E

TR,	Sec	Depth	Material
34N 9E	7	38	Clay + Gravel
	7	100	limestone
	7	55	Clay + Gravel
	7	100	limestone
	7	125	"
	7	100	"
	7	125	"
	7	90	"
	7	54	Gravel
	7	123	limestone
	7	125	Shale/limestone
	7	70	limestone
	8	80	"
	8	65	Gravel
	8	80	limestone
	8	80	"
	8	75	"
	8	65	"
	8	105	limestone/shale
	8	80	limestone
	8	80	"
	8	85	"
	8	65	"
	8	100	"
	8	85	limestone/shale
	8	58	gravel
	8	200	"overburden"
	8	120	shale

TR	Sec	Depth	Material
34N 9E	8	300	yellow rock ~~limestone~~
	8	70	limestone
	8	53	Gravel
	8	62	limestone
	8	60	"
	8	53	Gravel, Clay
	8	46	Gravel
	8	51	limestone
	8	80	Gravel
	8	58	Gravel, Clay
	8	45	Gravel, Clay
	8	125	limestone
	8	85	"
	8	62	"
	8	65	"
	8	85	"rock" (limestone)
	8	80	"
	8	150	"
	8	130	limestone
	8	145	"
	8	175	"
	8	60	Sandstone
	8	100	limestone
	8	130	"
	8	126	shale
	8	312	limestone
	8	85	limestone
	8	226	"rock" (limestone)

TR#	Sec	Depth	Material (Company)
R34N 9E	8	135	limestone
	8	33	SAND
	8	215	limestone (Galena)
	8	230	limestone
	9	100	limestone
	9	160	"
	9	160	" [Principle Engineering]
	9	145	" [ROSE AIR FREIGHT]
	9	49	"
	9	65	Gravel
	9	125	limestone
	9	265	" [~~New Lennox Lumber~~]
	9	150	" [~~[illegible]~~]
	9	100'	limestone/Shale
	9	180'	limestone [~~New Lennox Lumber~~]
	9	340	"
	9	175	" [~~New Lennox Lumber~~]
	9	100	" [Neal Plumbing + Heating Co]
	9	325	"
	9	160	"
	9	150	"
	9	130	"
	9	130	"
	9	145	"
	9	175	"
	9	100	"
	9	295	"
	9	160	"

New Lennox Lumber (a subsidiary)

TR#	Sec	Depth	Material
34N 9E	9	100	Limestone
	9	160	"
	9	175	"
	9	175	"
	9	100	"
	9	130	"
	9	175	"
	9	175	"
	9	325	"
	9	155	"
	9	765	Sand (~~[illegible]~~
	9	175	limestone
	9	265	"
	9	145	"
	9	130	"
	9	100	"
	9	125	"
	9	475	limestone
	9	140	"
	9	130	"
	9	265	"
	9	50	"
	9	100	"
	9	70	gravel
	9	145	limestone
	9	60	"
	9	560	"
	9	125	"

34N 9E

TR	Sec	Depth	Material [Company]	TR	Sec	Depth	Material [Company]
34N 9E	9	160	limestone	34N 9E	9	130	Limestone
	9	175	"		9	145	"
New Lumber Co. (Subdivision)	9	160	"		9	160	"
	9	415	"		9	52	Gravel
	9	265	"		9	120	rock (limestone)
	9	160	"		9	115	limestone
	9	160	"		9	70	"
	9	325	"		9	115	"
	9	145	"		9	115	"
	9	160	"		9	100	"
	9	160	"		9	145	"
	9	160	"		9	130	"
	9	160	"		9	100	"
	9	190	"		9	100	"
	9	145	"		9	100	"
	9	325	"		9	100	"
	9	115	"		9	69	Gravel
	9	160	"		9	115	Limestone
	9	175	"		9	115	"
	9	130	"		9	115	"
	9	130	"		9	100	"
	9	130	"		9	115	"
	9	160	"		9	70	rock (limestone)
	9	100	"		9	120	"
	9	160	"		9	80	"
	9	340	"		9	80	"
	9	130	"		9	64	limestone
	9	300	[Channahan Grade School] yellow rock		9	70	rock (limestone)

TR	Sec	Depth	Material [Company]
34N 9E	9	70	Rock (limestone)
	9	80	Sand & Gravel
	9	90	rock (limestone)
	9	90	Sand & Gravel
	9	80	"
	9	260	Rock (limestone)
	9	160	"
	9	80	"
	9	100	limestone
	9	80	"
	9	80	Cl, Gr
	9	145	LS
	9	110	LS
	9	95	LS
	9	95	Gr
	9	80	LS
	9	125	LS
	9	105	LS
	9	111	LS
	10	100	LS [Midwestern Gas]
✓ *	10	1405	S [Amoco Chem Co] #2 SS#31345
			COPY Total Log. ≈ 12 pages
✓	10	365	LS (DRY)
✓ *	11	1422	LS [Amoco Chem Co] #1
			Copy Total Log. ≈ SS#30479
✓ *	11	1400	LS [Amoco Chem Co] #3
			Copy Total Log. SS#49359

TR	Sec	Depth	Material [Company]
34N 9E	11	1407	LS [Stepan Chem Co #1]
✓ *			copy driller log SS#25945
	11	1402	? [Stepan Chem Co #2]
			S.S. #39877
	11	1410	LS [Stepan Chem Co #3]
✓ *			Copy driller log SS#58966
	12	125	LS
	12	225	LS/Sh
	13	145	LS
	14	209	LS/Sh
	13	245	LS
	16	33	Gravel
	16	30	Gravel
	16	120	Rock (LS)
	16	105	LS
	17	48	Gr
	17	64	LS
	17	42	Gr
	17	50	LS
	17	100	LS
	17	100	LS
	17	50	Cl, Gr
	17	50	LS
	17	70	LS
	17	50	Cl, Gr
	17	74	LS
	17	95	LS
	17	70	LS

RT	Sec	Depth	Material [Company]
34N 9E	17	110	LS/Sh
	17	100	LS
	17	65	LS
	17	52	S, Gr
	17	60	LS
	17	40	Gr
	17	70	"Rock" (LS)
	17	52	Gr
	17	42	Gr
	17	75	LS
	17	90	LS
	17	80	LS
	17	100	LS
	17	80	"Rock" (LS)
	17	78	"
	17	75	LS
	17	100	LS
	17	70	LS
	17	140	LS
	17	120	Sh
	17	160	"Rock" (LS)
	17	80	Rock (LS)
	17	90	LS
	17	65	LS
	17	100	LS
	17	90	LS
	17	200	? Channon School
	17	215	Stone/Shale

RT	Sec	Depth	Material [Company]
34N 9E	18	205	LS
	18	150	LS
	18	205	LS
	18	135	LS
	18	205	LS
	18	180	Rock (LS)
	18	185	LS
	18	125	LS
	19	160	Rock (LS)
	19	150	"
	19	150	"
	19	150	"
	19	160	"
	19	160	"
	19	200	LS
	19	140	Rock (LS)
	19	160	LS
	19	150	LS
	19	195	LS
	19	180	LS
	19	135	LS
	19	157	?
	20	75	LS
	20	165	LS
	20	145	LS
	20	150	LS
	20	100	Cl, Gr
	20	200	LS

R#	Sec	Depth	Material [Company]
34N9E	20	237	Shale
	21	1555	Sh, [Glidden Durkee]
	21	1573	LS [Rexall Chem Co]
	21	120	LS
	21	419	LS
	21	419	LS
/ *	22	1578	LS Mobil Oil Co.
			Copy log.
/	22	200	LS
	23	435	LS
	25	1627	LS [Kankakee Ordnance Works #8]
/ *			Copy drillers log
	25	1603	LS [Kankakee Ordnance Works #9]
/ *			Copy drillers log
	25	157	LS [Kankakee Ordnance Works #10]
/ *			Copy drillers log
	27	796	Sandstone [Joliet Livestock Market]
	27	647	Sandstone
	27	352	LS
	28	1605	LS with Sand [Dow Chem #1]
/ *			Copy log
	29	800	Sandstone [Dow Chem]
/ *			Copy Log
	29	326	LS
	29	134	LS
	30	200	Rock (LS)

TR#	Sec	Depth	Material [Company]
34N9E	30	205	LS
	30	120	Gravel / Quicksand
	30	300	LS
	31	606	SS [Captain's Inn]
	31	150	LS
	31	565	LS [Will Co. Forest Preserve]
	31	40	Gr.
	31	640	SS [Will Co. Forest Preserve]
	31	44	Sh
	31	145	SS
	31	269	Sh
	32	259	LS
	34	165	LS
	34	327	LS (Rock)
/	34	1590	LS [Kankakee Ordnance Works #3]
/ *			Copy drillers log
	34	1554	LS [Kankakee Ordnance Works #4]
/ *			Copy drillers log
	34	1593	LS/Sh [Chicago Joliet Livestock #3]
	35	1612	SS/LS [Kankakee Ordnance Works #2]
/ *			Copy drillers log
	35	1597	SS [Kankakee Ordnance Works #1]
/ *			Copy driller log
	35	46	LS [Joliet Army Ammunition]
	35	45	LS ["]
	35	41	LS ["]
	36	1653	LS [Kankakee Ordnance Works #6]
/ *			

34N 9E

TR#	Sec	Depth	Material	[Company]
34N9E	36	1655	Sh/LS	[Kankakee Ordnance Works #7]
✓ *		Copy driller's log.		

Ls — limestone
Sh — shale
Gr — gravel
S — sand
SS — sandstone
Cl — Clay

T. 33 N., R. 9 E. Sections 2-5

7 wells Kankakee Ordnance Works - Wilmington all shallow wells
10-20 feet deep - not used for drinking - use unknown
deep wells are used for potable water source

Section 2

Section 4 limestone 775' Des Plaines ~~Ill.~~ Dept. of Conservation
slate + limestone 125'
limestone 60' C. Woods farm
l-stone + soapstone 70' farm

Section 5 coal, soapstone, sandstone, clay 49'
Rock (l'stone) 140'
Rock (l'stone) 150' Crown Trygg.

T. 34 N., R. 10 E.

Section 7 1630' limestone (Galesville) Liquid Carbonic Corp.
1597' slate, sand, lime Peoples Gas Light + Coke Co.
1581' sandstone, lime Peoples Gas Co.; SNG Plant
130' limestone Crest Real Estate
130' limestone
105' l'stone
100' limestone
~~125~~

21 - Glidley - Rexall
10 - Mid. gas
7 - Minonka school

Section 18 NONE
Section 19 NONE

T. 34 N., R. 10 E.

Section 30 limestone 135' 0-65' clay water at 25'

COP/ * Kankakee Ordnance Works dolomite 135' - potable water well?

T. 35 N., R. 9 E.

Section 1 limestone 26-64', sand & soil 0-26' water at 23'

limestone 35-145' water at 24' clay 0-35'

limestone 41-125' water at 25' sand & gravel 20-41

limestone 210'

gravel 0-40', water at 40', limestone 40-165'

water at 19', clay 0-38', limestone 38-100' Tri-County Well Lot 13 Murphy Acres

limestone 160'

limestone 235'

water at 50', clay & gravel 0-74', limestone 74-145' New Lenox Lumber

120' in rock

* City of Joliet 1623' (copy log)

overburden 0-43', water at 18', rock 43-100'

overburden 0-41', Rock 41-120' water @ 35'

Section 1

limestone 205'

overburden 0-42', Rock 42-100', water @ 20'

rock 110'

rock 80'

limestone 125'

limestone 145'

? 135'

clay 0-45', gravel to 52', limestone 52-125' water @ 30'

limestone 190'

limestone 125'

l'istone 115'

T. 35 N., R. 9 E. (continued)

Section 6 (continued)

limestone 185'

limestone 200'

limestone 190'

limestone 165'

limestone 190'

Blue clay 0-60' water at 25', blue slate 60-110', limestone water from to 120'

limestone 193'

limestone 191'

water from limestone 33-130', water at 25'

limestone 95'

Section 17

water at 10', clay & gravel 0-42', limestone 42-145'

limestone 145'

limestone 200' → Timberlane Subdivision

Rock 220'

Rock 160'

Rock 40-160', water at 35', overburden 0-40'

limestone 130' ~~[illegible]~~

overburden 0-42', water at 25', rock 42' to 120'

limestone 225'

limestone 185'

limestone ~~[illegible]~~ 185'

limestone 165'

limestone 185'

clay 0-15', gravel 15-30' water at 20', limestone/shale/limestone ~~50-1~~ 50-150

clay 0-15', gravel 15-20', water at 20', limestone 20-160'

COPY-1

Bob Sussman

T. 35 N., R. 9 E. (cont.)

Section 11 (cont.)

limestone 165'

limestone 200' Woodlawn Memorial Cemetary

limestone 210'

limestone 225'

sand & gravel 0-15'; limestone 15-100', water at 4'

Section 12 NONE

Section 13 Joyce 7-UP Co.

shale, dolomite, shale, G-P dolomite, 725' deep, St. Peter sandstone

Section 14 gravel & clay 0-24', gravel & sand 24-29', limestone

- to 202', water @ 20'

- 428' shale

Section 15 - water @ 10', 0-18' gravel, limestone 18-100'

- limestone 145'

- limestone 125'

COPY

Troy Community Consolidated School - clay-gravel 0-40', water @ 35'

water from limestone 40-135'

- limestone 110'

- Rock 120'

- clay 0-35', water at 30'; lime/sandstone/~~limest~~ limeshale 30-200'

- limestone 100'

- clay & sand 0-34', water at 29', limestone 34-200' Rossi Motel

- Rock 100'

- clay & gravel 0-40', water @ 20', limestone 40-130' Crest Real Estate

- clay & gravel 0-80', water @ 40', limestone 80-130' Link Construct.

- clay & gravel 0-41', water @ 25, limestone 41-155' Linke

- clay 0-38', water at 13', limestone 38-114'

- 168-172' in shale rock

COPY-2

T. 35 N., R. 9 E.

Section 15

- dirt, sand & gravel 0-8', water at 8', limestone 8-65'
- limestone 125'
- clay 0-27', water at 10' limestone 30-125' ~~Lots~~ Lots #17 Sunset Hills
- clay 0-25', water at 15' limestone 30-125' Sunset Hills
- clay 0-25', water at 15', limestone 30-125'
- overburden 0-45', water at 20', rock 45-160' - Shorewood
- limestone 130'
- clay & gravel 0-40', water at 10', limestone 40-100'

* - MOBIL OIL CO. overburden 0-104', rock 104-240'
— COPY LOG —

- clay 0-63', water at 20', limestone 63-115' Sunset Hills Subdivision
- clay & sand 0-26, water at 20', limestone 26-120'
- clay 0-10, sand & gravel 10-40', gravel 40-53', water at 35'
  limestone to 140'
- limestone 130'
- limestone 130'
- clay 0-10 & gravel 10-35, water at 20', limestone 30-125'
- lime/shale/lime 120'
- Rock 250'
- 69' Rock

* - Troy Elementary School lime 175' → 2 WELLS COPY LOGS

Section 21

- limestone 100'
- Rock 80'
- Rock 60'
- Rock 50'
- Rock 90'
- limestone 85'
- limestone 125'
- limestone 80'
- limestone-shale 80'
- Rock 60'

LS - limestone

Rock - means limestone "Rock" appears on well logs

- Shorewood

T. 35 N., R. 9 E.

Section 21

- Rock 80'	- Rock 90'	- Rock 60'	- Rock 90'
- Limestone 100'	- Rock 100'	- Rock 70'	- Rock 90'
- Limestone 100'	- limestone 88'	- Rock 60'	- Rock 40'
- L'stone 100'	- LS 100'	- Rock 90'	- Rock 50'
- Rock 85'	- LS 70'	- Rock 90'	- Rock 120'
- Rock 50'	- LS 65'	- Rock 105'	- Rock 85'
- clay + gravel 0-50			
- Rock 95'	- Rock 80'	- LS 125'	- LS 120'
- Rock 35'	- Rock 70'	- LS 125'	- LS 120'
- Rock 80'	- Rock 50'	- LS 125'	- LS 120'
- Rock 80'	- Rock 50'	- LS 35'	- LS 120'
- Rock 80'	- LS 125'	- LS 35'	- LS 120'
- clay + gravel 0-43			
- LS 135'	LS 96'	~~Rock 140'~~	
- LS 125'	~~LS 185'~~		
- Rock 103'	~~LS 130'~~		

Section 22	Section 23	Section 24
LS 185'	Rock 300'	LS 55'
LS 130'	Rock 300'	
Rock 140'	Rock 116'	
LS 150'		
LS 700'		

T. 35 N., R. 9 E. COPY

Section 25 — COPY all in this section

* LS 102'
* Shale 200'
* Catepillar Tractor Co. 1405' Galesville sandstone
COPY LOG
~~LS 125'~~

Section 26

LS 125'
LS 100'
LS 105'
LS 100'

LS 105'
~~Rock 74'~~
~~LS~~

Section 27

Rock 74'
LS 100'
LS 204

Section 28

water from LS 125 shale 130'
LS 125'
LS 135'
LS 285'
Rock 340'
LS 125'
LS 125' — Nenwood Glen Subdivision
LS 160'
LS 125'
LS 105'
LS 125'
Rock 105'
lime 130'
lime 348'
LS 140'
LS 135'
Broken lime 120'

LS 87'
LS 95'
LS 310'
LS 100'
LS 140'
~~Rock 125'~~

Section 33

LS 44'
LS 85'
LS — Hard shale 62'
Utilities, Inc. 1435 lime + sand
LS 265'
shale 143'
LS 53'
LS 234'

COPY LOG?
— State of Ill. Division of Highways sand + lime 303'
Very strong sulphur water used for washroom + washing trucks

T. 33 N., R. 12.

Section 34

— Channahon Park District
  Boulders 0-17', sand 17-55', shale 55-59', Gravel 59-61'
  water from gravel
— overburden 0-440', rock 440-500' Clintock Acres Subdivision
— LS 160'
— sand & gravel 0-45' Channahon Park District
— LS 57' both at top of LS
— LS 41'
— clay & gravel 0-42' McClintock Acres
— LS 205'
— gravel 0-73' water at 25'
— clay (rocks, blue clay) to 55', Gravel & sand 55-62', water at 31'
— LS 100'
— LS 70'
— gravel 43' water at 18' McClintock Acres Subdivision
— gravel 34' water at 29'
— gravel 40' water at 30'
— gravel 40'
— clay & gravel 0-58'
— boulders & gravel 25'
— gravel 36' water at 25'
— clay 0-44', sand & gravel 44-50' water at 21'
— stone 0-20, Hardpan 20-47, sand 47-52, water at 30'
  Leland Hills Subdivision
— gravel 51' water at 23'
— LS 109'
— 280 lime - strong sulphur odor
— LS 200'

T. 55 N-10W

Section 34 (continued)

- gravel 30'
- gravel 67'
- gravel 47'
- Trenton lime 171'
- LS 125'

Section 35

LS-68'

LS-100'

LS-310' Leland Hills Subdivision

LS-60'

LS & SS 500' water from 300-500'

LS 460

gravel 45'

Rock 130'

gravel 57'

gravel 54' water 25'

gravel 54' water at 20'

clay & gravel 52'

Gravel 38' water at 20'

gravel 52' water at 35'

gravel 55' water - 35'

G - 56' water 35'

G - 55' water 28'

G - 55' 30' Leland Hills

G - 58' 28'

Section 36 NONE

Section 6 Pilcher Park Farms Subdivision

LS 70'

Section 7 Joliet (Quest side well) 167' shale COPY LOG

- LS 147'
- Chicago Pipeline Co. Rock 166'
- 242' LS Chicago Dist. Pipe Line
- LS 263'

Section 8

- LS 250'
- LS 300'
- LS 150'
- 170' No Lithology
- shale 305'

Section 9

- LS 205'
- Joliet city wells 1570' Dolomite + sandstone COPY lp. log not the multi page one
  946' Sandstone
- Crawley Ave. well 1621' shale
- Ottawa St. 1,525 Galesville sandstone
- Ruby St. 1,560 Eau Claire Dolomite + shale short one
- LS 170'
- St. Peter sandstone 946' St. Francis Convent
- ~~LS 160'~~

Section 10

- LS 160'
- American Steel + Wire Co., Scott St. Plant 2,076' shale/sandstone
- LS 111'
- SS (Galesville) 1460' Beatrice Creamery Co.
- LS 87'

DON'T NEED

Section 10

- LS 157' Crowbie Dairy
- 133' no lithology
- Lime 390' Flint Sanitary Milk Co.
- Joliet Citizens Brewery Co. 2,000' — another well 1483' in lime
  — a 3rd is 1,460' in sandstone
- Joliet City Van Buren St. 1,550' in sandstone & shale
  COPY LOG
- LS 164'
- LS 124'
- LS 153'
- William E. Pratt Mfg. Co. 795' in conglomerate of SS, dolomite & shale
- Lindbergh Ice Co. 1550'
- St. Cyril School — rock 211'
- LS 64'
- ~~LS~~ Rock 138'
- LS 165'
- Young American Club 270' shale
- LS 154
- Fred ~~St~~ Sehring Brewing Co. 1575' in sandstone/limestone
  NE corner of Scott & Clay Streets
- LS 161'

Section 16

- SS (St. Peter) 807' water at 650'
- Joliet City — Des Plaines St. — 1560' Galesville sandstone
  COPY LOG
  → Jasper St. 1,565 SS
- US War Dept. Moorings 855' Prairie Du Chien dolomite
  — US Engineers Office Tone 855' in Oneota dolomite

Section 16

- Rock 140
- LS 160
- Lineshale 240'
- LS 160'
- LS 203'
- LS 189'
- Rock 132'
- LS 191
- 160'

17 - LS 200'
17 - LS 205'
17 - LS 177'
17 - LS 180'
17 - LS 160'
17 - LS 142'
17 - LS 183'
17 - "soft rock" 165'
17 - LS 162'
17 - LS 137'
17 - LS 121'
17 - LS 205'
17 - LS 205'
LS - 200'
LS - 175'
LS - 179'
Rock - 141'
white, sandy rock - 165'

SECTION 17

Section 17

Rock, 180'
LS - 147'
Rock - 121'
Rock - 152
LS - 145'
LS - 175'
Rock - 130'
LS - 190'
LS - 205' Rockdale
LS - 175'
LS - 150'
LS - 200'
lime - 181'
LS - 185'

18 - LS - 125' Section 18
18 - LS - 220'
18 - LS - 180'
18 - Chicago Dist. Pipe Line Co. - 236 Dolomite
18 LS - 146'
18 LS - 145'
LS - 80'
LS - 150'
lime - 245' Lakeview Subdivision
LS - 124'
LS - 175'
LS - 240'
LS - 190'
LS - 91'
1951 LS - 235'

Section 18

Section 18

shale-lime 307'
LS-115',
Rock-178'

Section 19 — check location closer

LS-115' Bills Wrecking
LS-185'
LS-180'
LS-175'
LS-180'
LS-225'
LS-160'
- Commonwealth Edison 1,525' Shale
- American Can Co. - 1,372' sand + LS
1,594' LS + Shale

- LS-200'

Section 20

LS-185'
Lime-135'
shale-145' - Joliet Wrought Washer Co.
Rock-240'
LS-105'

~~Sec~~ S20

LS-185' Section 20
LS-205'
Rock-100'
Rock-170'
Commonwealth Edison 1,494' lime
Lincoln Stone Co. LS-280'
Rockdale City Wells - 660' ss short version
1,586' lime
1,585 —

LS-220
Rock-153
- American Steel + Wire, Rockdale 950' sandy shale
- LS-103'

T. 33 N., R. 10 E.

Section 30 check locations

1,055 lime 1,998

890' SS

1519' Sand & lime

also have [illegible] in Section 29

- Blockson Chemical Co. 1510' LS

- 1525' shale & lime Public Service Co. (Com Ed?)

- Catepillar Tractor 1,540 COPY WELL LOGS

1,420'

15 520 1510

15 520 1519

1700 200 890

~~1055~~?

1555

600 500 1535?

1835 1895 1498

Town Joliet Township Joliet Map No. 8
Company S. B. Geiger & Co. No. R. 10E
Farm Blockson Chemical Co. No. 2 T. Sec.
Authority S. B. Geiger & Co. 35 30
Elevation 560 T.M. N
Collector
Confidential Date Drilled 1941
15' S. line, 520' E. line of NE

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Clay and broken lime	7		7	
	Limestone	113		120	
	Lime, broken and shale	55		175	
	Shale	73		248	
	Limestone	340		588	
	Lime and sand	3		591	
	Sandstone	156		747	
	Shale	1		748	
	Limestone	12		760	
	Rock, red	40		800	
	Limestone	196		996	
	Shale	2		998	
	Limestone	217		1215	
	Limestone, green shale breaks	75		1290	
	Limestone	42		1332	
	Sand	163		1495	
	Limestone, dark	15		1510	

Hole reduced from 17" to 12½" at 523'
Hole reduced from 12½" to 10" at 1291'
Shot the well with 400# of Blasting Gelatin between the depths of 1455' and 1470'
Shot the well with 800# of Blasting Gelatin between the depths of 1420' and 1450'
Casing record; 526'9" 12" pipe, shoe on bottom
770'4" 10" pipe, shoe on bottom
Bottom of casing 1291'

After setting seal water lowered from 56' to 179' "Petroleum odor. Small amount of methane in analysis." State Water Survey Report

COUNTY Will INDEX NO. 0830
DRILL RECORD 30-35N-10E

(A22187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-46)

(65600—60M—10-57)

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Clay & boulders		0	26
Lime & shale		26	615
Sand & shale		615	1085
Lime		1085	1255
Sandy lime		1255	1310
Lime		1310	1345
Sand		1345	1465
Sandy lime		1465	1535
			TD

Shot #1 300 qts. 1519-1439'
" #2 300 qts. 1430-1358'

30" hole 0-30'
26" hole 30-1000'
21¼" hole 1000-1290'
19" hole 1290-1535'

27" casing 0-30'
20" casing 0-1000' (cemented)
24" 1087-1147'
22" 1127-1167'
20" 1110-1190'

COMPANY Layne-Western Co. (Called #4 by plant)
FARM Blockson Chemical Co. NO. 5
DATE DRILLED 1951-52 COUNTY NO.
AUTHORITY
ELEVATION 566.74
LOCATION 600' S, 500' W, NE Cor.
COUNTY Will 30-35N-10E

(65600—60M—10-57)

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Surface		0	5
Lime		5	100
Shale		100	105
Lime		105	160
Shale		160	228
Lime		228	575
Sand		575	750
Sandy lime, shale		750	775
Lime		775	1215
Sand, lime		1215	1265
Lime		1265	1323
Sand		1323	1474
Lime		1474	1498
			TD

25" hole ~~from~~ to 1198' - reduced to
15" from 1198' - ?

20-1/4" casing to 1198'

Static water level 520'
Distance to water is 797' after
pumping at 869 GPM for 47½ hrs.

S.S. # 37311

COMPANY Layne-Western Co.
FARM Blockson Chemical Co. NO. 6
DATE DRILLED Sept. 1960 COUNTY NO. 1
AUTHORITY SWS
ELEVATION 542.74
LOCATION 1835' N. and 1895' W. of SE Cor.
COUNTY WILL

30.3c-35N-10E

(65600—60M—10-57)

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Clay		0	15
Sand & gravel		15	21
Limestone		21	218
Shale		218	280
Limestone		280	621
Sandstone		621	890
			TD

33" casing 0-30'

Static water level 286'
Distance to water is 500' after
pumping at 300 GPM for 5 hrs.

COMPANY Layne-Western
FARM Blockson Chemical Co. NO. 3
DATE DRILLED 1949 COUNTY NO.
AUTHORITY
ELEVATION 549
LOCATION 1700' N, 200' W, SE Cor.
COUNTY Will

30.0.k

30-35N-10E

Town Joliet Township Joliet Map No. 8
Company J. P. Miller Artesian Well Co. R. 10E
Farm Blockson Chemical Co. No. 1 T. 35 N Sec. 30
Authority
Elevation 560 TM
Collector
Confidential Date Drilled
168' S. line, 580' E. line of NE

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	From driller's log, correlated by State Geological Survey, 1941				
	PLEISTOCENE SYSTEM				
	Glacial till	8		8	
	SILURIAN SYSTEM				
	Niagaran and Alexandrian dolomite, water-bearing	127		135	
	ORDOVICIAN SYSTEM				
	Maquoketa formation				
	Shale and dolomite	40		175	
	Shale	70		245	
	Galena-Platteville dolomite	340		585	
	St. Peter formation				
	Sandstone, water-bearing	160		745	
	Shale and chert, cavey	15		760	
	ORDOVICIAN AND CAMBRIAN SYSTEMS				
	Oneota, Jordan and Trempealeau dolomites	440		1200	
	Franconia sandstone, dolomite, and shale	135		1335	
	Galesville (Dresbach) sandstone, water-bearing	160?		1495?	
	Eau Claire formation	24	6	1519	6

COUNTY Will
DRILL RECORD
INDEX NO. 0830
30-35N-10E
(A32187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

Town Joliet Township Joliet Map No. 8
Company J.P.Miller Artesian Well Co. R. 10E
Farm Blockson Chemical Co. No. 1 T. 35 N Sec. 30
Authority F. J. Link (Mil.Art.Well Co.)
Elevation
Collector L. E. W.
Confidential Date Drilled 1925
168' S. line, 580' E. line of NE

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	4 mi. SW of Joliet along Santa Fe track				
	Surface	8		8	
	Limestone	167		175	
	Shale	70		245	
	Limestone	340		585	
	St. Peter	160		745	
	Lime, broken and marl, red	15		760	
	Limestone	440		1200	
	Lime mixed with shale	96		1296	
	Limestone	39		1335	
	Sand and lime	30		1365	
	Sand below, not finished				
	Total depth			1519	6
	15" hole to 497'				
	10" hole 497' to 1296'				
	8" hole 1296 -- will finish in Potsdam sandstone				
	10" wrought steel casing 0-501' overlap 13 ft. lead seal				
	8" casing 488'-1296'				

COUNTY Will
DRILL RECORD
INDEX NO. 0830
30-35N-10E
(A32187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom
Clay & broken		0	7
Limestone		7	120
Broken lime and shale		120	175
Shale		175	248
Limestone		248	588
Lime and sand		588	591
Sandstone		591	747
Shale		747	748
Limestone		748	760
Red rock		760	800
Limestone		800	996
Shale		996	998
Limestone		998	1215
Limestone, green shale breaks		1215	1290
Limestone		1290	1332
Sand – I.C. sale. – 135'		1332	1495
Dark limestone		1495	1510
			TD

Casing: 12" surface - 527', shoe on bottom,
10" 523 - 1291', shoe on bottom.

Hole reduced from 17" to 12½" at 523.
Hole reduced from 12½" to 10" at 1291'.

Shot the well with 400# of blasting gelatin between the depths of 1455 and 1470'.
Shot the well with 800# of blasting gelatin between the depths of 1420 and 1450'.

After setting seal water lowered from 56' to 179'.
Petroleum odor. Small amount of methane in analysis - State Water Survey - June 24, 1941. (Cont.)

S.S. #6133

COMPANY S.B. Geiger & Company
FARM Blockson Chemical Co. NO. 2
DATE DRILLED 1941 COUNTY NO. 1259
AUTHORITY Company
ELEVATION 547' T.M.
LOCATION 15' S line, 520' E line of NE
COUNTY WILL

30-35N-10E

Town Joliet Township Joliet Map No. 8
Company S. B. Geiger & Co. No. R. 10E
Farm Blockson Chemical Co. No. 2 T. 35 Sec. 30
Authority N
Elevation ~~547'TM~~
Collector 547
Confidential Date Drilled 1941
15' S. line, 520' E. line of NE

From sample-study log by State Geological Survey, 1941

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	PLEISTOCENE SYSTEM				
	Glacial till	7		7	
	SILURIAN SYSTEM				
	Niagaran and Alexandrian dolomites	118		125	
	ORDOVICIAN SYSTEM				
	Maquoketa formation				
	Shale and dolomite	40		165	
	Shale	83		248	
	Galena-Platteville dolomite	343		591	
	Glenwood sandstone	3		594	
	St. Peter formation				
	Sandstone, water-bearing	153		747	
	Shale, weak, cavey	1		748	
	Shakopee dolomite	37		785	
	New Richmond sandstone	7		792	
	Oneota dolomite	203		995	
	CAMBRIAN SYSTEM				
	Jordan dolomite and sandstone	95		1090	
	Trempealeau dolomite	120		1210	
	Franconia dolomite and sandstone	125		1335	
	Galesville sandstone, water-bearing	160		1495	
	Eau Claire shaly sandstone	15		1510	

COUNTY Will INDEX NO. 0830
DRILL RECORD

AU OF ENVIRONMENTAL HEALTH, 535 WEST
'01. DO NOT DETACH GEOLOGICAL/WATER
E PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-30-76

Channahon Public School Dist. #17

10. Property owner _____ Well No. 1

Address Channahon

Driller Charles Fykes License No. 102-23

11. Permit No. 52771 Date 9-29-76

12. Water from Sandstone (Formation) 13. County Will

at depth 485' to 685 ft.

14. Screen: Diam. _____ in.

Length: _____ ft. Slot _____

Sec. 7

Twp. 34N

Rge. 9E

Elev. _____

SHOW LOCATION IN SECTION PLAT

NW SE NE
(permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
8"	A-53 28.55 lbs	0	141

16. Size Hole below casing: 8 in.

17. Static level 280 ft. below casing top which is +1 ft. above ground level. Pumping level 475 ft. when pumping at 150 gpm for 12 hours. Sub pump set at 399'.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	2'	2'
Gravel	50'	52'
Limestone	18'	70'
Shale	70'	140'
Limestone	345'	485'
Sandstone	200'	685'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE 2-19-80

COUNTY No. 27996

WILL 7-34N-9E

NSUMER HEALTH PROTECTION, 535 WEST
761. DO NOT DETACH GEOLOGICAL/WATER
E PROPE[illegible] LOCA[illegible]

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed December 15, 1978

10. Property owner Village of Minooka Well No. Test Well
Address Minooka, IL
Driller R. H. Wehling License No. 102-223
11. Permit No. 82657 Date 12/1/78
12. Water from _____ (Formation) 13. County Will
at depth ____ to ____ ft. Sec. 7
14. Screen: Diam. ____ in. Twp. 34N
Length: ____ ft. Slot ____ Rge. 9E
3550'S & 2900'W of NE of above Elev. ____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
1¼"	galv. pipe	+1 ~~40~~	40

SHOW LOCATION IN SECTION PLAT
3550'NL 2900'
EL NE
(permit)

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

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand and gravel	30	30
Clay	2	32
Gravel	10	42

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED J Wehling DATE 1/9/79
Wehling Well Works, Inc.

WILL COUNTY NO. 26846 7-34N-9E

SUMER HEALTH PROTECTION, 535 WEST
51. DO NOT DETACH GEOLOGICAL WATER
E PROPER[illegible] LOCATI[illegible]

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 3-28-80

10. Property owner Village of Minooka Well No. 5
Address Minooka, Ill.
Driller R. H. Wehling License No. 102-223
11. Permit No. 93106 Date March 24, 1980
12. Water from _____ (Formation) 13. County Will
at depth ____ to ____ ft. Sec. 7
14. Screen: Diam. ____ in. Twp. 34N
Length: ____ ft. Slot ____ Rge. 9E
3550'S 2900'W NEc Elev. ____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
30"	Black steel	0	40'

SHOW LOCATION IN SECTION PLAT
3550'NL 2900'E
SE NE SW
(permit)

16. Size Hole below casing: ____ in.
17. Static level 15' ft. below casing top which is ____ ft. above ground level. Pumping level 26' ft. when pumping at 550 gpm for 6 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand and Rocks	7	7
Clay	1	8
Overburden	33	41

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Richard H. Wehling DATE [illegible]

WILL COUNTY No. 28252 7-34N-9E

SUMER HEALTH PROTECTION, 535 WEST
61. DO NOT DETACH GEOLOGICAL/WATER
E PROPER LOCATI

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 10-30-80

10. Property owner Midwestern Gas Well No. _____
Address Box 373 Vincennes, Ind
Driller Will-DuPage Drilling License No. 102-000445
11. Permit No. 96978 Date 10-28-80
12. Water from Limestone (Formation) 13. County Will
at depth _____ to _____ ft. Sec. 10
14. Screen: Diam. _____ in. Twp. 34N
Length: _____ ft. Slot _____ Rge. 9E
Elev. _____

SHOW LOCATION IN SECTION PLAT

NE NW NW
(permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Black Steel 14.98	0	40

16. Size Hole below casing: 5 in.
17. Static level 20 ft. below casing top which is 1 ft. above ground level. Pumping level 20 ft. when pumping at 10 gpm for 4 hours. Sub pump at 60'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay & Gravel	40	40
Limestone	60	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ronald Rob DATE 11-8-80

COUNTY No. 28254

WILL

10-34N-9E

UMER HEALTH PROTECTION, 535 WEST
1. DO NOT DETACH GEOLOGICAL/WATER
PROPER ... LOCATI

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 3-77

10. Property owner Glidden Durkee Well No. 2
Address Joliet Illinois
Driller R. H. Wehling License No. 92-598
11. Permit No. 57026 Date 2-24-77
12. Water from _____ (Formation) 13. County Will
at depth ____ to ____ ft. Sec. 21
14. Screen: Diam. ____ in. Twp. 34N
Length: ____ ft. Slot ____ Rge. 9E
500'N 95'E SWc Elev. ____

SHOW LOCATION IN SECTION PLAT
500'SL 95'WL SW (permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
18		0	36
12-3/4	Cemented	0	918

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

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	8	8
Drift with broken rock	15	23
Shale with broken rock	50	73
Lime	39	112
Shale	86	198
Brown Lime	45	243
Lime	305	548
Sand	275	823
Lime with red shale	65	888
Lime	335	1223
Sand with lime strings	210	1433
Sand	105	1538
Shale	17	1555
* Industrial well		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED R. H. Wehling DATE 3-24-77

COUNTY No. 26096

WILL 21-34N-9E

(36941—50M—2-67)27-0

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

(8)

Permit No. 8021	Thickness	Top	Bottom
Drift		0	12
(Broken lime 4-12')			
Niagaran Dolomite		12	25
Maquoketa Shale — Top, 505'		25	196
(Some lime 82-118')			
Galena Platteville Dolomite - Top, 334'		196	558
St. Peter Sandstone - Top, - 25'	347	558	905
(Caving Formation			
Base of St. Peter 802-905')			
Trempealeau (sharp lime)		905	1370
Franconia (sand and lime)		1370	1403
Galesville Sandstone — Top - 873'	146'	1403	1549
Shale		1549	1555
Total Depth			1555

Diameter of well: 12" to 846'.
10" to 1549'.

Casing: 20" - 0-12'.
16" - 0-200'.
12" - 0-858'. Cemented
10" - 836½-905'.

Bottom of shot 1549'.

Non-pumping 210'.

After pumping for 24 hours at rates from 500 to 1025 gallons per minute, drawdown was 200'.

Graphic Log filed.
Pumping data filed including test before shot.

S.S. #56817

*Drilled for industrial purposes

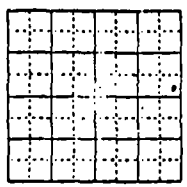
COMPANY Wehling Well Works
FARM *Glidden Durkee NO.
DATE DRILLED February 17, 1970 COUNTY NO. 1815
AUTHORITY Company
ELEVATION 530
LOCATION 800' S line, 50' W line of SW
COUNTY WILL 21-8b 21-34N-9E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Drift		0	3
Light coarse lime		3	35
Light lime, some hard		35	40
Lime, some dark gray to brown		40	55
Dark coarse lime		55	60
Dark coarse lime, showing shaley lime at 65'		60	70
Shaley lime dark		70	75
Shaley lime and shale breaks		75	95
Light lime		95	129
Shale, brown		129	140
Shale		140	201
Brown lime		201	215
Lime, charcoal to light gray		215	225
Light gray lime		225	405
Lime, some darker		405	410
Blue lime		410	441
Light gray lime		441	465
Light gray lime hard		465	535
St. Peter sand		535	722
Sandy lime		722	727
Green and brown shale		727	730
Lime and shale		730	735
Lime, gray		735	795
Hard gray lime		795	870
Lime, hard gray		870	955
Hard light gray lime		955	1190
Green shaley lime		1190	1248
Brown lime		1248	1275
Hard brown lime		1275	1290
Hard sandy lime		1290	1320
Galesville sandstone		1320	1405

Fl 29

COMPANY Miller Well Company
FARM Caterpillar Tractor Co. NO. 3
DATE DRILLED August, 1960 COUNTY NO. 1198
AUTHORITY Miller Well Company
ELEVATION
LOCATION 33'E line, 2456'N line, of NE
COUNTY WILL



25-35N-9E

Strata	Thickness	Top	Bottom
Sand and brown lime		1405	1415
Soft sand		1415	1420
Medium sand		1420	1440
Hard sand		1440	1460
Medium to soft sand		1460	1465
Soft sand		1465	1490
Green shale and green lime		1490	1500
Shale and hard lime		1500	1505
Green shale and lime		1505	1556
			TD

Size of well; 30", surface to 12'
24" to 602'
19½" to 841'

Casing; 80" 0-7'
20" Surface to 595'

Liner 160+, Top = 673', Bottom = 841'

S.S.# 36622

#3

Miller Well Company Caterpillar Tractor Co.
COUNTY WILL 25-35N-9E

Strata	Thickness	Top	Bottom
Summary Sample Study by Albert Glover - 12/61.			
No samples	5		5
SILURIAN SYSTEM			
Alexandrian Series			
Kankakee Formation			
Dolomite, slightly silty, slightly glauconitic, buff, finely crystalline, little very fine and medium, slightly porous	10		15
Edgewood Formation			
Dolomite, slightly silty, cherty, (milky), light gray to light buff, fine to medium crystalline	10		25
Dolomite, as above, white to light gray, finely crystalline	10		35
Dolomite, cherty (milky, gray), light gray, brownish-gray, finely crystalline; little siltstone, dolomitic, brownish-gray, brittle	10		45
Dolomite, cherty, silty, brownish-gray, fine to very finely crystalline, slight speckled (black); little siltstone, dolomitic, brownish-gray, brittle	20		65
ORDOVICIAN SYSTEM			
Cincinnatian Series			
Maquoketa Formation			
Dolomite, silty, brownish-gray to dark gray, very finely crystalline, little fine, slight speckled (black);			

COMPANY Miller Well Company
FARM Caterpillar Tractor Co. NO. 3
DATE DRILLED August 1960 COUNTY NO. 1198
AUTHORITY Albert Glover
ELEVATION ~~645'G.L.~~ 550'
LOCATION 33'E line, 2456'N line, NE
COUNTY WILL S.S. #36622 25-35N-9E

Strata	Thickness	Top	Bottom
shale partings, dolomitic, brownish-gray, brittle to weak	15		80
Shale, argillaceous, dolomitic, gray to green, brittle to weak, little tough	10		90
Dolomite, slightly glauconitic, white, medium crystalline, slightly porous, pyritic	10		100
Dolomite, light buff to light gray, medium crystalline, porous, slightly speckled (black)	15		115
Dolomite, slightly silty, light buffish-gray, fine to medium crystalline	10		125
Dolomite, slightly silty, light gray, fine to medium crystalline; little shale partings, dolomitic, brown, tough to weak	10		135
Shale, dolomitic, argillaceous, brown, brittle to weak; little dolomite, argillaceous, brown, very finely crystalline, slightly speckled (black).	60		195
Shale, argillaceous, brownish-gray, little light gray, weak; little dolomite, as above	6		201
Champlainian Series			
Galena Formation			
Dolomite, slightly silty, buff, little grayish-buff, medium to finely crystalline	14		215
Dolomite, slightly silty, grayish-buff to buff, medium to finely crystalline, slightly porous, slightly speckled (black)	40		255
Dolomite, slightly silty, buff to grayish-buff, medium to finely			

#3
Miller Well Company Caterpillar Tractor Co.
COUNTY WILL S.S. #36622 25-35N-9E

Strata	Thickness	Top	Bottom
crystalline, slightly porous	30		285
Dolomite, as above, little gray, medium crystalline	30		315
Dolomite, slightly silty, buff, medium crystalline, slightly porous	35		350
Dolomite, as above, little gray, slightly speckled (black)	35		385
Dolomite, slightly silty, buff to grayish-buff, fine to medium crystalline, slightly porous	20		405
Limestone, dolomitic, buff, to light buff, fine to very finely crystalline, little medium	5		410
Decorah Formation			
Limestone, dolomitic, slightly silty, buff, little gray and brown, finely crystalline, trace speckled	15		425
Platteville Formation			
Dolomite, carbonaceous, slightly silty, gray, little grayish-buff, fine to very finely crystalline, slightly mottled	16		441
Dolomite, buff, fine to very finely crystalline	24		465
Dolomite, light gray, little light buff, fine to very finely crystalline, slightly porous	30		495
Dolomite, buff to grayish-buff, very fine to finely crystalline	20		515
Dolomite, slightly silty, light gray to gray, little grayish-buff, very fine to finely crystalline	15		530
Dolomite, sandy, light buff to gray, finely crystalline	5		535

Strata	Thickness	Top	Bottom
Glenwood Formation			
Sandstone, white, fine to medium grained, little coarse, subrounded to subangular, incoherent	35		570
Sandstone, as above, fine to coarse grained	40		610
Chazyan Series			
St. Peter Formation			
Sandstone, white, fine to medium grained, little very fine, subrounded to subangular, incoherent	35		645
Sandstone, as above, fine to very fine grained, little medium	20		665
Sandstone, as above, fine to medium grained, little very fine	30		695
Sandstone, as above, fine to very fine grained, little medium	10		705
Sandstone, as above, fine to medium grained, little very fine	15		720
Sandstone, as above, very cherty (oolotic, white to yellow)	7		727
Shale, cherty, slightly sandy, red, green, light gray, plastic	6		733
Prairie du Chien Series			
Shakopee Formation			
Dolomite, partly sandy, slightly silty, brownish-buff to light buff, medium to finely crystalline	7		740
Dolomite, slightly silty, brownish-buff, fine to medium crystalline	5		745
Dolomite, light buff to buff, fine to medium crystalline	15		760
Dolomite, as above; interbedded with little dolomite, sandy,			

Strata	Thickness	Top	Bottom
light buff, finely crystalline	15		775
Dolomite, as above, cherty (oolitic); interbedded with dolomite, sandy, light buff, finely crystalline	10		785
Dolomite, sandy, cherty, white, brownish-buff, finely crystalline, little medium; shale partings, slight sandy, green, dark brown to gray, brittle to weak	5		790
Dolomite, light buff, medium crystalline, little fine; shale partings as above; interbedded with little dolomite, sandy, white, finely crystalline	35		825
New Richmond Formation			
Dolomite, extremely cherty (oolitic), slightly sandy, white, very finely crystalline	10		835
Oneota Formation			
Dolomite, cherty, (oolitic), white to pinkish buff, medium to coarsely crystalline	10		845
Dolomite, white, medium to coarsely crystalline	10		855
Dolomite, pink, little light pink to white, coarsely crystalline	25		880
Dolomite, pink, little light green, coarsely crystalline, little fine	5		885
Dolomite, cherty (oolitic), pink to light buff, fine to coarsely crystalline	5		890
Dolomite, pink, medium to coarsely crystalline	15		905
Dolomite, as above, very cherty (oolitic), fine to medium			

Strata	Thickness	Top	Bottom
crystalline	20		925
Dolomite, buff, fine to very finely crystalline, little medium	25		950
Gunter Formation			
Dolomite, slightly sandy, pinkish-buff, little grayish-buff, fine to medium crystalline	45		995
CAMBRIAN SYSTEM			
Croixan Series			
Trempealeau Formation			
Dolomite, light buff to white, very finely crystalline to lithographic, little fine to medium	60		1055
Dolomite, as above, fine to very finely crystalline, geodic quratz	25		1080
Dolomite, light buff, little buff to brownish-buff, very finely crystalline to lithographic, geodic quartz	30		1110
Dolomite, buff to pinkish-buff, fine to very finely crystalline, geodic quartz	40		1150
Dolomite, as above; interbedded with little dolomite, sandy, white, finely crystalline	20		1170
Dolomite, reddish-buff, fine to very finely crystalline, geodic quartz	5		1175
Franconia Formation			
Dolomite, slightly sandy to very sandy at bottom, glauconitic, pinkish-buff, light gray, finely crystalline, little medium	15		1190
Sandstone, glauconitic, white,			

Strata	Thickness	Top	Bottom
fine to medium grained, subangular, incoherent; interbedded with little dolomite, very sandy, glauconitic, pinkish-buff, fine to medium crystalline	7		1197
Dolomite, very sandy, very glauconitic, light pinkish-buff, little light gray to dark gray, fine to medium crystalline	18		1215
Dolomite, very sandy, very glauconitic, gray to light gray, finely crystalline; interbedded with sandstone, glauconitic, white, fine grained, subangular, incoherent	20		1235
Dolomite, as above, little buff, finely crystalline	5		1240
Dolomite, glauconitic, buff, coarsely crystalline, little medium	5		1245
Dolomite, slightly glauconitic, buff, finely crystalline, little medium	40		1285
Dolomite, as above, little medium crystalline; interbedded with dolomite, slightly sandy, slightly glauconitic, buff, fine to medium crystalline	5		1290
Ironton-Galesville Formation			
Dolomite, slightly glauconitic, slightly sandy (medium), buff to light gray, fine to medium crystalline; little sandstone, glauconitic, white, medium, little fine and coarse, incoherent	5		1295
Sandstone, slightly glauconitic, light gray, fine to medium grained,			

Strata	Thickness	Top	
little coarse, incoherent, grading to dolomite, very sandy, buff to light buff, fine to medium crystalline	10		1
Sandstone, as above, grading to dolomite, slightly silty, light buff to buff, medium to finely crystalline	5		1
Sandstone, white, medium to coarse, little fine and very coarse, incoherent, grading to dolomite, sandy, light buff, to light gray, finely crystalline	10		1
Sandstone, light gray, fine to medium, little coarse, incoherent; little dolomite, very sandy, light buff, finely crystalline	5		1
Sandstone, silty, light gray, medium, little coarse and fine, incoherent; dolomite, sandy to slightly sandy, light buff to light brown, finely crystalline	5		13
Sandstone, light gray, fine to medium, little coarse, incoherent; little dolomite, sandy, light brown to light buff, finely crystalline, oolitic	10		13
Sandstone, white, medium to fine, little coarse to very coarse, incoherent; little dolomite, very sandy, light buff	5		13
Sandstone, silty, light gray, fine to medium, little coarse and very fine, incoherent; little dolomite, slightly sandy, light buff finely crystalline	5		13
Sandstone, white, medium little			

Strata	Thickness	Top	Bottom
fine and coarse, incoherent; dolomite, little buff to buff, very finely crystalline	10		1360
Sandstone, white, fine to very fine, little medium to coarse, subrounded to subangular, incoherent	5		1365
Sandstone, white, medium to fine, little very fine and coarse, incoherent; little dolomite, sandy, light buff, very finely crystalline	5		1370
Sandstone, white, fine to very fine, little medium and coarse, incoherent; little dolomite, sandy, buff to light buff, finely crystalline	5		1375
Sandstone, white, fine to medium, little very fine and coarse, incoherent; little dolomite, sandy, buff, finely crystalline	5		1380
Sandstone, white, fine to very fine, little medium and coarse, incoherent	10		1390
Sandstone, white, fine to coarse, little very fine and very coarse, incoherent	5		1395
Sandstone, white, fine to medium, little very fine and coarse, incoherent	5		1400
Sandstone, white, fine to coarse, little very fine and very coarse, incoherent; little dolomite, sandy, light buff, finely crystalline	5		1405
Dolomite, very sandy, light buff to pinkish-buff, little brownish-			

Strata	Thickness	Top	Bottom
buff, finely crystalline, pyritic	10		1415
Sandstone, white, medium to very fine, little coarse, incoherent; little dolomite, slightly sandy, buff to light buff, very finely crystalline	10		1425
Sandstone, white, fine to very fine, little medium, incoherent	10		1435
Sandstone, white, medium to very coarse, little fine to very fine, incoherent; little dolomite, yellow to light buff, very finely crystalline	5		1440
Sandstone, white, fine to medium, little very fine and coarse, incoherent; little dolomite, yellow to yellowish-buff, very finely crystalline	5		1445
Sandstone, white, fine to very fine, little medium, incoherent	10		1455
Sandstone, white, fine to medium, little coarse and very fine, incoherent; little dolomite, light buff to yellowish-buff, very finely crystalline	5		1460
Sandstone, white, fine, little very fine and medium, incoherent	10		1470
Sandstone, white, medium to fine, little very fine, incoherent; little shale, sandy, buff, weak	10		1480
Sandstone, white, fine to very fine, incoherent	5		1485
Sandstone, white, medium to fine, little very fine and coarse, incoherent; little dolomite,			

Strata	Thickness	Top	Bottom
yellowish-buff to light buff, little brown, very finely crystalline	5		1490
Dolomite, sandy, argillaceous, brownish-gray, finely crystalline, pyritic	5		1495
Eau Claire Formation			
Shale, slightly sandy, greenish-gray, brittle to weak, grading to siltstone, slightly sandy, greenish-gray; little dolomite, slightly sandy, glauconitic, brownish-gray, finely crystalline	5		1500
Dolomite, slightly sandy, glauconitic, brownish gray, finely crystalline; little shale, as above	5		1505
Shale, slightly sandy, greenish-gray, weak; little dolomite, as above.	5		1510
Dolomite, slightly sandy, glauconitic, buff, very finely crystalline; little shale, as above, brittle to weak	10		1520
Shale, slightly sandy, greenish-gray, brittle to weak; little dolomite, as above.	5		1525
Dolomite, slightly sandy, glauconitic, buff, very finely crystalline; little shale, as above, tough to weak	10		1535
Shale, slightly sandy, greenish-gray, brittle to weak; little dolomite, as above	10		1545
Dolomite, slightly sandy, glauconitic, buff, very finely crystalline; little shale, as above	11		1556

Miller Well Company Caterpillar Tractor Co. #3

COUNTY Will S.S. #36622 25-35N-9E

Town Joliet Township Joliet Map No. 8
Company F. W. Dittmyer Co. No. R. 10E
Farm St. Francis Convent No. T. 35 N Sec. 9
Authority NE SW NW
Elevation 640
Collector
Confidential Date Drilled 1937

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	From sample study by State Geological Survey				
	PLEISTOCENE SYSTEM				
	Glacial drift	60		60	
	SILURIAN SYSTEM				
	Niagaran and Alexandrian dolomites	110		170	
	ORDOVICIAN SYSTEM				
	Maquoketa formation				
	Dolomite	40		210	
	Shale and dolomite	100		310	
	Galena-Platteville dolomites	345		655	
	Glenwood sandstone and dolomite	15		670	
	St. Peter sandstone	275		945	
	No record	3		946	

9.75

COUNTY Will
DRILL RECORD
INDEX NO. 0808
9-35N-10E
(A32187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

Town Joliet Township Joliet Map No. 8
Company Ohio Drilling Co. No. R. 10E
Farm Joliet City-Ruby Street No. T. 35 N Sec. 9
Authority
Elevation 545 T. M.
Collector
Confidential Date Drilled 1915
565' N. line, 470' E. line of sec.

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	From sample study log by State Geological Survey				
	SILURIAN SYSTEM				
	Niagaran and Alexandrian dolomite, water-bearing	180		180	
	ORDOVICIAN SYSTEM				
	Maquoketa shale	80		260	
	Galena-Platteville dolomite	340		600	
	St. Peter sandstone, water-bearing	390		990	
	ORDOVICIAN-CAMBRIAN SYSTEMS				
	Oneota-Jordan-Trempealeau dolomites and sandstones	240		1230	
	CAMBRIAN SYSTEM				
	Franconia dolomite and sandstone	120		1350	
	Galesville sandstone, water-bearing	130		1480	
	Eau Claire dolomite and shale	80		1560	

COUNTY Will
DRILL RECORD
INDEX NO. 0809
9-35N-10E
(A32187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

(6)

Town Joliet Township Joliet R. 10E
Company L. Wilson Co. No.
Farm Joliet City-Ottawa St. No. T. 35 N Sec. 9.1d
Authority
Elevation
Collector
Confidential Date Drilled 1907
375' from N. line, 465' from E. line of SE

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	From sample study log by State Geological Survey.				
	SILURIAN SYSTEM				
	Niagaran and Alexandrian dolomite, water-bearing	218		218	
	ORDOVICIAN SYSTEM				
	Maquoketa shale	140		358	
	Galena-Platteville dolomite	360		718	
	St. Peter formation				
	Sandstone, water-bearing	410		1128	
	Shale and marl	59		1187	
	CAMBRIAN SYSTEM				
	Trempealeau dolomite, Franconia dolomite and sandstone, and Galesville sandstone	409		1596	
	Eau Claire shale	25		1621	

9.1d

COUNTY Will 9-35N-10E

(40430—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (3-43) 2

Town Joliet Township Joliet Map No. 8
Company Ohio Drilling Co. No. R. 10E
Farm Joliet City-Canal & Div. Sts. T. 35 N Sec. 9
Authority
Elevation 532
Collector
Confidential Date Drilled
2640' N. line, 1025' E. line

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	From sample Study log by State Geological Survey				
	PLEISTOCENE SYSTEM				
	Glacial drift	3		3	
	SILURIAN SYSTEM				
	Niagaran & Alexandrian dolomite, water-bearing	212		215	
	ORDOVICIAN SYSTEM				
	Maquoketa formation				
	Dolomite	10		225	
	Shale, some dolomite	70		295	
	Galena-Platteville dolomite	325		620	
	St. Peter sandstone, water-bearing	200		820	
	Shakopee-Oneota dolomites	225		1045	
	CAMBRIAN SYSTEM				
	Jordan sandy dolomite	30		1075	
	Trempealeau dolomite	165		1240	
	Franconia sandstone and dolomite	90		1330	
	Galesville sandstone, water-bearing	185		1515	
	Eau Claire sandstone and dolomite	55		1570	

COUNTY Will INDEX NO. 0809
DRILL RECORD 9-35N-10E

(A22187—30M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40) 1

(65600—60M—10-57)

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Drift	60	0	60
Light lime hard	5	60	65
Lime changing gray	10	65	75
Dark gray lime hard	35	75	110
Lime light gray	20	110	130
Lime changing to lt. brown	20	130	150
Gray lime	40	150	190
Gray lime med.	10	190	200
Gray shaly lime	30	200	230
Shale and dark lime	10	230	240
Gray shaly lime	40	240	280
Squeeze	5	280	285
Lime streak	5	285	290
Gray shale (water at 75')	20	290	310
Dark brown shale	53	310	363
Brown lime med.	117	363	480
Light brown lime med.	80	480	560
Brown lime	30	560	590
Dark green lime	14	590	604
Brown lime hard	16	604	620
Hard brown lime	20	620	640
Light brown lime	15	640	655
Brown lime	45	655	700
Sandy lime	4	700	704
St. Peter sand	271	704	975
Medium hard sand	8	975	983
Soft sand	47	983	1030
Hard brown sand	9	1030	1039
Shale blue	5	1039	1044
Hard lime shells	6	1044	1049
Green shale	46	1049	1095
Sandy lime and shale	15	1095	1110
Shaley lime	5	1110	1115

COMPANY J. P. Miller
FARM Joliet (west side well) NO.
DATE DRILLED 1964 COUNTY NO.
AUTHORITY SS# 49980 7.4b
ELEVATION 647
LOCATION 1350'W, 1200'N, SEc
COUNTY Will 7-35N-10E

(87329—20M—5-56)

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Lime and shale	15	1115	1130
White lime	20	1130	1150
Gray sand hard sharp	5	1150	1155
Gray sand lime streaks	10	1155	1165
Lime & shale breaks	35	1165	1200
Shale, sand & lime.	10	1200	1210
Shale, lime shells	10	1210	1220
Broken lime	30	1220	1250
Light gray lime hard	50	1250	1300
Green lime shaley	25	1300	1325
Green shaley lime	50	1325	1375
Gray lime	25	1375	1400
Light brown lime	25	1400	1425
Light brown sandy lime hard	23	1425	1448
Sand light brown	2	1448	1450
White sand	40	1450	1490
Medium white sand	10	1490	1500
Soft sand	46	1500	1546
Hard sand	4	1546	1550
Medium sand	25	1550	1575
Hard sand	20	1575	1595
Med sand	18	1595	1613
Black lime hard	11	1613	1624
Green lime & shale	2	1624	1626
Green & blue shale, tough	24	1626	1650
Gray shaley lime	21	1650	1671

Casing record: 26" 0-63'6",
20" 0-401', 18" 1006'-1103'
16" 1134-1256'

Hole size 25" 0-404'
19" 404'-1103'
17" 1103'-1256'
15¼" 1256'-1671'

COUNTY Will City of Joliet 7-35N-10E

Town Joliet Township Joliet Map No. 8

Company J. Wilson Co. Chicago

Name Crowley Ave. well, Joliet City Ottawa St. 0.12

Authority Udden 25

Elevation Hole No. 3 11

Collection Date Drilled 1907

Pub. Bull. 24 p. 40 375' N. line, 965' E. line of

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Limestone, gray fine-textured dolomitic	50		50	
	Limestone, gray faintly yellowish dolomitic	325		375	
	Limestone, gray dolomitic	255		630	
	Limestone, gray, dolomitic crushed fine by the drill	80		710	
	Sand, white, consisting of rounded coarse grains	90		800	
	Like the preceding	50		850	
	Sand, dull pinkish in color, of somewhat fine grains	50		900	
	Like the preceding	50		950	
	Sand, yellowish	50		1000	
	Sand, yellowish	50		1050	
	Sand, dull pinkish	50		1100	
	Sand, fine of vermilion color	35		1135	
	Clay, red with small embedded lumps of soft white material. Neither the red nor the white effervesces with acid	15		1150	
	Clay, of vermilion color; contains lumps of more stony material; has brownish gray specks and streaks. The stony fragments exhibit irregular slickensided joints				

County Will Index No. 9809

I.—DRILL RECORD 9-35N-10E

Sheet 2 T 35N R 10E S 9

Company Joliet City - Ottawa St. Hole No.

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	No part of the sample effervesces with acid	47		1197	
	Shale, mostly stone of vermilion red, brown, or almost black color, with some white or dull greenish shale. The sample also contained some white chert and some coarse, rounded grains of of sand	21		1218	
	Clay, red, a stony mixture, with greenish streaks. A large unbroken fragment, five inches long, showed slickensides. The sandy streaks are greenish gray in color	22		1240	
	Clay and sand with a small mixture of dolomitic material. A part of the sample is rusty red and some is greenish gray	70		1310	
	Sand, rusty-orange-colored more angular than typical St. Peter sand	90		1400	
	Limestone, dark gray, dolomitic, some white soft sandstone, and some fragments of green shale	162		1562	
	Like the preceding. The label has the note: "Water stands 143 feet below the surface"	3		1565	

County Will Index No. 9809

I.—DRILL RECORD 9-35N-10E

John C. Moore Corporation, Rochester, N.Y. Under and below its lenses, shall Patented [illegible]

(53066-2m

SHEET 3 T 35N R 10E S 9 1/2

COMPANY Joliet City - Ottawa St. HOLE No.

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Sand, gray of somewhat angular grains	2		1567	
	Clay, olive green, grayish, with rusty brownish streaks. Label has the note: "Bottom of the well"	54		1621	

This well repaired by C.W. Varner in 1937 - Water Survey, from City Council Proceedings

County Will Index No. 0809

T. DRILL RECORD.

9-368-103

3

Strata	Thickness	Top	Bottom
Sand gravel, rocks & clay		0	21
Lime		21	31
Lime & shale		31	47
Lime		47	52
Lime & shale		52	82
Lime		82	98
Shale		98	116
Lime, badly creviced		116	470
Sand		470	744
Shale		744	751
Lime		751	760
Lime & sand		760	791
Lime		791	886
Lime & shale		886	889
Lime, some shale streaks		889	953
Lime, hard		953	1124
Lime and sandy shale		1124	1178
Lime		1178	1209
Sand		1209	1225
Sandy lime		1225	1236
Lime		1236	1272
Sand		1272	1278
Sand		1278	1360
Lime		1360	1369
Sand		1369	1405
			TD

Casing Record:
31' of 20" diameter from 0-31'
470' of 16" diameter from 0-470'
113' of 12" diameter from 724-837'

16" cemented in 19¼" hole.
(continued on next page)

COMPANY Layne-Western
FARM Amoco Chemical Corp. NO. 2
DATE DRILLED May, 1958 COUNTY NO. 542
AUTHORITY Layne-Western
ELEVATION 573' ETM - G.H. Emrich
LOCATION 35' E line, 425' N line of the section
COUNTY WILL

10.1h

10-34N-9E

Strata	Thickness	Top	Bottom
Shot with 100% gel. 155# at 1390', 80# at 1370', 80# at 1345', 155# at 1320', 155# at 1280'			
Static level 325; pumping level 435 after 19 hours pumping at 760 gallons per minute. Length of test 22 hours.			
S.S.#31345			
Hole Record: 19" from 0-470' 15" from 470-837' 12" from 837-1189' 10" from 1189-1405'			

Strata	Thickness	Top	Bottom
Summary Sample Study by G. H. Emrich 2/59			
Pleistocene series			
Till, gravelly, yellowish-buff, oxidized, leached	10		10
Gravel, coarse; little till, sandy, yellowish-buff, oxidized, partly leached	11		21
ORDOVICIAN SYSTEM			
Cincinnatian series			
Maquoketa formation			
Dolomite, white to light gray, fine to medium, little coarse, crystalline, slightly speckled (brown, black)	10		31
Dolomite, light buff to light gray, fine, little medium, crystalline, slightly speckled	9		40
Dolomite, silty, light grayish-buff to light green, very fine, crystalline, slightly mottled	5		45
Shale, dolomitic, brown to grayish-brown, weak to tough	10		55
Shale, dolomitic, brown, tough; grading to little dolomite, very argillaceous, brown, very fine, crystalline	15		70
Shale, slightly dolomitic, brown to grayish-brown, tough, little weak	46		116
Mohawkian series			
Galena formation			
Dolomite, light gray to light buff,			

COMPANY Layne-Western
FARM Amoco Chemical Corp. NO. 2
DATE DRILLED 1958 COUNTY NO. 542
AUTHORITY G. H. Emrich
ELEVATION ~~673'~~ ETM 65'
LOCATION 35° E line, 425' N line of the section
COUNTY WILL S.S.#31345 10-34N-9E

Strata	Thickness	Top	Bottom
very fine, crystalline, slightly cherty 130-135'	34		150
Dolomite, buff to light grayish-buff, very fine to fine, crystalline	35		185
Dolomite, buffish-gray to grayish-buff, fine to very fine, crystalline	5		190
No sample	5		195
Dolomite, buffish-gray, fine to medium, crystalline, slightly speckled	5		200
Dolomite, grayish-buff to buff, fine to very fine, crystalline	35		235
Dolomite, light buffish-gray, very fine to fine, crystalline	10		245
Dolomite, buffish-gray to grayish-buff, fine, little medium, crystalline	45		290
Dolomite, partly calcareous, buffish-gray, very fine, crystalline	15		305
Dolomite, grayish-buff to light gray, very fine to fine, crystalline	10		315
Dolomite, calcareous, buff, very fine to fine, crystalline	5		320
Decorah formation			
Dolomite, very calcareous, buff to gray, very fine to fine, crystalline, slightly speckled (red)	5		325
Limestone, partly dolomitic, buff to brown, gray, extra fine to fine, crystalline, speckled (red, black), trace of shale partings	15		340

Layne-Western Amoco Chemical Corp. #2
COUNTY WILL S.S.#31345 10-34N-9E

Strata	Thickness	Top	Bottom
Platteville formation			
Limestone, partly slightly dolomitic, gray, little buff, extra fine to veryfine, crystalline	20		360
Dolomite, calcareous, buff, little gray, very fine, crystalline	20		380
Limestone, gray to buff, extra fine to very fine, crystalline, mottled	35		415
Dolomite buff to brown, very fine, crystalline, slightly speckled	10		425
Dolomite, calcareous, buff, very fine, crystalline	10		435
Limestone, partly dolomitic, brown to grayish-buff, extra fine to very fine, crystalline	22		457
Glenwood Formation			
Dolomite, very sandy, light gray to gray, very fine, crystalline; sandstone, white, coarse to medium, little fine, rounded, frosted, incoherent	3		460
Sandstone, white, coarse, fine, little medium, rounded, frosted, incoherent; dolomite, as above	5		465
Sandstone, silty, partly slightly dolomitic, light gray, medium to fine, little coarse, rounded, frosted, incoherent	5		470
Chazy series			
St. Peter formation			
Sandstone, white, fine to medium, rounded, frosted, incoherent	40		510
Sandstone, silty, white, fine to			

Strata	Thickness	Top	Bottom
medium, rounded, frosted, incoherent to friable	15		525
Sandstone, white, fine, little medium, rounded, frosted, incoherent	30		555
Sandstone, partly silty, white, medium to fine, little coarse, rounded, frosted, incoherent	40		595
Sandstone, white, coarse to medium, little fine, rounded, frosted, incoherent	15		610
Sandstone, silty, white, fine to medium, little coarse, rounded, frosted, incoherent	15		625
Sandstone, white , very fine to fine, little medium to coarse, rounded, frosted, incoherent	10		635
Sandstone, as above, slightly silty to silty	50		685
Sandstone, slightly silty to silty, white, fine to very fine, rounded, frosted, incoherent, no sample (700-05)	30		715
Sandstone, silty, white, fine to medium, little coarse, rounded, frosted, incoherent to friable	15		730
Sandstone, partly silty, white, coarse to medium, little fine to very fine, rounded, frosted, incoherent	14		744
Shale, gray, reddish-brown, green, weak to tough; sandstone, light pinkish-gray, medium to fine, little coarse, rounded, frosted, incoherent	7		751

Strata	Thickness	Top	Bottom
Prairie du Chein series			
Oneota formation			
Dolomite, partly sandy, buff to light buff, very fine, crystalline; little sandstone, slightly silty, white, coarse to medium, rounded, frosted, incoherent	19		7
Dolomite, buff to pinkish-buff, fine, little medium, crystalline	[illegible]		790
Dolomite, cherty, light gray to pinkish-gray, medium to fine, crystalline; little sandstone at base, partly dolomitic, white, medium to fine, rounded, frosted, incoherent, little compact	15		805
Dolomite, slightly cherty at top, light buff to pinkish-buff, fine to medium, crystalline	15		820
Dolomite, cherty, light gray to pinkish-buff, fine to medium, crystalline; sandstone, siliceous, reddish-brown, medium to fine, rounded, frosted, compact	5		825
Dolomite, pinkish-buff to light buff, medium, crystalline	5		830
Dolomite, cherty, light buff to pinkish-buff, fine to very fine, little medium & crystalline	15		845
Dolomite, pinkish-gray to light gray, medium, crystalline	15		860
Dolomite, buff to pinkish-buff, fine to medium, crystalline	25		885
Dolomite, light buff to buff, fine, little medium, crystalline	10		895
Dolomite, slightly cherty, light buff to pinkish-buff, fine to very fine, little medium, crystalline	5		900

Strata	Thickness	Top	Bottom
Sandstone, white, medium to very coarse, little fine, little angular, subrounded, frosted, incoherent; little dolomite, very cherty (oolitic), light gray to light pinkish-gray, very fine to fine, crystalline	10		910
CAMBRIAN SYSTEM			
St. Croixan series			
Trempealeau formation			
Dolomite, white to light gray, very fine, crystalline	40		950
No sample	5		955
Dolomite, slightly sandy to sandy, buff to pinkish-gray, very fine, crystalline, pyritic	15		970
Dolomite, buff to gray, very fine to extra fine, crystalline, pyritic; sandstone, white, coarse to medium, subrounded, frosted, incoherent, no sample 975-85', 990-995'	30		1000
Dolomite, light buff, very fine, crystalline; little sandstone, white, medium to coarse, little fine, rounded, incoherent	15		1015
Dolomite, light grayish-buff to buff, extra fine to very fine, crystalline, little geodic quartz, no sample 1030-35'	35		1050
Dolomite, buff to gray to pinkish-buff, very fine, crystalline	35		1085
Dolomite, buffish-gray to grayish-buff, very fine, crystalline	15		1100
Dolomite, buff, very fine, crystalline	5		1105

(84185—30M—1-54)

Strata	Thickness	Top	Bottom
Dolomite, very sandy, slightly glauconitic, buffish-gray to buff, fine, crystalline	10		1115
Franconia formation			
Sandstone, very dolomitic, glauconitic, greenish gray, very fine, compact; little shale, glauconitic, sandy, green, white, weak	15		1130
Sandstone, glauconitic, light gray, very fine to fine, incoherent; grading to sandstone, very dolomitic, gray, very fine, compact; little shale, glauconitic, light green, white, weak	30		1160
Sandstone, very dolomitic, silty, slightly glauconitic, greenish-gray to gray, very fine, compact; grading to dolomite, very silty, slightly glauconitic, slightly sandy, greenish-gray, very fine, crystalline	13		1173
Dolomite, silty, slightly sandy, gray to greenish-gray, very fine, crystalline	12		1185
Dolomite, buff to brown, very fine, crystalline	10		1195
Dolomite, slightly glauconitic, slightly sandy at base, brown to grayish brown, very fine, crystalline	14		1209
Sandstone, very dolomitic, glauconitic, silty, gray, very fine, compact; shale, slightly glauconitic, light greenish gray, weak	6		1215

Strata	Thickness	Top	Bottom
Sandstone, and dolomite, as above	5		1220
Dolomite, buff to brown, fine, crystalline	5		1225
Ironton-Galesville formation			
Dolomite, slightly sandy, buff, fine to medium, crystalline; little sandstone, white, medium to fine, little coarse to very coarse, rounded, frosted, incoherent	5		1230
Sandstone, white, medium to coarse, fine, little very coarse, rouned, frosted, incoherent; little dolomite, very sandy, buff to brown, very fine to fine, crystalline	10		1240
Sandstone, white, medium to fine, very doarse, little fine, little coarse, rounded, frosted, incoherent; dolomite, sandy to very sandy, brown to buff, very fine, crystalline	5		1245
Sandstone, white, fine to medium, coarse to very coarse, few granules, incoherent; little dolomite, slightly sandy to sandy, light buff to brown, very fine, crystalline	5		1250
Sandstone, white, fine to medium, little coarse, little fine, rounded, frosted, incoherent; dolomite, partly slightly sandy, light buff to light gray, fine to very fine, crystalline	10		1260
Sandstone, white, medium to coarse, little fine to very fine, rounded, frosted, incoherent; little dolomite, partly			

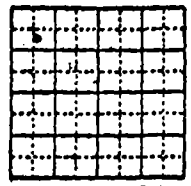
Strata	Thickness	Top	Bottom
slightly sandy, brown, very fine, crystalline	12		1272
Sandstone, white, very coarse to medium, little fine, little granular, rounded, frosted, incoherent, silty at base	28		1300
Sandstone, slightly silty, white, medium to very coarse, little fine, little granular, subrounded, frosted, incoherent	10		1310
Sandstone, white, very coarse to medium, little fine, little granular, rounded, frosted, incoherent	10		1320
Sandstone, white, very coarse to coarse, little medium to fine, rounded, frosted, incoherent	20		1340
Sandstone, white, medium to coarse, rounded, frosted, incoherent	15		1355
Sandstone, silty, white, medium, little fine, rounded, frosted, incoherent	5		1360
Sandstone, white, medium to fine, little coarse, little very fine, rounded, frosted, incoherent; little dolomite, very sandy, lighie brown to brown, very fine, crystalline	9		1369
Sandstone, white, fine to very fine, rounded, frosted, incoherent	21		1390
Sandstone, partly dolomitic, white to little light brown, fine to very fine, rounded, frosted, incoherent, little compact	5		1395
Sandstone, white, very fine,			

Strata	Thickness	Top	Bottom
rounded, frosted, incoherent; little dolomite, very silty, sandy, brown to light brown, very fine, crystalline	5		1400
Eau Claire formation			
Dolomite, slightly sandy, silty, brown to buff, very fine, crystalline	5		1405 TD

Strata	Thickness	Top	Bottom
Drift, sand and gravel		0	27
Lime		27	50
Shale		50	118
Lime, (crevices @ 367)		118	478
Sandstone		478	917
Lime and shale		917	934
Hard lime		934	939
Shale and lime		939	950
Lime and red shale		950	957
Sandy lime		957	963
Lime and shale		963	1024
Brown lime		1024	1030
Hard lime		1030	1037
Lime, shale and sand		1037	1049
Brown lime		1049	1153
Lime with shale streaks		1153	1188
Sandy lime		1188	1278
Lime		1278	1287
Sand		1287	1290
Sandy lime		1290	1297
Sand		1297	1397
Sandy lime		1397	1408
Sand		1408	1415
Lime		1415	1422

Casing: 28'6" - 20" diameter 3/8 thick, steel with joints from 0 to 28'6"
477' 16" diamater, 3/8 thick, steel with joints from 0 to 477'
65', 12" diameter, 45 lbs. steel, with joints from 886 to 951 perforated
90', 10" diameter, 35 lb. steel with joints from 940 to 1030 perforated.

COMPANY Layne-Western Company
FARM Amoco Chemical Corporation NO. 1
DATE DRILLED October 1957 COUNTY NO. 331
AUTHORITY Layne-Western
ELEVATION 571' Est. T.M.
LOCATION 820' N line 828' W line of NW NW
COUNTY WILL



11-34N-9E

Strata	Thickness	Top	Bottom

Hole Record: 19¼" from 0 to 477'
15¼" from 477 to 951'
12" from 951 to 1030'
10" from 1030 to 1422'

Cementing Record: 15¼" pipe in 19¼" hole 0 to 477'

Static level 307'

Pumping level 456' after 24 hours pumping at 800-824 gallons per minute

Length of test 24 hours

Shot Record: 156 lbs, @ 1400'
156 lbs @ 1350'
156 lbs @ 1300'
156 lbs @ 1260'

Water level dropped from 207 to 265 after shooting and from 265 to 307 after first pumping.

S. S. # 30479

Strata	Thickness	Top	Bottom
Summary Study of Sample Set # 30479 by J. P. Kempton 5/58			
PLEISTOCENE SERIES			
Silt, sandy, gravelly, light brown, fine to medium, leached	10		10
Silt, sandy, gravelly, very light brown, calcareous	17		27
ORDOVICIAN SYSTEM			
Maquoketa formation			
Dolomite, slightly silty, light gray to buff, fine, little medium toward base, crystalline; little shale near base, dolomitic dark brownish gray, brittle to weak	38		65
Shale, dolomitic, dark brownish gray, brittle to tough, laminated	15		80
Shale, dolomitic, grayish brown, weak to tough, laminated	38		118
Galena formation			
Dolomite, light gray to buff, fine to very fine, crystalline, mostly compact	57		175
Dolomite, light gray to buff, fine to medium, crystalline, compact	45		220
Dolomite, light brownish gray, fine, crystalline, compact to slightly porous	40		260
Dolomite, trace chert, light brownish gray, fine, crystalline, compact	15		275
Dolomite, buff to light brownish gray, fine, crystalline, compact	15		295

COMPANY Layne-Western Company
FARM Amoco Chemical Corporation NO. 1
DATE DRILLED October 1957 COUNTY NO. 331
AUTHORITY J. P. Kempton
ELEVATION 571' Est. T.M.
LOCATION 820' N line 328' W line of NW NW
COUNTY WILL S.S. # 30479 11.7g 11-34N-9E

Strata	Thickness	Top	Bottom
Decorah formation			
Dolomite, light brownish gray, fine to very fine, crystalline, black and red speckled, trace shale partings	17		312
Platteville formation			
Dolomite, trace chert, slightly calcareous (crystalline), light grayish brown to buff, very fine to fine, crystalline, compact to slightly porous	43		355
Limestone, dolomitic, light grayish brown, to buff, very fine to sub-lithographic, scattered medium to coarse calcite crystals, compact to slightly porous	40		395
Dolomite, slightly calcareous, buff to brown, fine, crystalline, compact; little limestone, light buff, fine, granular, compact to slightly porous	10		405
Limestone, light grayish brown to gray, little white, fine to sub-lithographic, compact, fossiliferous, mottled	30		435
Dolomite, slightly calcareous, buff, fine to very fine, crystalline, compact; little limestone, dolomitic (crystalline), white, lithographic, compact to slightly porous	35		470
Dolomite, sandy, grayish brown to buff, little gray, fine to very fine, crystalline, compact, mottled	8		478
Glenwood formation			
Sandstone, white, fine to coarse, rounded to subangular, slightly frosted, incoherent, pyritic	2		480

Layne-Western Co. Amoco Chemical Corp. #1
COUNTY WILL S. S. # 30479 11-34N-9E

Strata	Thickness	Top	Bottom
No sample	5		485
Sandstone, slightly dolomitic, white, fine to coarse, rounded, frosted, incoherent, little dolomite, calcareous, buff to grayish brown, fine crystalline	5		490
St. Peter formation			
Sandstone, white, very fine to medium, rounded, frosted, incoherent, silty (490-95, 510-15)	30		520
Sandstone, silty, white, very fine to medium, rounded, frosted, incoherent	45		565
Sandstone, white, very fine to fine, little medium, rounded, frosted, incoherent	25		590
Sandstone, slightly silty, white to light buff, very fine to coarse, rounded, frosted, incoherent	45		635
Sandstone, silty, light buff, very fine to medium, little coarse, rounded, frosted, incoherent	20		655
Sandstone, slightly silty, white to light buff, very fine to medium, rounded, frosted, incoherent, slightly friable at base, little chert and shale at base	60		715
Sandstone, white to light buff, very fine to medium, rounded, frosted, incoherent to friable, trace chert and shale	10		725
Sandstone, slightly silty, white to light buff, very fine to medium, rounded, frosted, incoherent to friable	35		760
Sandstone, white to light buff, fine to medium, rounded, frosted, incoherent to friable, little compact	10		770

Strata	Thickness	Top	Bottom
Sandstone, silty, light buff to white, very fine to medium, rounded, frosted, incoherent to friable	85		855
Sandstone, slightly silty, white to buff, very fine to medium, rounded, frosted, incoherent to friable, little compact	60		915
No sample	2		917
Shale, sandy, greenish gray to red, weak; dolomite, sandy, red to reddish brown, fine, granular to crystalline	18		935
Shale, reddish brown to brown, little green, weak to brittle; sand, reddish brown to pink, fine to coarse, rounded, incoherent; little chert near base, slightly oolitic	70		1005
Sandstone, reddish brown, very fine to coarse, rounded, incoherent; shale, reddish brown to red, weak; chert, white, with reddish brown stain	45		1050
CAMBRIAN SYSTEM			
Trempealeau formation			
Dolomite, slightly silty, buff to brown, very fine, crystalline, compact	20		1070
Dolomite, grayish brown to buff, little white, fine to very fine, crystalline to granular	15		1085
Dolomite, buff to grayish brown, little black, very fine, crystalline, mottled	25		1110
Dolomite, silty slightly sandy at base, buff to gray, very fine to fine, crystalline, mottled	10		1120

Strata	Thickness	Top	Bottom
Sandstone, dolomitic, white, medium to coarse, rounded, slightly frosted, incoherent to compact; little dolomite, sandy, silty, buff, fine to medium, crystalline	20		1295
Sandstone, very dolomitic, white to buff, fine to coarse, rounded to subangular, slightly frosted, incoherent to compact	15		1310
No sample	5		1315
Sandstone, slightly dolomitic, buff to white, very fine to very coarse, rounded to subangular, slightly frosted, incoherent, little compact	35		1350
Sandstone, white, medium to coarse, rounded to subrounded, slightly frosted, incoherent	5		1355
No sample	5		1360
Sandstone white, medium to coarse, rounded to subrounded, slightly frosted, incoherent, well sorted	5		1365
Sandstone, dolomitic, buff to white, very fine to medium, little coarse, rounded to subangular, slightly frosted, incoherent to compact; little dolomitic at base, very sandy, grayish brown, fine to medium, crystalline	25		1390
Sandstone, dolomitic, buff, very fine to medium, rounded to subrounded, slightly frosted, incoherent to compact; little dolomite at base, very sandy, brownish gray, fine, granular	25		1415
Eau Claire formation			
Dolomite, very silty, sandy, gray, very fine to fine, granular	5		1420
No sample	2		1422 TD

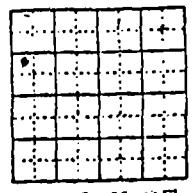
COUNTY WILL — Layne-Western Co. S. S. # 30479 — Amoco Chemical Corp. #1 11-34N-9E

Strata	Thickness	Top	Bottom
Franconia formation			
Dolomite, very sandy, glauconitic, gray, very fine to fine, crystalline to granular	15		1135
Dolomite, silty, trace glauconitic, buff to gray, very fine to fine, crystalline to granular, mottled	15		1150
Siltstone, sandy, extremely dolomitic, glauconitic, greenest gray, tough; little shale, sandy, dolomitic, glauconitic, greenish gray, brittle to weak; sandstone at top, very fine to medium, white to gray, rounded, incoherent.	15		1165
No sample	5		1170
Siltstone, dolomitic, sandy, glauconitic, greenish gray to gray; shale, dolomitic, glauconitic, dark greenest gray, weak	5		1175
Sandstone, very silty, dolomitic, glauconitic, greenish gray, fine to medium, subangular to angular, incoherent to compact	25		1200
Dolomite, slightly glauconitic, grayish brown to buff, very fine to fine, medium toward base, crystalline, compact	43		1243
Ironton-Galesville formation			
Sandstone, slightly glauconitic, slightly dolomitic, white to buff, medium to very coarse, few frosted grains, incoherent to compact	22		1265
Dolomite, slightly sandy, silty, grayish brown to buff, fine, crystalline to granular; light sandstone, white to brown, fine to coarse, rounded, frosted, incoherent	10		1275

COUNTY WILL — Layne-Western Co. S. S. # 30479 — Amoco Chemical Corp. #1 11-34N-9E

Strata	Thickness	Top	Bottom
Summary Sample Study by John Brueckmann 12/64			
Pleistocene Series			
Sand, medium to coarse, pebbles.	15		15
ORDOVICIAN SYSTEM			
Cincinnatian Series			
Maquoketa Group (95')			
Dolomite, gray, fine to medium (poorly crystalline), little mottling (dark gray), trace white chert, trace pyrite, yellow to buff at top.	28		43
Siltstone, dark brownish gray, tough, brittle, dolomitic, interbedded with shale, dark brownish gray; very weak; little dolomite, dark brownish gray, very fine.	67		110
Champlainian Series			
Galena Group (195')			
Dolomite, buff to light gray, partly dark grayish brown near top, very fine to finely crystalline (poorly developed, clean to slightly silty, compact to trace porosity.	65		175
Dolomite, light gray, little dark gray mottling, fine to medium grained (clastic), partly extra finely crystalline to sublithographic, slightly silty, compact and trace slight porosity, little pyrite.	85		260

COMPANY Milaeger Well & Pump Co.
FARM Amoco Chemicals NO. 3
DATE DRILLED June 1964 COUNTY NO. 1328
AUTHORITY John Brueckmann
ELEVATION 572' Est. Topo Map
LOCATION 1750' N line, 400' W line of NW 11.8P
COUNTY WILL S.S.#49359



11-34N-9E

Strata	Thickness	Top	Bottom
Dolomite, light gray and dark gray mottled, finely crystalline, partly sublithographic, clean, trace porous to porous.	30		290
Guttenberg (Decorah) Formation			
Dolomite, light gray to dark gray, fine to very fine, little porosity, black and little red speckling.	15		305
Platteville Group (151')			
Dolomite, medium to light gray, buff, extra finely crystalline and little very fine to fine grained, slightly silty, partly clastic, trace chert.	40		345
Limestone, brownish gray to medium gray, sublithographic, trace pyrite.	15		360
Dolomite, buff, extra fine to sublithographic, compact, trace pyrite, partly calcitic.	40		400
Dolomite, buff, brownish gray, gray, extra linely crystalline, sublithographic, little iron stain, brown shale partings, partly fossiliferous, little dark speckling.	15		415
Dolomite, buff, extra finely crystalline, trace fine grained (clastic), clean, compact, trace shale parting.	41		456
Ancell Group (230')			
Glenwood Formation (5')			
Sandstone, fine to coarse, gray, brownish gray, very dolomitic, (almost sandy dolomite in part), clear to slightly frosted, rounded, partly pyritic.	5		461

Milaeger Well & Pump Co. Amoco Chemicals # X3
COUNTY WILL S.S. # 49359 11-34N-9E

Strata	Thickness	Top	Bottom
St. Peter Sandstone (225')			
Sandstone, fine to coarse, mostly medium, rounded, clear to slightly frosted, white, incoherent.	54		515
Sandstone, as above, silty; dolomite, yellow, white.	20		535
Sandstone, as above.	30		565
Sandstone, very fine to coarse, white, iron stain prominent in upper part, rounded, clear to frosted, partly slightly dolomitic, incoherent.	85		650
Sandstone, white, very fine to coarse, slightly frosted, partly very cherty (oolitic?)	8		658
Shale, green, red, gray, brittle; dolomite, reddish gray, buff; little sand, fine to medium; little chert.	14		671
Dolomite, buff to brownish gray, extra fine to finely crystalline, partly sandy.	4		675
Dolomite, buff, extra finely crystalline, partly sandy; dolomite, reddish brown, very silty; shale, green gray brittle; sandstone, partly medium, very dolomitic, partly very fine; chert, white, partly oolitic.	10		685
Canadian Series			
Prairie du Chien Group (160')			
Dolomite, buff, brownish gray, extra finely crystalline, partly sandy; little reddish brown dolomite (as above) at top; white chert; more shale and iron stain at base.	15		700

Strata	Thickness	Top	Bottom
Dolomite, buff to light brownish gray, extra finely crystalline, compact, partly sandy; little shale, reddish brown, gray.	15		715
No sample	5		720
Sandstone, medium to coarse, white, rounded; dolomite, light gray, extra finely crystalline, partly sandy; little shale.	5		725
Dolomite, light gray, faint greenish and reddish ting, extra finely crystalline, speck of glauconite; trace sandstone and shale (partly sandy).	20		750
Dolomite, white, reddish and greenish ting (varying intensity), fine to medium crystalline and little coarse, partly slightly sandy, little clastic; trace chert, white, partly oolitic; little shale, red, green, gray (laminated), partly sandy, trace carbonite.	55		805
Dolomite, as above, medium to coarse, trace sand, cherty (white, oolitic); little shale, greenish gray, carbonaceous.	45		850
CAMBRIAN SYSTEM			
Croixan Series			
Eminence Formation (126')			
Dolomite, finely crystalline, buff, brownish gray with reddish ting, slightly cherty (white, oolitic), compact, trace glauconite, trace sand; little shale (dark reddish brown, weak) at base.	25		875

Strata	Thickness	Top	Bottom
Dolomite, buff, gray, finely crystalline, partly slightly sandy; cherty (white, oolitic); little shale, as above.	20		895
No sample	5		900
Dolomite, white to light gray, extra finely crystalline, partly slightly sandy, little chert, trace glauconite; shale, dark brownish gray, grayish green, grayish brown, brittle, partly carbonaceous.	15		915
Dolomite, as above, trace sand; dolomite, yellow, extra fine.	10		925
Dolomite, light gray, light brownish gray, extra fine to very finely crystalline, little mottling (gray, green, red), partly slightly sandy; little shale at top, as above.	30		954
Dolomite, light gray, extra fine to finely crystalline, sandy to very sandy, grading to dolomitic sandstone.	6		960
Dolomite, light gray, slightly sandy, partly clastic, slightly glauconitic.	15		975
Potosi Dolomite (149')			
Dolomite, brownish gray, extra fine to very finely crystalline, partly clastic (oolitic), trace sand.	10		985
Dolomite, light brownish gray to light gray, extra finely crystalline, clean, compact, druzy quartz.	80		1065

Strata	Thickness	Top	Bottom
Dolomite, brownish gray to reddish brown, trace maroon, extra finely crystalline and little finely crystalline, very slightly silty.	5		1070
No sample	5		1075
Dolomite, medium gray, light gray (dull luster), little dark brown at base, extra finely crystalline, slightly silty, few shale partings, little pyrite.	35		1110
Dolomite, buff to reddish buff, finely crystalline, trace or speckling; dolomite, medium gray to brownish gray, extra fine to very finely crystalline, shale partings, pyritic; trace shale, gray, weak.	10		1120
Dolomite, brownish gray to gray, very fine to finely crystalline, glauconitic.	4		1124
Franconia Formation (104')			
Sandstone, medium gray to brownish gray, fine to medium, coherent, argillaceous, glauconitic, dolomitic to very dolomitic, very fine sand and gray shale at top; little interbedded dark shale and dolomite.	61		1195
Dolomite, light to dark brownish gray, gray, glauconitic, extra finely crystalline and little very fine to fine, partly sandy.	38		1233
Sandstone, fine, gray, glauconitic, coherent.	5		1238
Ironton-Galesville Sandstones (162')			
Sandstone, medium to coarse, few very coarse (partly fine to very			

Strata	Thickness	Top	Bottom
fine below 1255'), brownish gray, partly friable to coherent, dolomitic to very dolomitic grading in part to sandy dolomite, slightly glauconitic in upper few feet.	72		1310
Dolomite, buff, greenish gray, extra finely crystalline, slighty sandy to sandy; sandstone, white, fine; shale, light gray, very weak.	5		1315
Sandstone, fine to coarse, few very coarse grains, partly very fine and silty, rounded, slightly frosted to frosted, slightly dolomitic.	60		1375
Dolomite, light gray, extra finely crystalline, trace sand, little druzy quartz.	5		1380
Sandstone, very fine to coarse, few very coarse grains, slightly dolomitic to very dolomitic at base.	20		1400 TD

Location change by field check by State Water Survey.

Casing: 24" - 0-29'
18" - 0-481'

ILLINOIS GEOLOGICAL SURVEY, URBANA

PERMIT #22127	Thickness	Top	Bottom
Broken lime and clay		0	5
Lime ledges and shale		5	28
Lime		28	34
Shale with a few lime lenses		34	95
Lime with a few shale lenses		95	450
Hard sandstone with lime layers		450	454
Sandstone		454	615
Sandstone, shale, few lime lenses		615	700
Hard white lime		700	786
Sandstone, lime and shale		786	794
Lime with chert		794	1105
Lime and shale		1105	1132
Shale and sandstone, few lime lenses		1132	1265
Sandstone		1265	1380
Limestone		1380	1410
			TD

Hole record: 24" - 0'-31'
19¼" - 31'-725'
15¼" - 725'-1000'
12" - 1000'-1410'

Casing: 22" 3/8" wall steel with welded joints - 0'-31'
16" 3/8" wall steel with welded joints - 0'-725'

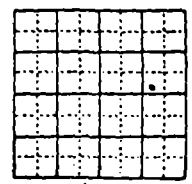
Cementing record: 435 sacks to cement 16" casing in 19¼" hole (cement returns at surface)

Static level 509'. Pumping level 685' after pumping at 1000 gpm for 23 hours.

A.R. 58966

*100' N. of Well #1 and 40' N. of yellow water tower

COMPANY Layne-Western Co., Inc.
FARM Stepan Chemical Company NO. 3
DATE DRILLED May 11, 1973 COUNTY NO. 24080
AUTHORITY Company
ELEVATION
LOCATION *2500' N. line, 960' E. line of NE
COUNTY WILL

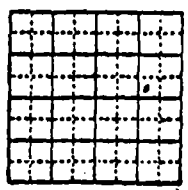


11-34N-9E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
TOPS BY E. ATHERTON			
PLEISTOCENE SERIES			
Clay and boulders		0	15
ORDOVICIAN SYSTEM			
MAQUOKETA FORMATION			
Lime hard		15	20
Shale dark brown		20	95
GALENA FORMATION			
Limestone gray very hard		95	110
Showing of oil some gas		110	115
Limestone gray hard		115	150
First showing of water, very little		150	155
Limestone gray hard		155	170
Limestone brown hard		170	195
Picked up more water		195	200
Limestone brown hard		200	250
Gray lime		250	255
Gray lime medium		255	325
PLATTEVILLE FORMATION			
Limestone brown hard		325	335
Gray lime medium		335	350
Brown lime hard		350	375
Lime gray hard		375	445
ST. PETER FORMATION			
Sand bluish medium		445	480
Sand medium		480	610
Sand hard		610	635
Sand		635	647
Shale and lime shells		647	670
SHAKOPEE FORMATION			
Gray lime		670	680

COMPANY Layne Western Co.
FARM Stepan Chem. Co. NO. 1
DATE DRILLED Layne Western Co. COUNTY NO. 251
AUTHORITY October 1955
ELEVATION
LOCATION Approx. SW SE NE 11. 2e
COUNTY WILL



11-34N-9E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bot
NEW RICHMOND FORMATION			
White sand		680	6
ONEOTA FORMATION			
Lime gray hard		685	6
Red shale soft		698	7
Lime gray hard		702	7
Lime white hard		730	7
Lime white medium		760	7
Lime white hard		770	7
Lime white medium		775	7
Lime gray medium		780	7
Lime gray very hard		795	8
Lime gray medium		810	8
Lime gray hard		830	8
Lime white hard		855	9
Lime brown		940	9
CAMBRIAN SYSTEM			
TREMPEALEAU FORMATION			
Lime gray hard		965	10
Lime gray medium		1020	11
Lime shale broken medium (Franconia?)		1100	11
FRANCONIA FORMATION			
Green shale and lime shells		1140	1
Lime gray medium		1160	12
Lime gray hard		1220	12
No samples hard		1240	12
IRONTON - GALESVILLE FORMATION			
Sand hard		1258	1
Sand medium		1330	1
Sand hard		1370	1
EAU CLAIRE FORMATION			
Lime		1392	1

S.S.#25945

Size of well 18" surface to 30'. 17½" to 463', 12" to
10" to 718', 8" to 1407'.

Casing: 30' of 18". 463' of 12". 10" from 625-675'.
8" from 664' to 718'.

Water head 226'. Drawn-down 252.5'. Yield (gal. per mi
488

Layne Western Co. Stepan Chemical Co. #1

COUNTY WILL 11-34N-9E

(3)

Town Elwood Township Jackson Map No.
Company J. A. Kramer No. R. 10E
Farm Kankakee Ordnance Works No. 303 T. Sec.
Authority J. A. Kramer, Joliet, Ill. 30
Elevation ~~625~~ 645 top. map. storm located in field. 34
Collector N
Confidential Date Drilled 1942

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Top soil	4		4	
	Clay, yellow	6		10	
	Clay, blue	55		65	
	Limestone	70		135 (6"C AT)	
	6" casing from 0-65'				
	6" hole below casing				
	Static water level from surface 25'			620 AT	
	Tested capacity, bailed 16 g.p.m.				
	Water lowered to 50' in 10 min.				
	No pump test				

COUNTY Will INDEX NO. 1120-7E
DRILL RECORD
30-34N-10E
(13880—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (12-41)

Permit #8800	Thickness	Top	Bottom
DRILLERS LOG with Correlations by E.A.Atherton			
SILURIAN SYSTEM			
ORDOVICIAN SYSTEM			
Maquoketa			
Surface		0	7
Limestone – Top 549		7	47
Shale		47	112
Shale & Limestone		112	128
Limestone		128	162
Limestone & shale		162	165
Shale		165	237
Galena Platteville - Top. 319'			
Lime		237	586
Glenwood St. Peter – Top, -30'	?		
Lime & shale		586	591
Limestone(should by Sandstone? Atherton)		591	596
Limestone		596	751
Shale - Lime conglomerate		751	756
Shakopee			
Limestone		756	776
Red rock & limestone		776	780
Conglomerate (lime, shale, sandstone)		780	805
Sandy limestone		805	813
Conglomerate		813	818
Lime		818	823
New Richmond			
Sand		823	845
Cnoots			
Lime		845	859
Lime & shale		859	866

COMPANY Wehling Well Works, Inc.
FARM Mobil Oil Company NO. 1
DATE DRILLED April 17, 1970 COUNTY NO. 1845
AUTHORITY Company
ELEVATION 556' D.F. Nuclear Log
LOCATION 2400' S line, 1400' W line of SW
COUNTY WILL 22-34N-9E

22.72

	Thickness	Top	
Lime		866	8
Lime		892	9
Lime		910	10
Gunter			
Sand		1040	10
CAMBRIAN SYSTEM			
Eminence			
Lime & dolomite		1046	10
Lime & dolomite		1065	11
Sand		1118	11
Lime		1127	1
Sand		1430	1
Sand gray lime		1553	1
PARTIAL SAMPLE STUDY by E.A.Atherton 3/70			
Top of Ironton Formation Top - 625	172	1381	
Ironton is almost all dolomite		1381	1
Ironton is sandstone with dolomite stringers		1430	1
Ironton is white sandstone		1495	1
Top of Galesville Formation		1525	
Sandstone, a little finer, softer and more permeable than the overlying Ironton		1525	1
Top of Eau Claire Formation		1553	
Total Depth			1
Casing: 26" - 0-12', 22" - 0-275', 18" - 0-910' (cemented in).			
Static level 265' below casing top.			
Caliper Log filed.			
Temperature Log filed.			
Nuclear Log filed.			
S.S. #56822			

Wehling Well Works, Inc. Mobil Oil Comp
COUNTY WILL 22-34N-9

Town Elwood Township Channahan Map No. 10

Company Layne-Westernt Co. No. R. 9E

Farm Kankakee Ordnance Works No. 8 T. Sec.

Authority Driller's notebooks 34 25

Elevation 606.2 Co. (ground) N

Collector 25.5

Confidential Date Drilled 1941

87' S. line, 2744' E. line

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Clay, yellow	5		5	
	Clay, yellow and gray	5		10	
	Clay, bluish gray, tough	35		45	
	Clay, bluish gray; lime	19		54	
	Limestone, light gray and yellow	2		56	
	Limestone, light gray	34		90	
	Shale, green and lime	5		95	
	Lime, gray, light brown, mixed	10		105	
	Limestone, gray	15		120	
	Limestone, gray, green chips	5		125	
	Limestone, gray	5		130	
	Limestone, gray, white chips	5		135	
	Limestone, gray	10		145	
	Limestone, dark gray, hard	5		150	
	Lime, gray, hard	7		157	
	Shale, blue	4		161	
	Shale, blue and slate	14		175	
	Limestone, dark gray, shaly, hard	5		180	
	Limestone, dark gray, shaly	5		185	
	Shale and limestone	20		205	
	Lime, dark gray, shaly	30		235	
	Limestone, dark gray	5		240	
	Limestone, dark gray; shells, light brown, flinty	5		245	
	Shale, dark gray; limestone	5		250	
	Shale	5		255	
	Shale, gray and lime	10		265	

COUNTY Will INDEX NO. 1025

DRILL RECORD

(A32187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

Sheet 2 T. 34N R. 9E S. 25

Company Layne-Northwest Co. Hole No.

Farm Kankakee Ordnance Works Hole No. 8

No.	Strata	Thickness Feet	Thickness In.	Depth Feet
	Shale, brownish gray	60		325
	Limestone, light brown	20		345
	Limestone, gray	10		355
	Limestone, light brown	40		395
	Limestone, brown	5		400
	Limestone, light brown	20		420
	Limestone, light brown, hard; settles in hole and bailer	10		430
	Limestone, light brown, a little finer	10		440
	Limestone, light brown	20		460
	Limestone, light brown, soft streaks	5		465
	Limestone, light brown	10		475
	Limestone, brown	5		480
	Limestone, brown	40		520
	Limestone, brown and gray, hard	35		555
	Limestone, dark gray	35		590
	Limestone, gray	35		625
	Limestone, brownish gray	5		630
	Limestone, brown	40		670
	Limestone, brown and gray, some sandstone	5		675
	Limestone, gray and sand, St. Peter sand 678'	5		680
	Sandstone, white	5		685
	Sandstone, light gray	5		690
	Sandstone, light gray, fine	10		700
	Sandstone, white, fine	15		715
	Sandstone, white, fine, hard, sharp	5		720
	Sandstone, white, sharp	15		735
	Sandstone, white	45		780
	Sandstone, white, hard	5		785
	Sandstone, white	45		830

COUNTY Will INDEX NO. 1025

DRILL RECORD

(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 3 T. 34N R. 9E S. 25
COMPANY Layne-Northwest Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 8

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Sandstone, white, hard and close	5		835	
	Sandstone, white	15		850	
	Sandstone, white; limestone, hard	5		855	
	Limestone, brownish gray, white chips	5		860	
	Limestone, brownish gray	5		865	
	Limestone, brown	10		875	
	Limestone and sandstone	10		885	
	Limestone, sandy, hard	5		890	
	Limestone, light brown, hard, flinty	5		895	
	Sandstone, white, coarse, soft	5		900	
	Sandstone, white, hard	5		905	
	Limestone, sandy, light brown and white, flinty	5		910	
	Limestone, light brown, flinty	15		925	
	Limestone, light yellow, pyritic	10		935	
	Limestone, light yellow, hard	5		940	
	Lime, white, sandy, hard	5		945	
	Limestone, light yellow, hard brown flint spots	10		955	
	Limestone, light yellow, brown spots	5		960	
	Limestone, white	5		965	
	Limestone, white, brown spots	25		990	
	Limestone, white	10		1000	
	Limestone, light gray	5		1005	
	Limestone, light gray, sharp and flinty	10		1015	

COUNTY Will INDEX NO. 1025
DRILL RECORD
(A6573--20M--10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 4 T. 34N R. 9E S. 25
COMPANY Layne-Northwest Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 8

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET
	Lime, light blue	15		1030
	Limestone, blue, gray	5		1035
	Limestone, gray	5		1040
	Limestone, gray, white chips	5		1045
	Limestone, gray, hard	10		1055
	Limestone, gray	5		1060
	Limestone, gray, fine	5		1065
	Limestone, gray	10		1075
	Limestone, brown	5		1080
	Limestone, brown and rock, red	5		1085
	Limestone, brown	10		1095
	Limestone, gray, brown flinty chips	5		1100
	Sandstone, white, coarse, soft	5		1105
	Limestone, white, green chips	5		1110
	Limestone, white	25		1135
	Limestone, gray	10		1145
	Limestone, gray, dark spots	5		1150
	Limestone, gray	20		1170
	Limestone, brownish gray	20		1190
	Limestone, gray, hard	5		1195
	Limestone, gray	5		1200
	Limestone, gray, very hard	5		1205
	Limestone, sandy, very hard	5		1210
	Limestone, gray	85		1295
	Limestone, brownish gray	5		1300
	Limestone, brownish gray, hard	5		1305
	Limestone, brownish gray	5		1310
	Limestone, brownish gray, hard	5		1315
	Limestone, brownish gray	5		1320
	Limestone, brownish gray, hard	10		1330

COUNTY Will INDEX NO. 1025
DRILL RECORD
(A6573--20M--10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 5 T. 34N R. 9E S. 25

COMPANY Layne-Northwest Co. HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 8

NO.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Limestone, brownish gray	5		1335	
	Limestone, gray	10		1345	
	Shale 1', lime, gray	5		1350	
	Limestone, gray	5		1355	
	Shale and lime	5		1360	
	Shale, green	5		1365	
	Lime, sandy and shale	5		1370	
	Limestone, sandy	50		1420	
	Lime, gray	35		1455	
	Lime and shale	5		1460	
	Limestone, gray	15		1475	
	Sand and lime	20		1495	
	Lime, gray	15		1510	
	Sand and lime	25		1535	
	Sand	10		1545	
	Sand and lime	25		1570	
	Sand	50		1620	
	Sand, soft, white	3		1623	
	Lime, black, hard	4		1627	
	Measured depth 1639.0				
	26" hole to 56.33'				
	21¼" hole to 333.42'				
	17¼" hole to 1639.0'				
	22" casing to 56.33'				
	18" casing to 331.33'				
	Main supply at St. Peter and Oglesville				

COUNTY Will INDEX NO. 1025

DRILL RECORD

(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

Town Elwood Township Channahan Map No. 10

Company Layne-Western Co. No. R. 9E

Farm Kankakee Ordnance Works No. 9 T. 34 Sec. 25

Authority Driller's notebooks N

Elevation 589.3 Co. (ground)

Collector

Confidential Date Drilled 1941

2587' S. line, 2745' E. line

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Top soil, black	1		1	
	Clay, yellow	5		6	
	Clay, yellow	14		20	
	Clay	18		38	
	Lime, gray	10		48	
	Lime, broken, shale	2		50	
	Lime, gray and brown and shale streaks	5		55	
	Lime, brown and gray	5		60	
	Lime, gray, medium	9		69	
	Lime, broken and shale	6		75	
	Lime, gray, medium	35		110	
	Lime, green, gray	5		115	
	Lime, green, medium	5		120	
	Lime, green, medium and shale	5		125	
	Lime and shale	5		130	
	Shale, green and bluish, soft	30		160	
	Shale, green, soft	20		180	
	Shale and lime	15		195	
	Lime, shale streaks, hard	5		200	
	Lime, bluish, hard	25		225	
	Lime, shale break	5		230	
	Lime and shale	10		240	
	Shale, bluish green, medium	5		245	
	Shale, bluish green, sticky, medium	5		250	
	Shale, bluish green, hard	5		255	
	Shale, bluish green, medium	10		265	
	Shale, bluish brown, medium	20		285	

COUNTY Will INDEX NO. 1025

DRILL RECORD

(A12187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 2 T. 34N R9E S. 25

COMPANY Layne-Western Co. HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 9

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet
	Shale and lime specks	10		295
	Shale, brownish green, soft	11		306
	Lime, gray, hard	4		310
	Lime, brownish, medium	5		315
	Lime, gray, hard	15		330
	Lime, brown, medium	45		375
	Shale	2		377
	Lime, brown, medium	3		380
	Lime, gray, medium	15		395
	Lime, gray and brown, medium	5		400
	Lime, brown, medium	5		405
	Lime, gray, brown, medium	5		410
	Lime, gray, brown, soft	10		435
	Lime, brown, soft	15		450
	Lime, brown, hard to medium	5		455
	Lime, brown	15		470
	Lime, brown, medium	15		485
	Lime, gray, hard to medium	5		490
	Lime, brown, gray, medium	5		495
	Lime, brown, gray, medium	20		515
	Lime, gray, medium	10		525
	Lime, brown	5		530
	Lime, gray, medium	5		535
	Lime and shale streaks, medium	5		540
	Lime, blue	15		555
	Lime, blue and brown	45		600
	Lime, gray	15		615
	Lime, brownish, medium	5		620
	Lime, brownish	10		630
	Lime, gray and brown	5		635
	Lime, gray and brown, medium	10		645
	Lime, gray and brown	10		655
	Sand and lime	5		660
	Sand, white	20		680
	Sand, white, soft	30		710
	Sand, hard, fine	15		725

COUNTY Will INDEX NO. 1025

DRILL RECORD

(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 3 T. 34N R. 9E S. 25

COMPANY Layne-Western Company HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 9

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Sand, white, medium	15		740	
	Sand, white	15		755	
	Sand, white, hard	10		765	
	Sand, white	5		770	
	Sand, white, medium	15		785	
	Sand, white	5		790	
	Sand, hard	5		795	
	Sand, white, hard	11		806	
	Shale, lime, sand	4		810	
	Lime, gray, hard	15		825	
	Lime, reddish brown, hard	15		840	
	Lime, gray, hard	20		860	
	Lime, sandy, gray, brownish, hard, sharp	5		865	
	Lime, gray, hard	15		880	
	Lime, hard, gray, sandy	5		885	
	Lime, gray, hard	90		975	
	Lime, fine, hard	5		980	
	Lime, gray, hard	50		1030	
	Lime, brown, gray, hard	55		1085	
	Lime, gray, soft; sand	5		1090	
	Lime, gray, hard	40		1130	
	Lime, brownish, hard	25		1155	
	Lime, reddish brown, hard	15		1170	
	Lime, gray, hard	60		1230	
	Lime, dark gray, hard	55		1285	
	Lime, brownish, hard	25		1310	
	Lime, gray and brown, hard	5		1315	
	Lime, brownish, hard	15		1330	
	Lime, gray, hard	25		1355	
	Lime, sandy; shale, medium	5		1360	
	Lime and shale, sandy, greenish, medium	50		1410	
	Lime, blue and gray, hard	5		1420	
	Lime, gray, hard	50		1470	
	Sand, gray, medium hard	5		1475	

COUNTY Will INDEX NO. 1025

DRILL RECORD

(A6578--20M--10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 4 T. 34N R. 9E S. 25

COMPANY Layne-Western Company HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 9

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET
	Lime, sandy, gray, hard	25		1500
	Lime, sandy, brown, gray, hard	10		1510
	Lime and sand, white, hard	5		1515
	Sand, white, hard and soft	5		1520
	Lime, sandy, brown, gray, hard	5		1525
	Lime, sandy, brown, gray	5		1530
	Sand, white, medium	20		1550
	Sand, white, soft	45		1595
	Lime, brown	8		1603
	Static water level 119'			
	Bottom 1601.83' from ground elevation			
	Bottom elevation - 1012.53'			
	26" well to 38'			
	21¼" well to 311.67'			
	17¼" well to 1601.83'			
	22" casing to 38'			
	18" casing to 309.83'			

COUNTY Will INDEX NO. 1025

DRILL RECORD

(A6578--20M--10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

Town Elwood Township Channahan Map No. 10
Company Layne-Western Co. No. R. 9E
Farm Kankakee Ordnance Works No. 10 T. Sec.
Authority Driller's notebooks 34 25
Elevation 591.1 Co. (ground) N 25.5h
Collector
Confidential Date Drilled Oct. 1941
151' N. line, 2746' E. line

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Clay	5		5	
	Sandy clay, gravel	5		10	
	Mud, blue	32	6	42	6
	Lime, gray	32	6	75	
	Lime	20		95	
	Lime, hard	5		100	
	Lime	10		110	
	Shale, blue	5		115	
	Shale and lime	5		120	
	Shale, very muddy	5		125	
	Shale, light	10		135	
	Shale and lime, broken	5		140	
	Shale	5		145	
	Mud, blue	5		150	
	Shale	10		160	
	Mud, blue	15		175	
	Lime	45		220	
	Shale	78		298	
	Lime	57		355	
	Shale and lime	10		365	
	Lime	205		570	
	Lime, hard	10		580	
	Lime	5		585	
	Lime, hard	10		595	
	Lime	15		610	
	Lime, hard	5		615	
	Lime	30		645	
	Sand - Glenwood	145		790	
	Sand and shale	5		795	
	Sand	5		800	

COUNTY Will INDEX NO. 1025
DRILL RECORD
(A32187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 408993

SHEET 2 T. 34N R. 9E S. 25
COMPANY Layne-Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 10

No.	Strata	Thickness Feet	Thickness In.	Dep Feet
	Shale	5		805
	Lime	10		815
	Shale	4		819
	Lime	14		833
	Shale	2		835
	Lime	15		850
	Lime and sand	5		855
	Lime	15		870
	Lime, sandy	25		895
	Lime, water level 146'	230		1125
	Lime, sandy	15		1140
	Lime	15		1155
	Lime, mud seams	5		1160
	Lime	5		1165
	Lime, mud seams	5		1170
	Lime	10		1180
	No samples, lost in crevice	15		1195
	First sample, lime; water at 147'	5		1200
	Lime	45		1245
	Lime, hard	15		1260
	Lime	70		1330
	Sand, brown	60		1390
	Sand, brown; blue shale streaks	5		1395
	Sand, brown	5		1400
	Lime	20		1420
	Soft lime, shale	5		1425
	Shale	5		1430
	Lime	5		1435
	Shale	5		1440
	Lime	5		1445
	Sand	10		145
	Sand, lime	5		1460
	Sand	5		146

COUNTY Will INDEX NO. 102
DRILL RECORD
(2782—20M—7-41) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 408993

SHEET 3 T. 34N R. 9E S. 25

COMPANY Layne-Western Co. HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 10

No.	Strata	Thickness Feet	Thickness In.	Depth Feet
	Sand, lime	5		1470
	Sand	15		1485
	Sand, lime	10		1495
	Sand	35		1530
	Sand, approximately 1' of hard, light green shale	5		1535
	Sand, white	27		1562
	Lime	9		1571

Total measured depth 1569.17'
1 shot - 6 shells - 180 qts. nitroglycerine with 10' anchor
Main supply at St. Peter & Galesville
26" hole to 41.5'
21¼" hole to 143.33'
20" hole to 304.83'
17½" hole to 1569.17'

22" O.D. casing from 0 to 41.5'
20" I.D. casing from 0 to 103'
18" O.D. casing from 0 to 302.5'

COUNTY Will INDEX NO. 1025

DRILL RECORD

(2732—20M—7-41) ILLINOIS GEOLOGICAL SURVEY, URBANA

ILLINOIS GEOLOGICAL SURVEY, URBANA

PERMIT #27320	Thickness	Top	Bottom
Shale		0	93
Lime		93	143
Shale		143	216
Lime		216	330
Lime with shale streaks		330	485
Lime		485	520
Lime and shale streaks		520	562
Lime with shale		562	568
Sand with lime		568	727
Hard broken formations		727	748
Sand with lime streaks		748	802
Sand and lime		802	870
Sand with lime streaks		870	880
Sand with shale and lime		880	925
Lime with sand		925	1112
Lime with shale		1112	1190
Lime		1190	1260
Shale		1260	1330
Lime - shale		1330	1390
Lime with sand		1390	1435
Sand with lime streaks		1435	1450
Sand		1450	1557
Lime with sand		1557	1605
			TD

Hole diameter: 20" - 6'
17½" - 915'
12" - 1605'

Casing: 20" black pipe - 0'-6'
13 3/8" black pipe - 0'-915'

COMPANY Wehling Well Works, Inc.
FARM Dow Chemical U. S. A. NO. 1
DATE DRILLED February 28, 1974 COUNTY NO. 24155
AUTHORITY Company
ELEVATION
LOCATION 657' N. line, 2447' W. line of NW
COUNTY WILL

28-34N-9E

ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom

Static level 280' below casing top. Pumping level 475' when pumping at 1065 gpm for 24 hours.

Well Test Data filed.

S.S. # 59127

Wehling Well Works, Inc. Dow Chemical U. S. A.
28-34
COUNTY WILL

761. DO NOT DETACH GEOLOGICAL DATES
IE PROPER LOCATI

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-13-80

10. Property owner Dow Chemical U.S.A. Well No. _____
Address Box 368, Joliet, IL
Driller Richard H. Wehling License No. 102-223
11. Permit No. 97349 Date 11-14-80
12. Water from _____ (Formation) 13. County Will
at depth ____ to ____ ft. Sec. 29
14. Screen: Diam. ____ in. Twp. 34N
Length: ____ ft. Slot _____ Rge. 9E
482'S 856'W NE, SE Elev. _____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
10	Seamless black steel	+1	231
	cemented in place		

SHOW LOCATION IN SECTION PLAT
482'NL 856'EL
NE SE
(permit)

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

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	11	11
Shale	89	100
Traces of soft blue shale	10	110
Shale	10	120
Shale & traces of lime	66	186
Shale	24	210
Lime	21	231
Lime	310	541
Sand	259	800

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Richard H. Wehling DATE 12-3-80
WEHLING WELL WORKS, INC.

WILL COUNTY No. 22257 29-34N-9E

(3)

Town Blodgett Township Channahan Map No. 10
Company Layne Western Co. No. R. 9E
Farm Kankakee Ordnance Works 3 T. 34 Sec. 34
Authority Driller's notebooks N 34.3a
Elevation 528.1 ground.
Collector
Confidential Date Drilled 1941
110' S. line, 1965' E. line

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Black top soil	2		2	
	Surface, yellow clay, trap lime	5		7	
	Loose lime, soft	8		15	
	Lime, gray, soft	50		65	
	Lime, shale streak, soft	5		70	
	Lime, gray, shale streaks	10		80	
	Shale, brownish	35		115	
	Blue shale, brownish	15		130	
	Shale and lime	15		145	
	Lime and hard shale	10		155	
	Lime, dark and light gray	5		160	
	Lime, light gray	15		175	
	Lime and shale	5		180	
	Shale, gray-brown	77		257	
	Lime, gray-brown	43		300	
	Lime, hard	20		320	
	Lime, little soft	10		330	
	Lime, hard	45		375	
	Sandy lime, medium, water	5		380	
	Sand and lime	5		385	
	Lime	5		390	
	Lime, brown	35		425	
	Lime, light brown	25		450	
	Brown lime	5		455	
	Lime	15		470	
	Hard brown lime	10		480	
	Softer brown lime	5		485	
	Harder brown lime	10		495	
	Lime, gray-brown, hard	5		500	

COUNTY Will INDEX NO. 1034
DRILL RECORD

(A32187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 2 T. 34N R. 9E S. 34
COMPANY Layne Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 3

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Dark blue, lime	10		510	
	Lime, blue	15		525	
	Gray lime	85		610	
	Sand (Sand at 612')	20		630	
	Sand, soft	5		635	
	Hard sand	5		640	
	Sand	30		670	
	Sand, gray	5		675	
	Sand, soft	135		810	
	Lime streaks	5		815	
	Shale streaks	5		820	
	Shale, hard	5		825	
	Lime, hard, brown, hole caving	5		830	
	Gray shale	5		835	
	Gray shale, hole caving	5		840	
	Lime, gray	25		865	
	Sand, gray	15		880	
	Sand	5		885	
	Lime, gray	65		950	
	Blue, hard, gray, lime	5		955	
	Lime, gray	5		960	
	Bit batter, 967'	5		965	
	Lime, gray	95		1060	
	Brown lime	10		1070	
	Red lime	5		1075	
	Lime	20		1095	
	Gray lime	105		1200	
	Lime	10		1210	
	Lime, gray	15		1225	
	Dark lime	5		1230	
	Dark lime, blue, hard	5		1235	
	Lime, gray	55		1290	
	Brown lime	20		1310	
	Green sand	10		1320	

COUNTY Will INDEX NO. 1034
DRILL RECORD

(A6573--20M--10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

SHEET 3 T. 34N R. 9E S. 34

COMPANY Layne Western Co. HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 3

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Shale	5		1325	
	Sandy lime	10		1335	
	Shale and lime	30		1365	
	Lime	45		1410	
	Coarse gray lime	10		1420	
	Sand	5		1425	
	Sandy lime	5		1430	
	Mostly sand, little lime	5		1435	
	Sandy lime	20		1455	
	Sand	15		1470	
	Sandy lime, main sand formation at 1500'	30		1500	
	Sand	40		1540	
	Sand and shells	20		1560	
	Sand, hard, lime streaks	5		1565	
	Sand	15		1580	
	Lime, static level 47'	10		1590	

Total measured depth 1593.42

26" hole to 13.92'

21¼" hole to 298.75'

17¼" hole to 852'

15½" hole to 1593.4'

22" casing at 13.92' from surface

18" casing to 296.92' " "

16" casing 801.92-852'

Main supply at St. Peter and Galesville sand

Temperature 53°

Maximum 200 g.p.m.; safe pumping rate 150 g.p.m.

COUNTY Will INDEX NO. 1034

DRILL RECORD

(A6578--20M--10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

Town Blodgett Township Channahon Map No.
Company Layne-Western Co. No. R. 9E
Farm Kankakee Ordnance Works #4 T. Sec. 34
Authority Driller's notebooks
Elevation 521.7 ground 34
Collector N
Confidential Date Drilled 1941
100' S. line, 1230' W. line 34.7a

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Floor to ground	2		2	
	Top soil	1		3	
	Clay and gravel	1		4	
	Lime, gray	21		25	
	Lime, gray, soft	45		70	
	Shale, sticky	5		75	
	Shale	5		80	
	Shale, green, medium	15		95	
	Shale, green, lime shale	5		100	
	Shale, green, soft	30		130	
	Shale, lime, gray	10		140	
	Lime, white, medium	25		165	
	Lime, white, soft	15		180	
	Shale, sticky	5		185	
	Shale, green, soft	30		215	
	Shale, greenish, soft	30		245	
	Lime, gray, hard	5		250	
	Lime, brown, hard	5		255	
	Lime, brown, medium	20		275	
	Lime, gray, medium	30		305	
	Lime, brown, medium	35		340	
	Lime, gray, medium	5		345	
	Lime, brown, medium	120		465	
	Lime, brown, hard	25		490	
	Lime, shale streak, green, medium	5		495	
	Lime, shale, green, medium	10		505	
	Lime, gray, hard	10		515	
	Lime, dark gray, medium	40		555	
	Lime, brown, hard	20		575	

COUNTY Will INDEX NO.
DRILL RECORD 34-34N-9E
(12880—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (12-41)

Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 408993

SHEET 2 T. 34N R. 9E S. 34
COMPANY Layne-Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 4

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Lime, gray, medium	5		580	
	Lime, brown, hard	10		590	
	Lime, gray, hard	10		600	
	Sand, gray, hard	5		605	
	Sand, white, hard	5		610	
	Sand, soft	5		615	
	Sand, white, soft	5		620	
	Sand, gray, soft	10		630	
	Sand, white, ~~soft~~ sand, white, hard	100 10		730 740	
	Sand, white, medium	30		770	
	Sand, white, hard	5		775	
	Sand, white, medium	83		858	
	Lime and shale, gray, hard	7		865	
	Lime, white, hard	30		895	
	Brown mixture and red clay, hard	5		900	
	Lime, red, hard	20		920	
	Lime, gray, medium, hole caving	10		930	
	Lime, gray, hard; water level 57'	10		940	
	Sandy lime, gray, medium	5		945	
	Sand, white, medium	10		955	
	Lime, sand, white, medium	5		960	
	Lime, sand, white, hard Lime, white, hard	5 5		965 970	
	Lime, gray, hard	140		1110	
	Lime, brown, hard	10		1120	
	Lime, gray, hard and sharp	5		1125	
	Lime, brown, sharp	5		1130	
	Lime, gray, hard	4		1134	
	Sand, white, medium	3		1137	
	Sandy lime, white; water level 65'	8		1145	
	Lime, gray, hard	30		1175	
	Sand, white, medium	5		1180	
	Sand, lime and shale, hard	5		1185	
	~~Lime, gray, hard~~	~~15~~		~~1200~~	

COUNTY Will INDEX NO.
DRILL RECORD 34-34N-9E
(2732—20M—7-41) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 408993

SHEET 3 T. 34N R. 9E S. 34
COMPANY Layne-Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 4

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Lime, dark gray, hard	10		1210	
	Lime, shale caving, hard	5		1215	
	Lime, hard	55		1270	
	Lime, gray, hard	25		1295	
	Green shale	3		1298	
	Lime, gray, hard	7		1305	
	Sandy lime, gray, hard	15		1320	
	Broken lime, gray, medium	5		1325	
	Lime, gray, hard	5		1330	
	Sand	5		1335	
	Sand, lime, hard	10		1345	
	Sandy lime, hard	15		1360	
	Lime, gray, hard	45		1405	
	Green shale	3		1408	
	Lime, gray, hard	32		1440	
	Sandy lime, hard	5		1445	
	Sandy lime, gray, hard	30		1475	
	Sand	20		1495	
	Sand, medium	5		1500	
	Sand, hard	10		1510	
	Sand, medium	10		1520	
	Sand	30		1550	
	Limerock	4		1554	

26" hole from surface to 9'1½"
21¼" hole to 273'9"
17¼" hole to 1548.79'
26" casing to 9'1½"
18' casing to 273'
Main supply at St. Peter and Galesville

Water levels:
59' at 940' 65' at 1145'
58' at 1030' 69' at 1215'
69' at 1060'

COUNTY Will INDEX NO.
DRILL RECORD 34-34N-9E
(2732—30M—7-41) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 408993

SHEET 9 T. 34N R. 9E S. 34
COMPANY Layne Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 3

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Sandstone, very dolomitic, buff, light gray, fine to medium, compact	5		1565	
	Sandstone, light gray, very fine to medium, incoherent	10		1575	
	Eau Claire formation				
	Sandstone, dolomitic, greenish brown, very fine to fine, very compact to incoherent	10		1585	
	Dolomite, very sandy, greenish buff, very fine	8		1593	

COUNTY Will INDEX NO. 1034
DRILL RECORD Summary Sample Set #5865
(2732—20M—7-41) ILLINOIS GEOLOGICAL SURVEY, URBANA

Town Blodgett Township Channahan Map No. 10

Company Layne Western Co. No. R. 9E

Farm Kankakee Ordnance Works 1 T. 34 Sec. 35

Authority Driller's notebooks N

Elevation 539.1 (ground)

Collector

Confidential Date Drilled March 1941

50' S. line, 2745' E. line

35 Sa

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Black top soil	2		2	
	Surface yellow clay, soft	7		9	
	Lime, gray, with yellow streaks	6		15	
	Lime, gray, soft	20		35	
	Gray and green lime, mixed	5		40	
	Gray and green and brown lime, mixed	5		45	
	Gray, green, brown lime	25		70	
	Gray and green lime	5		75	
	Gray, green, brown lime	5		80	
	Hard gray lime	5		85	
	Hard gray lime and shale	5		90	
	Brown shale and lime	5		95	
	Brown shale	15		110	
	Brown shale and lime mixed	5		115	
	Shale, brown and blue	5		120	
	Shale and lime, brown	10		130	
	Brown and blue shale, lime specks	10		140	
	Shale and lime mixed	5		145	
	Shale and lime, mixed	5		150	
	Lime, gray,	5		155	
	Gray lime, hard	30		185	
	Gray lime, green and brown shale, mixed	5		190	
	Shale and lime mixed	15		205	
	Shale	5		210	
	Lime and shale	5		215	
	Sandy brown and green shale	5		220	

COUNTY Will INDEX NO. 1035

DRILL RECORD

(A33187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 2 T. 34N R. 9E S. 35

COMPANY Layne Western Co. HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 1

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Sandy brown and green shale	5		225	
	Brown shale	10		235	
	Shale	5		240	
	Lime and shale	25		265	
	Top of lime at 265'				
	Lime	5		270	
	Lime, hard	10		280	
	Brown lime	5		245	
	Brown and gray lime, hard	10		295	
	Brown and gray lime	5		300	
	Gray and brown lime	15		315	
	Brown lime, blue streaks, hard	35		350	
	Gray and brown lime, hard	5		355	
	Brown lime, light sand streaks	5		360	
	Brown lime	20		380	
	Brown lime, light sand streaks	5		385	
	Brown lime, picked up water	5		390	
	Brown lime	10		400	
	Brown lime and sand, mixed	10		410	
	Brown lime	40		450	
	Brown lime	30		480	
	Brown and gray lime	15		495	
	Sandy brown and gray lime	5		500	
	Sandy brown and gray lime, light shale streaks	5		505	
	Brown and gray lime, light sandy shale	5		510	
	Gray lime	15		525	
	Brown and gray lime	15		540	
	Hard gray lime	5		545	
	Gray and brown lime, hard	25		570	
	Brown and gray lime	10		580	
	Brown lime	25		605	

COUNTY Will INDEX NO. 1035

DRILL RECORD

(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation. Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 3 T. 34N R. 9E S. 35
COMPANY Layne Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 1

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Sandy brown lime	15		620	
	Sand, top at 622'	5		625	
	Sand	35		660	
	Hard sand	10		670	
	Soft sand	10		680	
	Hard sand	30		710	
	Sand and lime specks	30		740	
	Sand	10		750	
	Sand and lime	30		780	
	Top of lime at 781'				
	Sandy white lime, brown shale specks	5		785	
	Gray lime	25		810	
	Brown and gray lime	5		815	
	Brown and gray lime, brown shale, topped at 817'	5		820	
	Brown and gray lime, mixed	5		825	
	Brown and gray lime	10		835	
	Brown and gray lime	5		840	
	Sandy brown and gray lime	5		845	
	Dolomite and gray lime	40		885	
	Gray lime	20		905	
	White and gray lime	5		910	
	White lime	20		930	
	Gray lime	15		945	
	White lime	30		975	
	Gray lime	45		1020	
	Brown lime	30		1050	
	Gray lime	5		1055	
	Gray lime, 6" mud seam at 1059'	5		1060	
	Gray lime	10		1070	
	Gray lime and dolomite streaks	10		1080	
	Gray lime and dolomite	30		1110	

COUNTY Will INDEX NO. 1035
DRILL RECORD
(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation. Rochester, N. Y. Binder and holes in leaves Patented.

SHEET 4 T. 34N R. 9E S. 35
COMPANY Layne Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 1

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Grayish brown lime and dolomite	5		1115	
	Gray lime	15		1130	
	Gray lime, hard	5		1135	
	Brown lime, white chalk lime in breaks	5		1140	
	Brown lime and dolomite	15		1155	
	Brown lime and mud seams	10		1165	
	Brown lime	10		1175	
	Gray lime	20		1195	
	Gray, lime, hard	5		1200	
	Gray lime	15		1215	
	Brown lime	5		1220	
	Gray lime	10		1230	
	Grayish brown lime	5		1235	
	Brown lime	10		1245	
	Brown and gray lime	5		1250	
	Brown lime	5		1255	
	Brown and gray lime	10		1265	
	Brown lime	15		1280	
	Brown and gray lime	15		1295	
	Dark brown lime	20		1315	
	Brown lime	10		1325	
	Gray lime and shale	5		1330	
	Gray lime and shale breaks	20		1350	
	Dark gray lime and sandy shale	15		1365	
	Gray and blue lime	15		1380	
	Blue lime	10		1390	
	Dark gray lime	35		1425	
	Brown lime, sand and shale	5		1430	
	Brown and gray lime	10		1440	
	Sandy lime, brown	5		1445	
	Magnesium lime	5		1450	
	Sandy lime	5		1455	

COUNTY Will INDEX NO. 1035
DRILL RECORD
(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

(3)

Town Blodgett Township Channahan Map No. 10
Company Layne Western Co. No. R. 9E
Farm Kankakee Ordnance Works No. 2 T. 34 N Sec. 35
Authority Driller's notebooks
Elevation 531.8 (ground)
Collector
Confidential Date Drilled 1941
80' S. line, 35' W. line 35.8a

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Black top soil and yellow clay, surface	5		5	
	Lime, gray with yellow streaks, soft	15		20	
	Lime, gray, soft	55		75	
	Lime, medium	5		80	
	Limestone and shale	5		85	
	Limestone and shale, medium	10		95	
	Shale, medium	20		115	
	Shale and lime	5		120	
	Shale, gray-green	30		150	
	Shale, gray	5		155	
	Shale and lime, gray	5		160	
	Shale and lime, medium gray	5		165	
	Lime, medium gray	20		185	
	Lime and shale, medium	15		200	
	Shale, gray-brown	25		225	
	Shale, gray-brown, sticky	39		264	
	Lime, brown	6		270	
	Lime, gray, medium, brown	30		300	
	Lime, gray, medium	10		310	
	Lime, brown, medium	50		360	
	Lime, brown, medium, water	5		365	
	Lime, gray, brown	10		375	
	Lime, gray, medium	25		400	
	Lime, brown, medium	25		425	
	Lime, brown-gray, medium	25		450	
	Lime, brown, medium	15		465	
	Lime, gray-brown, medium	15		480	
	Lime, gray-brown, hard	15		495	

COUNTY Will INDEX NO. 1035
DRILL RECORD
(A32187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 2 T. 34N R. 9E S. 35
COMPANY Layne Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 2

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Lime, dark gray, small shale streaks, hard	15		510	
	Lime, dark gray, medium	10		520	
	Lime, light brown	5		525	
	Lime, light brown, soft, water level 51'	45		570	
	Lime, dark brown, soft	20		590	
	Lime, brown	10		600	
	Lime, dark brown, soft	10		610	
	Sandy lime, brownish, hard	5		615	
	Sand at 616'				
	Sand, gray, soft and lime	10		625	
	Sand, white, soft	35		660	
	Sand, dark gray, soft	15		675	
	Sand, white, soft	15		690	
	Sand, gray, medium, washes out white	45		735	
	Sand, gray, soft, washes out white	45		780	
	Sand, white, soft	5		785	
	Sand, white, soft, trace of lime	5		790	
	Sand	5		795	
	Shale	5		800	
	Shale and lime	5		805	
	Lime, gray, hard	20		825	
	Shale, gray, hard	5		830	
	Lime, gray, hard	15		845	
	Lime, shale streaks, hard	5		850	
	Lime, gray, hard	5		855	
	Sandy lime, white, medium	5		860	
	Sand, white, soft	15		875	
	Lime, gray, medium	5		880	
	Lime, gray, hard	25		905	
	Lime, brownish, hard	20		925	
	Lime, gray, hard	80		1005	

COUNTY Will INDEX NO. 1035
DRILL RECORD
(A6575—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 103809

SHEET 3 T. 34N R. 9E S. 35
COMPANY Layne Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 2

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Lime, brownish, hard	10		1015	
	Lime, brownish, medium	15		1030	
	Gray lime, medium	15		1045	
	Lime, gray-brown, medium	5		1050	
	Lime, gray, medium	5		1055	
	Lime, brownish, medium	5		1060	
	Lime, gray, medium	60		1120	
	Lime, gray-brown, medium	5		1125	
	Lime, dark brown, hard, shale streaks	5		1130	
	Lime, dark brown, hard	5		1135	
	Lime, gray and brown, medium	5		1140	
	Lime, gray, medium	5		1145	
	Lime, brown, medium	5		1150	
	Sandy lime, gray, medium	15		1165	
	Sandy lime, brown, medium	5		1170	
	Sandy lime, gray, medium	5		1175	
	Lime, very little sand, gray, medium	5		1180	
	Lime, gray, medium	20		1200	
	Lime, light brown, medium	5		1205	
	Lime, gray, medium	15		1220	
	Lime, gray-brown, medium	20		1240	
	Lime, gray, medium	10		1250	
	Lime, gray, hard	15		1265	
	Lime, dark gray, hard	5		1270	
	Lime, gray-brown, hard	5		1275	
	Lime, gray, hard	10		1285	
	Lime, gray-brown, hard	15		1300	
	Lime, dark brown, medium	5		1305	
	Lime, gray, medium	5		1310	
	Lime, blue-gray, medium	5		1315	
	Green-blue shale, soft, wanting to cave	5		1320	
	Green shale, lime	5		1325	

COUNTY Will INDEX NO. 1035
DRILL RECORD
(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 103809

SHEET 4 T. 34N R. 9E S. 35
COMPANY Layne Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 2

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Lime, brown	5		1330	
	Lime, brown, medium	5		1335	
	Lime, sandy, blue, medium	10		1345	
	Lime, sandy, blue, soft, medium	5		1350	
	Shaly lime, sandy, blue, soft	5		1355	
	Shaly, gray lime, sandy, soft	5		1360	
	Lime, sandy, gray, medium, soft	10		1370	
	Lime, gray, little shale, medium	5		1375	
	Lime, gray, slightly sandy, medium	10		1385	
	Lime, gray, brown, medium	15		1400	
	Lime, gray, medium, soft	5		1405	
	Lime, gray, to sandy lime, medium, soft	5		1410	
	Gray-brown lime, sandy, medium, soft	5		1415	
	Lime, gray, medium, soft	10		1425	
	Gray, sandy lime, medium, sand at 1429'	5		1430	
	Sand, brown, some lime, medium soft	5		1435	
	Sand, medium soft	5		1440	
	Sand, little lime, medium soft	5		1445	
	Sand, little lime, medium	10		1455	
	Sand, brown lime, hard	10		1465	
	Sand, soft	10		1475	
	Sand with little lime, hard	5		1480	
	Sand with little lime, hard, brown	10		1490	
	Sand, white, soft	5		1495	
	Sand with lime, gray, hard	5		1500	

COUNTY Will INDEX NO. 1035
DRILL RECORD
(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 3 T. 34N R. 9E S. 35

COMPANY Layne Western Co. HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 2

NO.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	White sand with little gray lime, medium to soft	5		1505	
	White sand, soft	10		1515	
	Sand, white, very little lime, medium	5		1520	
	Sand, white, ~~very little lime~~, soft	5		1525	
	Sand, white and clean, soft	10		1535	
	Sand, white, very soft	5		1540	
	Sand, white, clear, soft, water level 65'	25		1565	
	Loose sand, white, with sand, lime streaks, soft	5		1570	
	Sand, white and clear, very soft	5		1575	
	Sand, white and gray, soft	5		1580	
	Sand, dark gray lime, hard, water level 53'	5		1585	
	Dark gray lime, hard, water level 52'	10		1595	
	Dark gray lime, medium hard	5		1600	
	Dark gray lime, hard, water level 54'	5		1605	
	No record, total depth 1612.33				
	Main supply at St. Peter and Galesville sand.				
	26" 21½" hole to 276.9' hole to 3.58'				
	17½" hole to 920'				
	15¼" hole to 1612.3'				
	22" casing to 3.58'				
	18" casing to 275.4'				
	16" casing 775.5-920'				
	Temp. 52½°				
	500 g.p.m. - safe capacity 400 g.p.m.				

COUNTY Will INDEX NO. 1035

DRILL RECORD

(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

Town Elwood Township Channahan Map No. 10 (3)
Company Layne-Western Co. No. R. 9E
Farm Kankakee Ordnance Works No. 6 T. 34N Sec. 36
Authority Driller's notebooks
Elevation 577.3 Co. (ground) 36.5a
Collector
Confidential Date Drilled Aug. 1941
4903' N. line, 2740' E. line

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Floor	4		4	
	Top soil and clay, yellow	6		10	
	Clay, yellow	15		25	
	Lime, yellow	5		30	
	Lime, gray, hard	25		55	
	Lime, reddish gray, hard	10		65	
	Lime, gray, hard	15		80	
	Lime, gray	40		120	
	Lime and shale	25		145	
	Lime, light gray and shale	10		155	
	Lime and shale	25		180	
	Limestone, gray	20		200	
	Shale	5		205	
	Lime	5		210	
	Lime and shale	5		215	
	Shale	80		295	
	Lime, gray, hard	220		415	
	Lime, gray, lighter and softer	40		455	
	Lime, gray, hard	140		595	
	Lime, gray, fine	5		600	
	Lime, gray, hard	5		605	
	Lime, gray, fine	25		630	
	Lime, gray, hard	10		645	
	Lime, gray	15		660	
	Sand	20		680	
	Sand, white, hard	15		695	
	Sand, white, soft	70		765	
	Sand, white	5		770	
	Sand, hard	5		775	
	Sand, white, soft	10		785	

COUNTY Will INDEX NO. 1036
DRILL RECORD

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 2 T. 34N R. 9E S. 36
COMPANY Layne-Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 6

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Sand, white, harder	10		795	
	Sand, white, hard	15		810	
	Sand, white, soft	5		815	
	Sand, white, hard	40		855	
	Sand, hard	10		865	
	Sand, white, hard	25		890	
	Sand, soft	5		895	
	Sand, white, soft	5		900	
	Shale	95		995	
	Shale and lime	10		1005	
	Shale	4		1009	
	Lime	6		1015	
	Shale and limestone	15		1030	
	Dolomite, gray	25		1055	
	Dolomite	5		1060	
	Lime	5		1065	
	Limestone, gray	10		1075	
	Lime, gray	10		1085	
	Lime	20		1105	
	Lime, gray	5		1110	
	Sand	5		1115	
	Sand and some lime	5		1120	
	Lime	5		1125	
	Dolomite	5		1130	
	Lime	45		1175	
	Lime, hard	30		1205	
	Lime, gray and hard	15		1220	
	Lime, gray	30		1250	
	Lime	35		1285	
	Lime, gray	70		1355	
	Lime and shale	40		1400	
	Lime shale	15		1415	
	Lime and shale	20		1435	
	Limerock	5		1440	
	Lime, hard	25		1465	
	Lime and shale	5		1470	

COUNTY Will INDEX NO. 1036
DRILL RECORD

John C. Moore Corporation, Rochester, N. Y. Binder and holes to leave Patented. FORM 403809

SHEET 3 T. 34N R. 9E S. 36

COMPANY Layne-Western Co. HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 6

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Lime, hard	5		1475	
	Sand	15		1490	
	Dolomite	10		1500	
	Lime, hard and sand	15		1515	
	Lime, sand	10		1525	
	Dolomite	25		1550	
	Sand	50		1600	
	Sand, soft	5		1605	
	Sand, white and soft	30		1635	
	Sand, white	15		1650	
	Lime, dark	3		1653	
	Measured depth 1647.75'				
	26" hole to 23.33'				
	21½" hole to 299.83'				
	17½" hole to 1010.75'				
	15½" hole to 1647.75'				
	22" casing to 23.33'				
	18" casing to 297.04'				
	16" casing 876.25 to 1010.75'				
	Main supply at St. Peter and Galesville				

COUNTY Will INDEX NO. 1036

DRILL RECORD

(A6573—20M—10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

Town Elwood Township Channahan Map No. 10
Company Layne-Western Co. No. R. 9E
Farm Kankakee Ordnance Works No. 7 T. 34 N Sec. 36
Authority Driller's notebooks
Elevation 600.9 Co.
Collector
Confidential Date Drilled 1941 36.5e
2403' N. line, 2744' E. line

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Top soil, black; clay, yellow	15		15	
	Clay, bluish, yellow	5		20	
	Clay, blue, gray	30		50	
	Lime, gray	5		55	
	Lime, gray, medium	15		70	
	Lime, gray, hard	14		84	
	Lime, green and brown, medium; water	6		90	
	Lime, white and brown, hard	5		95	
	Limestone, gray	50		145	
	Limestone, gray; shale streaks	5		150	
	Lime, broken	10		160	
	Slate, gray	30		190	
	Shale, blue	10		200	
	Shale, blue and some slate	10		210	
	Shale, and limestone	5		215	
	Limestone, dark gray, hard	20		235	
	Lime, gray, hard	5		240	
	Shale and broken lime	5		245	
	Shale	80		325	
	Limestone	100		425	
	Limestone, medium	40		465	
	Lime	15		480	
	Limestone, medium	50		530	
	Limestone, hard	15		545	
	Lime	70		615	
	Lime, hard	70		685	
	Sand, soft	15		700	

COUNTY Will INDEX NO. 1036
DRILL RECORD

(A32187—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 2 T. 34N R. 9E S. 36
COMPANY Layne-Western Co. HOLE NO.
FARM Kankakee Ordnance Works HOLE NO. 7

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Sandstone, soft	35		735	
	Sandstone, getting hard	10		745	
	Sand, soft, gray	5		750	
	Sand, soft	5		755	
	Sand	10		765	
	St. Peter sand	5		770	
	Sand	25		795	
	Sandstone	145		940	
	Lime, hard, sandy	5		945	
	Shale, gray	5		950	
	Lime, hard, caving	20		970	
	Lime, hard; shale run in	20		990	
	Lime, hard	10		1000	
	Limestone, hard	5		1005	
	Shale, green	15		1020	
	Lime	60		1080	
	Limestone, hard	5		1085	
	Limestone	50		1135	
	Lime, hard	15		1150	
	Limestone	105		1255	
	Lime, hard	20		1275	
	Limestone	100		1375	
	Shale, lime, sand	25		1400	
	Lime, shale spots	5		1405	
	Lime, broken; shale	15		1420	
	Shale, lime	10		1430	
	Lime	5		1435	
	Limestone	70		1505	
	Lime, sand at 1508'	5		1510	
	Limestone, hard	15		1525	
	Limestone	5		1530	
	Sand	5		1535	
	Lime, sand	5		1540	
	Sand	20		1560	
	Sandstone	15		1575	
	Sand, lime	5		1580	

COUNTY Will INDEX NO. 1036
DRILL RECORD

(A6573--20M--10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 403809

SHEET 3 T. 34N R. 9E S. 36

COMPANY Layne-Western Co. HOLE NO.

FARM Kankakee Ordnance Works HOLE NO. 7

No.	STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Sand	5		1585	
	Sand	15		1600	
	Sand, soft	50		1650	
	Shale; lime, black	5		1655	
	Bottom 1649'1" from ground elevation				
	Elevation Bottom -1048.2				
	26" well to 53.83', 21¼" to 329.58', 17¼" to 992.08', 15¼" to 1649.08'				
	22" casing to 53.83'				
	18" casing 0 to 326.67'				
	16" casing 929.83-992.08'				
	Main supply at St. Peter and Galesville				

COUNTY Will INDEX NO. 1036

DRILL RECORD

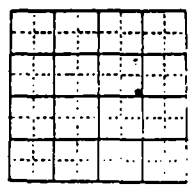
(A6578--20M--10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

ILLINOIS GEOLOGICAL SURVEY, URBANA

Permit # 41552

	Thickness	Top	Bottom
Drift		0	18
Lime		18	75
White lime		75	110
Gray lime		110	120
Gray and brown lime		120	135
Lime		135	240
Lime dark gray with shale		240	255
Shale dark gray		255	270
White lime with shale		270	275
Dark gray shale		275	365
Lime		365	435
Brown lime		435	520
Lime		520	605
Brown lime		605	660
Brown and white lime with sand		660	695
Sand		695	720
St. Peter sand		720	760
Sand, shale "gumbo"		760	780
Sand shale		780	800
Sand		800	855
White lime with sand and shale		855	905
Brown lime with sand and shale		905	935
Sand with shale and lime		935	985
Lime with sand		985	1025
Lime		1025	1295
Lime, sand and shale		1295	1467
Sand, with some lime		1467	1490
Sand		1490	1580
Shale		1580	1590
Shale with lime , sand		1590	1623
			TD
Hole Record: 20" 0 - 22', 19" 22 - 1014'			
15" 1014 - 1623'			(Cont

COMPANY Wendell E. Wehling
FARM City of Joliet NO. 11D
DATE DRILLED March 1976 COUNTY NO. 25527
AUTHORITY State Water Survey
ELEVATION 619' G.L.
LOCATION 100' S. line, 175' E. line of SE SW NE
COUNTY WILL



1-35N-9E

	Thickness	Top	Bottom

Casing: 20" 0 - 22'
16" 0 - 1014', cemented

Aquifer: Sandstone

Static level: 640' below Measuring Point

Pumping level 777 after pumping at 900 gpm for 24 hrs.

Shot Record: 560 quarts nitro-gel in 7 shots plus 320 quarts nitro-gel in 3 shots, between 1515-1572'

S.S. # 60086

Well Test Data Sheet filed.

COMPANY Wendell E. Wehling City of Joliet #11D
COUNTY WILL 1-35N-9E

JESTED AND MAIL ORIGINAL TO STATE
MER HEALTH PROTECTION, 535 WEST
DO NOT TACH GEOL CAL/WATER
ROPER WELL LOCATION.

Ver rec'd 7/14

GEOLOGICAL AND WATER SURVEYS WELL RECORD

0. Property owner EDWARD OWENS Well No. _____
Address 2416 PECAN ST JOLIET ILL
Driller CONTR T.A. DREHER License No. _____
1. Permit No. 86973 Date 6-21-79
2. Water from LIMESTONE (Formation) 13. County Will
at depth ____ to 102 ft.
4. Screen: Diam. ____ in.
Length: ____ ft. Slot _____

Sec. 25
Twp. 35N
Rge. 9E
Elev. _____

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
5	BLK STEEL #15/FT.	0	39

SHOW LOCATION IN SECTION PLAT
lot #80 Sunnylane Subd. SE NE

16. Size Hole below casing: 5 in.
17. Static level 25 ft. below casing top which is 3/4 ft. above ground level. Pumping level 25 ft. when pumping at 15 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	5	5
Brown & Grey Clay	21	26
Sand & Gravel	12	38
Limestone	64	102

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Dreher & Schorer by H. J. Eichholzer DATE 1-7-80

25-35N-9E

REQUESTED AND MAIL ORIGINAL TO STATE
CONSUMER HEALTH PROTECTION, 535 WEST
52761. DO NOT DETACH GEOLOGICAL/WATER
IDE PROPE WELL LOCA N.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 2-1-79 -

10. Property owner Crown-Trygg Corp. Well No. _____
Address P.O. Box 338 Joliet, Ill.
Driller James Knierim License No. 102-27
11. Permit No. 83332 Date 1/17/79
12. Water from Shale (Formation) 13. County Will
at depth ____ to 200 ft.
14. Screen: Diam. ____ in.
Length: ____ ft. Slot _____

Sec. 25
Twp. 35N.
Rge. 9E.
Elev. _____

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	Black, 19#	0	42
Pressure	Cement - Grout		

SHOW LOCATION IN SECTION PLAT
NE NE NE
(PERMIT)

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

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Top Soil	0	3
Rock	3	90
Shale	90	108
Rock	108	138
Rock & Shale	138	200

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED James Knierim DATE 2/20/79

COUNTY No. 27538

WILL

25-35N-9E

...ENVIRONMENTAL HEALTH, 535 WEST
DO NOT DETACH GEOLOGICAL/WATER
PROPER WELL LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 10-4-73

0. Property owner Troy Com Com Sch Well No. 564
Address Troy
Driller Hart License No. 107-43
1. Permit No. 25629 Date Sept 21-73
2. Water from Limestone (Formation) 13. County Will
at depth 60 to 130 ft. Sec. 15
4. Screen: Diam. ____ in. Twp. 35N
Length: ____ ft. Slot ____ Rge. 9E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	B 15	0	60

SHOW LOCATION IN SECTION PLAT
NW NW NW
(Permit)

16. Size Hole below casing: 5 in.
17. Static level 35 ft. below casing top which is ____ ft. above ground level. Pumping level 35 ft. when pumping at 15 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Clay Gravel	0	40
Limestone	40	130
* School water supply		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 10-29-73

COUNTY No. 3929

WILL 15-35N-9E

...UMER HEALTH PROTECTION, 535 WEST
...DO NOT DETACH GEOLOGICAL/WATER
PROPER WELL LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed Sept. 22, 197

10. Property owner Mobil Oil Co Well No. SERVICE STATION
Address Rt 52 & I 55 Joliet
Driller Paul Knierim License No. 102-29
11. Permit No. 52453 Date 9-21-76
12. Water from Rock (Formation) 13. County Will
at depth ____ to ____ ft. Sec. 15
14. Screen: Diam. ____ in. Twp. 35N
Length: ____ ft. Slot ____ Rge. 9E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
8	Blk 24 lb.	0	104

SHOW LOCATION IN SECTION PLAT
NW NE NE
(permit)

16. Size Hole below casing: 8 in.
17. Static level ____ ft. below casing top which is ____ ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Overburden	0	104
Rock formation	104	240

RECEIVED
SEP 28 1978
REGION 2A I.D.P.H.

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Knierim DATE 9-22-78

WILL COUNTY No. 26972 15-35N-9E

(65600—60M—10-57)

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Drilling samples from Commonwealth Edison Co. Water supply Well #3 Joliet Station Unit #7 Joliet, Illinois 20" Well 0-1525'			
Hole record: 30" 0-19" 29" 19-244' 25" 244-800 19" 800-1525			
Casing Record: 30" 0-19" 26" liner 143-244' 20" liner 0-800' (cemented)			

p2. 42345

30.2h

COMPANY Wehling Well Works Sta #9
FARM Commonwealth Edison Co. NO. #3
DATE DRILLED COUNTY NO.
AUTHORITY 1962
ELEVATION 510
LOCATION 100's, 950'W, NEc (SWS)
COUNTY Will 30-35N-10E-~~30~~

(65600—60M—10-57)

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Limestone		244	350
Limestone		350	574
Sandstone		574	682
Blue shale		682	687
Sandstone		687	723
Shale		723	738
Limestone		738	953
Green shale & limestone		953	955
Limestone		955	1019
Red rock		1019	1021
Conglomerate		1021	1025
Limestone		1025	1040
Shale		1040	1045
Limestone		1045	1160
Limestone & green shale		1160	1253
Limestone		1253	1312
Sandstone & limestone		1312	1440
Limestone & shale		1440	1446
Soft sandstone		1446	1508
Shale & limestone		1508	
Hole record: 30" 0-19'			
Casing rec: 30" 0-19, 26" 143-244' 20" 0-800' (cemented)			
Depth: 1525'			
MP: top of casing, 2' above LSD			

30.2h

COMPANY Wehling Well Works
FARM Public Serv. Co, Sta.9 NO.
DATE DRILLED/ 1962 COUNTY NO.
AUTHORITY
ELEVATION 510
LOCATION 100'S, 950'W, NEc
COUNTY Will 30.2h 35-10E-~~30.2h~~

Town Joliet Township Joliet Map No. 8
Company W. H. Cater No. R. 10E
Farm Joliet City-Jasper St. No. T. 35 N Sec. 16
Authority
Elevation 5[illegible] = [illegible] M
Collector
Confidential Date Drilled 1924
700' N. line, 2630' E. line

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	From sample study log by State Geological Survey				
	SILURIAN SYSTEM				
	Niagaran and Alexandrian dolomite, water-bearing	170		170	
	ORDOVICIAN SYSTEM				
	Maquoketa formation				
	Dolomite	20		190	
	Shale and some dolomite	80		270	
	Galena-Platteville dolomite	325		595	
	Glenwood dolomite and sandstone	35		630	
	St. Peter sandstone, water-bearing	160		790	
	Shakopee dolomite	55		845	
	Oneota dolomite	165		1010	
	CAMBRIAN SYSTEM				
	Jordan dolomite, sandy	65		1075	
	Trempealeau dolomite	160		1235	
	Franconia dolomite and sandstone	140		1375	
	Galesville sandstone, water-bearing	165		1540	
	Eau Claire shale and sandstone	25		1565	

COUNTY Will INDEX NO. 0816
DRILL RECORD
16-35N-10E
(A22157—50M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

Town Joliet Township Joliet Map No. 8
Company Ohio Drilling Co. No. R. 10E
Farm Joliet City-Des Plaines St. T. 35 N Sec. 16
Authority
Elevation 540 EST. T.M.
Collector
Confidential Date Drilled 1913
575' N. line, 1025' E. line of NE

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	From sample study log by State Geological Survey				
	SILURIAN SYSTEM				
	Niagaran and Alexandrian dolomite and limestone	190		190	
	ORDOVICIAN SYSTEM				
	Maquoketa formation				
	Dolomite	10		200	
	Shale	80		280	
	Galena-Platteville dolomite and limestone	350		630	
	St. Peter formation				
	Sandstone, incoherent	450		1080	
	Shale and chert, caving	20		1100	
	CAMBRIAN SYSTEM				
	Trempealeau limestone	150		1250	
	Franconia sandy limestone and sandstone	150		1400	
	Galesville sandstone, water-bearing	160		1560	

16.24

COUNTY Will INDEX NO. 0816
DRILL RECORD
16-35N-10E
(A22157—50M) ILLINOIS GEOLOGICAL SURVEY, URBANA (10-40)

SUMER HEALTH PROTECTION, 535 WEST
1. DO NOT DETACH GEOLOGICAL/WATER
PROPER IN LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-31-79

10. Property owner Professional Const Well No. _____
Address Rt. 59 Plainfield, Il
Driller Will-DUPage Drilling License No. 102-000445
11. Permit No. 85918 Date 5-23-79
12. Water from Gravel (Formation) 13. County Will
at depth ____ to ____ ft. Sec. 3
14. Screen: Diam. ____ in. Twp. 34N
Length: ____ ft. Slot ____ Rge. 9E
Elev. ____

SHOW LOCATION IN SECTION PLAT
NW NW NW
(PERMIT)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Black Steel 14.98	0	40

16. Size Hole below casing: 5 in.
17. Static level 16 ft. below casing top which is 1 ft. above ground level. Pumping level 16 ft. when pumping at 10 gpm for 4 hours. Sub pump at 20'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay & Gravel	40	40
Limestone	-	40

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Donald Rob DATE 8-15-79

COUNTY No. 27771

WILL 3-34N-9E

.6, STATE OFFICE BUILDING, SPRINGFIELD,
CAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 4-29-72

10. Property owner Shong Const. Well No. _____
Address Wilverne Station Rt 66 Channahon
Driller Paul Knierim License No. 92-518
11. Permit No. 17373 Date 4-26-72
12. Water from Limestone (Formation) 13. County Will
at depth 13 to 200 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 22
Twp. 34N
Rge. 9E
Elev. _____

SHOW LOCATION IN SECTION PLAT

NW SE NW (permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk. 15#	0	50

16. Size Hole below casing: 5 in.
17. Static level 13 ft. below casing top which is 1 ft. above ground level. Pumping level 84 ft. when pumping at 20 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Overburden	0	50
Rock formation	50	200

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knierim DATE 8-15-72

COUNTY No 2695

WILL 22-34N-9E

(45899—20M—3-52)

3

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Cable Tools Strata	Thickness	Top	Bottom
Top Soil-Gravel		0	25
Grey Lime		25	30
White Lime		30	35
Pink Lime		35	40
Grey Lime		40	60
Greenish Grey Lime		60	75
Light Grey Lime		75	100
Dark Lime		100	140
Shale		140	150
Grey Lime		150	185
Shale		185	255
Grey Lime		255	325
Lime		325	365
			TD

Casing: 50' of 10", pulled.
180' of 8", pulled.
360' of 6", pulled.

Dry and abandoned. Plugged August 1, 1952.

Electric log filed.
Sample set #21638.

COMPANY Charles L. Reed NO. -
FARM Lewis NO. 1
DATE DRILLED August, 1952 COUNTY NO.
AUTHORITY Charles L. Reed
ELEVATION 580' GL-El.
LOCATION 330' S. line, 330' E. line of SW NE
COUNTY WILL 10-34N-9E

(5)

TOWN

TOWNSHIP Channahan R. 9E

COMPANY Wm. Breitzke NO. T. SEC.

FARM Hecht, Maurice NO. 34N 2

DATE DRILLED 1944

AUTHORITY Wm. Breitzke

COLLECTOR ELEVATION 570 T M

S ½, S½ of SW

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	20' SW corner of house				
	Coarse gravel			1-22	
	Struck rock at 22'; drove pipe to 26' 1st water at 38' Struck shale at 52'. It must be a fresh seam as there are 1 or 2' of shale and then the rock gets hard.				
	Total depth			66	
	Tested at 8 g.p.m. with 60' pump pipe used. Water level stands at 30' ground level. 4" well				

COUNTY Will 2-34N-9E

SAMPLE SET NO. 11828

(84107—20M—6-45) 2

ILLINOIS GEOLOGICAL SURVEY, URBANA