APR 24 1995

LINCOLN
APPLIED GEOLOGY, INC.
ENVIRONMENTAL CONSULTANTS

April 21, 1995

Mr. Matt Moran
Sites Management Section
Vermont Department of
Environmental Conservation
103 South Main Street
Waterbury, Vermont 05676

RE: Booth Residence, Williamstown, Vermont (VDEC Site #95-1756) - Investigation and VES Installation Report

Dear Mr. Moran:

Lincoln Applied Geology, Inc. (LAG) has completed the approved subsurface investigation and remedial system installation at the Booth residence site. The data collected during the investigation indicates that no adverse impacts to ground water quality downgradient of the spill source area have occurred. It also appears that the newly installed soil vapor extraction system (VES) is quite effective at residual contaminant removal from the vadose zone. Continued operation of the VES should result in the recovery of residual contamination which will limit the potential impact to the ground water. We believe that the only additional site work necessary at this time is the routine monitoring and maintenance of the VES and quarterly sampling of the ground water monitoring well located on-site.

The Booth residence consists of a trailer located in a small development in Williamstown, Vermont. The general location of the site is shown on **Figure 1**. A Regional Location Map based on the Williamstown Tax Map is presented as **Figure 2**. This shows the relative locations of the trailers and the residence located on the Fuller property. The Booth residence is located on the southern portion of the property approximately 75 feet east of Railroad Street. A detailed site map locating pertinent structures associated with the Booth residence is presented as **Figure 3** the Detailed Site Map. As was mentioned in previous correspondence, the Booth residence and all of the residences in the general area are served by municipal water and sewage disposal systems. The Booth residence is located very near an embankment to the east which has shown some evidence of being previously used as a sand and gravel pit. To the west of the Booth residence is a low lying floodplain type area associated with the Stevens Branch.

On March 15, 1995 Lincoln Applied Geology, Inc. (LAG) initiated subsurface investigations by installing two soil vapor extraction wells directly adjacent to the spill area and soils excavation area. Two ground water monitoring wells were also installed

RD # 1 Box 710 • Bristol, Vermont 05443 • (802) 453-4384 • FAX (802) 453-5399

to the west of the Booth residence in the assumed downgradient ground water flow direction. All four of the wells were installed utilizing hand augering techniques. The soils were evaluated for textural and structural characteristics and screened with an HNU photoionization detector (PID) for evidence of volatile ionizable organic compounds that are constituents of kerosene and other petroleum products. Detailed well logs with soil descriptions and PID readings are enclosed as **Appendix A**. Generally, the soils consist of coarse sandy loams with a significant percentage of rocks and pebbles. There is evidence of several interfingered silty sand lenses. Ground water was only encountered in one of the wells (labeled AH-2 on **Figure 3**) at a depth of 10 feet below grade.

With regard to soil contaminant levels, PID readings of 20 to 140 parts per million (ppm) were generated by the 10 feet of soil penetrated at VW-1 and VW-2. In each case auger refusal was encountered 10 feet below grade. Appropriate lengths and amounts of well screen, riser, sand pack, and seal were installed. Details regarding PID readings and well construction are also included in **Appendix A**. As can be noted in **Appendix A** PID readings decreased with depth in both VW-1 and VW-2. This tends to indicate that the majority of the contaminants are located in the top 7 feet of the soil profile in this area. The removal of approximately 10 yards of highly contaminated soil by North Country Environmental Services (NCES) at the time of the spill event has assisted in the reduction of the contaminant source and the potential for contaminant migration. This soil has since been transported off-site for asphalt batching (10.25 tons). - manifest?

No positive PID readings or olfactory indications of contamination were noted in the soils associated with AH-1 and AH-2. In our original work plan it was indicated that two ground water monitoring wells would be installed to the west of the Booth trailer. However, due to considerable difficulties with hand augering in these areas AH-1 was terminated at 7 feet and did not penetrate ground water. However, AH-2 was successfully installed into ground water which was encountered at approximately 10 feet below grade. No evidence of petroleum contamination was seen on the ground water or soils in either of the AH well locations.

Table 1 presents ground water elevation readings from each of the monitoring wells on-site. As can be seen, AH-2 is the only well containing ground water. The ground water has fluctuated from 9.5 to 10 feet below grade. No sheens or evidence of free phase petroleum product have been observed or measured using an interface probe. Due to the lack of wells that penetrate ground water, the generation of a ground water contour map is impossible. However, detailed field reconnaissance of the general area certainly indicates that ground water is generally flowing from east to west

where it ultimately discharges into the Stevens Branch of the Winooski River. We are confident that if the ground water beneath the source area was impacted, the impacts would be identifiable in AH-2.

PID measurement of the headspace of each of the monitoring wells and the Booth residence have occurred on a regular basis. The data presented as **Table 2** indicates that very low to background readings of photoionizable vapors have been measured in AH-1 and AH-2. However significant vapors have been measured in VW-1 and VW-2 with the highest assay being 120 ppm. No quantifiable PID assays or olfactory evidence of vapor has been measured within the Booth residence. Detailed discussion of the vapor extraction system and system PID results are included later in this report.

A ground water sample was procured from AH-2 after appropriate purging and equilibration. The sample was analyzed for the presence of BTEX constituents and MTBE. The chromatogram of the analysis has also been analyzed. To date no quantifiable levels of petroleum contamination are seen in AH-2. This indicates that significant contamination of the ground water beneath the spill source area has not occurred. A copy of the laboratory report is included in **Appendix B**, and a summary has been initiated as **Table 3**. We are confident that if significant quantities of petroleum product encountered the ground water in the source area that it would have migrated to the AH-2 area by this time. As you may recall the original spill event occurred in January 1995. Based on the coarse nature of the soils and the overall site topography we would have expected to observe water quality impacts in AH-2 by now, if they were to occur. Based on our cumulative data we believe that the vast majority of the spilled kerosene has been adsorbed by the vadose zone soils.

A limited soil vapor extraction feasibility test was performed on VW-1 and VW-2 in order to properly size the extraction blower. The test consisted of applying increasing steps of vacuum on the extraction wells. The flow and contaminant concentration of the extracted air was measured during each "step". Induced vacuum in the other 3 wells on-site was measured after approximately one half hour of operation at each "step". The vapor extraction test results are presented on **Table 4**. They indicate that between 50 and 115 cubic feet per minute (cfm) of contaminated air can be removed from VW-1 or VW-2 at relatively low vacuums of 10 to 30 inches of water. Contaminant concentrations of the extracted air ranged from 68 to 96 ppm measured by PID. **Table 4** also indicates that a significant (i.e. greater than 0.1") vacuum was measured in each of the other wells on-site.

Using the result of the vapor extraction test we were able to determine the

relative radius of vacuum influence, contaminant loading, and optimum air flows for VW-1 and VW-2. This information was utilized to specify the size and performance characteristics of the vapor extraction blower currently located on-site. The data in **Table 4** was utilized to create **Charts 1, 2, 3, 4,** and **5**. **Charts 1, 2,** and **3** present the logarithmic best fit curve of the induced vacuum data for each step of the test performed on VW-1. The charts for the VW-2 data are not presented as they directly mimic those of VW-1. **Charts 1 through 3** generally indicate that greater than 0.1 inches of water vacuum is created 25 feet away from VW-1. **Chart 4** presents the contaminant loading data (i.e. mass removal) for each extraction flow rate. Flattening the best fit line drawn through this data indicates where diminishing returns of mass removal occur. This area is generally between 80 and 100 cfm. Optimum air flow removal rates are shown on **Chart 5**. This graph also shows where diminishing returns of air flow rate occur regardless of induced test vacuums. This also generally appears to be in the 80 to 120 cfm range. Utilizing **Charts 1** through **5** and blower specification data, a 1.5 horsepower Rotron regenerative blower was determined to be the most economical choice for soil vapor extraction activities.

The 1.5 horsepower blower was installed after some minor modifications to the Booth electrical service on March 16, 1995. The system is currently creating 6 inches of water vacuum at VW-1 and VW-2 and has a total contaminated vapor flow rate of 92 cfm. **Table 2** presents PID results of the influent to the carbon treatment units located at the south end of the Booth residence. Initially air being extracted from VW-1 and VW-2 was contaminated with 116 to 120 ppm of petroleum vapors. This level has decreased to less than 50 ppm. Utilizing the air flow rate and influent PID readings, an estimate of the total gallons of petroleum product recovered to date can be made. To date we estimate that approximately 13 gallons of product has been recovered utilizing the soil vapor extraction system. **Chart 6** shows the historical vapor recovery data trends.

A walking survey of the regional area coupled with detailed review of water supply records at the Vermont Department of Environmental Conservation (VDEC) was performed to determine if any additional potential sensitive receptors exist in the area. The well records for the town of Williamstown are enclosed as **Appendix C**. Directly to the west of the Booth residence on the western side of Railroad Street is a wetland type area assumed to be directly downgradient of the source of contamination. Significant amounts of fill, refuse, and appliance type debris currently exists in the wetland area. Review of the VDEC water supply well logs indicates that the former Wiliamstown public sand and gravel wells are located approximately one quarter mile to the north of the Booth residence. However, these wells are not currently in use due to contamination from a historical hazardous waste site located in Williamstown. We

currently believe that the potential sensitive receptors at risk of contamination are the indoor air space of the Booth residence and the ground water directly beneath the spill area. We believe that with the continued operation of the VES system and the prior removal of the source by NCES has greatly minimized the risk of contamination.

All of the data collected to date indicates that little to no adverse impact to the ground water beneath the Booth residence has occurred. The removal of the majority of the contaminated soils by NCES coupled with the current VES activities appear to have precluded the contamination of the ground water. We believe that the VES will adequately recover the residual contamination located beneath the Booth residence. In an effort to continue the positive progress of site cleanup we recommend that the following tasks be undertaken:

1. Continue regular (biweekly) monitoring of each of the wells on-site for water level and PID coupled with routine maintenance and monitoring of the soil vapor extraction system. Quarterly ground water quality sampling from any on-site wells containing ground water should also be performed.

2. Prepare quarterly updates presenting the data collected to ensure that conditions on-site are continually improving.

We believe that all of the significant contamination located on-site can be adequately remediated by the end of the fall of 1995. We fully anticipate that active VES operation will be concluded prior to this time. We will continue with biweekly site visits and await your response. If you have any questions or concerns with regard to any of the information in this report please contact either myself of John Amadon.

Sincerely,

Steven LaRosa
Geologist

SL/smk
enclosures
cc: Mike McCarley, NCES

Lincoln Applied Geology, Inc.
Environmental Consultants
RD # 1 Box 710 • Bristol, Vermont 05443 • (802) 453-4384 • FAX (802) 453-5399

Project: Booth Residence
Location: Williamstown, Vermont

Table 1
VDEC Site # 95-1756
Sheet 1 of 1

Ground Water Elevation/Product Level (feet)

Data Point	TOC	03/16/95	03/28/95	04/06/95	04/10/95			
AH-1	100.00	<94.00	<94.00	<94.10	<94.00			
AH-2	96.08	86.25	85.64	85.39	85.22			
VW-1	104.28	<92.16	<91.93	<92.00	<91.94			
VW-2	103.99	<91.91	<91.68	<91.76	<91.67			

Notes:
1 - Elevation datum assumed
2 - Reference elevation is elevation of top of PVC well casing
Light Grey Cell = DRY
Dark Grey Cell = Inaccessible

Project: Booth Residence
Location: Williamstown, Vermont

Table 2
VDEC Site # 95-1756
Sheet 1 of 1

Photoionization Results (PID - ppm)

Data Point	03/16/95	03/28/95	04/06/95	04/10/95			
AH-1	1.0	1.2	BG	BG			
AH-2	2.8	0.2	BG	BG			
VW-1	120	110	102	9.8			
VW-2	46	94	89	15.0			
Booth Residence		BG	BG	BG			
VES Influent		116	120	30			
Between Canisters		BG	10.0	1.0			
Effluent		BG	BG	BG			

Notes:
BG - Background
SL - Saturated Lamp

Project: Booth Residence
Location: Williamstown, Vermont

Table 3
VDEC Site # 95-1756

Ground Water Quality Results (ppb)

Data Point	03/15/95						
AH-1							
AH-2	<5 <6						
VW-1							
VW-2							

NOTES:
MTBE in upper right corner of cell
BTEX in lower left corner of cell
< - Contaminant not detected at specified detection limit

Project: Booth Residence
Location: Williamstown , Vermont

Table 4
VDEC Site # 95-1756
Sheet 1 of 1

Vapor Extraction Test Results

VW-1	Induced Vacuum (in H2O) VW-2	AH-1	AH-2				Flow (cfm)	PID (ppm)
Distance from Well	13'	22'	44'					
10"	0.20	0.20	0.12				50	70
20"	0.45	0.45	0.28				88	68
28"	0.55	0.56	0.36				108	70

VW-2	Induced Vacuum (in H2O) VW-1	AH-1	AH-2				Flow (cfm)	PID (ppm)
Distance from Well	13'	21'	39'					
10"	0.24	0.20	0.14				56	96
20"	0.50	0.42	0.30				104	92
23"	0.58	0.50	0.34				115	90

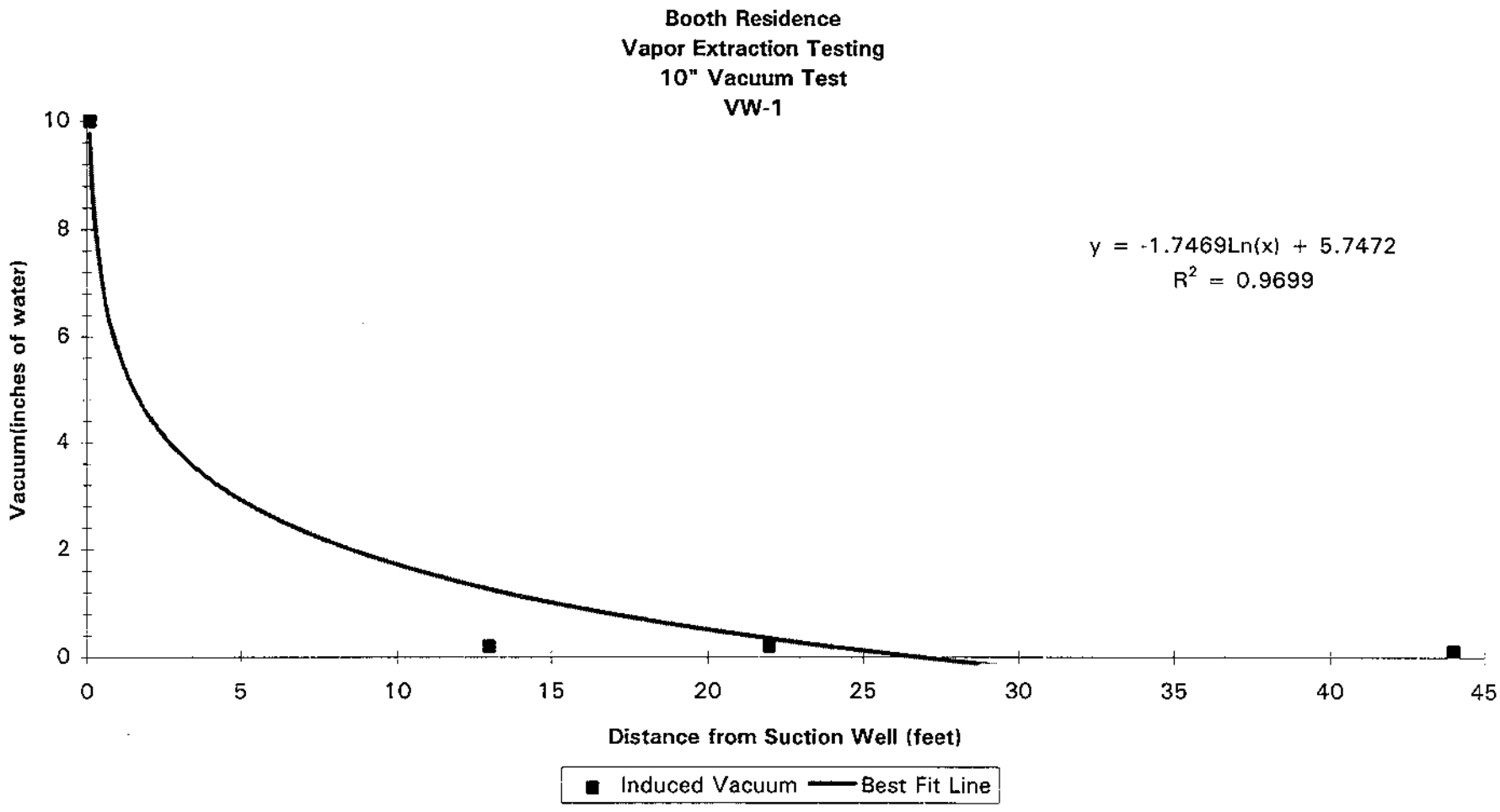

Booth Residence
Vapor Extraction Testing
10" Vacuum Test
VW-1
y = -1.7469Ln(x) + 5.7472
R² = 0.9699
Vacuum(inches of water)
10
8
6
4
2
0
0
5
10
15
20
25
30
35
40
45
Distance from Suction Well (feet)
Induced Vacuum
Best Fit Line

Chart 1

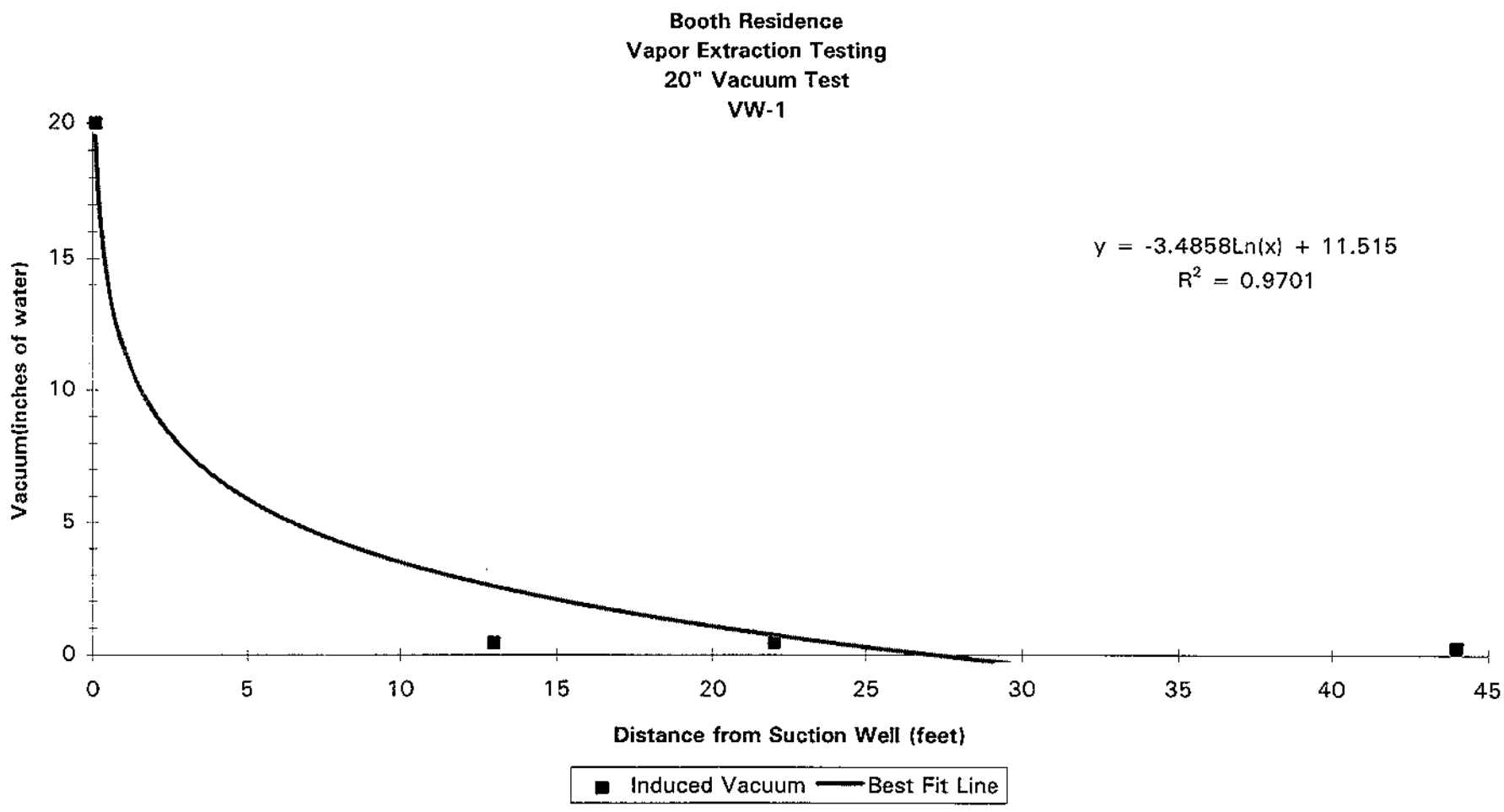

Booth Residence
Vapor Extraction Testing
20" Vacuum Test
VW-1
y = -3.4858Ln(x) + 11.515
R² = 0.9701
Vacuum(inches of water)
20
15
10
5
0
0
5
10
15
20
25
30
35
40
45
Distance from Suction Well (feet)
Induced Vacuum
Best Fit Line

Chart 2

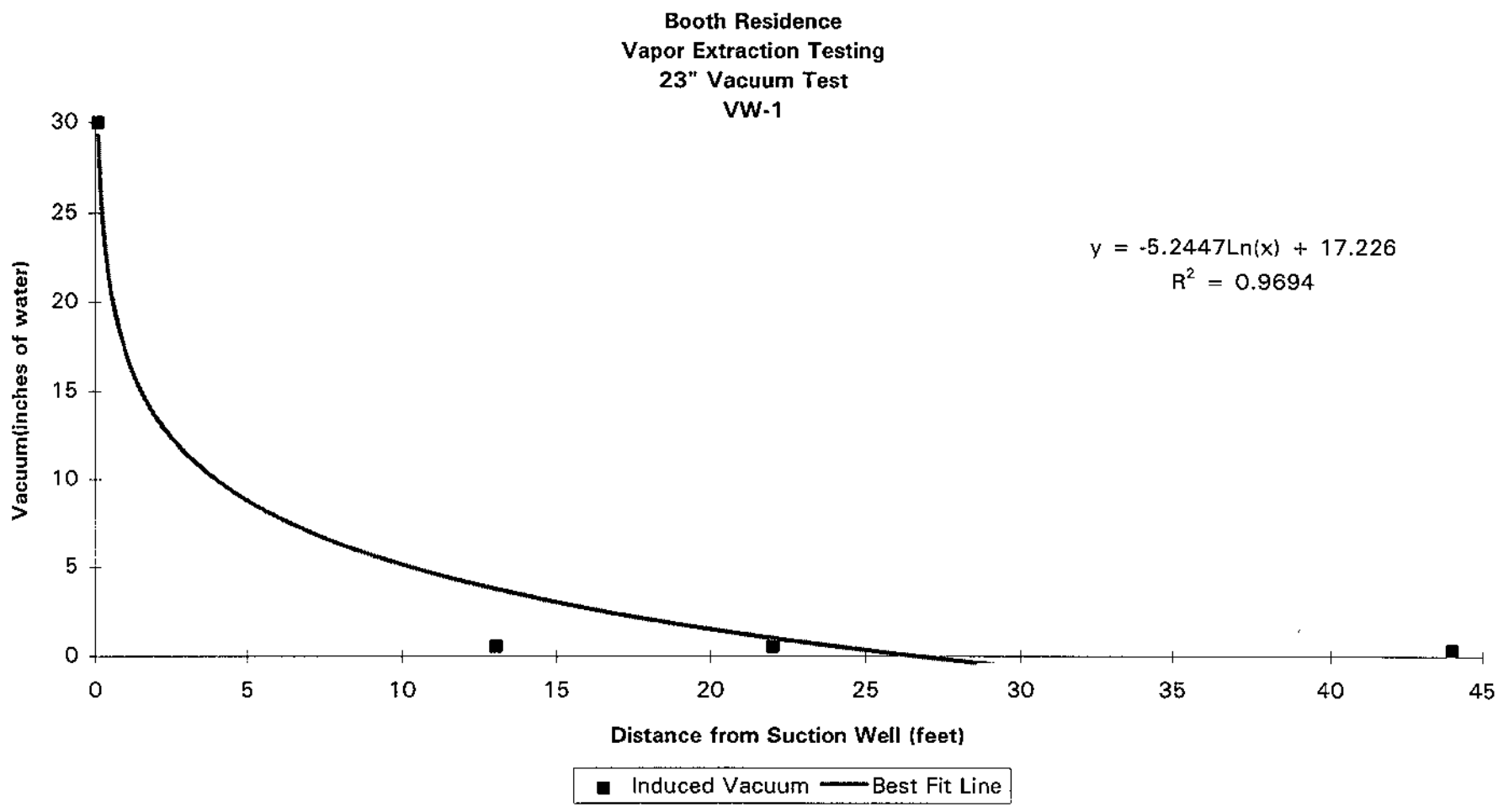

Booth Residence
Vapor Extraction Testing
23" Vacuum Test
VW-1
y = -5.2447Ln(x) + 17.226
R² = 0.9694
Vacuum(inches of water)
30
25
20
15
10
5
0
0
5
10
15
20
25
30
35
40
45
Distance from Suction Well (feet)
Induced Vacuum
Best Fit Line

Chart 3

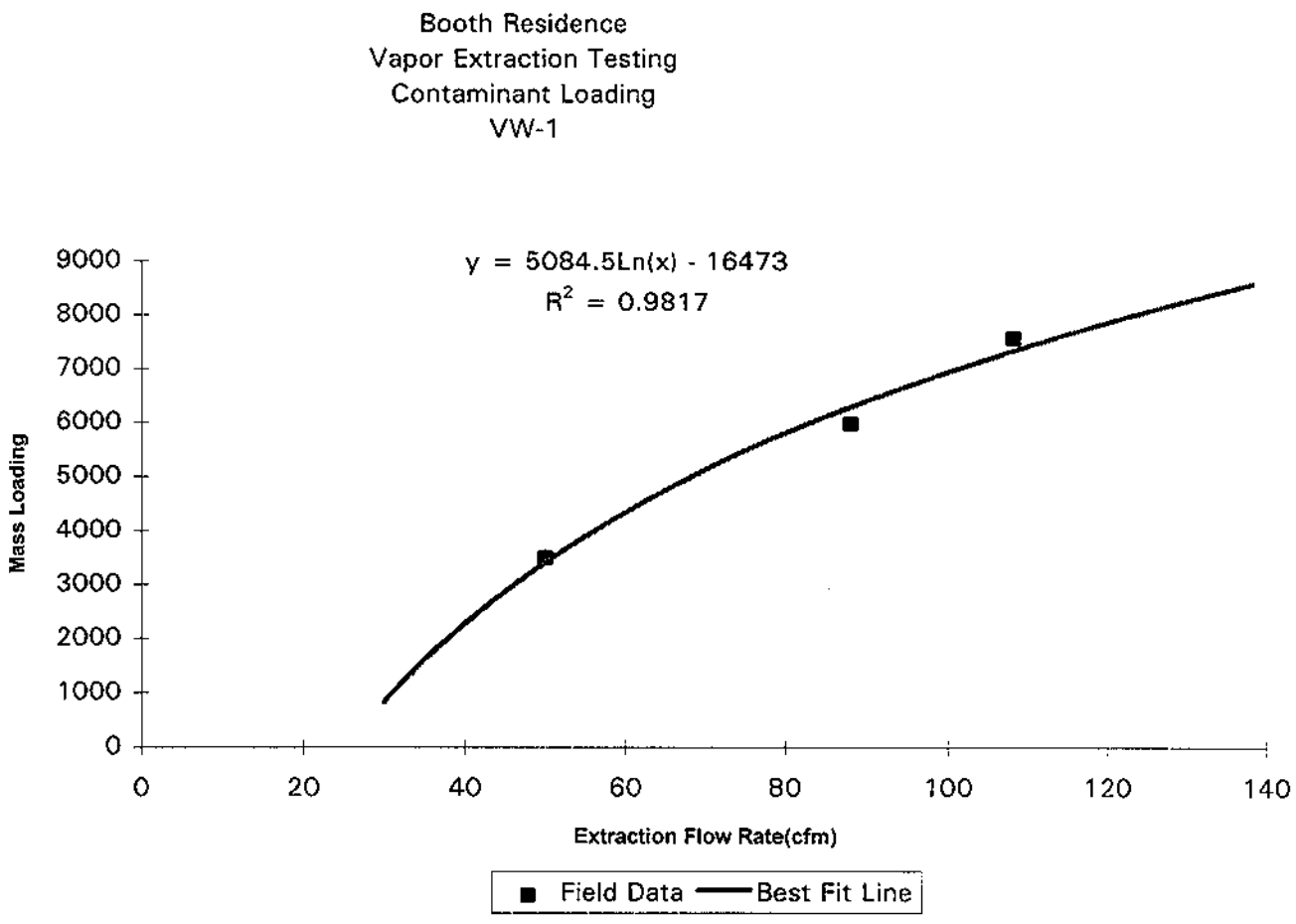

Booth Residence
Vapor Extraction Testing
Contaminant Loading
VW-1
y = 5084.5Ln(x) - 16473
R2 = 0.9817
Mass Loading
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
20
40
60
80
100
120
140
Extraction Flow Rate(cfm)
Field Data
Best Fit Line

Chart 4

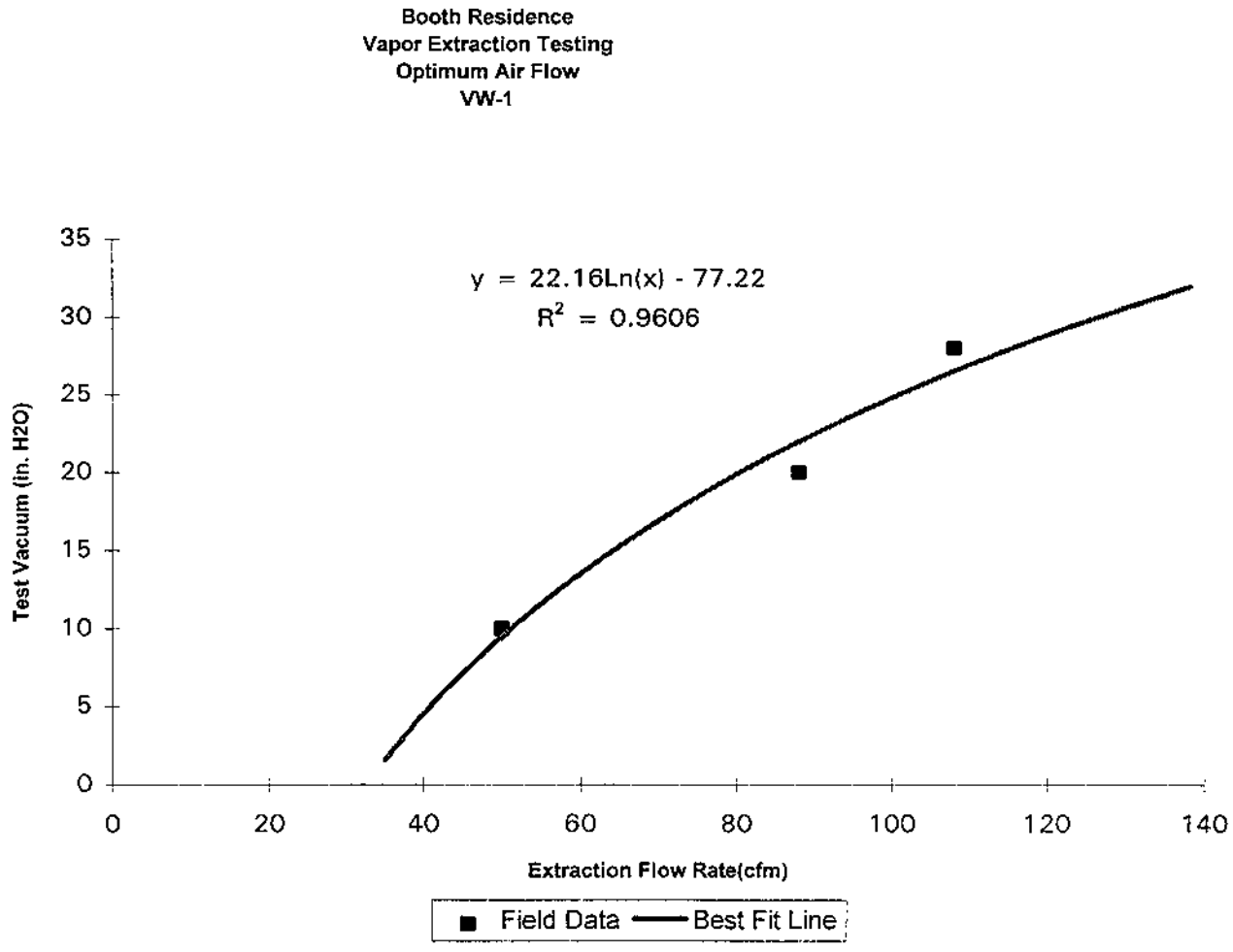

Booth Residence
Vapor Extraction Testing
Optimum Air Flow
VW-1
y = 22.16Ln(x) - 77.22
R² = 0.9606
Test Vacuum (in. H2O)
35
30
25
20
15
10
5
0
0
20
40
60
80
100
120
140
Extraction Flow Rate(cfm)
Field Data
Best Fit Line

Chart 5

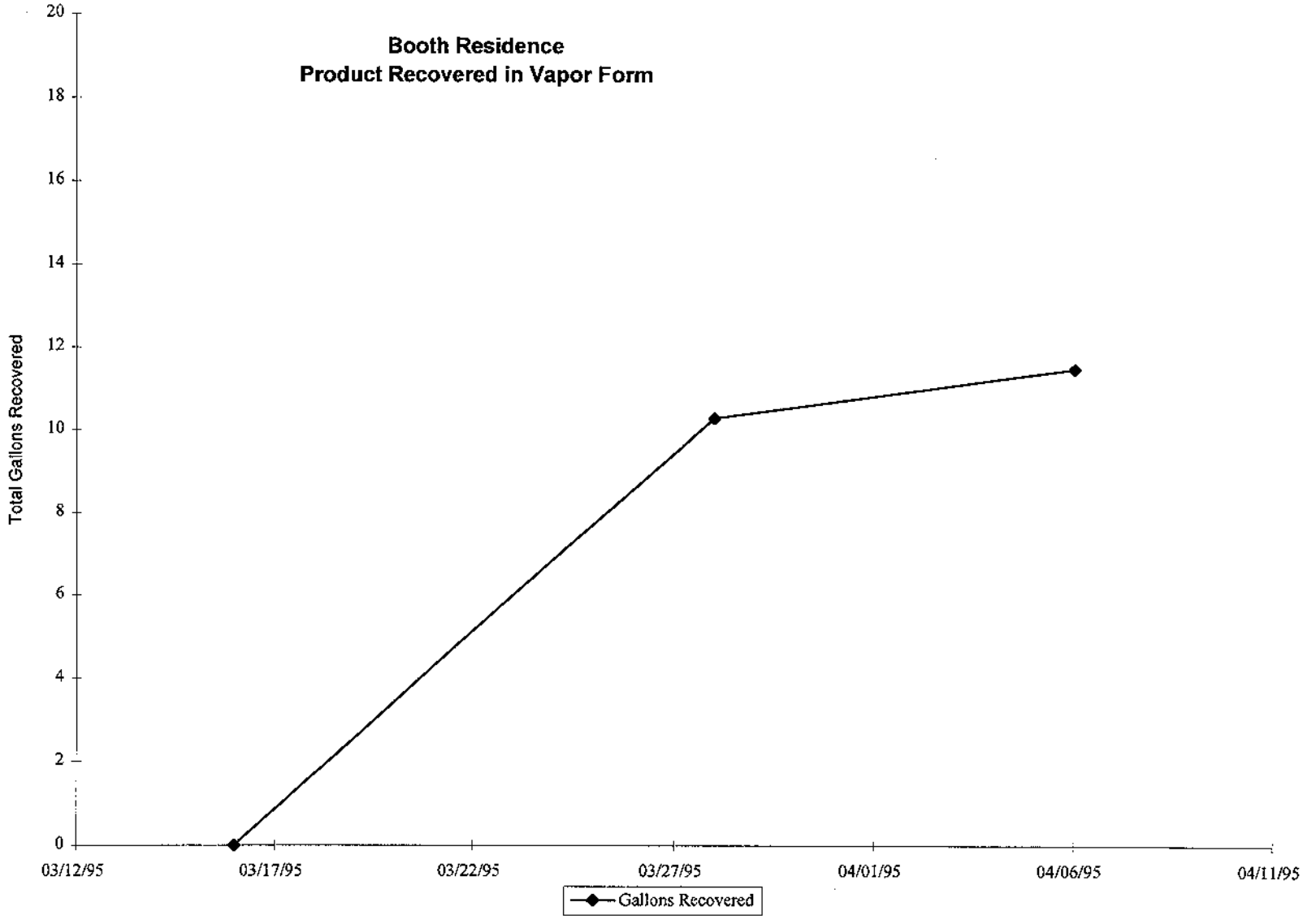
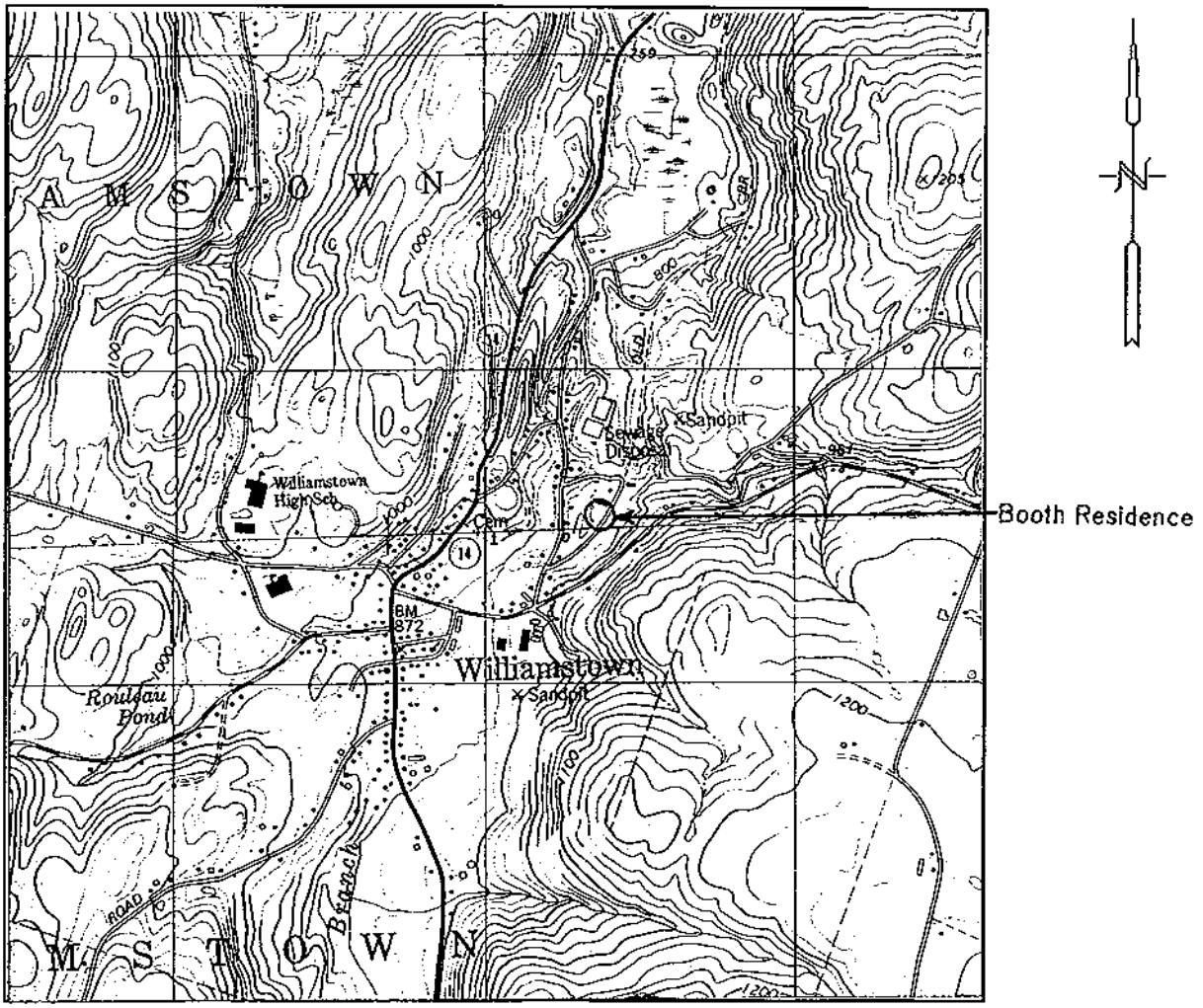

Booth Residence
Product Recovered in Vapor Form
Total Gallons Recovered
20
18
16
14
12
10
8
6
4
2
0
03/12/95
03/17/95
03/22/95
03/27/95
04/01/95
04/06/95
04/11/95
Gallons Recovered

Chart 6

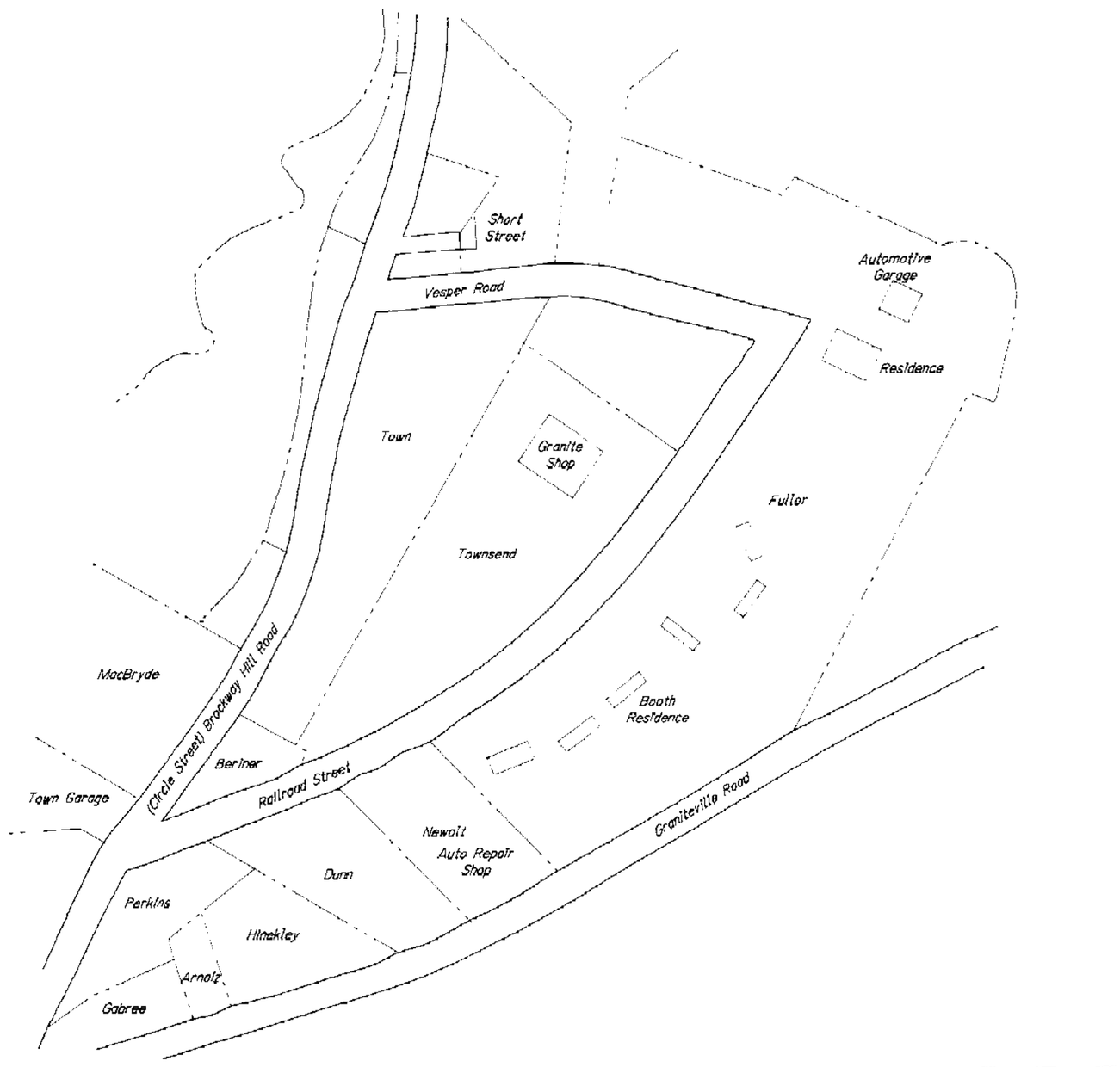
Figure 1

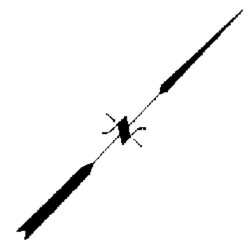
Booth Residence
Williamstown, Vermont
GENERAL LOCATION MAP



Source: U.S.G.S. 7.5 Min
Topo Series
Barre West
and Brookfield Quads.

Scale: 1" = 2,000'





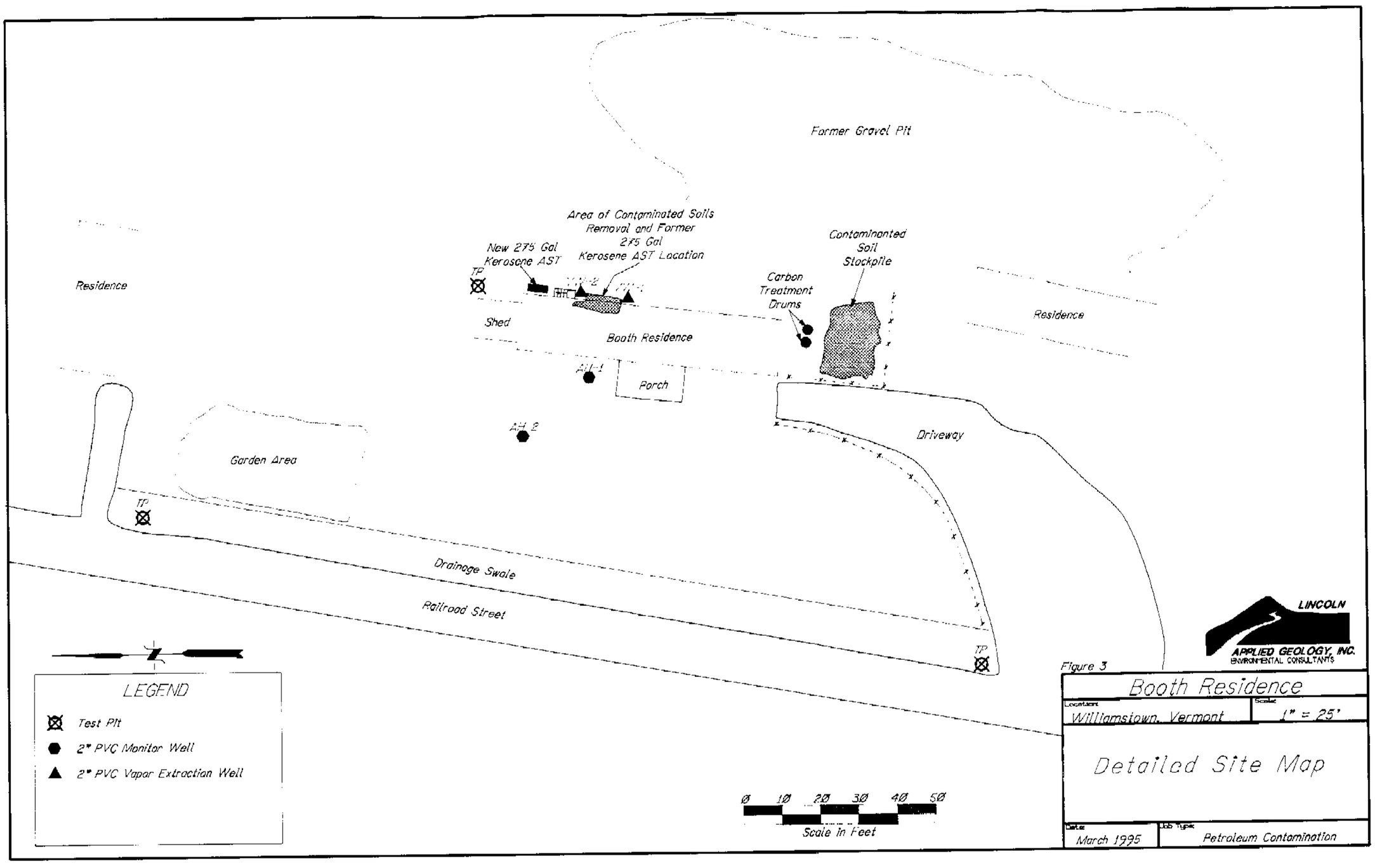
LEGEND

Property Boundary
Structure (Building)

LINCOLN
APPLIED GEOLOGY, INC.
ENVIRONMENTAL CONSULTANTS

Figure 2

Booth Residence	
Location: Williamstown, Vermont	Scale: 1" = 210'
Regional Location Map (Tax Map Based)	
Date: March 1995	Data Type: Petroleum Contamination


Former Gravel Pit
Area of Contaminated Soils Removal and Former 275 Gal Kerosene AST Location
New 275 Gal Kerosene AST
TP
Contaminanted Soil Stockpile
Carbon Treatment Drums
Residence
Shed
Booth Residence
Residence
AH-1
Porch
AH-2
Driveway
Garden Area
TP
Drainage Swale
Railroad Street
TP
LEGEND
Test Pit
2" PVC Monitor Well
2" PVC Vapor Extraction Well
0 10 20 30 40 50
Scale in Feet
LINCOLN
APPLIED GEOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
Figure 3
Booth Residence
Location
Williamstown, Vermont
Scale
1" = 25'
Detailed Site Map
Date
March 1995
Job Type
Petroleum Contamination

Appendix A

Well Logs

WELL LOG

WELL:	VW-1
LOCATION:	Booth Residence - south of excavation area
DRILLER:	Lincoln Applied Geology, Inc.
HYDROGEOLOGIST:	Steven LaRosa, Lincoln Applied Geology, Inc.
DATE:	March 15, 1995

Soils Description: (**BG = Background** [ ], **SL = Saturated Lamp** [>500], **ppm = Parts Per Million**)

Depth	Description	PID (ppm)
0 - 7.0'	Black coarse sandy loam with 20 - 40% fragments .5 - 1.5". Some 2 - 3" thick very fine sand lenses between 4' and 5'.	1' - 92 3.5' - 40 5' - 60
7.0' - 7.5'	Olive nearly saturated silty medium sand.	50
7.5' - 10'	Black coarse sandy loam as above, much drier than 7.0' area. Considerable amounts of fractured schist at 10'.	20
	Refusal - 10'	

Well Construction:

Bottom of Boring:	10'
Bottom of Well:	10'
Well Screen:	7' of 2" sch. 40 .020" slot PVC
Solid Riser:	5' of 2" sch. 40 PVC
Sand Pack:	10' - 2'
Bentonite Seal:	2' - .5'
Backfill:	None
Well Box:	1.94" stick up

WELL LOG

WELL:	VW-2
LOCATION:	Booth Residence - north of excavation
DRILLER:	Lincoln Applied Geology, Inc.
HYDROGEOLOGIST:	Steven LaRosa, Lincoln Applied Geology, Inc.
DATE:	March 15, 1995

Soils Description: (**BG = Background [ ], SL = Saturated Lamp** [>500], **ppm = Parts Per Million**)

Depth	Description	PID (ppm)
0 - 10'	Black coarse sandy loam with 20 - 40% fragments. Some intermittent finer sand lenses.	1.5' - 40 5' - 140 8.3' - 58 10' - 46
	Refusal at 10'	

Well Construction:

Bottom of Boring:	10.2'
Bottom of Well:	10.2'
Well Screen:	7' of 2" sch.40 .020" slot PVC
Solid Riser:	5' of 2" sch. 40 PVC
Sand Pack:	10' - 2'
Bentonite Seal:	2' - .5'
Backfill:	None
Well Box:	1.76" stick up

WELL LOG

WELL:	AH-1
LOCATION:	Booth Residence - west side of trailer
DRILLER:	Lincoln Applied Geology, Inc.
HYDROGEOLOGIST:	Steven LaRosa, Lincoln Applied Geology, Inc.
DATE:	March 15, 1995

Soils Description: (**BG = Background [ ], SL = Saturated Lamp** [>500], **ppm = Parts Per Million**)

Depth	Description	PID (ppm)
0 - 7.0'	Black coarse sandy loam with <20% fragments.	BG
	Refusal at 7.0'.	

Well Construction:

Bottom of Boring:	6.5'
Bottom of Well:	6.5'
Well Screen:	3' of 2" sch. 40 .020" slot PVC
Solid Riser:	3' of 2" sch. 40 PVC
Sand Pack:	6.5' - 2.5'
Bentonite Seal:	2.5' - 1.5'
Backfill:	None
Well Box:	Flush

WELL LOG

WELL: AH-2
LOCATION: Booth Residence - in drainage swale west of trailer
DRILLER: Lincoln Applied Geology, Inc.
HYDROGEOLOGIST: Steven LaRosa, Lincoln Applied Geology, Inc.
DATE: March 15, 1995

Soils Description: **(BG = Background [ ], SL = Saturated Lamp [>500], ppm = Parts Per Million)**

Depth	Description	PID (ppm)
0 - 8'	Black coarse sandy loam with some fragments.	BG
8' - 10'	Red/orange well oxidized coarse sand with little silt.	BG
10' - 13'	Saturated olive coarse sand with little silt.	BG

Well Construction:

Bottom of Boring: 13'
Bottom of Well: 13'
Well Screen: 7' of 2" sch. 40 .020" slot PVC
Solid Riser: 5' of 2" sch. 40 PVC
Sand Pack: 13' - 3.5'
Bentonite Seal: 3.5' - 2'
Backfill: None
Well Box: Flush

Appendix B

Laboratory Analysis

MICROASSAYS OF VERMONT INCORPORATED

RECEIVED
LINCOLN APPLIED GEOLOGY, INC.

LABORATORY ANALYSIS

CLIENT NAME:	Lincoln Applied Geology	REF #:	10894
ADDRESS:	RD#1 Box 710 Bristol, VT 05443	PROJECT NO.:	not given
SAMPLE LOCATION:	Booth Residence	DATE OF SAMPLE:	3/15/95
SAMPLER:	Brian Cousino	DATE OF RECEIPT:	3/15/95
		DATE OF ANALYSIS:	3/28/95
ATTENTION:	John Amadon/Steve Larosa	DATE OF REPORT:	3/30/95

Pertaining to the analyses of specimens submitted under the accompanying chain of custody form, please note the following:

- Water samples submitted for VOC analysis were preserved with HCl.
- Specimens were processed and examined according to the procedures outlined in the specified method.
- Holding times were honored.
- Instruments were appropriately tuned and calibrations were checked with the frequencies required in the specified method.
- Blank contamination was not observed at levels interfering with the analytical results.
- Continuing calibration standards were monitored at intervals indicated in the specified method. The resulting analytical precision and accuracy were determined to be within method QA/QC acceptance limits.
- The efficiency of analyte recovery for individual samples was monitored by the addition of surrogate analytes to all samples, standards, and blanks. Surrogate recoveries were found to be within laboratory QA/QC acceptance limits, unless noted otherwise.

Reviewed by:

Alison C. Couture

Director, Chemical Services

MicroAssays of Vermont, Inc. P.O. Box 189 Middlesex, Vermont 05602 (802) 223-1468 FAX 223-8688

MICROASSAYS OF VERMONT INCORPORATED

RECEIVED
LINCOLN APPLIED GEOLOGY, INC.

LABORATORY REPORT

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Booth Residence	MAV REF.#:	10,894
REPORT DATE:	March 30, 1995	STATION:	AH-2
DATE SAMPLED:	March 15, 1995	TIME SAMPLED:	15:50
DATE RECEIVED:	March 15, 1995	SAMPLER:	Brian Cousino
ANALYSIS DATE:	March 28, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	1	BPQL
Toluene	1	BPQL
Ethylbenzene	1	BPQL
Xylenes	3	BPQL
MTBE	5	BPQL

Surrogate % Recovery: 85%

BPQL = Below Practical Quantitation Limit (PQL).

MicroAssays of Vermont, Inc. P.O. Box 189 Middlesex, Vermont 05602 (802) 223-1468 FAX 223-8688

CHAIN OF CUSTODY RECORD

MicroAssays of Vermont
RR#3 Box 5210 P.O. Box 189
Montpelier, VT 05602
Ph. (802)223-1468 Fax (802)223-8688

Page 1 of 1

MAV # 10894

CLIENT NAME: Lincoln Applied Geology
ADDRESS: RD1 Box 710 Bristol Vt 05443
PROJECT NAME: Booth Residence
PROJECT NUMBER:
PROJECT MANAGER: STeve L
SAMPLER: Brian C

ANALYSIS REQUESTED

Sample Location	Date	Time	# of cont.	pres ervd	Sample Type	BTEX MTBE											REMARKS:
- AH-2	3-15-95	15:50	2	HCL	40mL	✓											

Relinquished by:	Received by:	Date/Time	Relinquished by:	Received by:	Date/Time
Brian McCown	[signature]	3/15/95 4:45 P/m			

Appendix C

Basic Well Data

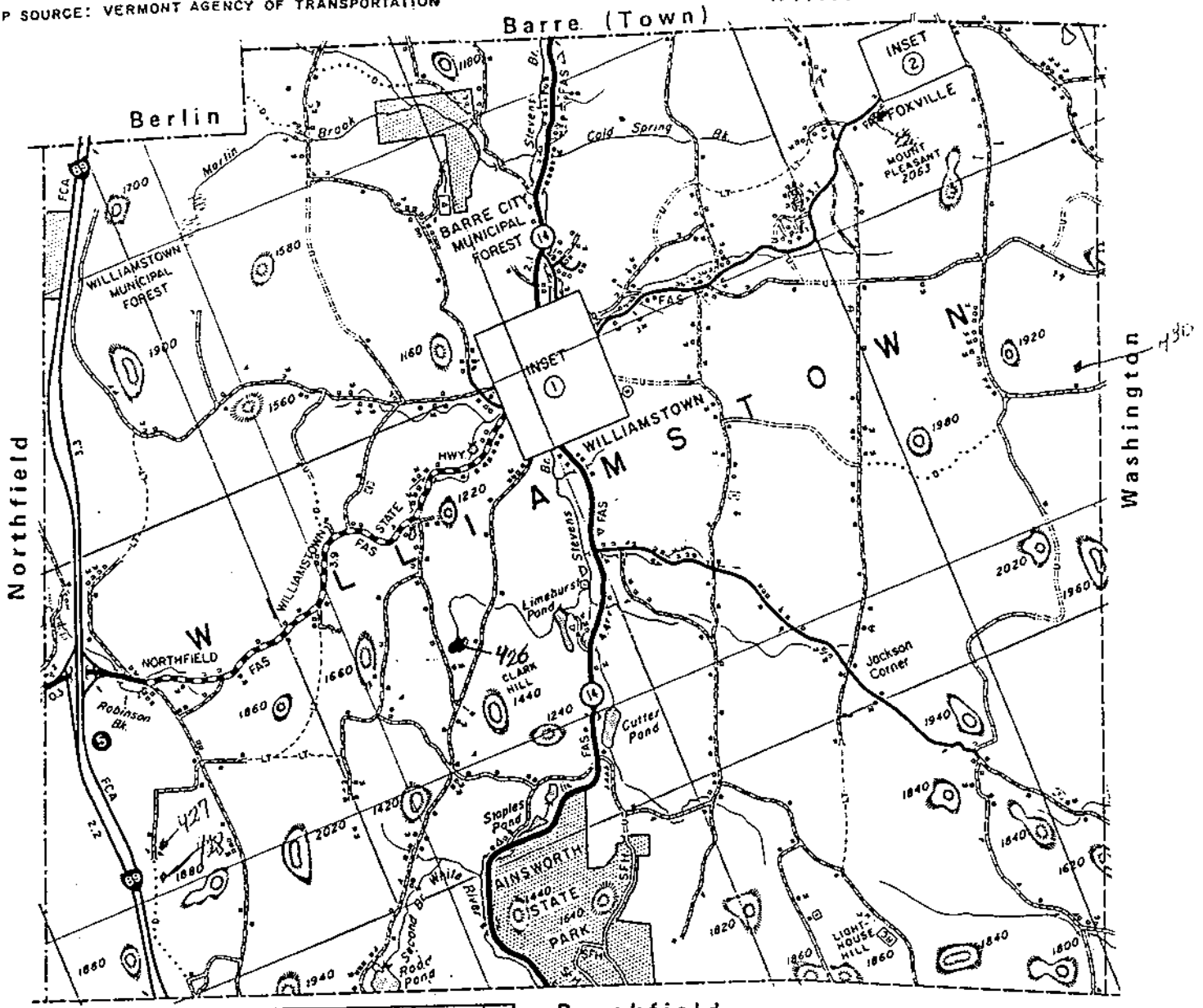
BASIC WELL DATA

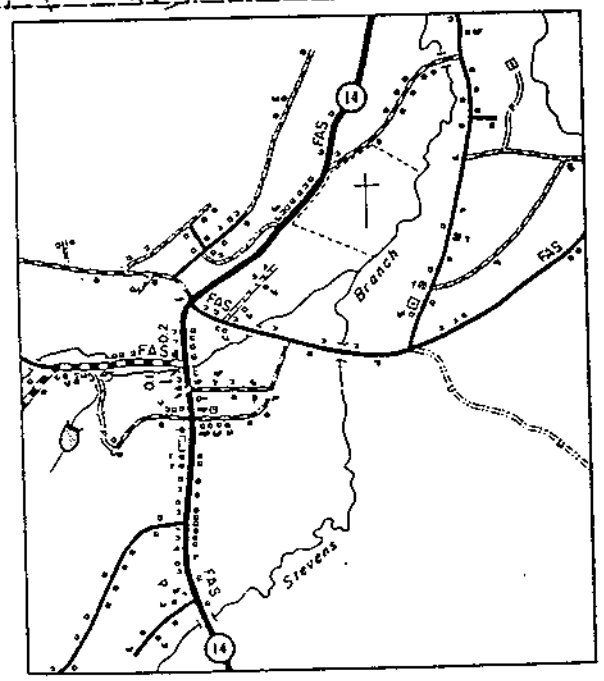
TOWN WILLIAMSTOWN

WELLS 426-450

NUMBER WR	NUMBER USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET	STATIC WATER LEVEL	YR DR	DRILL NO.	REMARKS
426		MICHAEL FLIES	34D4	30	160	10	31	40	94	16	
427		Duane Wells Construction (P)	34D1	7.5	125	4	20	8	94	165	
428		Larry + Brenda Ferber	34D1	5	285	8	20	15	94	165	
429		Bob Hood	44A3	6	200	5	20		94	43	
430		Joel Grandbois	44B1	15	260	5	20	80	94	16	

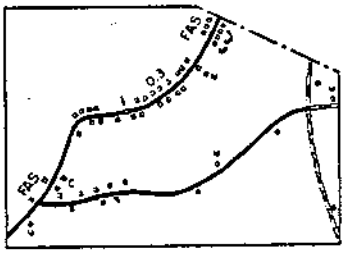
MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION





INSET 1
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS



INSET 2
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
1 0.5 0 1 2 MILES
1 0.5 0 1 2 KILOMETERS

Wells
436-456

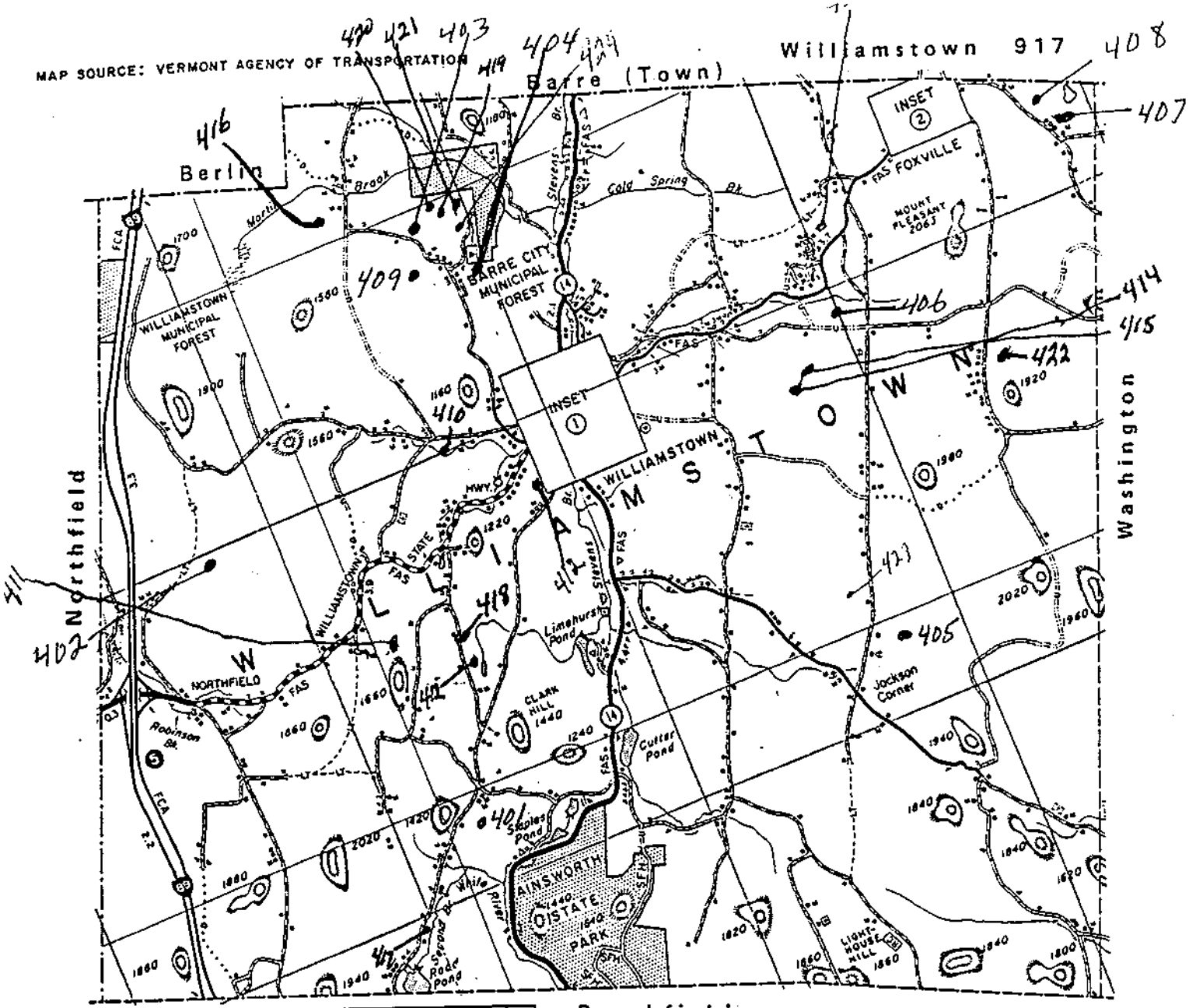
BASIC WELL DATA

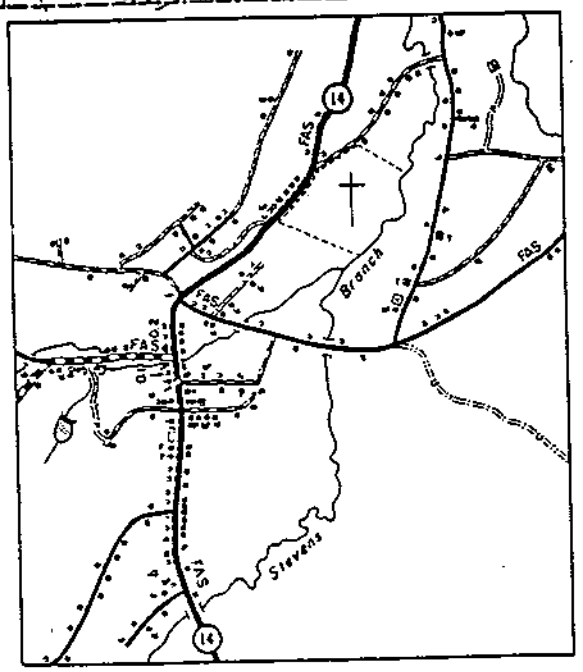
TOWN Williamstown

WELLS 401-425

NUMBER WR	NUMBER USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET	STATIC WATER LEVEL	YR DR	DRILL NO.	REMARKS
93 401		Doug Tillotson	34D4	75	400	30	40		93	43	
402		Richard Roux	34D1	2	180	7	20	20	93	16	
403		Emerson Residence(c) Wm. & Jane Lowery (P)	34C6	10	125	7	21	30	93	16	
404		Wm. & Jane Lowery (P)	34C6	20	205	25	42	24	93	16	
405		Avonlea Farms	34D7	5	300	3	20	20	93	16	
406		Dennis Duff	34D7	5	300	25	40	15	93	16	
407		Graniteville Fire Dist. #4	44A3		420	5	63	20	94	16	
408		Graniteville Fire Dist. #4	44A3	1	500	25	60	300	93	16	OF 26GPM
409		Ernest Hebert	34C6	15	100	15	61	20	93	16	
410		Charles & Ann Kunkle	34C6	30	160	85	95		94	43	
411		Arthur Meiggs	34D4	12	300	2	40	20	94	16	
412		Frank & Laurie Grout	34D4	30	200	18	32	20	94	16	
413		Barry Denton	34D4	7	298	52	70'5"		94	8	
414		Russell Eastman	34D7	6	380	5	20	15	94	16	
415		Donald Eastman	34D7	5	280	5	20	40	94	16	
416		Ernest & Martha Aldous	34C6	20	180	60	81	3	94	16	
417		Gene LaPerle	34D2	75	380	25	35		94	43	
418		Dan McAllister	34D4	50+	123	36	60' 6"		94	8	
419		William & Jane Lowery	34C6	3	360	5	21	60	94	16	
420		William & Jane Lowery	34C6	4	360	5	21	40	94	16	
421		William & Jane Lowery	34C6	3	340	5	21	30	94	16	
422		Bill Brown	44D1	3	405		20		94	66	S.N
423		Gloria Winters	34D7	6	340	20	41	40	94	16	
94		William & Jane Lowery	34C6	15	320	9	25	40	94	16	
425		Les Wheeler	44A3	6	400	0	·	16 GPM	94	16	

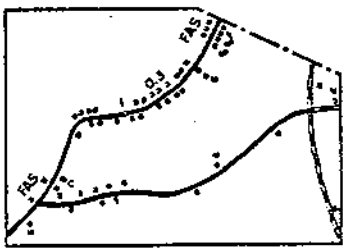
MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION





INSET ①
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS



INSET ②
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
1 0.5 0 1 2 MILES
1 0.5 0 1 2 KILOMETERS

Wells 401-425

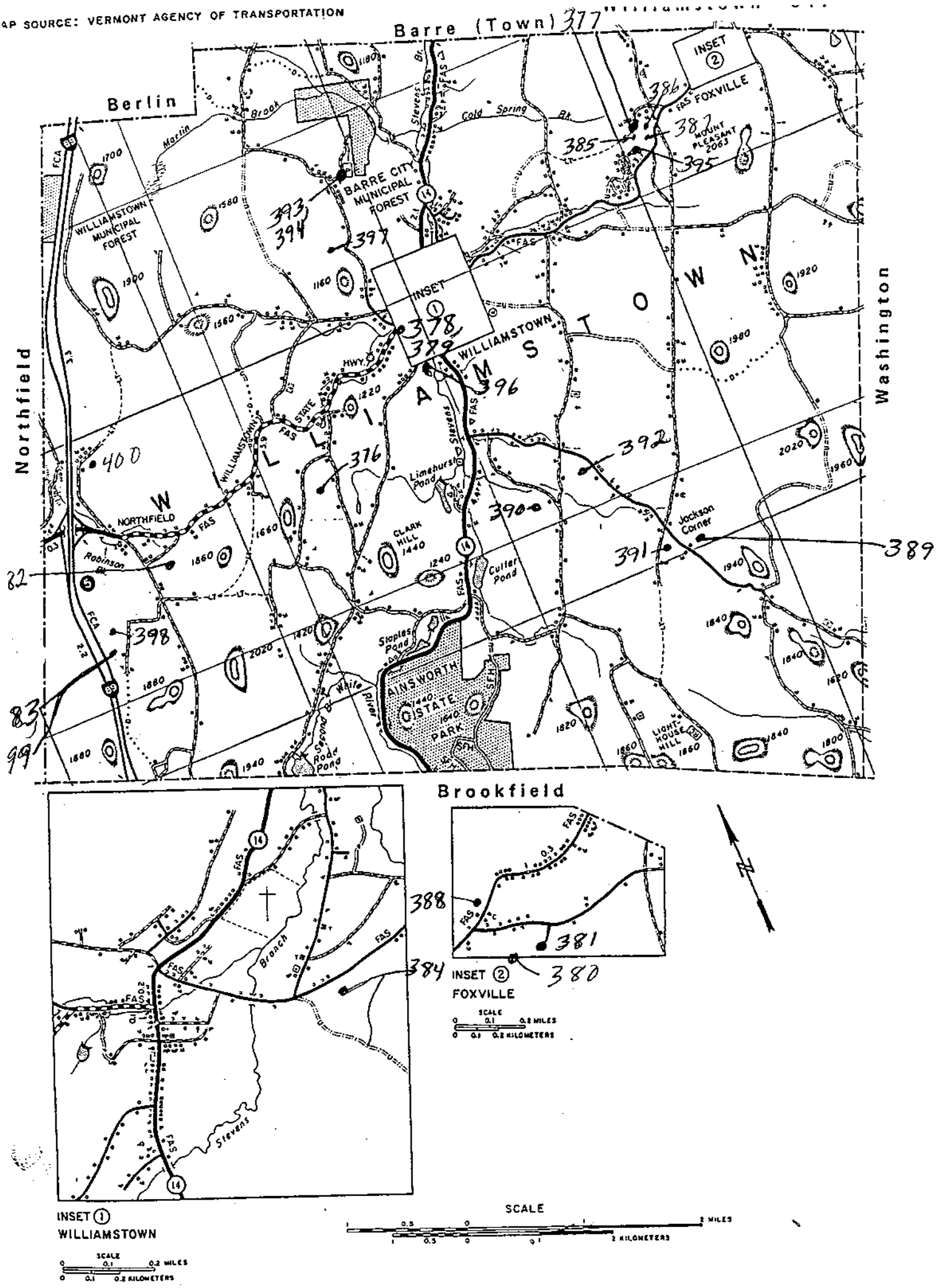
BASIC WELL DATA

TOWN Williamstown

WELLS 376-400

NUMBER WR	NUMBER USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET	STATIC WATER LEVEL	YR DR	DRILL No.	REMARKS
376		Milt Todd	34D4	15	185	8	20	25	92	165	
377		Rosemary Parker	44A3	40	200	30	41	15	92	16	
378		William & Jane Lowery	34D4	6	460	8	30		92	16	
379		William & Jane Lowery	34D4	5	260	12	30	20	92	16	
380		Robert E. Hood, Jr. (P)	44A3	2 1/2	255	18	41	DF	92	16	DF 1gt PM
381		Robert E. Hood, Jr. (P)	44A3	3	130	2	21		92	16	
382		Robert E. Hood, Jr. (P)	34D1	5	205	7	30	10	92	16	
383		Chuck Adams (P)	34D1	4	260	5	20		93	43	
384		Corey Bernier	34D7	10	130	15	41	10	92	16	
385		Nelson Lyford, Jr.	44A3	9	405	10	20		93	66	
386		Nelson Lyford, Jr.	44A3	8	205	10	20	1	93	66	
387		Nelson Lyford, Jr.	44A3	5	285	30	40	0	93	66	
388		Sandra Bresette	44A3	10	360	3	40	20	93	16	
389		Dan Monmaney	34D7	30	220	10	20		93	43	
390		Richard Bailley	34D7	5	220	5	40		93	43	
391		Michael Marsha	34D7	6	240	17	23		93	53	
392		Steve Wheeler	34D7	4 1/2	280	1	20' 4"		93	53	
393		William & Jane Lowery (P)	34C6	30	90	6	20		93	16	
394		William & Jane Lowery (P)	34C6	6	305	40	60		93	16	
395		Larry Cotnoir	44A3	1 1/2	500	D	D		93	43	D
396		Sue Winters	34D4	1 1/2	420	49	60		93	43	
397		Edward & Leslie Fullard	34C6	40	335	10	20	60	93	66	
398		Chuck Adams (P)	34D1	30	120	5	20		93	43	
399		Chuck Adams (P)	34D1	20	140	20	32		93	43	
400		Steve Gavrand	34D1	40	300	10	20		93	43	

AP SOURCE: VERMONT AGENCY OF TRANSPORTATION

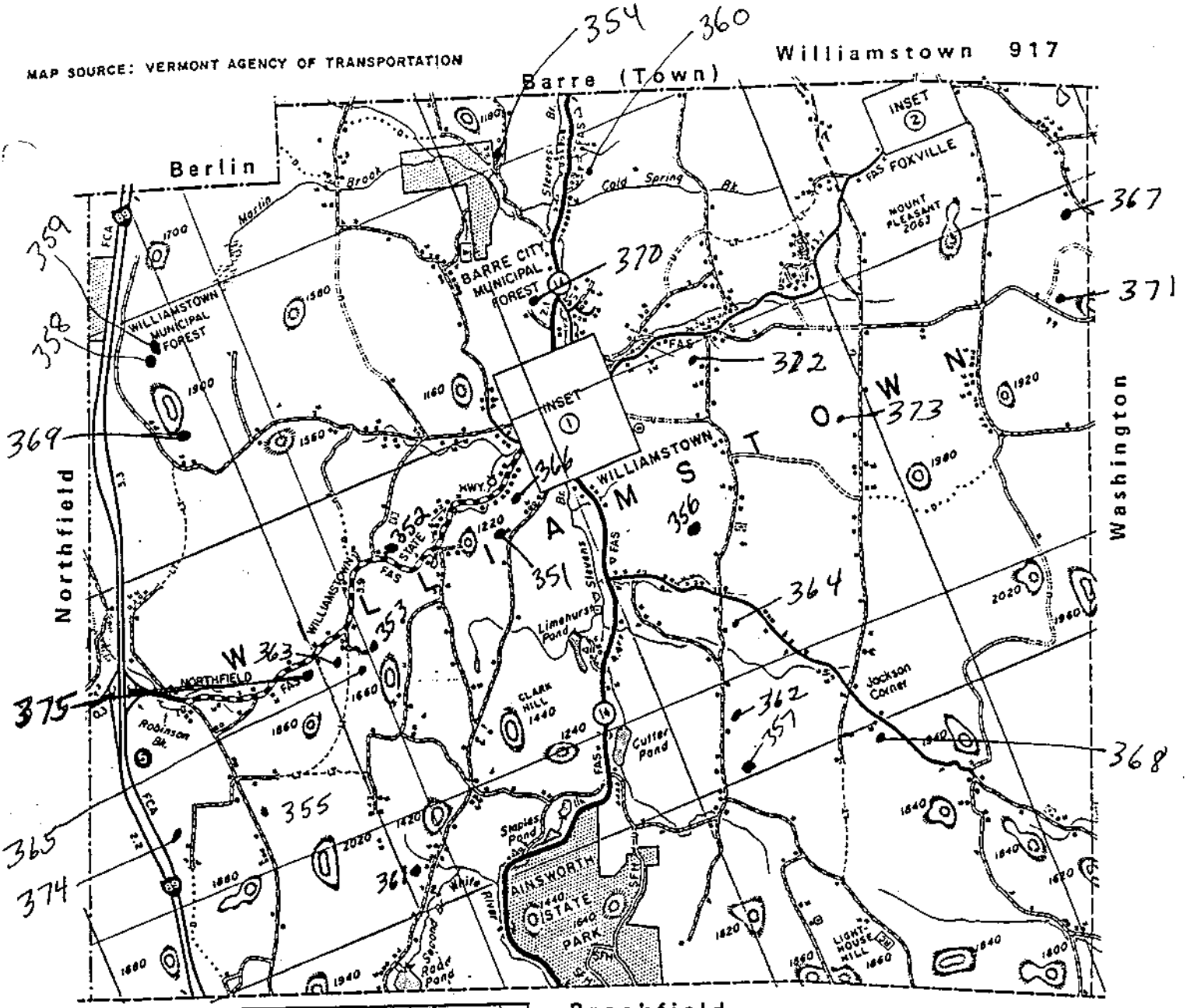


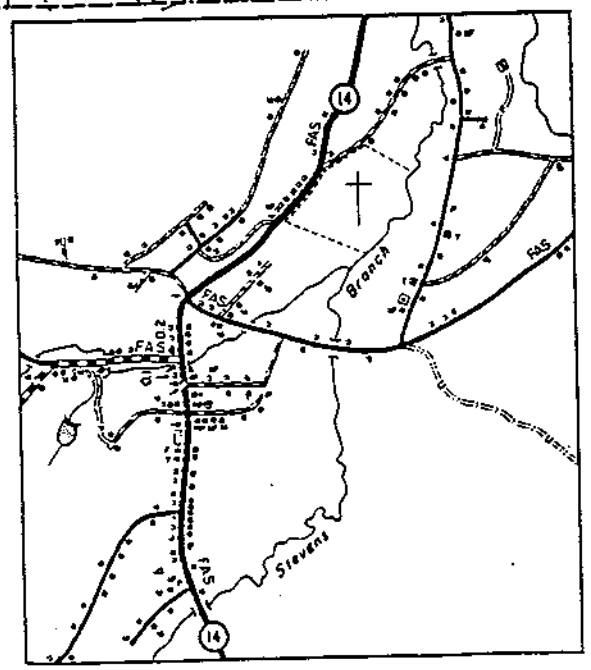
TOWN Williamstown

WELLS 351-375

NUMBER WR	USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET	STATIC WATER LEVEL	YR DR	DRILL NO.	REMARKS
351		Harlan Storrs	34D4	7½	185	6	20	25	9 1	165	
352		William Smith	34D4	5	205	13	28	8	9 1	165	
353		Maurice Palmer	34D4	2½	260	6	21		9 1	8	
354		Bob's Upholstery	34C9	10	140	18	58	20	9 1	16	
355		B.E.C.S. Bldrs. (P)	34D1	30	120	5	20		9 1	43	
356		William & Jane Lowery (P)	34D7	50	260	30	40	30	9 1	16	
357		William & Jane Lowery (P)	34D7	6	220	30	40	20	9 1	16	
358		Robert Ducharme	34C3	40	240	25	40	20	9 1	16	
359		William & Jane Lowery (P)	34C3	40	300	30	50	20	9 1	16	
360		Norm Hurlburt	34C9	3	360	57	67		9 2	43	
361		Michael Poulin	34D4	30	260	14	30		9 2	16	
362		Carl Martin	34D7	10	214	5½	20	12	9 2	167	
363		Russell Laggner	34D1	12	185	5	20		9 2	66	
364		Ernest Palmer	34D7	5	405	5	20	2	9 2	66	
365		Donald Merchant	34D7	15	195	5	20		9 2	66	
366		Guy Boutin	34D4	8	120	10	20		9 2	43	
367		Jim Tetrault	44D1	2	420	10	20		9 2	43	
368		Jay Kilton	34D8	4	260	10	20		9 2	43	
369		Steve Gilmore	34C3	6	160	6	20		9 2	43	
370		Burton Stevens	34C9	2	300	30	40		9 2	43	
371		Richard Neveau	44D1	6	185	10	20		9 2	66	
372		Fred List	34D7	50	320	27	38		9 2	43	
373		Dave LaFlam	34D7	2½	280	10	20		9 2	43	
374		Chuck Adams (P)	34D1	10	160	10	20		9 2	43	
375		Alan Foster	34D1	40	220	15	40	20	9 2	16	

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION





INSET ①
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

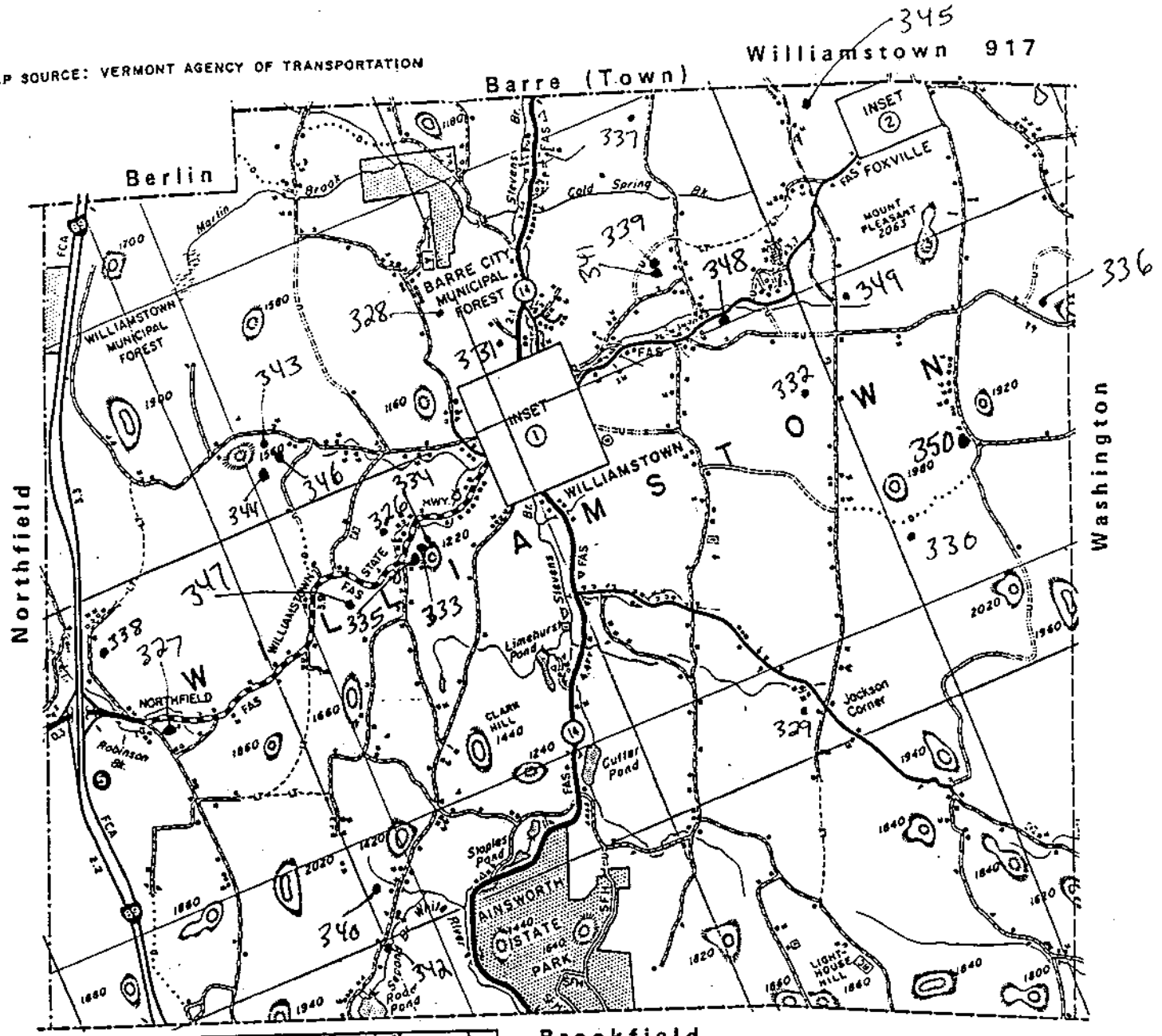
INSET ②
FOXVILLE

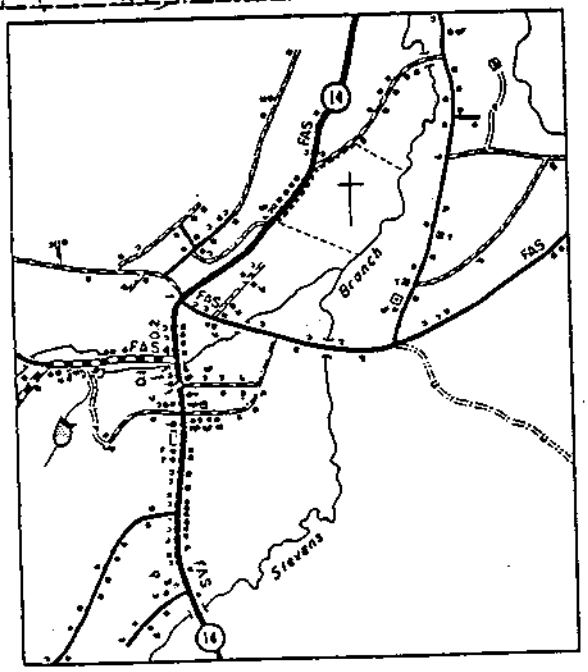
SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
1 0.5 0 1 2 MILES
1 0.5 0 1 2 KILOMETERS

351-375

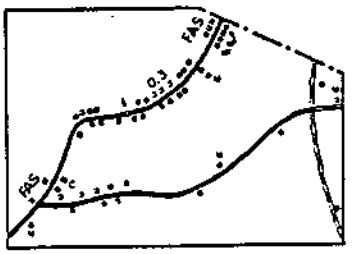
MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION





INSET 1
WILLIAMSTOWN

SCALE 0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS



INSET 2
FOXVILLE

SCALE 0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
0.5 0 1 2 MILES
0.5 0 1 2 KILOMETERS

326-350

BASIC WELL DATA

TOWN Williamstown

WELLS 326 – 350

NUMBER WR	NUMBER USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET	STATIC WATER LEVEL	YR DR	DRILL NO.	REMARKS
326		Kevin Rooney	34D4	8	240	49	60		89	43	
327		Ronald Saldi	34D1	6	100	16	30	20	89	68	
328		Jim Rushford	34C6	80-100	318	10	20		89	66	
329		Burton Bailey	34D7	20	185	17	27		89	66	
330		Scott Gregoire	44B1	5	245	34	44		89	66	
331		Larry Chouinard	34C9	2	265	20	30		89	66	
332		Lauren Phelps	34D7	1	405	10	20		89	66	
333		Marshall Town of Williamstown (P)	34D4	20	300	8	40	25	90	16	–
334		Stuart & Donna LaFond Town of Williamstown (P)	34D4	40	300	5	20	50	90	16	–
335		Ron & Donna Pillsley Town of Williamstown (P)	34D4	8	400	8	40	60	90	16	–
336		Ronald Collins	44B1	0	540	6	20		90	16	
337		Pierre Ducharme	34C9	4	180	4	20	20	89	16	
338		Dennis Lefebvru	34D1	8	145	6	20	15	90	66	
339		Richard Canas	34C9	3 3/4	200	25	40	35	90	16	
340		Bruno Frohlich	34D4	30	460	22	42	50	90	16	
341		Mark Beaudet	34C9	20	360	5	20		90	43	
342		Richard Johnson	34D2	20	160	10	20		90	43	
343		Paul Seaver	34C6	50	60	10	20		90	43	
344		Matt Rouleau	34C6	6	220	10	20		90	43	
345		Mark Gagnon	44A3	30	120	10	20		90	43	
190 346		Matt Rouleau (P)	34C6	25	100	24	34		90	43	
347		L. H. Construction (P)	34D4	20	230	15	37	35	91	16	
348		Jerry Laguenesse	34C9	2	240	9	20		91	43	
349		Doris Schindler	44B1	2	405	30	40		91	66	
350		David Ward	44B1	12	200	8	21		82	16	

12/81

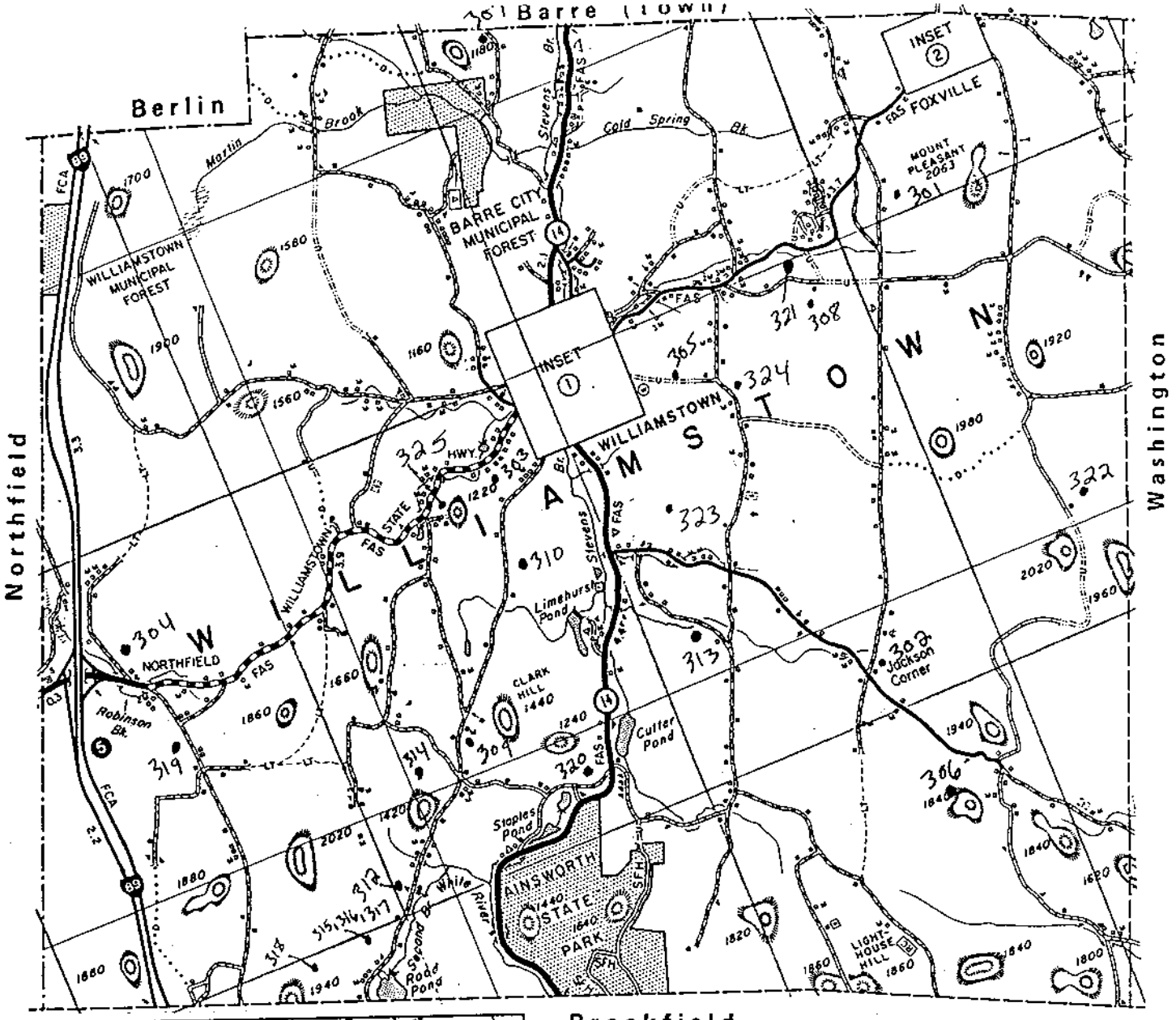
BASIC WELL DATA

TOWN Williamstown

WELLS 301 - 325

NUMBER WR	NUMBER USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET	STATIC WATER LEVEL	YR DR	DRILL NO.	REMARKS
301		Jim Carignan	44A3	4	400	6	20		88	43	
302		Tim Lanctot	34D7	2	300	10	20		58	43	
303		L & H Construction (P)	34D4	8	280	20	42	20	88	16	
304		J. A. Raymond Pouliot	34D1	5	280	1"	41	20	88	16	
305		Gayle R. Ambrose	34D7	3	365	10	42	20	88	16	
306		David Murray	34D8	8	255	20	42	20	88	16	
307		Thomas G. Aldrich	34C9	15	175	10	40	20	88	16	
308		Connie Brown	34D7	2½	300	4	20		89	16	
309		Gerald Roya	34D4	30	140	77	88		89	43	
310		Nathaniel Phillips	34D4	7	185	20	35		89	16	
311		James W. Bigelow Sr.	34C9	3	260	5	20		89	16	
312		Edward Buchanan	34D4	4	345	17	34	20	89	165	
313		Leo Messier	34D7	1	325	4	20	5	89	68	
314		L & H Construction (P)	34D4	5	300	17	31		89	16	
315		c/o Dubois & King Town of Williamstown	34D2	175	420	14	29	55	89	16	
316		Town of Williamstown	34D2	100	460	5	55	60	89	16	
317		c/o Dubois & King Town of Williamstown	34D2	50	520	3	21		89	16	caved in 30'
318		c/o Dubois & King Town of Williamstown	34D2	10	500	5	25	55	89	16	
319		Robert Roux	34D1	4	140	6	40		89	16	
320		Brad LeBaigue	34D5	12	250	8	20	41	89	68	
321		Roger Ruel	34D7	80	190	4	20	10	89	68	
989 322		Tom Kavett	44B1	5	320	5	20	20	89	23	
323		Norman St. Germain	34D7	4	240	70	70		89	43	
324		Hinge Morin	34D7	20	180	10	20		89	43	
325		Ray Duff Builders (P)	34D4	3	320	10	20		89	43	

12/81



INSET 1
WILLIAMSTOWN

INSET 2
FOXVILLE

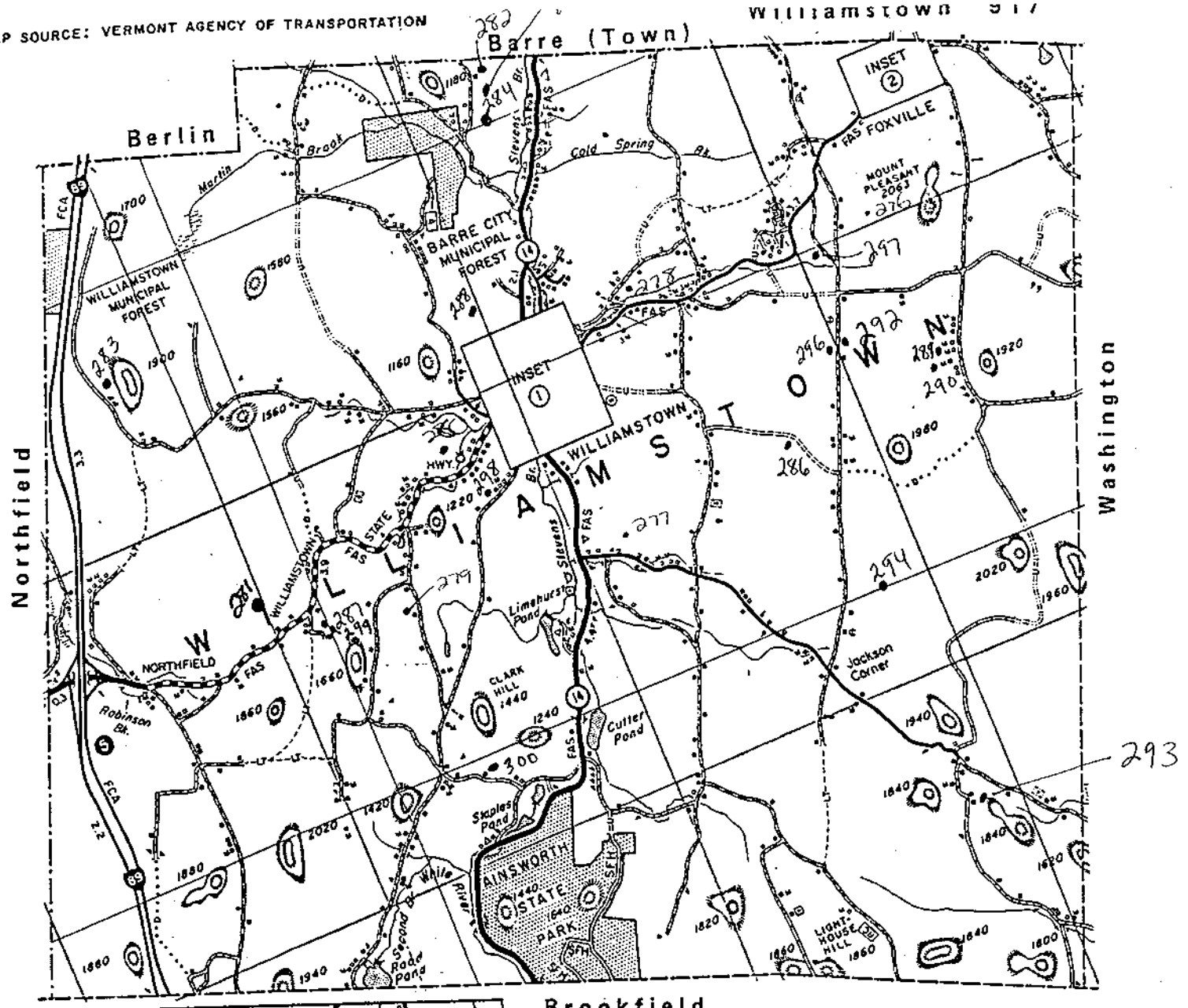
BASIC WELL DATA

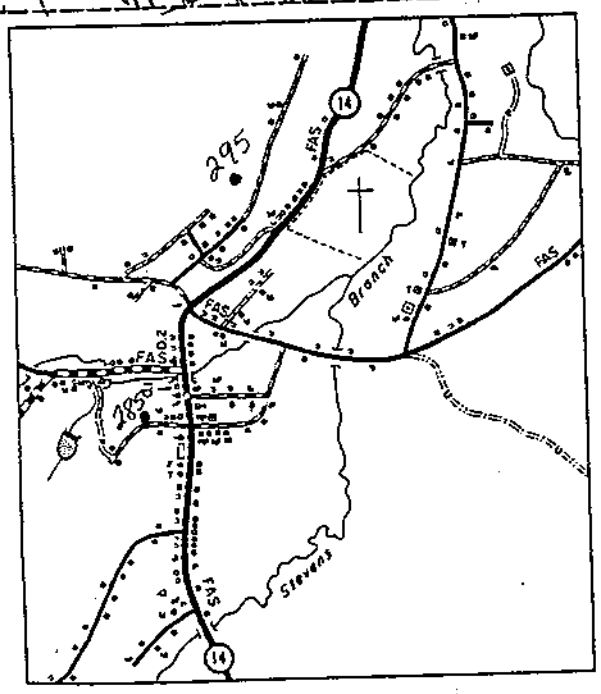
TOWN Williamstown

WELLS 276 - 300

NUMBER WR	NUMBER USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET	STATIC WATER LEVEL	YR DR	DRILL No.	REMARKS
276		Noel Evangelista	44A3	5	240	46	57		87	43	
277		Dave Poierer	34d7	8	200	9	20		87	43	
278		Mike Lewis	34c9	15	325	10	20		87	43	
279		Roger Nignette	34d4	10	130	16	25	20	87	68	
280		John Clark	34d4	15	160	19	30		88	43	
281		Roger Gamelin	34d1	25	130	15	27	5	88	68	
282		Martin Enterprises (P)	34c9	15	160	15	25	20	88	68	
283		Joe Sanchioni	34c3	2½	250	1	13	13	89	68	
284		Martin Enterprises (P)	34c9	2½	430	5	25	90	88	68	
285		Mr. & Mrs. Andrew C. Shamgraw	34D4	6½	245	10	20		88	66	
286		Merton Deyette	34D7	1	405	10	20	18	88	66	
287		Harrison Martin	34D4	30	125	10	20		88	66	
288		Larry Chouinard	34C6	7½	125	11	21		88	66	
289		Arthur Davenport	44B1	½	405	10	20		88	66	
290		Paul Jaeger	44B1	5	325	10	20		88	66	
291		Marco Parent	34C9	½	585	27	37		88	66	
292		Carl Martin	44B1	1.5	235	20	32	30	88	165	
293		Daniel Wilson	34D8	10	245	20	42	20	88	16	
294		Roscoe W. Bowen	34D7	2	605	30	63		88	16	
295		Herb Bent	34C9	8	140	21	32		88	43	
296		David Pullman	34D7	6	300	15	30		88	43	
297		Mike Loris	44B1	10	160	9	20		88	43	
298		Guy Boutin	34D4	15	140	5	20		88	43	
299		Jim Breer (P)	34D4	3	280	5	20		88	43	
300		Charles Trottier	34D5	8	120	35	46		88	43	

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION





INSET 1
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

INSET 2
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
0.5 0 1 2 MILES
0.5 0 1 2 KILOMETERS

BASIC WELL DATA

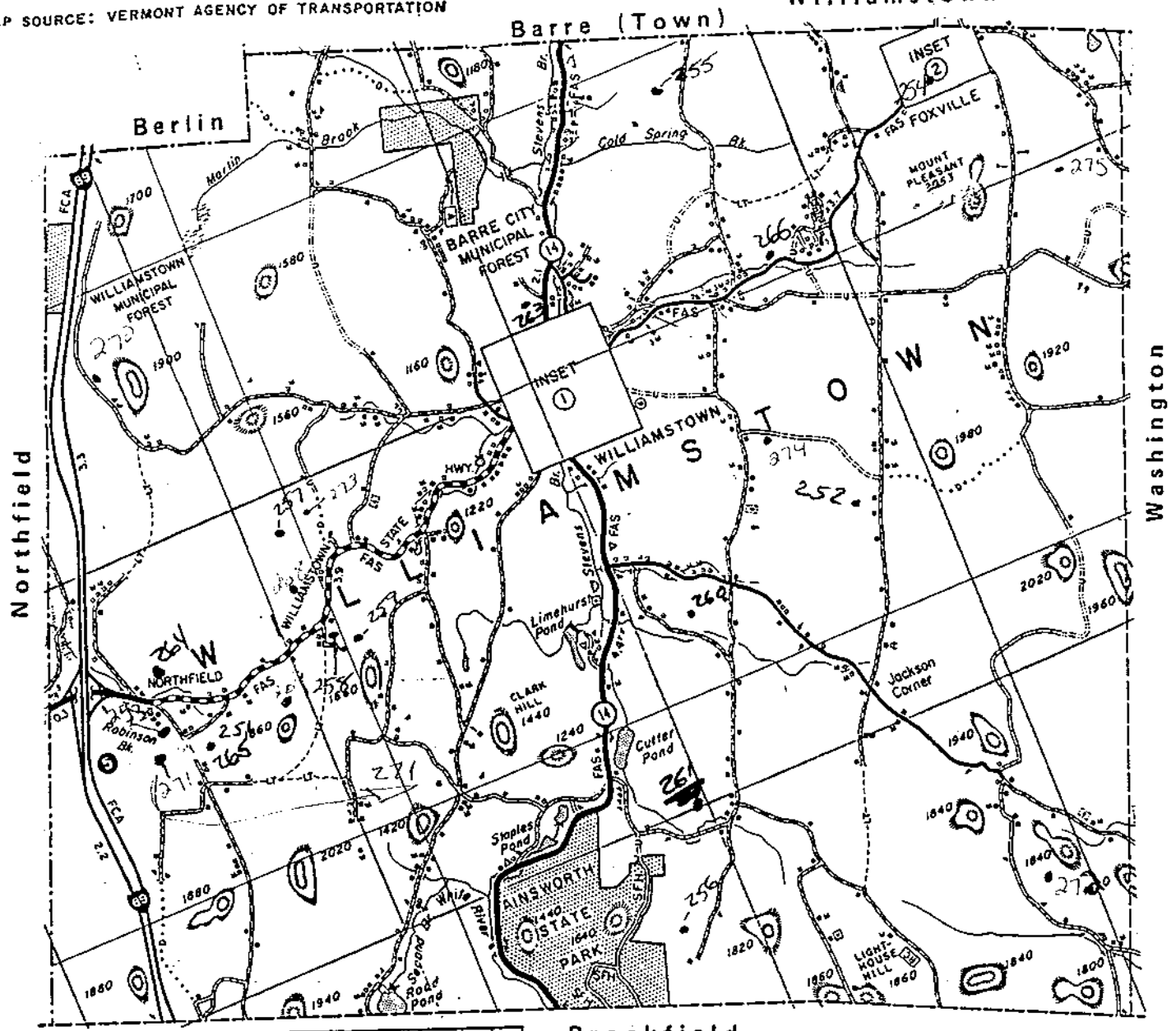
TOWN Williamstown

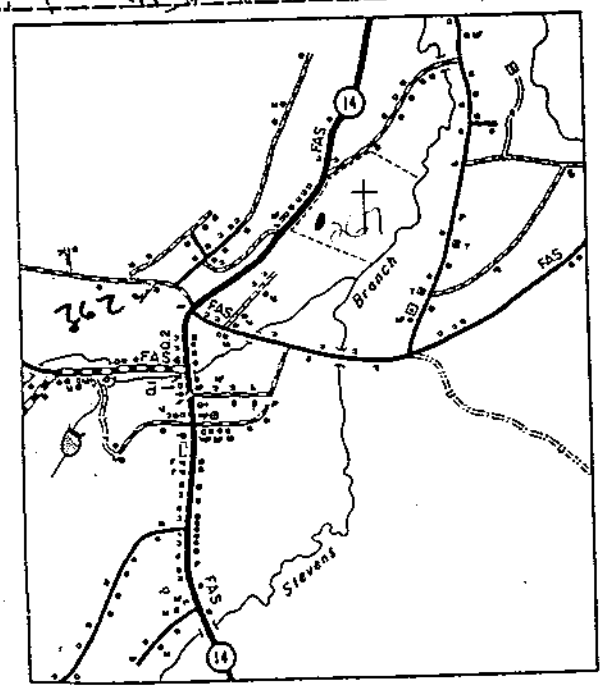
WELLS 251-275

NUMBER WR	USGS	NAME OF WELL OWNER OR PURCHASER (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FT.	DEPTH ROCK FT.	CASING LENGTH FT.*	STATIC WATER LEVEL	YR DR	DRILL #	REMARK
251		Ray Duff	34D1	8	220	10	20		85	43	
252		Lorina Davis	34D7	15	235	9	20		85	43	
253		Ron Saldi	34D1	1	325	20	32	28	85	68	
254		Oreste Valsangiacomo	44a3	20	250	18	28	20	85	68	
255		Joe Klein	34C9	3	325	9	20		86	43	
256		Allan Carpenter	34D5	3	295	17	28		86	43	
257		Allan Parker	34D4	1 1/2	310	9	20		86	43	
258		Jim Breer (P)	34D4	8	325	9	20		86	43	
86 259		Peter McDaniel	34D4	50	235	9	20		86	43	
260		L.H. Const.	34d7	8	200	25	39	12	86	16	
261		Robert Guillot	34d4	5	175	12	42	14	86	16	
262		Florence Poor	34d4	15	175	10	20	6	86	16	
263		Frank Magro	34C9	15	150	20	40		86	16	
264		Ronald Saldi	34d1	60	130	26	32	30	86	68	
265		C.E. Selby	34d1	10	300	10	21	50	?	16	
266		Larry Perusse	34C9	10	435	12	42		87	16	
267		Douglas Moran	34C9	4	180	10	21		87	16	
268		L+H Const. (P)	34d4	60+	100	4	42	35	87	16	
269		L+H. Const. (P)	34d1	60+	200	20	103	20	87	16	
270		Edward Sutton	34C3	20	160	8	40	20	87	16	
271		L+H. Const. (P)	34d1	15	140	20	42		87	16	
272		Ronald Howard	34d8	.75	406	20	63	20	87	16	
273		George Parker	34d4	5	173	4	20		87	6	
274		David Valle	34d7	4	265	4	20	20	87	165	
275		David Dessureault	44b1	15	160	9	20		87	43	

*Casing Length a/b a = Total Length b = Length Below L.S.

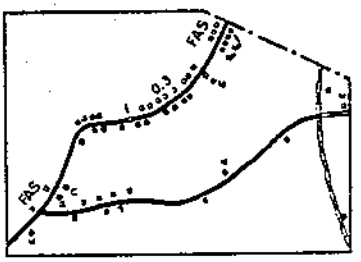
AP SOURCE: VERMONT AGENCY OF TRANSPORTATION





INSET ①
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS



INSET ②
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
1 0.5 0 1 2 MILES
1 0.5 0 1 2 KILOMETERS

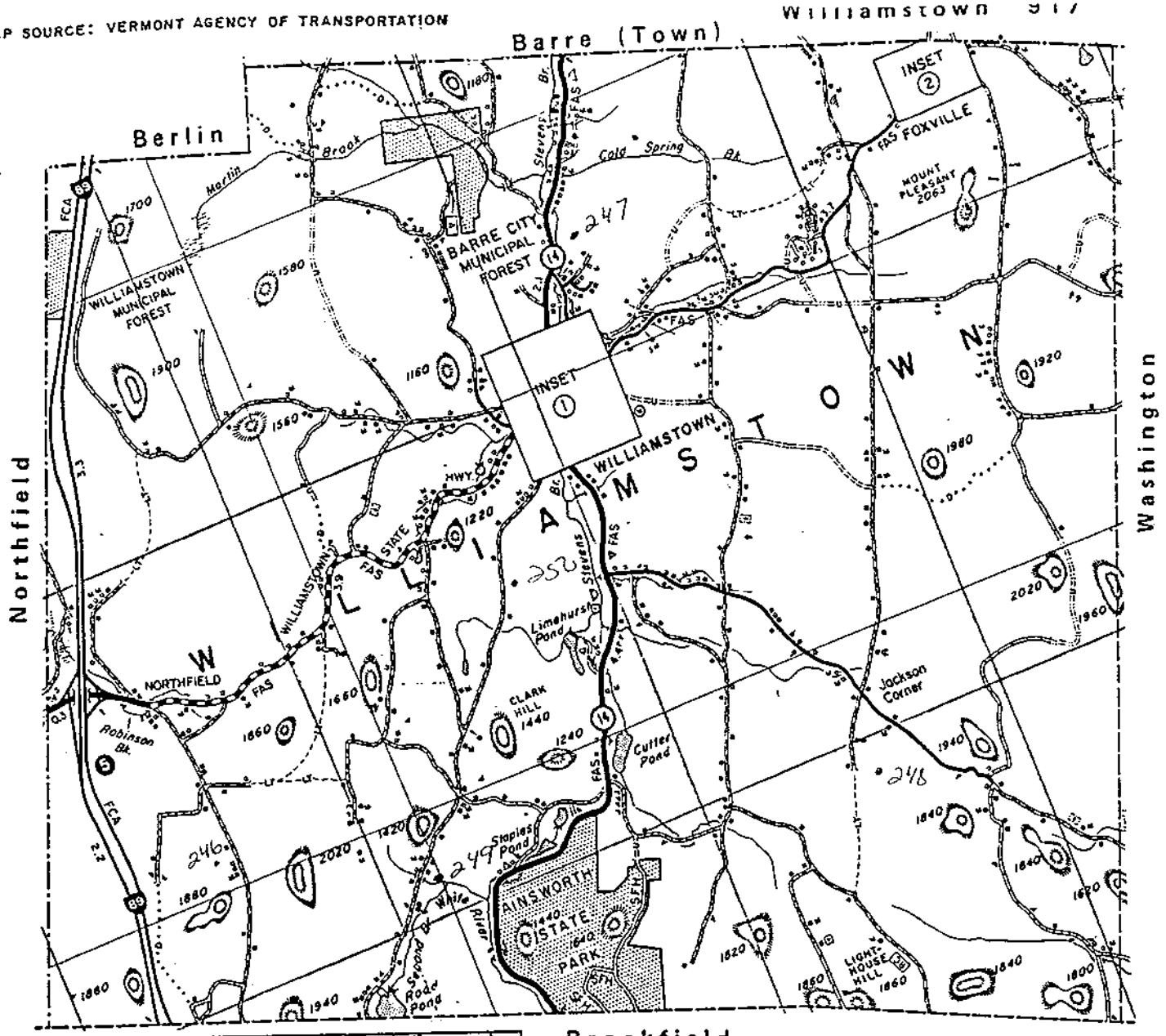
TOWN Williamstown

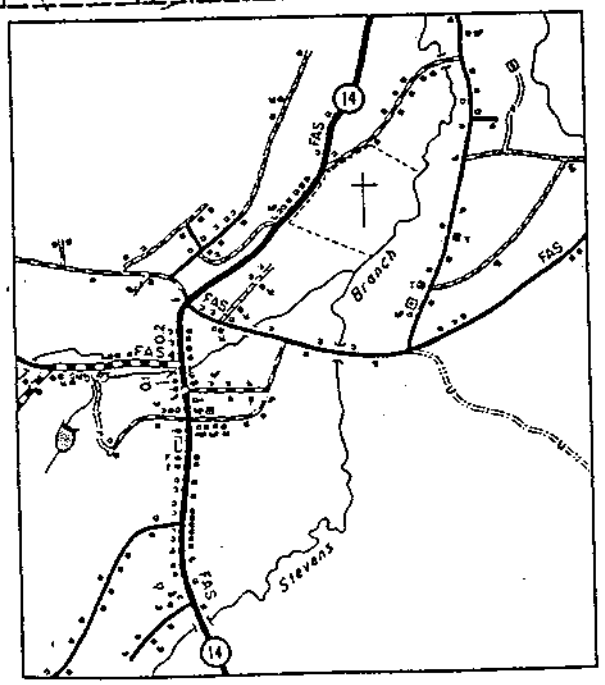
WELLS 226-250

NUMBER WR	NUMBER USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET *	STATIC WATER LEVEL	YR DR	DRILL NO.	REMA
226		Ralph Lash	44B1	4	450	5	23/21		84	16	
227		A+E	34D5	30	120	11	21/19		84	16	
228		Wendell Goodell	34D7	7	265	4	20/19		84	43	
229		Marcel Roy	34C3	15	145	2	20/20		84	43	
230		Raymond Duff	34D4	1	350	9	20/19		84	43 ~~Hot~~	
231		Bob Hood	34D4	12	130	9	20/19		84	43 ~~Hot~~	
232		Ron Saldi	34D4	4	190	10	22/21	15	84	68	
233		Francis Covey	34D1	120	120	28	33/32	8	84	66	
234		Randy Sironi	34D5	20	120	9	20/19		84	16	
235		Ray & Ann Perry		8	250	4	20/19		84	16	
236		Boyd Rossignol		2	250	9	20/19	5	84	16	
237		Darell Lasell	34D5	10	130	3	20/18½	5	84	165	
238		Kelley Lasell	34D5	1/8	325	3	18/16	over-flow	84	165	
239		Mac Auley	34C9	3½	250	8	20/18½	20	84	165	
240		Storrs Constr. (P)	34C9	4½	190	8	20/18½	20	84	165	
241		Nicholas Monsarrat	34D4	30	205	30	31/29½	40	84	165	SN
242		Rebecca Lacillade	34D4	10	130	7	22/20½	30	84	165	
243		Ronald Gray		100+	140	15	35		85	16	
244		Mary Ripper	34D2	6	260	G	55/54		84		G
245		Mrs. Murray		6	150	8	20		85	16	
246		Joe Davis	34D1	2	220	9	20		85	43	
247		Dusty Downing	34C9	3	280	61	72		85	43	
248		June Stratton	34D8	7	205	9	20		85	43	
249		Allen Eldred	34D1	20	130	9	20		85	43	
250		Louis Carrier	34D4	10	175	9	20		85	43	

*Casing length a/b
a - Total length
b - length below L.S.

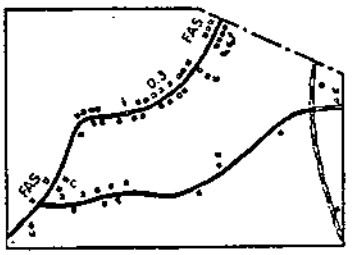
MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION





INSET 1
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS



INSET 2
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
0.5 0 1 2 MILES
0.5 0 1 2 KILOMETERS

226- 250

TOWN Williamstown

WELLS 201-225

NUMBER WR	USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET *	STD WAT LEV		
201		Ron Saldi	34D1	15	85	4	15	15		
202		Ron Saldi	34D1	30	265	10	21	20		
203		Jerry Cotnoir	34C6	100	175	2	20		8 3	43 ~~161~~
204		Richard Freeman	34D7	2	310	39	50		8 3	43 ~~161~~
205		Herve Roy	34D1	15	175	5	20		8 3	43 ~~161~~
206		Michael Sheean	44B1	1/2	460	10	22		8 3	165
207		Robert McCorkle	44B1	1	415	7	17	12	8 3	165
208		Danny Decoto	34D4	6	250	12	23	30	8 3	165
209		Bob Rooney		15	115	21	21	20	8 1	80
210		Richard Willey		30	160	21½	21½	20	8 1	80
211		John DeFarge Sp?		12	160	10½	10½	20	8 1	80
212		William MacAskill		15	175	17	17		8 1	80
213		Allen Foster			175		134		8 0	80
214		William Wright		30	220	18	25		8 0	80
215		Robert Clark		15	145	20	26		8 0	80
216		Doug Kuasnik Kwashik-HS.		1¾	400	4	15	10	8 0	80
217		Mr. Fassett		40	110	80	80		8 0	80
218		Harold Foster 44A3		2¼	180	8	27		8 3	16
219		Stanley and Ruth Crawford	34D1	2½	173	7	20/18		8 4	8
220		Uni-first Corp	34D7	2-3	147	42	45/43		8 4	8
221		" " "	34D7	1/2	50	22	30/28		8 4	8
222		" " "	34D7	2-3	99	10	15/13		8 4	8
223		L+H Construction	34D7	6	450	9	20/19		8 4	16
224		L Normand Booth	34D7	7	420	25	41/40		8 4	16

* Casing length a/b
a - Total Length
b - Length below L.S.

12/8

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION

Williamstown 917

Barre (Town)

Berlin

Northfield

Washington

Brookfield

WILLIAMSTOWN

BARRE CITY MUNICIPAL FOREST

WILLIAMSTOWN MUNICIPAL FOREST

NORTHFIELD

FOXVILLE

MOUNT PLEASANT 2063

CLARK HILL 1440

Limehurst Pond

Culler Pond

Staples Pond

Second Road Pond

AINSWORTH STATE PARK

LIGHT-HOUSE HILL

Jackson Corner

Robinson Bk.

Martin Brook

Cold Spring Bk.

Stevens Br.

White River

INSET ①

INSET ②

INSET ①
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
1 0.5 0 1 2 MILES
1 0.5 0 1 2 KILOMETERS

INSET ②
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

201-225

BASIC WELL DATA

TOWN WILLIAMSTOWN

WELLS 176-200

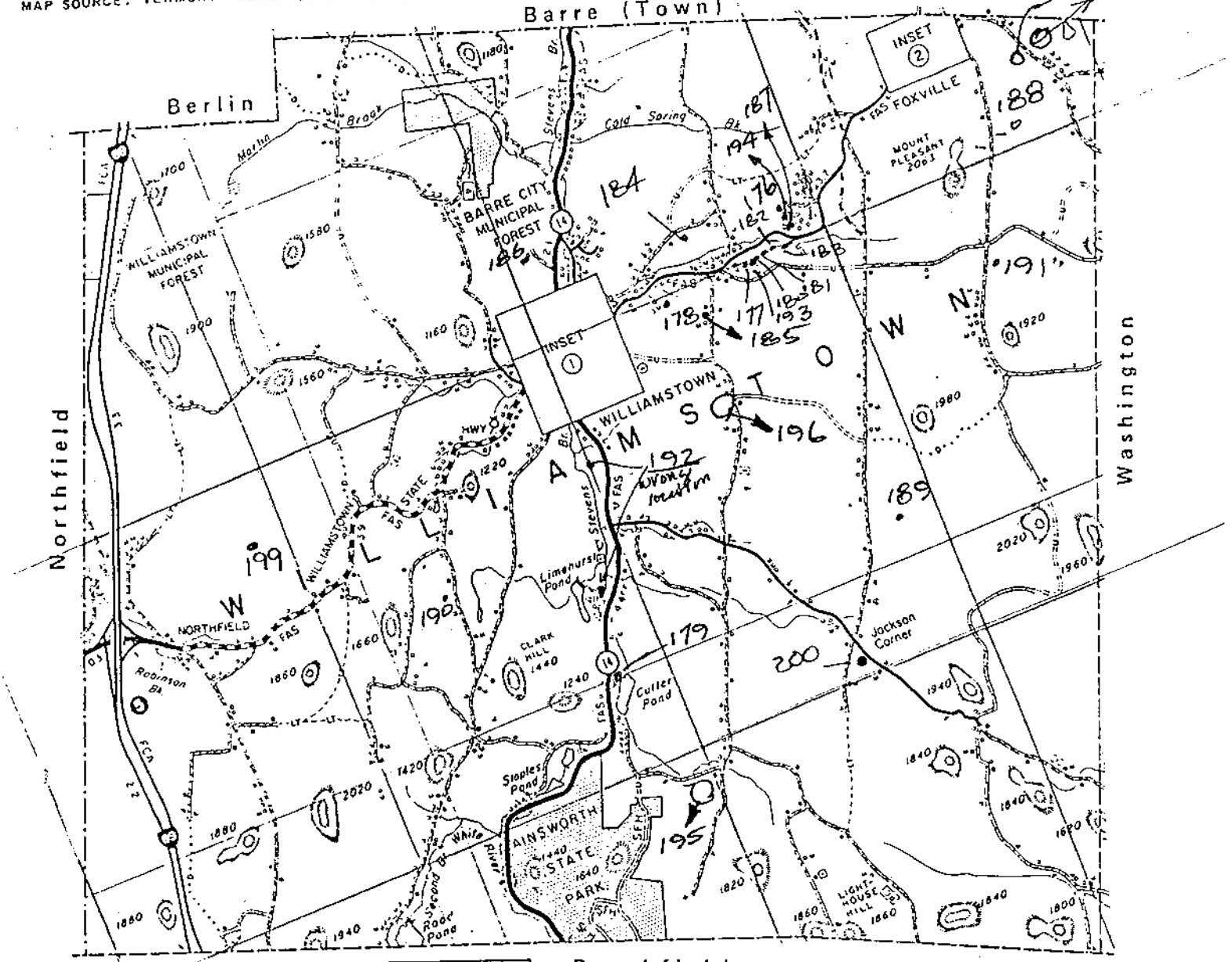
NUMBER WR	NUMBER USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET	STATIC WATER LEVEL	YR DR	DRILL NO.	REMARKS
176		ERI MARTIN (P)	34C9	10	250	14	25	26	8 1	68	
177		RONALD SAULDI (P)	34D7	2	505	37	45	30	1	68	
178		HARVEY CACILLADE	34D7	3	355	15	26	F	1	68	
179		LOTUS LAKE CORP.	34D7	40	115	18	28	22	1	68	
180		RONALD SAULDI (P)	34D7	2	280	15	22	15	1	68	
181		RONALD SAULDI (P)	34D7	5	130	13	20	12	1	68	
182		RONALD SAULDI (P)	34C9	3/4	295	9	18	18	1	68	
183		RONALD SAULDI (P)	34D7	3	310	9	19	20	1	68	
184		H.D. HUNTINGTON CO.	34C9	2½	347	52	55		1	8	
185		RICHARD FREEMEN	34D7	4	295	19	29		1	43	
186		GILLIS BEAUDOIN	34C9	4	190	17	27		1	43	
187		ERI MARTIN (P)	34C9	15	250	6	18		1	68	
188		DAVID SKIDMORE	44A3	20	115	4	10	70	1	165	
189	✓	CARL MARTIN	34D7	½	480	10	21	20	2	16	
190	✓	L.H. CONSTRUCTION	34D4	5	200	10	21	20	2	16	
191	✓	ALLEN LOTT	44B1	10	400		21	20	2	16	ref. inc.
192		LIMEHURST TR. PK.	34D7	12	337	13	21		2	8	
193		RONALD SAULDI (P)	34D7	½	430	11	19	55	2	68	
194		H.D. HUNTINGTON CO. (P)	34C9	20	325	15	38		2	8	
195		MR. MCGOON	34D5	1½	325	9	19		2	43	
196		PAUL CARRIER	34D7	2	265	24	34		2	43	
197		HOWARD ROCK	44A3	8	190	20	30		2	43	
198		STEVE GILBERT	44A3	4	205	46	56		2	43	
199		JOE PALMISANO	34D1	12	145	1	12	35	8 3	68	
200		First Vermont Bank	34D7	1/4	280	8	17	F	8 3	68	

See WR #350 - 1982

12/81

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION

Williamstown 917 198



WILLIAMSTOWN

176- 200

BASIC WELL DATA

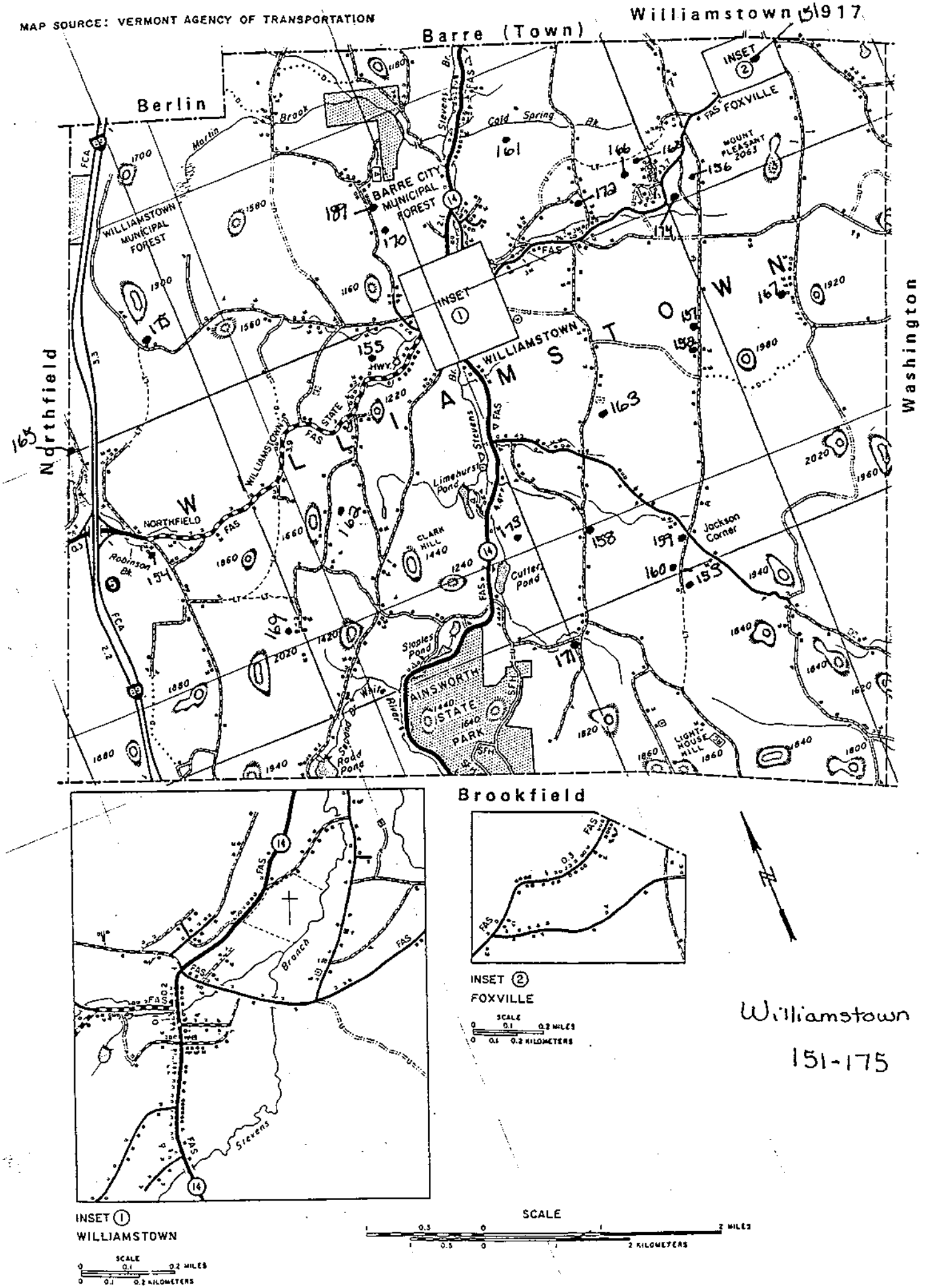
TOWN Williamstown

WELLS 151-175

NUMBER WR	NUMBER USGS	NAME OF WELL OWNER or Purchaser (P)	MAP LOC	YIELD GPM	TOTAL DEPTH FEET	DEPTH ROCK FEET	CASING LENGTH FEET	STATIC WATER LEVEL	YR DR	DRILL NO.	REMARKS
SK 151		Pete Gilbert	44A3	12	175	13	23		79	161	
152		Carrol Avery	34D7	10	160	7	20	14		68	
153		Wayne Young	34D8	12	205	9	20	17		68	
154		H.D. Huntington	34D1	2.5	147	14	20		80	8	
155		Chet Burrell	34D4	4	123	9	21		80	8	
156		Ernie Hebert	44A3	5	125	27	27			80	
157		Dunine Chambers	34D7	4	205	19	19	20	79	80	
158		R. Lassell	34D7		265	30	30	25	80	80	
159		Armand Bautin	34D7		400	20	20	25	80	80	
160		Joe Lanctot	34D7		145	20	20	20	80	80	
161		Clarence Lyons	34C9		220	10	10	20	80	80	
162		Hank & Pratt Shedd	34D4		140	55	67		79	80	
163		Cliff Menard	34D7	2	200	15	21		79	80	
164		Ernie Hebert		5	170	40	52	20	79	80	
165		Ira Hutch	34C3	6	135	30	30	20	79	80	
166		AL Benner	34C9	4	400	20	30		80	161	
167		Joe Lovely	44B1	.50	310	10	20		80	161	
168		Al Benner	34C9	30	290	10	20		80	161	
1980 169		Michael Meglaughlin	34D1	15	220	2	20	18	80	166	
170		Douglas Weir	34C6	2	295	10	20	12	80	166	
171		Norman Larkin	34D5	4	160	10	20	15	80	166	
172		Lenard Erff	34C9	4.5	310	5	20	21	80	68	
173		Steve Allen	34D4	15	310	65	75		80	68	
174		Allen Matheson	44A3	3.5	220	12	29	12	80	68	
175		Ester Lassell	34C3	8	115	4	20	10	80	165	

12/81

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION



Williamstown

151-175

WR #71
1974

TOWN: WILLIAMSTOWN

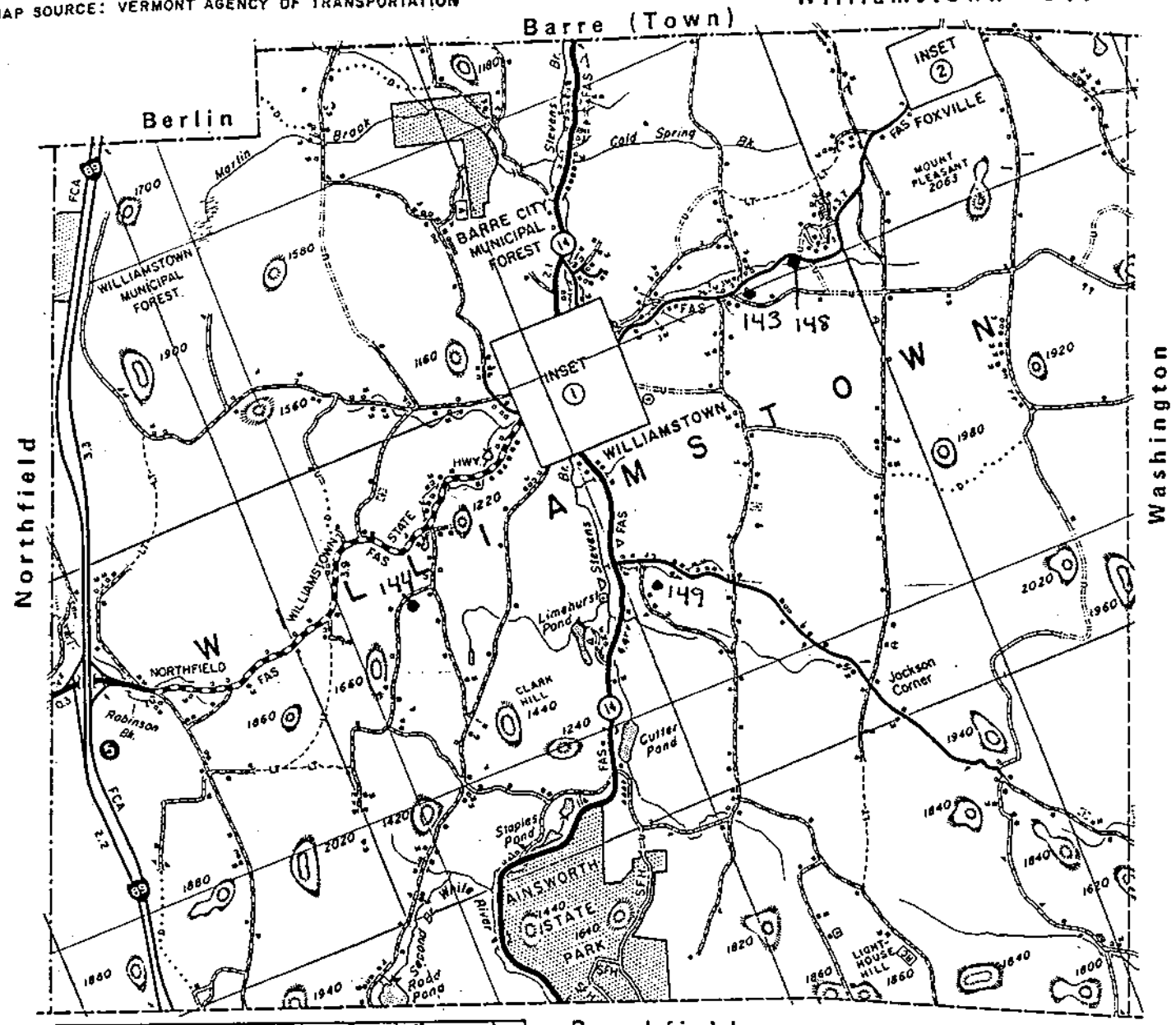
WELL NOS.: 126-150

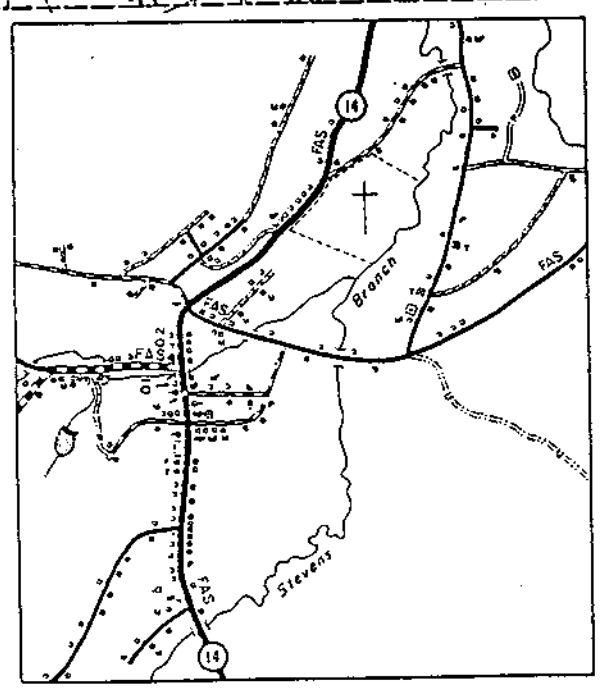
BASIC WELL DATA

Well No.	Well Owner	Yield (gpm)	Total Depth (feet)	Depth To Bedrock (feet) / Casing	Static Water Level	Driller No.
126	Sheldon Murray	12	180	22	8	68
127	William Maloney	2	190	35	12	66
catch 128	Chip Wintuy	20	185	10/40		80
129	Felicity?	1	200	15/20		80
130	Burns	20	100	6/11		80
131	Ernest Hebert	30	185	5/11		80
132	Brent Bressett	60	170	22/28		80
133	Carpenter Farm	6	395	55/60		80
134	Fred Shangraw	100	140	0/111		80
135	Gary Capron	20	100	15/20		80
136	Richard Roux	7	130	4/20		80
137	Allan Foster	8	200	15/20		80
138	Andy Roux homes	20	160	4/14		80
139	Allen Foster		220	10/17		80
140	" "	20	130	4/8		80
141	Mike Pierce	4	160	25/31		80
142	Fred Duff	5½	190	4/9		80
143	Jon Gould 3407	1½	265	30/40	30	166
144	Percy Labor 3404	20	85	20/26	20	166
catch 145	Lenny Roya	2	340	2/9		43
146	Blaine Guild	15	115	11/21		43
147	John Dufresne	25	97	11/28		8
148	Lanny Carmenitti 3409	1½	295	20/31	15	166
149	David Plante 3407	3½	240	10/20	Flows ½ GPM	166
catch 150	Jerry Davis	15	220	18/28		161

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION

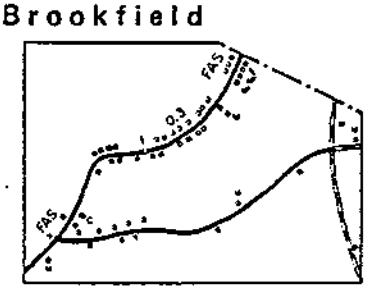
Williamstown 917





INSET ①
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS



INSET ②
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
1 0.5 0 1 2 MILES
1 0.5 0 1 2 KILOMETERS

Williamstown

126-150

WR #71
1974

TOWN: WILLIAMSTOWN

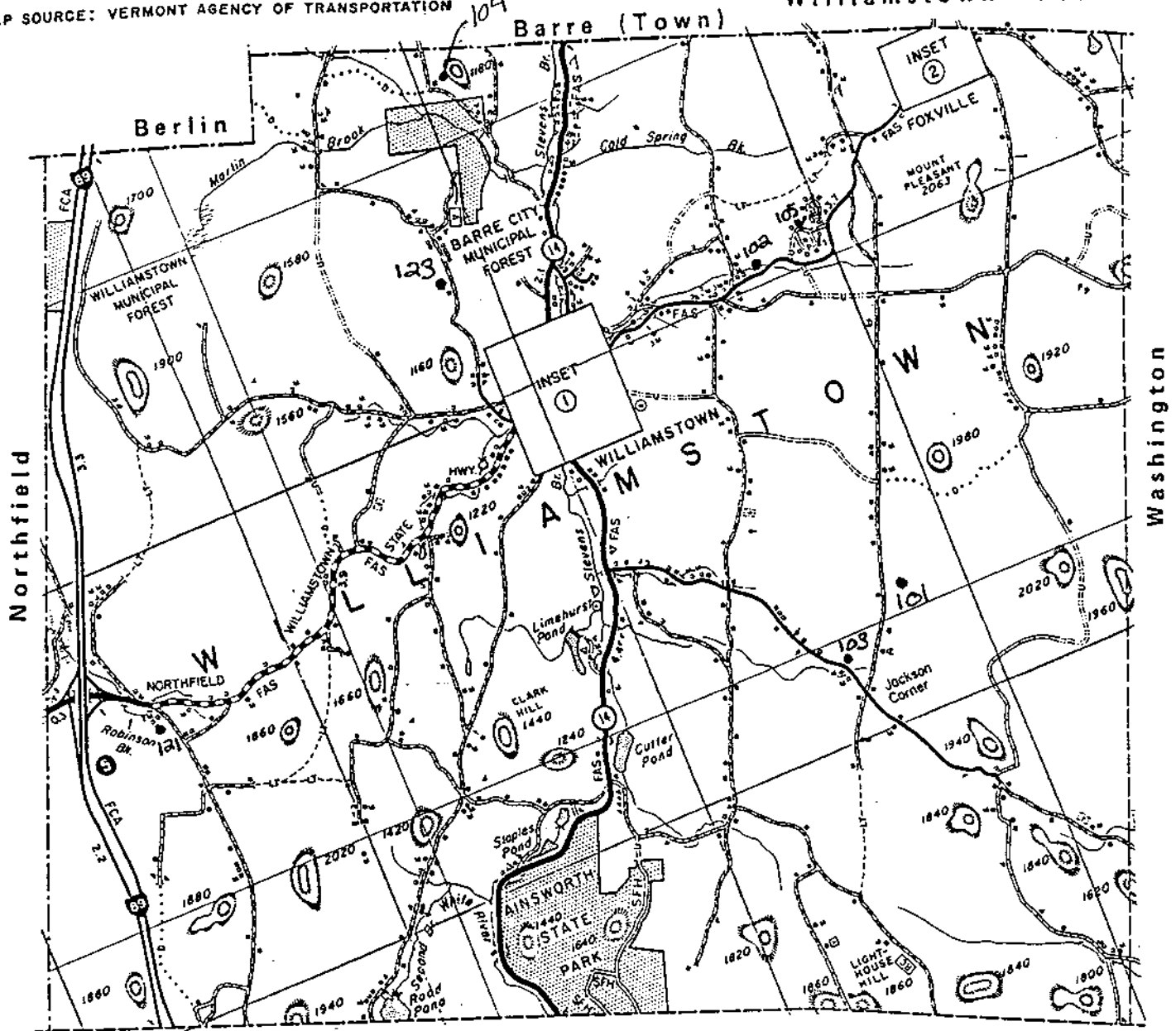
WELL NOS.: 101-125

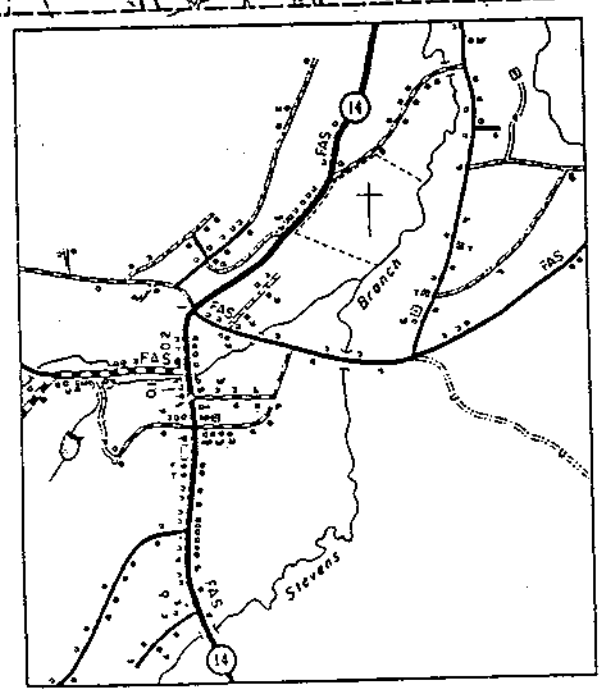
BASIC WELL DATA

Well No.	Well Owner		Yield (gpm)	Total Depth (feet)	Depth To Bedrock (feet)	Static Water Level	Other Info
101	[illegible]						
102	ERI MARTIN	3409	4	186	66	30	68
103	JOHN STONE	3407	2	265	57	15	50
104	GENE GARDINATE	3409	4	190	3	60	50
105	ERI MARTIN	3409	3	250	14		68
ketch 106	HARRY YOUNG		5	275	10	10	43
" 107	VIC FECTEAU		75	275	2	20	43
108	DALE TRATO	3401	2+	223	10		8
ketch 109	JOHN POLTON		50	175	6		80
" 110	MILLSTONE AGENCY		10	160	14	30	80
" 111	ALBERT LANE		3	190	10	Flows	80
" 112	LEO ST. ONGE	3404	20	280	100	30	80
" 113	RICHARD ROUX		5	145	10		80
" 114	ALLAN FOSTER		10	145	7		80
" 115	ALLAN FOSTER		6	175	4		80
" 116	ALLAN FOSTER		60	175	4		80
" 117	O'BRIEN REALTY		7	220	20		80
" 118	ALLAN FOSTER		15	130	30		80
" 119	FEATHERSTONE		1	310	5	50	80
" 120	LEO ST. ONGE	3404	20	280	100	30	80
121	RALPH RELATIONS	3401	2	250	75	6	50
ketch 122	LARRY FERNO	3401	9	173	2		8
123	WALTER AUSTIN	3406	10	293	41	30	68
ketch 124	RICHARD FERNO		1	273	7		8
125	GORDON MACARTHUR		1	280	4	30	66

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION

Williamstown 917





INSET ①
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

INSET ②
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
1 0.5 0 1 2 MILES
1 0.5 0 1 2 KILOMETERS

Williamstown
101-125

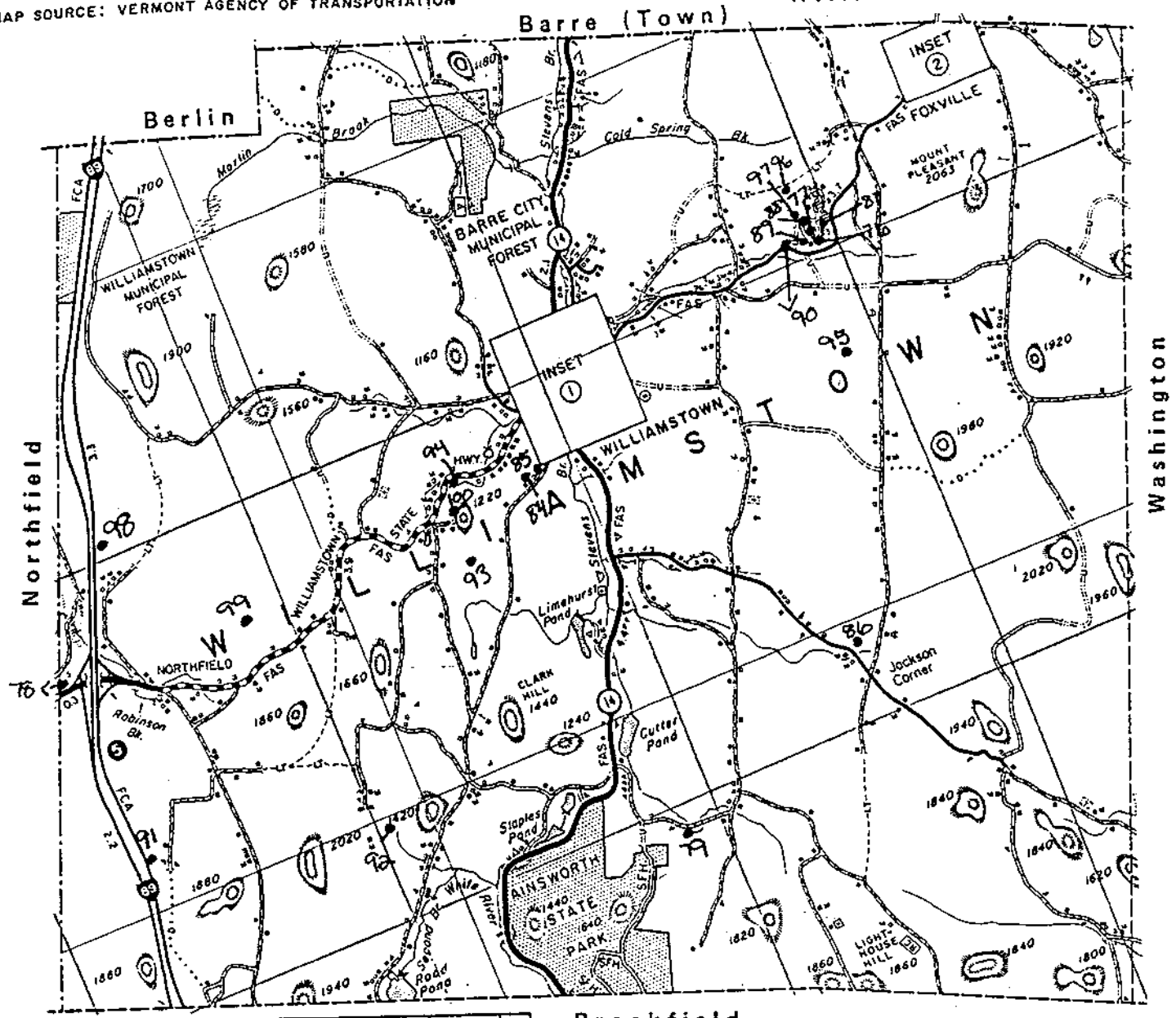
BASIC WELL DATA

WILLIAMSTOWN (Town) — 76 — 150 (Code Numbers)

Well No.	Owner	Location	Depth (Ft.)	Yield (G.P.M.)	Rock or Gravel
76	ERI MARTIN	34C9	210	6	Rock
77	"	34C9	150	2½	ROCK
78	STATE OF VT. HIGHWAY	34D1 GARAGE	161	30	ROCK
79	JAMES LACILLADE	34D5	190	1	ROCK
80	ERIC WIESS		270	20	ROCK
81	WALTER KLEZEK		140	20	Rock
82	ERWIN KRIES		100	100	Gravel
83	George [illegible]				
84	GERARD DAVIS	34D4	175	2	"
85	HOWARD JACKSON	34D4	145	4	"
86	Eda Beneridge	34D7	205	15	"
87	Eri Martin	34C9	205	3½	"
88	" "	34C9	190	6	"
89	" "	34C9	205'	5	"
90	" "	34C9	205	5	"
91	JOHN VAN DEREN	34D1	130	20	Rock
92	George Gilbert	34D4	235	10	Rock
93	HUEN FOSTER	34D4	255	50	Rock
94	LAWRENCE HERBERT	34D4	85	20	Rock
95	ROSCOE BOWEN	34D7	235	5	Rock
96	ERI Martin	34C9	180	5	rock
97	" "	34C9	210	1½	rock
98	ROBERT ROUX	34C3	130	6	Rock
99	[illegible] well # 230-[illegible] report				50
100	[illegible] well # 230-[illegible] report				50

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION

Williamstown 917



INSET 1
WILLIAMSTOWN

INSET 2
FOXVILLE

Williamstown
76-100

TOWN: WILLIAMSTOWN

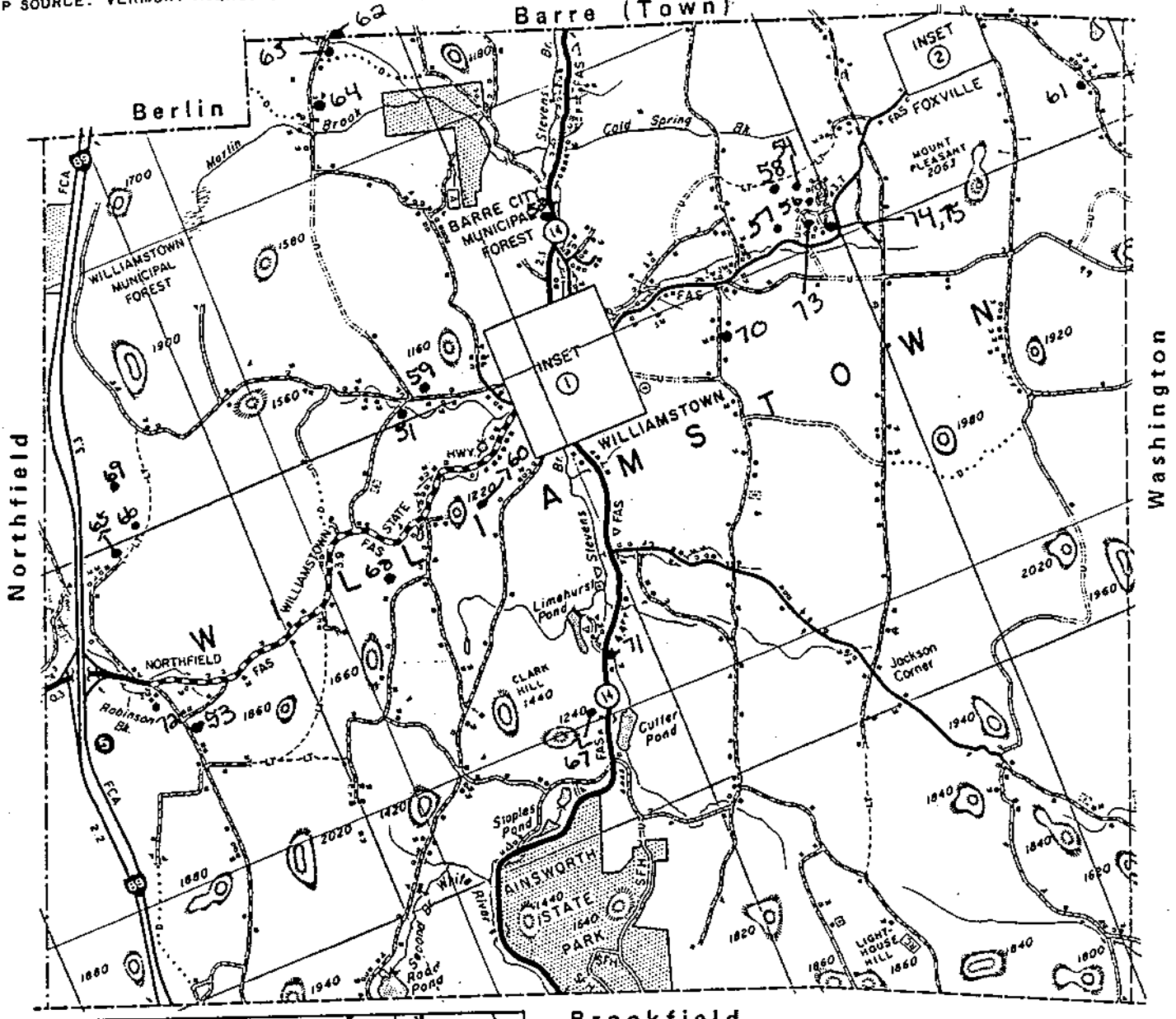
WELL NOS.: 51 - 75

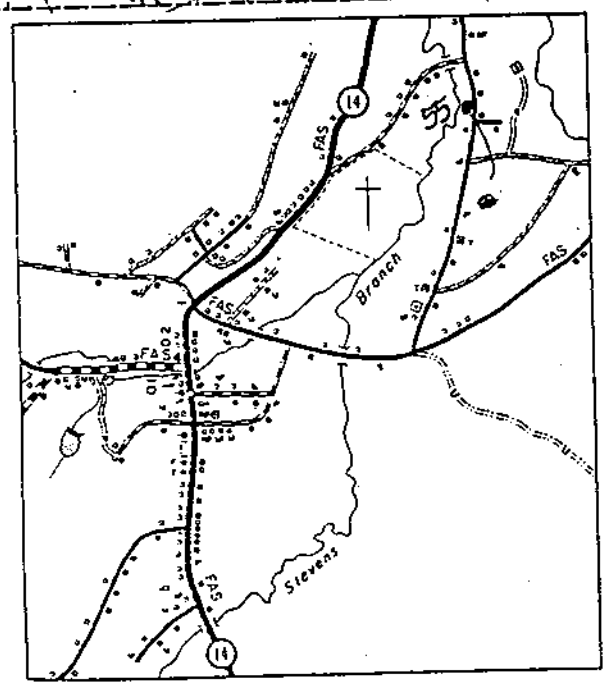
BASIC WELL DATA

Well No.	Well Owner	Yield (gpm)	Total Depth (feet)	Depth To Bedrock (feet)	Static Water Level	Other Info
51	Ed. Teak (Leak?) 34C6	20	155	10	20	
52	Lambert Saldi 34C9	15	170	10	20	
53	Ronald Saldi 34D1	20	170	20	20	
54	W. Clark 34C9	2	175	10(?) 18(?)	15	
55	Town of Williamstown 34C9	500	29½	Sand & some Gravel	8 2/5	
56	Eri Martin (Well #1) 34C9	15	130	14	10	
57	Eri Martin 34C9	1½	225	9	10	
58	Eri Martin (Well #2) 34C9	5	205	1½	15	
59	Robert Bailey 34C6	50	115	15	25	
60	Allan Foster 34D4	20	85	5	10	
61	Dechond Lambert 44A3	4	150	4	25	
62	Lymward Gulbert (LYNWORD GILBERT?) 34C6	15	145	20	12	
63	Arthur Phillipi, Jr. 34C6	4	125	5	--	
64	Terry Barry 34C6	4	95	11	20	
65	Raymond Duff 34C3	3	205	9	10	
66	Raymond Duff 34C3	25	70	18	10	
67	Palmer Mortin (MARTIN?) 34D4	4	190	10	12	
68	Gerald Davis 34D4	3	145	5	--	
69	Bob Schindler 34C3	1	505	14	19	
70	Chris Miklelsen (Niklelsen?) 34D7	2½	265	15	20	
71	Eugene Morin 34D4	100	40	---	--	
72	Olsen & Bosquet 34D1	15	130	87	25	
73	Eri Martin 34C9	3½	220	9	15	
74	Eri Martin 34C9	2	105	9	8	
75	Eri Martin 34C9	1½	210	3	7	

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION

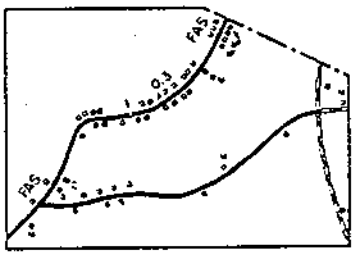
Williamstown 917





INSET ①
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS



INSET ②
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
1 0.5 0 1 2 MILES
1 0.5 0 1 2 KILOMETERS

Williamstown

51-75

WR #71
1974

TOWN: WILLIAMSTOWN

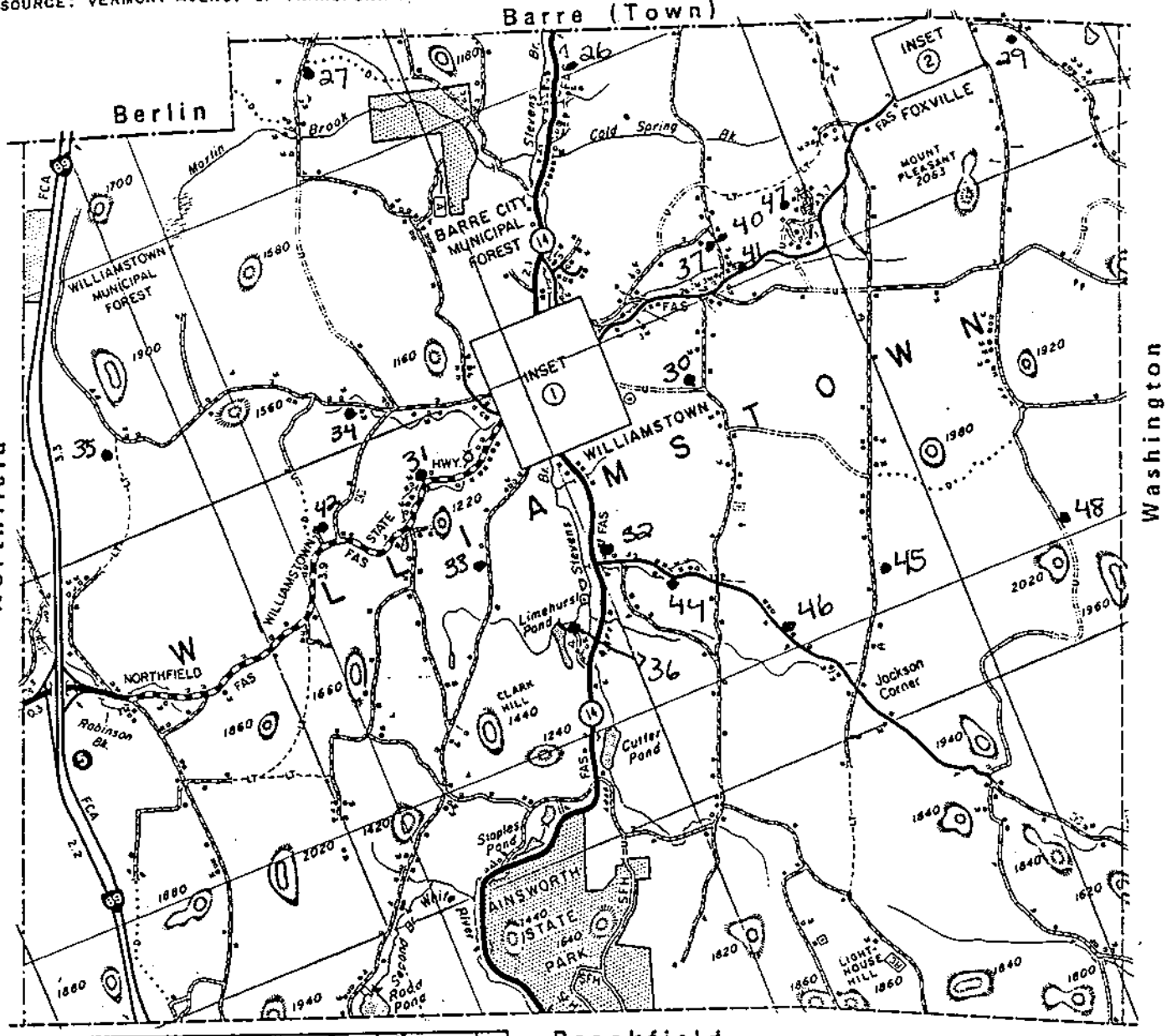
WELL NOS.: 26 - 50

BASIC WELL DATA

Well No.	Well Owner	Yield (gpm)	Total Depth (feet)	Depth To Bedrock (feet)	Static Water Level	Other Info
26	Francis Ryan 34C9	35	265	88	25	
27	Raymond Duff 34C6	6	145	10	--	
28	Dan Delina	3	175	0(?) 4(?)	11	
29	Maylion Beane 44A3	7½	141	8	--	
30	F. A. Tucker 34D7	2	340	20	--	
31	Armand Nadeau 34D4	50	204	20	4	
32	Warren Shangraw 34D7	1	250	16	5	
33	Warren Shangraw 34D4	3	350	1	5	
34	Horace H. Duke, Jr. 34C6	10	125	2	20	
35	Rouyx Messer 34C3	10	100	2	Flowing	
36	Leo St. Onge (Limehurst Pond) 34D4	10	295	25	20	
37	Raymond Duff 34C9	2½	200	12	12	
38	Raymond Duff	25	80	9	10	
39	Conrad Beattie 34D4	6	80	10	10	
40	Leslie Lamson 34C9	4	175	10	12	
41	Roger Darbr (Dash?) (Parks?) 34C9	4	130	5	5	
42	Brian Wrigley 34D4	20	140	3	12	
43	Town of Williamstown 34C9	75	25	Sand	$7\frac{17}{20}$	*Test
44	Lawerance Barllett 34D7	5	182	10	5	
45	A & F Builders 34D7	1	65	3	5	
46	Paul Fielder 34D7	4	188	4(?)	--	
47	William Buttles 34C9	10	195	5	FFlowing	
48	Miss Albigese 44B1	4	235	20	Flowing	
49	Morris Lasell	6	440	22	20	
50	Donald R. MacAskill	4	200	3	0	

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION

Williamstown 917



INSET ①
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

INSET ②
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

SCALE
1 0.5 0 1 2 MILES
1 0.5 0 1 2 KILOMETERS

Williamstown
26-50

No location: #49,50

WR #71
1974

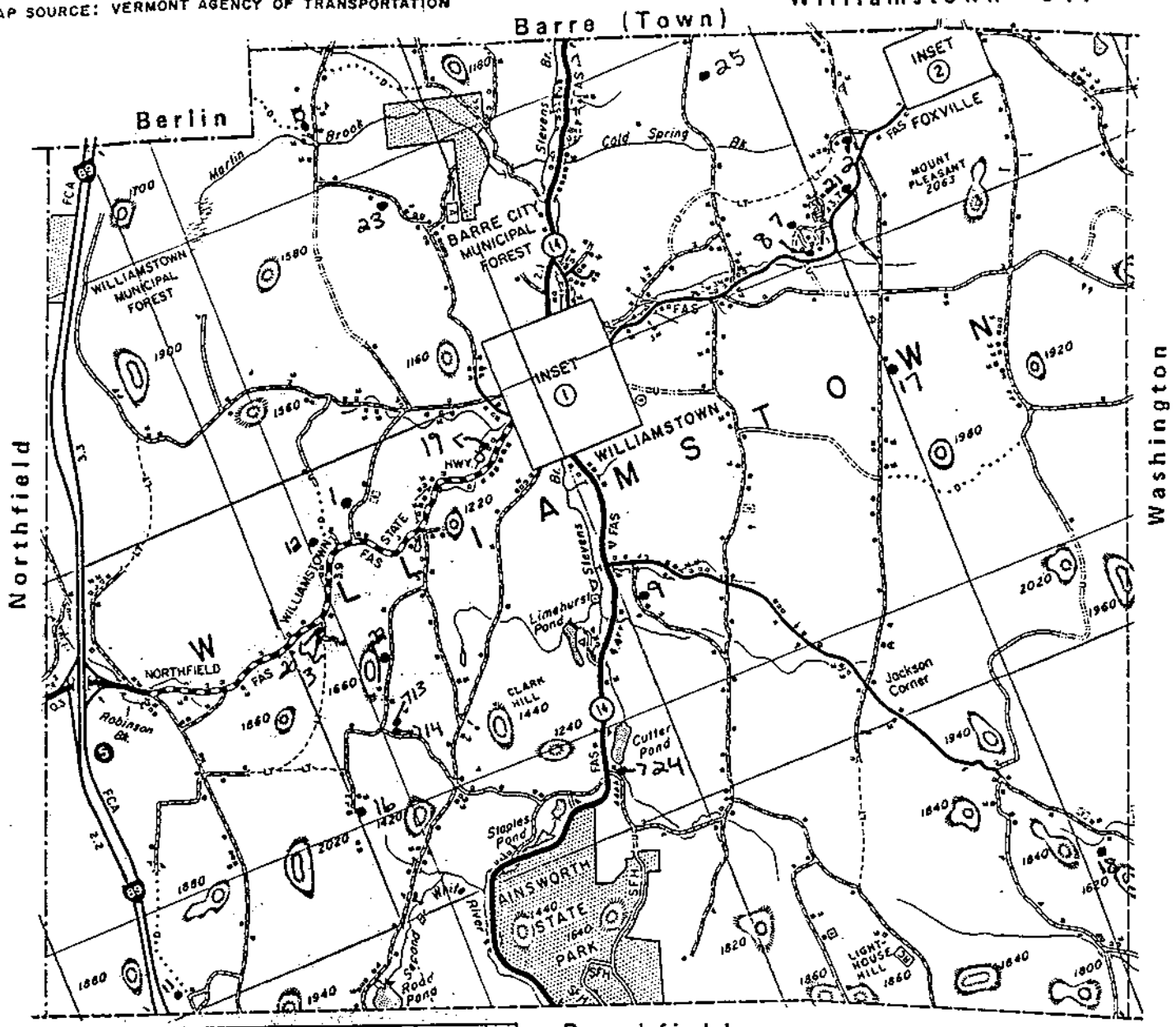
TOWN: WILLIAMSTOWN

WELL NOS.: 1 - 25

BASIC WELL DATA

Well No.	Well Owner		Yield (gpm)	Total Depth (feet)	Depth To Bedrock (feet)	Static Water Level	Other Info
1	Mr. & Mrs. Franise Duff	34D4	2½	110	50	19	
2	Ray Menard	44A3	6	190	4	--	
3	Ralph Wrigley	34D4	10	32	2	8	*See Well#20
4	J. Hodge	34D7	4	345	10	--	
5	U. S. Geological Survey	34D7	<1	40	86½(?)	7 3/10	*Destroy'd *Old Water Level Records
6	Raymond Duff	34C6	12	100	10	7	
7	Eugene Berard (?)	34C9	1½	295	150	25	
8	Larry Schafer	34C9	6	115	80	12	
9	Leonard MacCarthy	34D7	9	100	2	10	
10	Paul Stacey	34C6	2	250	24	30	
11	D. G. MacDonald		6½	173	10	--	
12	Harvey Laccillade	34D4	20	160	14	15	
13	Mr. Featherstone	34D4	20	130	35	10	
14	Mr. Mahoney	34D4	3	205	35	15	
15	Francis Leith	34C6	3	250	3	30	
16	Richard Dupee	34D4	2	158(?)	4	--	
17	Earl Eastman	44B1	10	265	17	12	
18	Lyman Sheford (Shepard ?)	44B2	3	130	10	12	
19	Paul Rouleau	34D4	20	110	14	10	
20	Ralph Wrigley	34D4	30	132	37(?)	80(?)	*Deepens Well#3
21	John Corbett	44A3	20	175	115	Flowing	
22	John Simex	34D4	½	295	0 (?) 6(?)	250	
23	Florence Fortier	34C6	6	175	31	30	
24	Harold Lawless (Lawliss?)	34D5	20	190	35	0	
25	George Saniguin (Savigem ?)	34C9	3	205	30	30	

MAP SOURCE: VERMONT AGENCY OF TRANSPORTATION



INSET 1
WILLIAMSTOWN

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

INSET 2
FOXVILLE

SCALE
0 0.1 0.2 MILES
0 0.1 0.2 KILOMETERS

Williamstown
1-25

-152-043

3409

State of Vermont
DEPARTMENT OF WATER RESOURCES

Form WR-59

WELL COMPLETION REPORT

WR #4pm USGS 034243
Field Lot ☐ Map Designation
Lat: 42° 07' 30" Alt. 800 TS
Lo: 72° 32' 01" ☒ HU
Scale: 62500 ☐ 25000 ☐ 24000 ☐

(This report must be completed and submitted to the Department of Water Resources, State Office Building, Montpelier, Vermont 05602, no later than 30 days after completion of well.)

WELL OWNER: TOWN OF WILLIAMSTOWN VT.
Name — Mailing Address

WELL DRILLER: Layne-New England Company (Branch of Layne-New York Co., Inc.) — Layne-New England Company, 15 Ryder St., Arlington, Mass. 02174
Name — Mailing Address

PROPOSED USE OR USES (Check):

☐ Domestic ☐ Agricultural ☐ Business Establishment ☐ Municipal ☐ Industrial

☒ Other (Specify use) TEST

CASTING DETAILS (Inside)	YIELD TEST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS
Length: 20' Feet	☐ Bailed or ☒ Pumped or ☐ Compressed Air — 5 Hours, 75 GPM	Static: 7.85 Feet	Make: Johnson
Diameter: 2½ Inches		During Yield Test: 8.55 Feet	Material: Steel
Kind: Steel		DRILLING EQUIPMENT: ☐ Cable Tool	Slot Size
Weight: 2.66 lbs/p/ft		☐ Rotary	Length: 5 Ft. 60
☐ New ☒ Used	Yield: 75 GPM	☐ Air Percussion ☒ Other (specify) WASH	Diameter: 1¼" in.

TOTAL DEPTH OF WELL 25 FEET

TOWN WELL IS LOCATED IN: WILLIAMSTOWN
(Make sketch of well location on reverse side of sheet)

WELL LOG

Depth From Ground Surface	Give description of formations penetrated, such as: peat, silt, sand, gravel, clay, hardpan, shale, limestone, granite, etc. Include size of gravel (diameter) and sand (fine, medium, coarse) color of material, structure (loose, packed, cemented, hard). For example: 0 ft. to 27 ft. fine, packed, yellow sand; 27 ft. to 134 ft. gray granite.
0 ft. to 5 ft.	TOPSOIL
5 ft. to 20 ft.	FINE MEDIUM BROWN SAND-SILTY
20 ft. to 41 ft.	FINE-MEDIUM DARK BROWN SAND TIGHT
ft. to ft.	
ft. to ft.	

YIELD TEST DATA IN G.P.M.
If yield was tested at different depth during drilling, List Below

35-40 ft.	5 G.P.M.
30-35 ft.	5 G.P.M.
25-30 ft.	5 G.P.M.

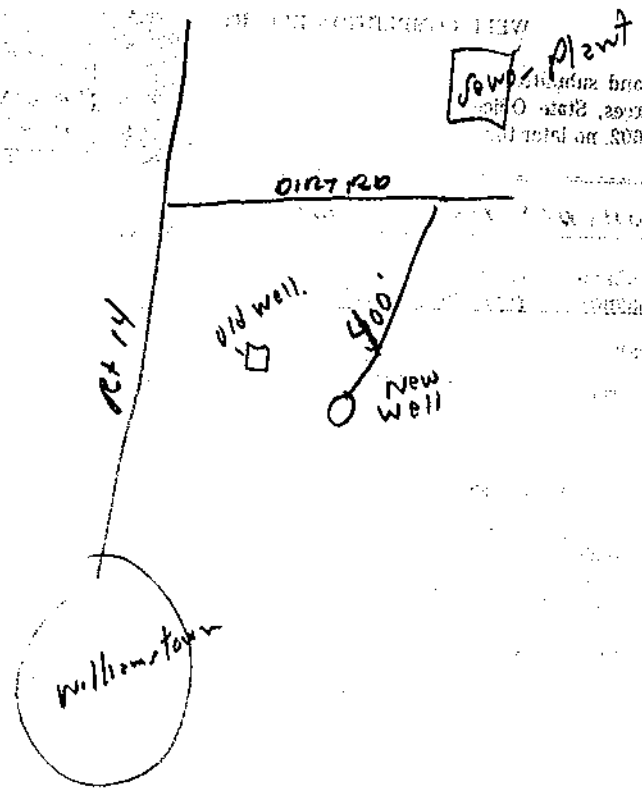
Has sample of well water been analyzed? YES

Where was sample analyzed? STATE
(Include analysis of sample if analyzed by other than Department of Water Resources.)

Date Well was Completed DECEMBER 11 1971 Date of Report JUNE 30, 1971

Water Well Driller's License No. 32 Well Driller (signature)

DAVID M. ERICKSON
District Manager



RECEIVED
APR 14 1972
Dept. of Water Resources

3467

State of Vermont
DEPARTMENT OF WATER RESOURCES

WELL COMPLETION REPORT

(This report must be completed and submitted to the Department of Water Resources, State Office Building, Montpelier, Vermont 05602, no later than 30 days after completion of well.)

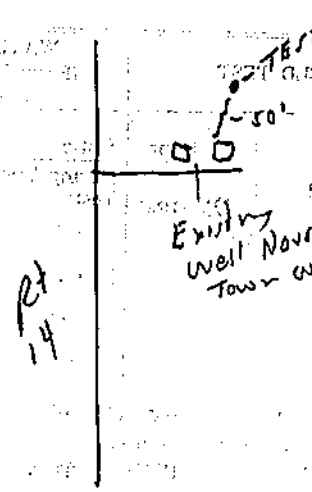
WELL OWNER: TOWN OF WILLIAMSTOWN
Name

WELL DRILLER: Layne-New England Company (Branch of Layne-New York Co., Inc.)
Name

PROPOSED USE OR USES (Check):

☐ Domestic ☐ Agricultural ☐ Establishment

☒ Other (Specify use) TEST



CASING DETAILS (Inside)		VIBRO TEST
Length: 50'	Feet	☐ Bailed or ☒ Pumped or ☐ Compressed
Diameter: 2"	Inches	
Kind: Steel		
Weight: 2.44	lbs/ft	
☐ New ☒ Used		
TOTAL DEPTH OF WELL: 25'		

Depth below Ground Surface		Diameter of Hole	
[illegible]	ft.	[illegible]	ft.
[illegible]	ft.	[illegible]	ft.
[illegible]	ft.	[illegible]	ft.
[illegible]	ft.	[illegible]	ft.
[illegible]	ft.	[illegible]	ft.
[illegible]	ft.	[illegible]	ft.
[illegible]	ft.	[illegible]	ft.
[illegible]	ft.	[illegible]	ft.
[illegible]	ft.	[illegible]	ft.

Has sample of well water been analyzed?

Where was sample analyzed?
Include analysis of sample

Date Well was Completed: [illegible]

Water-Well Driller's License No.