CHAUTAUQUA COUNTY DEPARTMENT OF LAW

VINCENT W. HORRIGAN
County Executive
STEPHEN M. ABDELLA
County Attorney

EDR
JUL 09 2015
RECEIVED

July 6, 2015

Mr. John Wojcikiewicz
Environmental Design & Research
217 Montgomery Street, Suite 1000
Syracuse, New York 13202

Re: Freedom of Information Law Request dated June 10, 2015

Dear Mr. Wojcikiewicz:

This is in reply to your FOIL request dated June 10, 2015. You requested records pertaining to public or private groundwater wells (including location, construction logs, depths, and descriptions of encountered bedrock within the area), and other groundwater resources within the project area of the map you provided with your request.

Attached please find eleven (11) pages pursuant to your request. Please do not hesitate to contact me if you have any questions. Thank you.

NO DOCUMENTS WERE DENIED IN RESPONSE TO THIS REQUEST.

The Freedom of Information Law stipulates that certain information may be denied, however, the County is required to advise you of your rights to appeal such denials. If you are denied information and you choose to appeal such denial, you must do so in writing within 30 days of receipt of such denial. The appealing authority is Vincent W. Horrigan, County Executive, 3 N. Erie Street, Mayville, New York 14757. Your appeal must state the date of the denial, the information requested, the information denied, and the reason for the denial.

Very truly yours,

Deniese Buckingham

Deniese Buckingham
Legal Secretary

GERACE OFFICE BUILDING, 3 NORTH ERIE STREET, MAYVILLE, NEW YORK 14757-1007, (716) 753-4247, FAX (716) 753-4129

ES CHEERFULLY GIVEN
INSURANCE COVERAGE

EHMKE WELL DRILLERS
Silver Creek
UNIFLOW

EHMKE WELL DRILLERS

WATER • GAS • TEST BORINGS

INDUSTRIAL – RESIDENTIAL
WELL SUPPLIES – WATER SYSTEMS
WATER CONDITIONERS

104 MAIN STREET – SILVER CREEK, N. Y.

716 934-2653

Cockaigne Recreation Area
Water Supply Well at Main
Chalet (Austrian Pavilian)

September 23, 1965

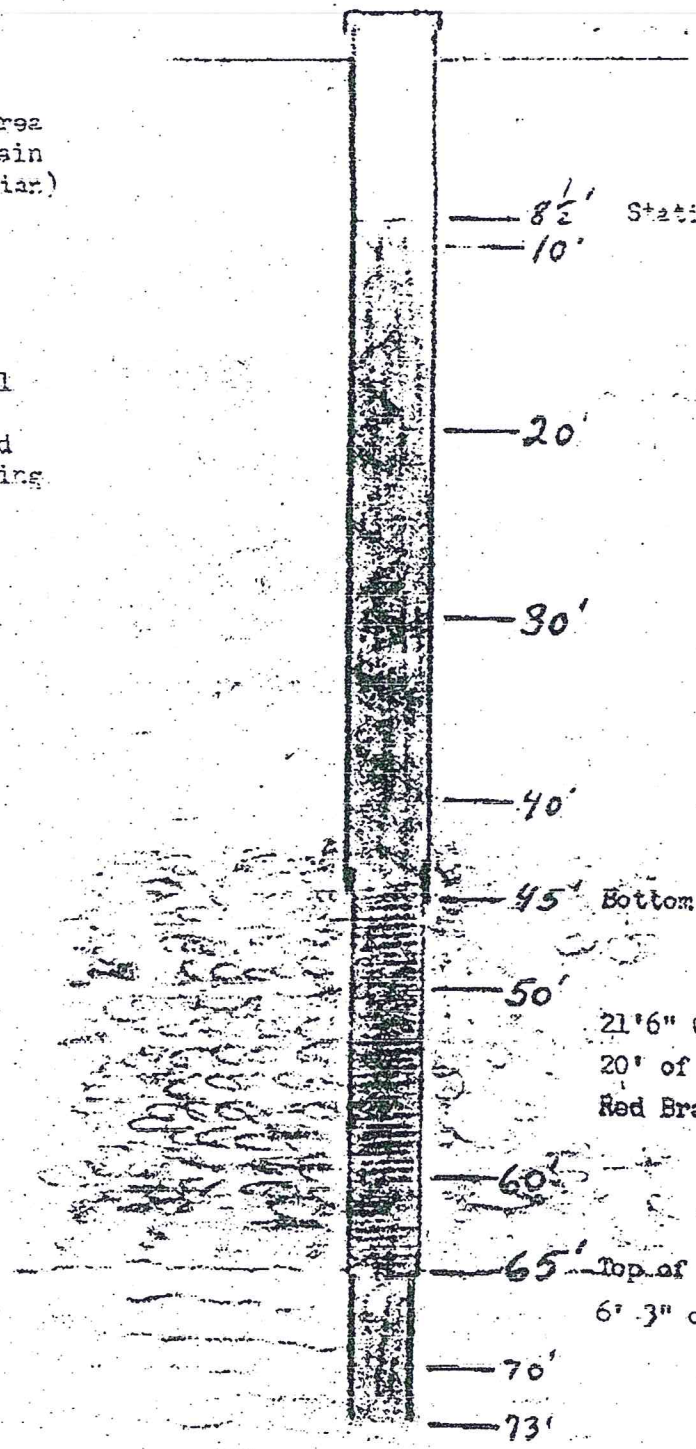
Driller-Leroy White

0-18" Top Soil & gravel

18"-43' Gravel and sand
Non Water Bearing

43'-65' Water Bearing
Gravel

65'-73' Shale Bed Rock



CHAUTAUQUA COUNTY
DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH – ENVIRONMENTAL HEALTH UNIT

VINCENT W. HORRIGAN
County Executive

CHRISTINE SCHUYLER
Director of Health & Human Services
(Commissioner of Social Services/Public Health Director)

Public water supply wells in the Cassadaga Wind Project area:

Pine Acres Mobile Home Park – on east side of Rt 60, south of Nelson Rd-no well log

Cockaigne – closed ski area located on County Route 66 (Thornton Rd) north of County Route 85. See attached well log

The Grainery – closed restaurant across the street from Cockaigne – no well log

Woodside Campground – on east side of Griswold Rd , south of County Route 72 (Bard Rd) – have 3 wells, all about 70 ft deep – no well logs

Cherry Creek Village – borings drilled on Southside Ave near village boundary (west side of Village) – See attached well logs

Sinclairville Village – wells located along southern Village boundary – see attached well logs.

HALL R. CLOTHIER BUILDING, MAYVILLE, NEW YORK 14757-1027
(716) 753-4481 ♦ FAX (716) 753-4344

ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC.

CRITTENDEN
(716) 937-6527
SYRACUSE
(315) 635-9818

HOLE NUMBER: MW 1-06

DATE: 4/26/06

ELEVATION

PROJECT: Monitoring Well Installation
Cherry Creek, Chautauqua County, New York

PREPARED FOR: State University of New York at Fredonia - Dr. Michael Wilson

BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N
1	8				
		7			11
			4		
				5	
2	4				
		4			9
			5		
				6	
3	5				
		10			27
			17		
				30	
4	8				
		9			21
			12		
				15	
5	4				
		9			19
			10		
				10	
6	6				
		9			19
			10		
				10	
7	4				
		6			12
			6		
				7	
8	9				
		15			31
			16		
				21	
9	15				
		11			19
			8		
				9	
10	5				
		3			7
			4		
				5	

LITH

DESCRIPTION	WELL DETAIL	REMARKS
Moist, dark brown (SANDY-SILT) topsoil / fill with little to some very fine size sand, compact with roots (0.0 – 0.4)	0.0; 2" PVC Riser Pipe	Topsoil / fill to 0.4 foot over sandy fill with some gravel to 2.0 feet over silty slack water sediment to 4.0 feet over water sorted and deposited coarse silt with some gravel to 9.5 feet over water sorted and deposited sand and gravel with little to some silt to 14.5 feet over coarse silty glacial drift to 16.0 feet over alternating silty and clayey lake sediment to 25.0 feet over clayey lake sediment to 34.0 feet over loamy glacial drift to 37.0 feet over water sorted and deposited gravel to 40.0 feet over clayey glacial drift to 44.0 feet over coarse silty glacial drift to 48.0 feet over silty tending towared clayey glacial till to 52.5 feet over shale rock to 57.7 feet over Shale Bedrock to end of coring
Moist, brown, gravelly (SILTY-SAND) fill with 20 to 40% gravel, very fine size sand, little silt, compact (0.4 – 2.0)		
Moist, faintly mottled, brown (CLAYEY-SILT) with 3 to 5% gravel, little clay, stiff, weakly thinly bedded (2.0 – 4.0)		
Moist to extremely moist, faintly mottled, brown, gravelly (SANDY-SILT) with 20 to 40% gravel with occasional cobbles, little very fine size sand, compact, weakly thinly bedded (4.0 – 9.5)	Cement / Bentonite Grout	
Wet, brown, very gravelly (SILTY-SAND) with 40 to 50% gravel, very fine to coarse size sand, little to some silt, compact, stratified (9.5 – 14.5)		
Extremely moist, grayish brown, gravelly (SANDY-SILT) with 15 to 30% gravel, little very fine size sand, dense, weakly thinly bedded (14.5 – 16.0)		
Extremely moist, gray, alternating (SILT) and (CLAYEY-SILT) compact to loose and very stiff to firm, thinly bedded and thinly laminated (16.0 – 57.7)		

LOGGED BY Dale M. Gramza / Senior Geologist

SHEET 1 OF 4

ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC.

CRITTENDEN
(716) 937-6527
SYRACUSE
(315) 635-9818

HOLE NUMBER: MW 1-06

DATE: 4/26/06 ELEVATION

PROJECT Monitoring Well Installation
Cherry Creek, Chautauqua County, New York

PREPARED FOR: State University of New York at Fredonia - Dr. Michael Wilson

BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N	LITH	DESCRIPTION	WELL DETAIL	REMARKS
11	5	4	6	7	10		Extremely moist, gray, alternating (SILT) and (CLAYEY-SILT) loose and stiff, thinly bedded and thinly laminated	2" PVC Riser	
12	5	3	5	4	8				
13	3	4	5	6	9		25.0 Wet, gray (CLAYEY-SILT) with some clay, firm, thinly laminated with very thin coarse silt lenses		
14	4	3	5	4	8				
15	1	3	4	6	7		30.0	Cement / Bentonite Grout	
16	16	7	8	13	15		Wet, gray (CLAYEY-SILT) with some clay, stiff, thinly laminated with wet (SILTY- SAND) layers 3 to 6 inches thick		
17	7	6	7	10	13		34.0		
18	15	12	9	9	21		Extremely moist, olive gray (SAND-SILT-CLAY) with 15 to 30% gravel, little clay and very fine size sand, compact, weakly stratified		
19	10	12	13	13	25		37.0 Wet, olive gray (GRAVEL) with 70 to 80 % subangular to subrounded gravel, compact in place, stratified		
20	38	50/5"			>50		40.0		

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DATE: 4/26/06 ELEVATION

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Cherry Creek, Chautauqua County, New York

PREPARED FOR: State University of New York at Fredonia - Dr. Michael Wilson

BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N
21	36				
		16			34
			18		
				37	
22	13				
		15			38
			23		
				49	
23	7				
		13			27
			14		
				16	
24	11				
		22			45
			23		
				37	
25	17				
		28			68
			40		
				50/5"	
26	47				
		50/4"			>50
27	50				
		50/5"			>50
28	100/5				
29	100/5				
		RUN	#1		

LITH

DESCRIPTION

Moist, grayish brown to gray, gravelly (CLAYEY-SILT) with 15 to 25% gravel, little to some clay, hard, weakly stratified

44.0

Extremely moist, gray, gravelly (SANDY- SILT) with 15 to 25% gravel, little very fine size sand, compact, weakly stratified

48.0

Moist, olive gray, gravelly (CLAYEY-SILT) with 15 to 25% gravel, little to some clay, hard, weakly stratified to massive soil structure

52.5

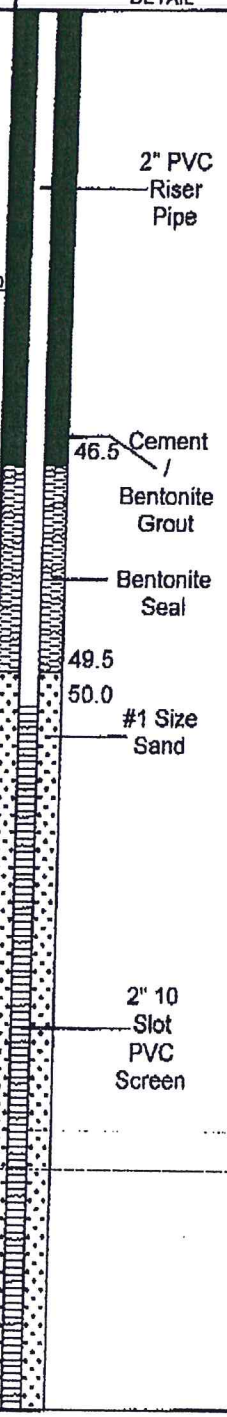
Shale rock, gray, moderately soft, fractured

57.7

Shale Bedrock, gray, moderately hard, very thin to thinly bedded 1 to 4 inches thick with occasional thin weathered seams noticed from 17.7' to

60.0

WELL DETAIL



REMARKS

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BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N	LITH	DESCRIPTION	WELL DETAIL	REMARKS
60							20.7' Shale Bedrock, gray, moderately hard, very thin to thinly bedded 1 to 4 inches thick	#1 Size Sand; 2" 10 Slot PVC Screen	
65							65.0 Rock Coring Completed at 65.0 feet	65.0 Well Installation Completed at 65.0 feet BGS	
70									
75									
80									

CORE DATA

RUN #	Int. (ft)	Length (ft)	Rec. (ft)	Rec. %	RQD %
1	57.7 to 65.0	7.3	7.0	96	30

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ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC
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(716) 937-6527
SYRACUSE
(315) 635-9818

HOLE NUMBER: MW 2-06

DATE: 5/01-5/02 ELEVATION

PROJECT: Monitoring Well Installation
Cherry Creek, Chautauqua County, New York

PREPARED FOR: State University of New York at Fredonia - Dr. Michael Wilson

BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N
1	6	5	8	10	13
2	5	8	14	16	22
3	10	12	12	14	24
4	4	11	11	9	22
5	10	13	14	15	27
6	4	7	9	13	16
7	16	16	14	13	30
8	14	11	7	6	18
9	9	7	7	8	14
10	7	8	8	8	16

LITH

DESCRIPTION

0.0–0.5: Moist, dark brown (SANDY-SILT) topsoil / fill with little very fine size sand

0.5–2.0: Moist, distinctly mottled, brown, gravelly (SANDY-SILT) fill with 20 to 40% gravel, little very fine size sand, compact

2.0–5.0: Extremely moist, distinctly mottled, brown (SILT) with trace very fine size sand, thinly bedded

5.0–10.0: Moist, faintly mottled, brown, gravelly (SANDY-SILT) with 15 to 25% gravel, little very fine size sand, compact, weakly thinly bedded

10.0–15.5: Wet, brown, very gravelly (SILTY-SAND) with 40 to 50% gravel, very fine size sand, little to some silt, compact, weakly stratified

15.5–18.0: Wet, brown to grayish brown (SILT) with trace clay, compact, thinly bedded with thin (CLAYEY-SILT) lenses

18.0–20: Extremely moist, gray, alternating (SILT) with trace very fine size sand and (CLAYEY-SILT) with some clay, thinly bedded and thinly

WELL DETAIL

0.0 Cement / Bentonite Grout

2" PVC Riser Pipe

1" PVC Riser Pipe

6.0

Bentonite Seal

9.0

#1 Size Sand

10.5

1" 10 Slot PVC Screen

15.5

16.0

1" Well Installation Completed at 15.5'

Bentonite Seal

REMARKS

Topsoil / fill to 0.5 foot over coarse silty fill with some gravel to 2.0 feet over silty slack water sediment with trace sand to 5.0 feet over water sorted and deposited coarse silty with little gravel to 10.0 feet over water sorted and deposited sand and gravel to 15.5 feet over silty slack water sediment to 18.0 feet over alternating silt and clayey lake sediment to 23.0 feet over clayey lake sediment to 28.5 feet over water sorted and deposited sand with some gravel to 31.5 feet over clayey lake sediment to 34.0 feet over water sorted and deposited sand and gravel with little silt to 58.0 feet over clayey glacial till to end of boring

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BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N
11	3				
		4			9
			5		
				5	
12	1				
		3			7
			4		
				4	
13	2				
		2			5
			3		
				4	
14	2				
		3			8
			5		
				9	
15	5				
		7			16
			9		
				11	
16	1				
		5			11
			6		
				3	
17	1				
		3			8
			5		
				7	
18	10				
		18			37
			19		
				12	
19	18				
		19			32
			13		
				15	
20	18				
		17			32
			15		
				16	

LITH

DESCRIPTION

laminated compact and very stiff

Extremely moist, gray, alternating (SILT) with trace very fine size sand and (CLAYEY-SILT) with some clay, thinly bedded and thinly laminated loose and stiff

23.0

Wet, gray (CLAYEY-SILT) with some clay, firm, thinly laminated with very thin coarse silt lenses

26.5

Wet, brown (SILTY-SAND) with very fine size sand, compact, thinly bedded

29.5

Wet, brown, gravelly (SILTY-SAND) with 20 to 40% gravel, very fine to fine size sand, little silt, compact, stratified

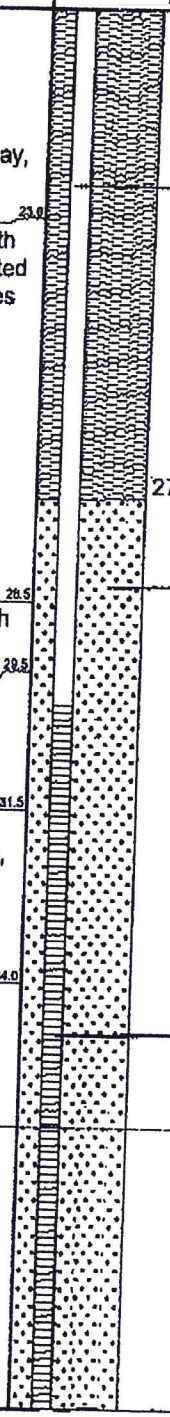
31.5

Extremely Moist, brown (CLAYEY-SILT) with some clay, stiff, thinly laminated with very thin coarse silt lenses and thin wet (SILTY-SAND) layers

34.0

Wet, brown, very gravelly (SILTY-SAND) with 40 to 50% gravel, very fine to fine size sand, little silt, dense, stratified

WELL DETAIL



REMARKS

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SHEET 2 OF 4

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HOLE NUMBER: MW 2-06

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BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N
21	21				
		14			31
			17		
				18	
22	18				
		23			48
			25		
				18	
23	21				
		20			36
			16		
				16	
24	19				
		21			38
			17		
				15	
25	36				
		37			60
			23		
				27	
26	29				
		33			51
			18		
				19	
27	19				
		30			>50
			50/4"		
28	23				
		26			54
			28		
				30	
29	39				
		50/5"			>50
30	14				
		27			58
			31		
				50/3"	

LITH	DESCRIPTION	WELL DETAIL	REMARKS
	Wet, brown, very gravelly (SILTY-SAND) with 40 to 50% gravel, very fine to fine size sand, little silt, dense, stratified	#1 Size Sand; 2" 10 Slot PVC Screen	
	58.0 Moist, gray to grayish brown, gravelly (CLAYEY-SILT) with 15 to 30% gravel, some clay, hard, massive soil structure		

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HOLE NUMBER: MW 2-06

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BORING LOCATION:

SN	0/6	6/12	12/18	18/24	N	LITH	DESCRIPTION	WELL DETAIL	REMARKS
31	19						Moist, gray to grayish brown, gravelly (CLAYEY-SILT) with 15 to 30% gravel, some clay, hard, massive soil structure		
		29			65				
			36						
				56					
							Boring Completed at 62.0 feet BGS	62.0 2" Well Installation Completed at 60.0 feet	

60 65 70 75 80

LOGGED BY Dale M. Gramza / Senior Geologist SHEET 4 OF 4

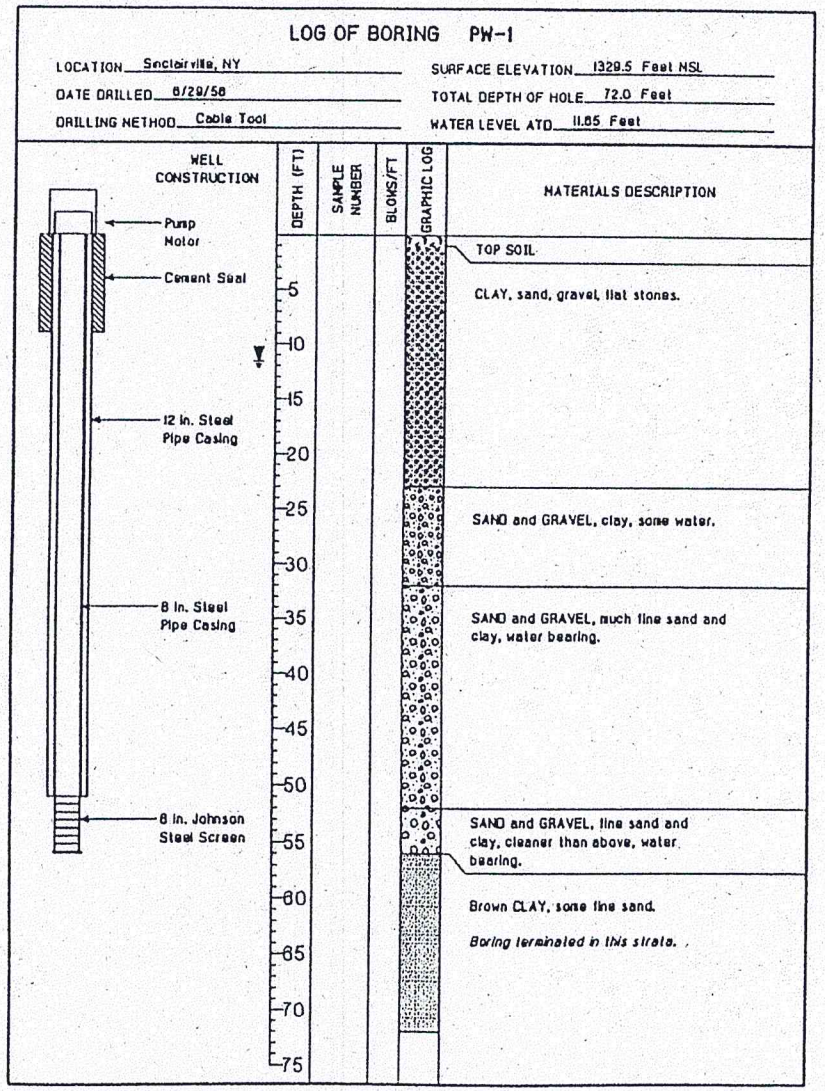

Figure H.3

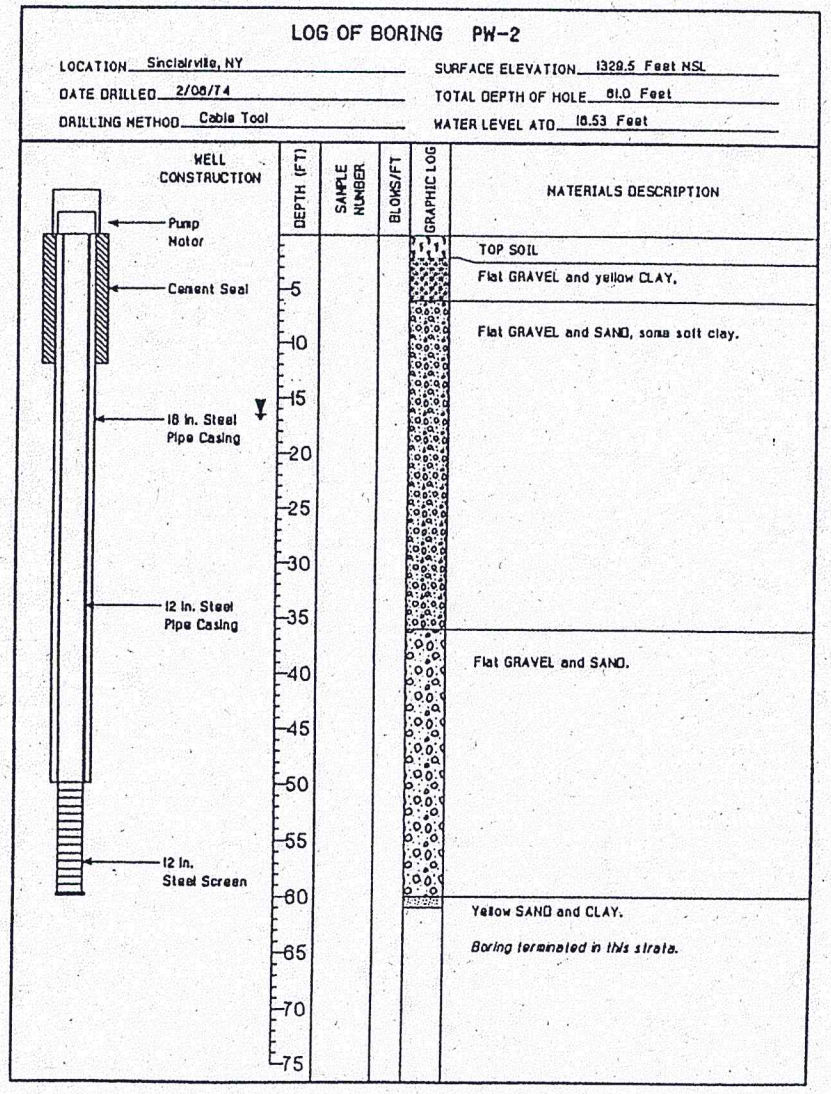

Figure H.4