

**APPENDIX A
WELL CONSTRUCTION DATA**

Key to Exploration Logs

Sample Description

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:

Density/consistency, moisture, color, minor constituents, MAJOR CONSTITUENT, additional remarks.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance.

Soil density/consistency in test pits is estimated based on visual observation and is presented parenthetically on the test pit logs.

SAND or GRAVEL	Standard Penetration Resistance (N) in Blows/Foot	SILT or CLAY	Standard Penetration Resistance (N) in Blows/Foot	Approximate Shear Strength in TSF
Density		Consistency		
Very loose	0 - 4	Very soft	0 - 2	<0.125
Loose	4 - 10	Soft	2 - 4	0.125 - 0.25
Medium dense	10 - 30	Medium stiff	4 - 8	0.25 - 0.5
Dense	30 - 50	Stiff	8 - 15	0.5 - 1.0
Very dense	>50	Very stiff	15 - 30	1.0 - 2.0
		Hard	>30	>2.0

Moisture

Dry	Little perceptable moisture
Damp	Some perceptable moisture, probably below optimum
Moist	Probably near optimum moisture content
Wet	Much perceptable moisture, probably above optimum

Minor Constituents

Estimated Percentage

Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Legends

Sampling Test Symbols

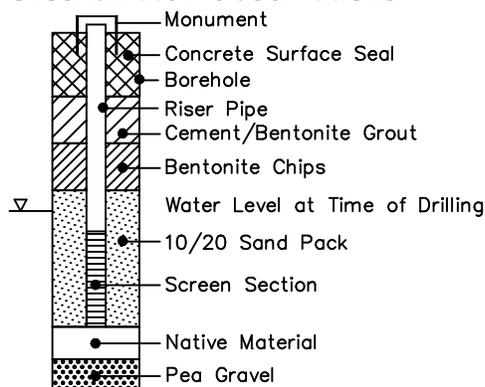
BORING SAMPLES

	Split Spoon
	Shelby Tube
	Cuttings
	Core Run
*	No Sample Recovery
P	Tube Pushed, Not Driven

TEST PIT SAMPLES

	Grab (Jar)
	Shelby Tube
	Bag
	Bucket Sample

Groundwater Observations



Test Symbols

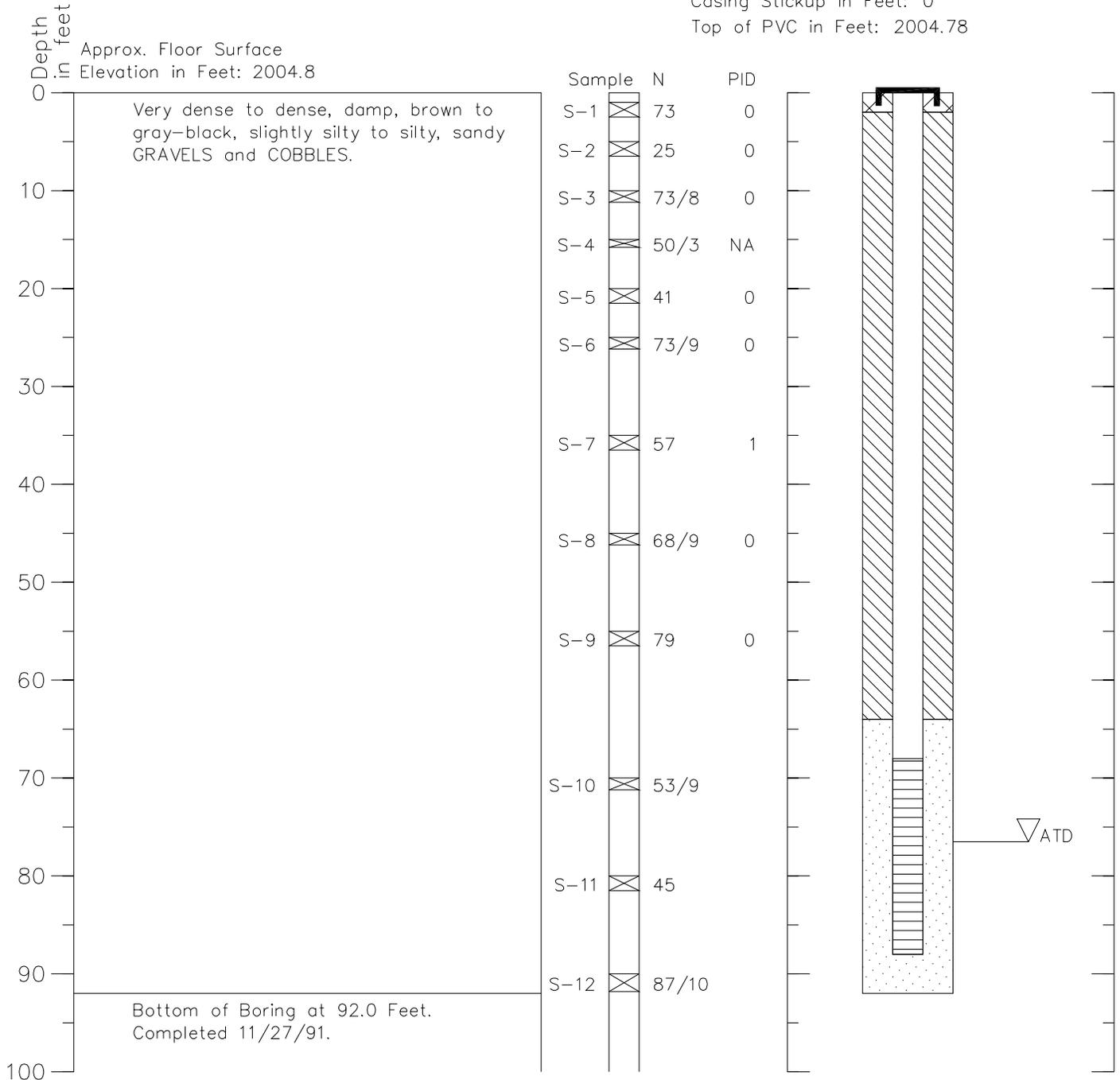
GS	Grain Size Classification
CN	Consolidation
TUU	Triaxial Unconsolidated Undrained
TCU	Triaxial Consolidated Undrained
TCD	Triaxial Consolidated Drained
QU	Unconfined Compression
DS	Direct Shear
K	Permeability
PP	Pocket Penetrometer Approximate Compressive Strength in TSF
TV	Torvane Approximate Shear Strength in TSF
CBR	California Bearing Ratio
MD	Moisture Density Relationship
AL	Atterberg Limits
	Water Content in Percent
	Liquid Limit
	Natural Plastic Limit
PID	Photoionization Reading
CA	Chemical Analysis

Boring Log and Construction Data for Monitoring Well CL-MW-1

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 0
Top of PVC in Feet: 2004.78



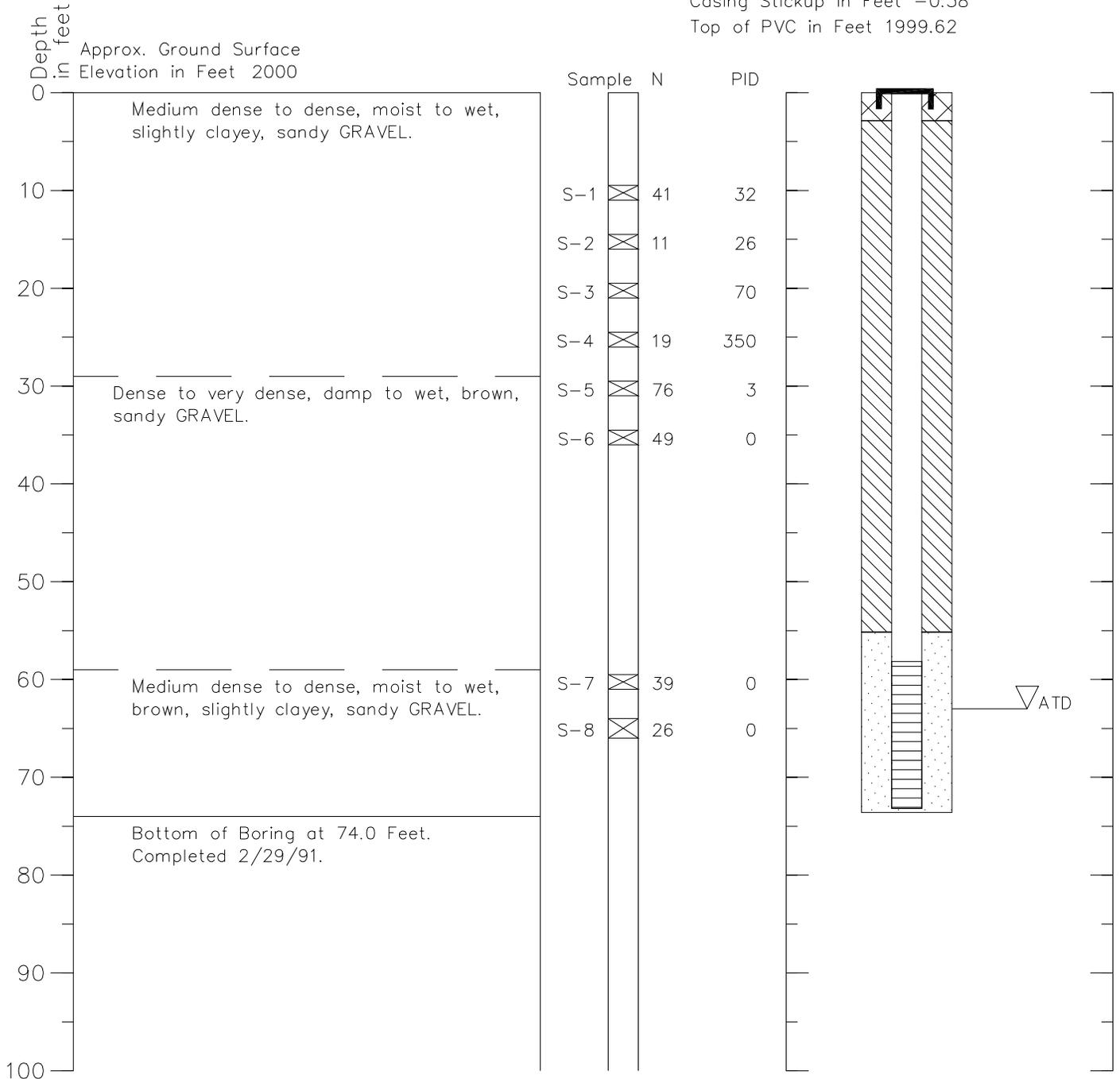
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well DW-MW-1

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.38
Top of PVC in Feet 1999.62



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

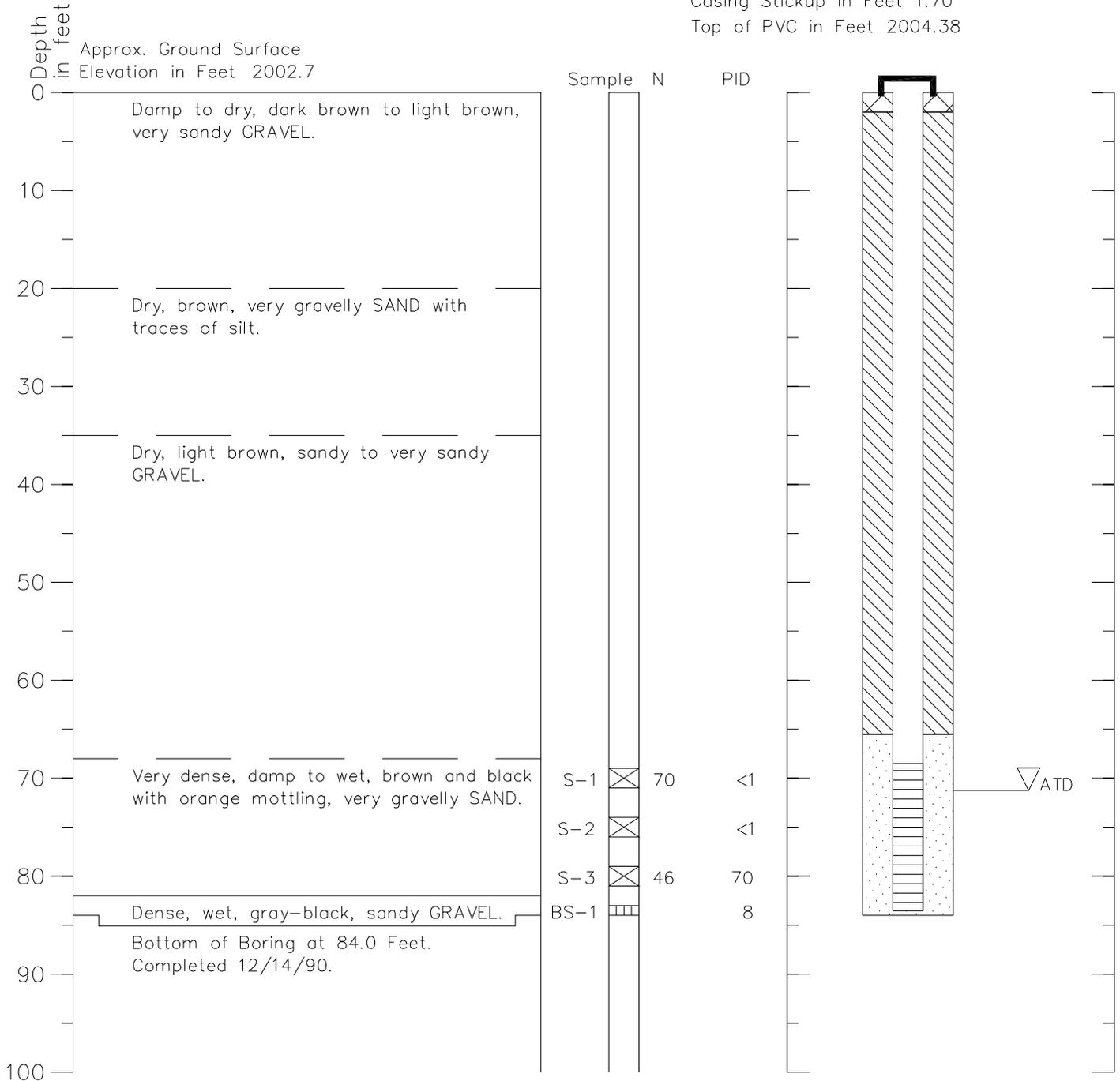
hel 4/14/03 1=1
264476 logs 01.dwg

Boring Log and Construction Data for Monitoring Well HL-MW-1

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.70
Top of PVC in Feet 2004.38



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

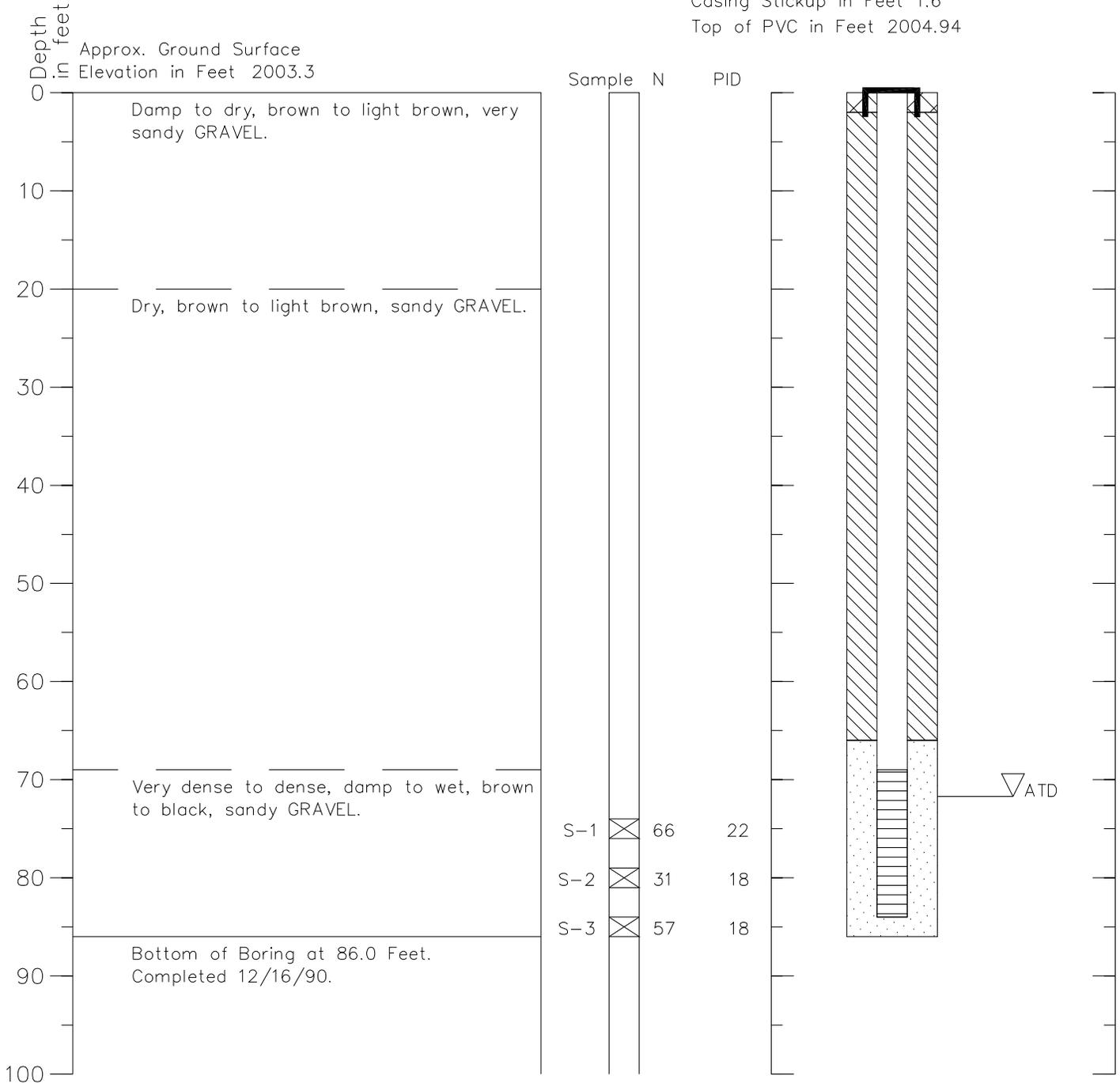
hel 4/14/03 1=1
264476 logs 02.dwg

Boring Log and Construction Data for Monitoring Well HL-MW-2

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.6
Top of PVC in Feet 2004.94



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

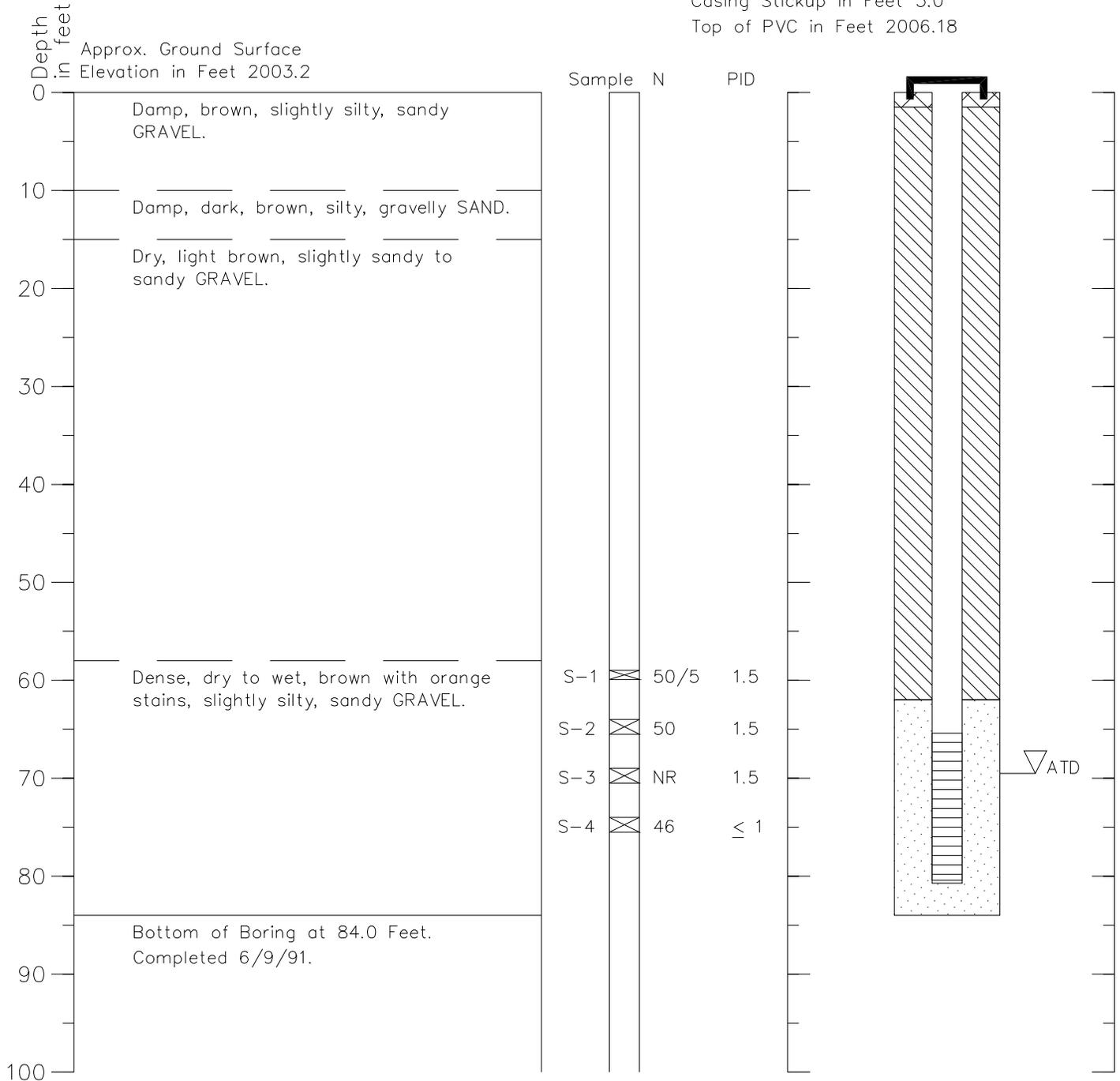
hel 4/14/03 1=1
264476 logs 03.dwg

Boring Log and Construction Data for Monitoring Well HL-MW-3

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 3.0
Top of PVC in Feet 2006.18



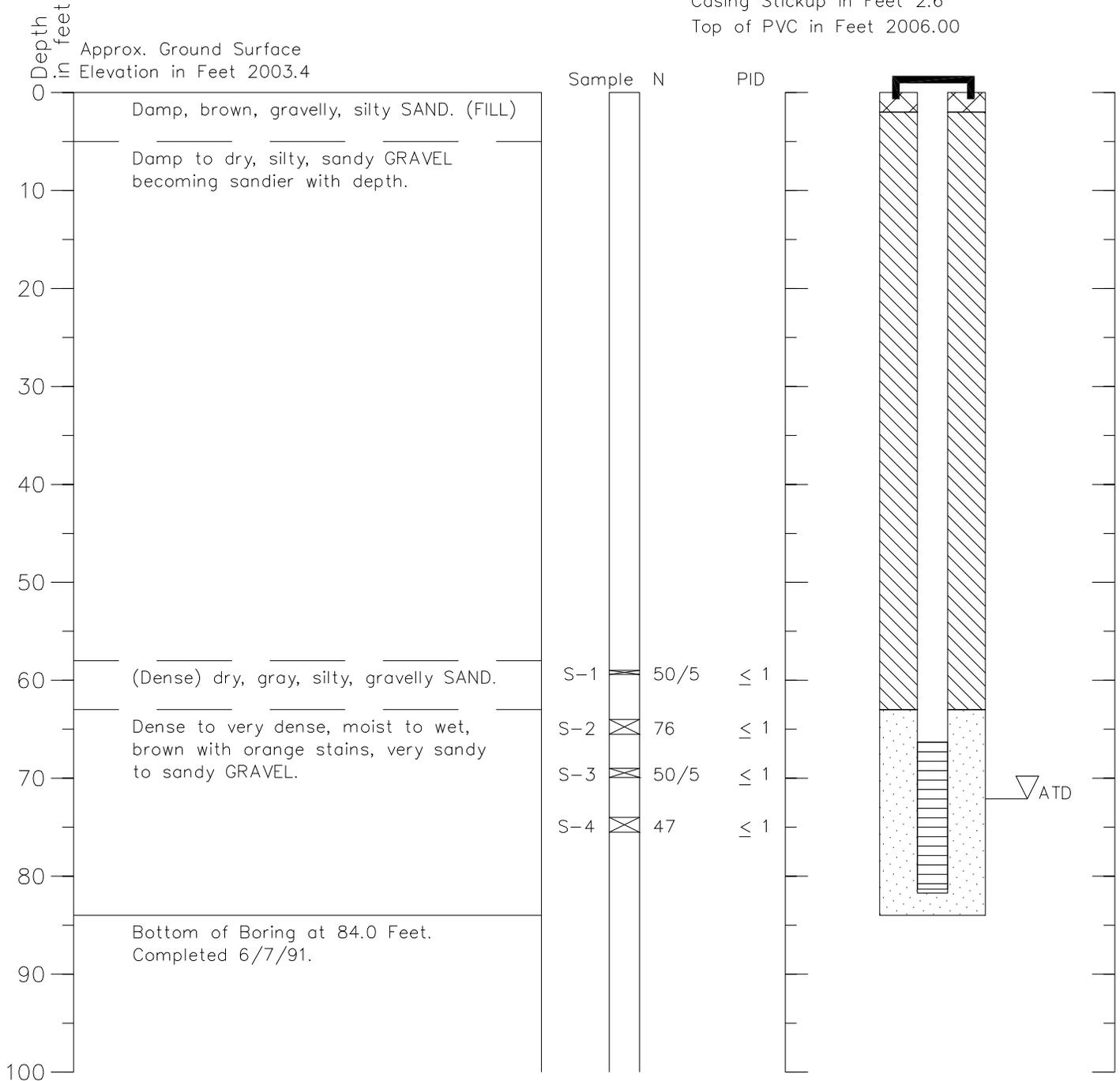
1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
- NR: Not recorded due to repositioning of sampler.

Boring Log and Construction Data for Monitoring Well HL-MW-4

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.6
Top of PVC in Feet 2006.00



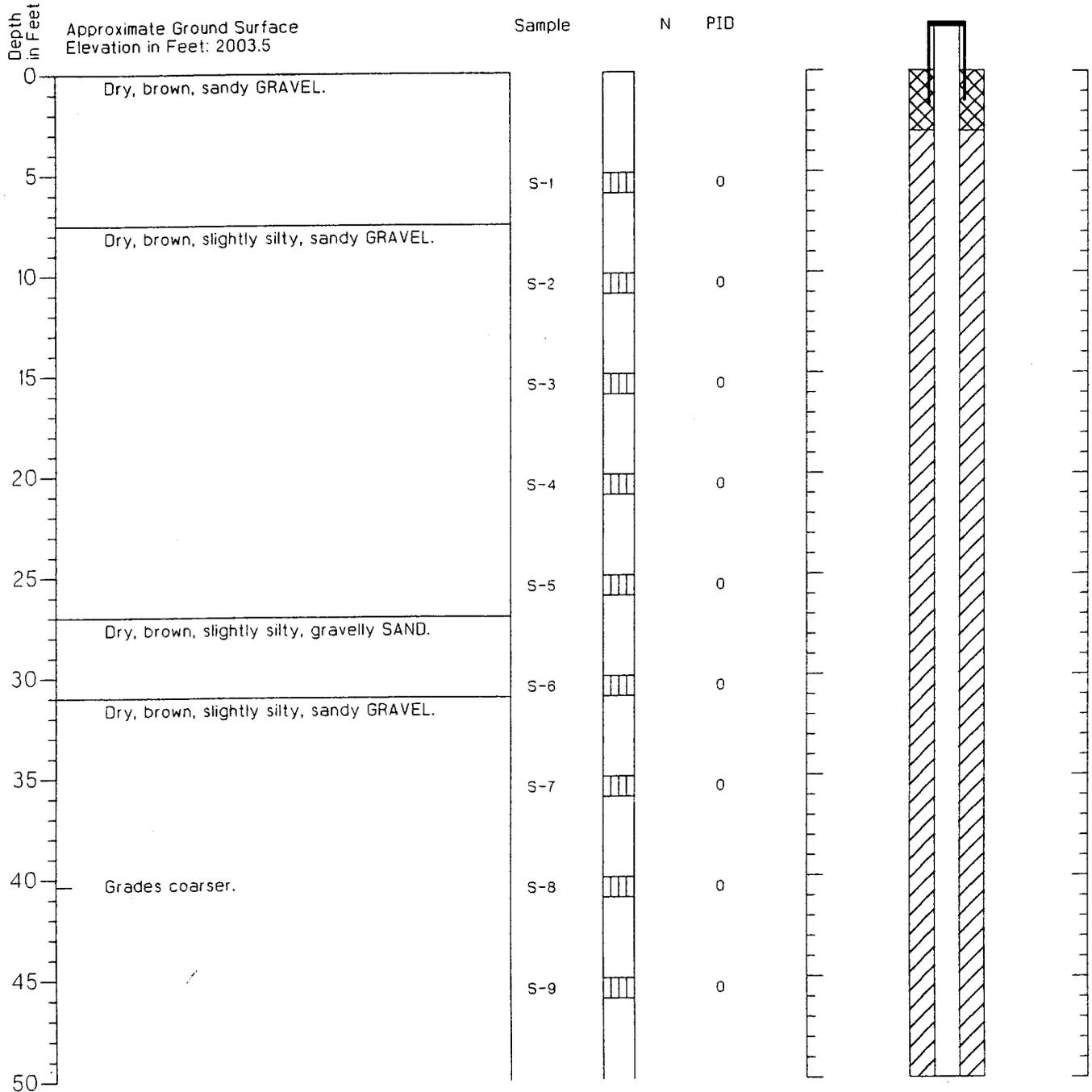
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well HL-MW-5

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 2.4
Top of PVC in Feet: 2005.89



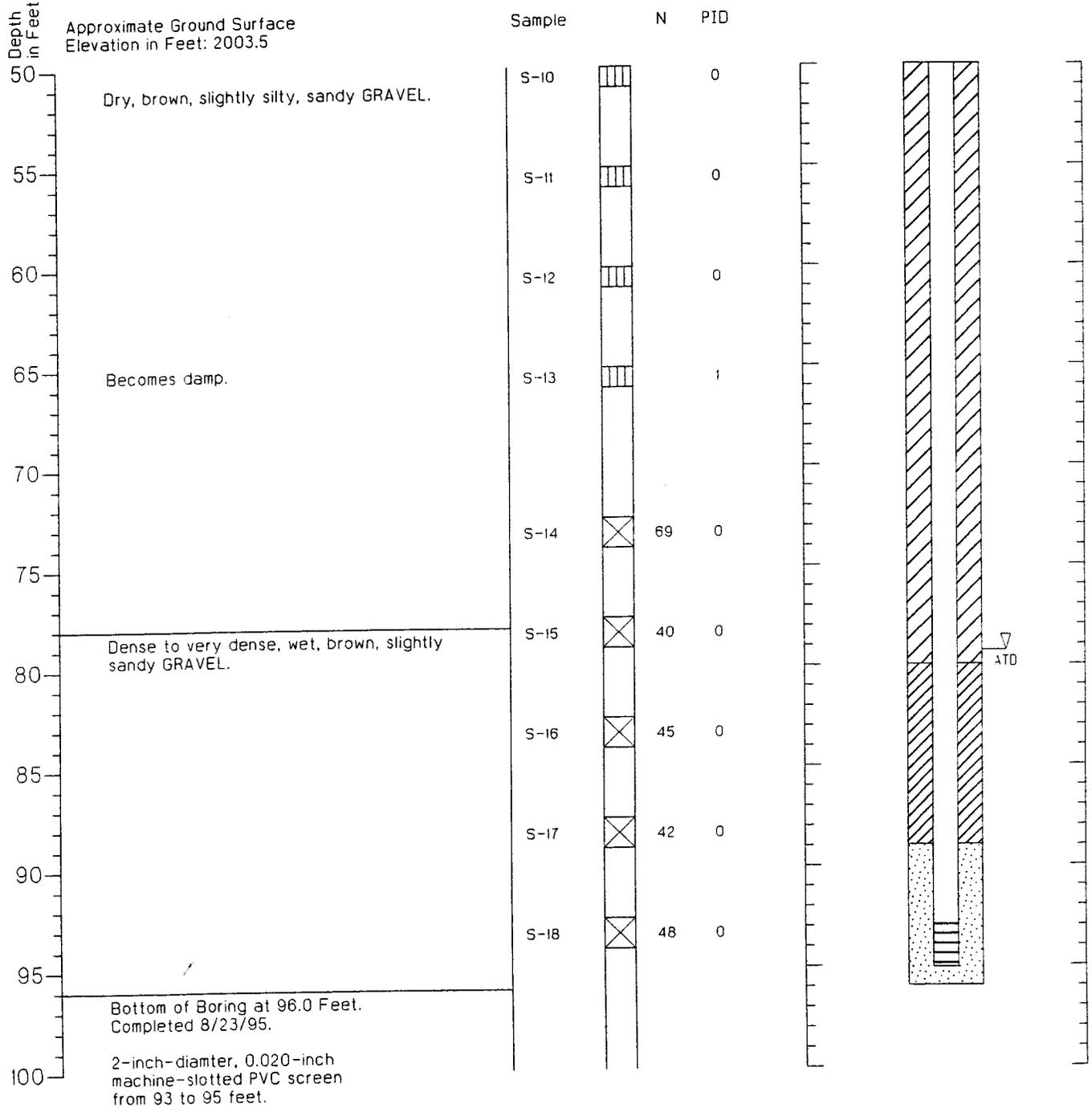
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well HL-MW-5

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 2.4
Top of PVC in Feet: 2005.89



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

J-2644-58

8/95

Figure A-8

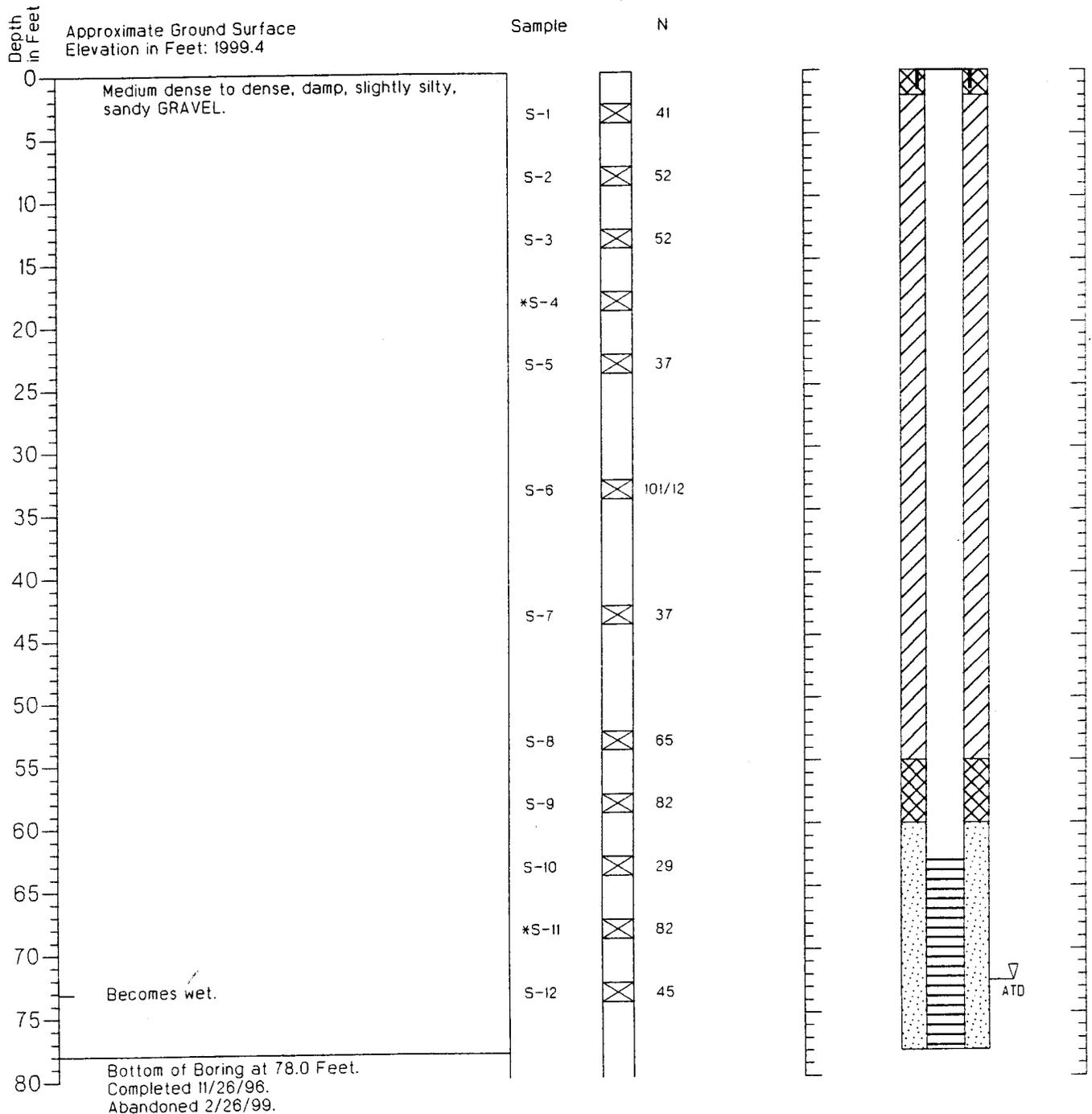
2/2

Boring Log and Construction Data for Monitoring Well HL-MW-6

Geologic Log

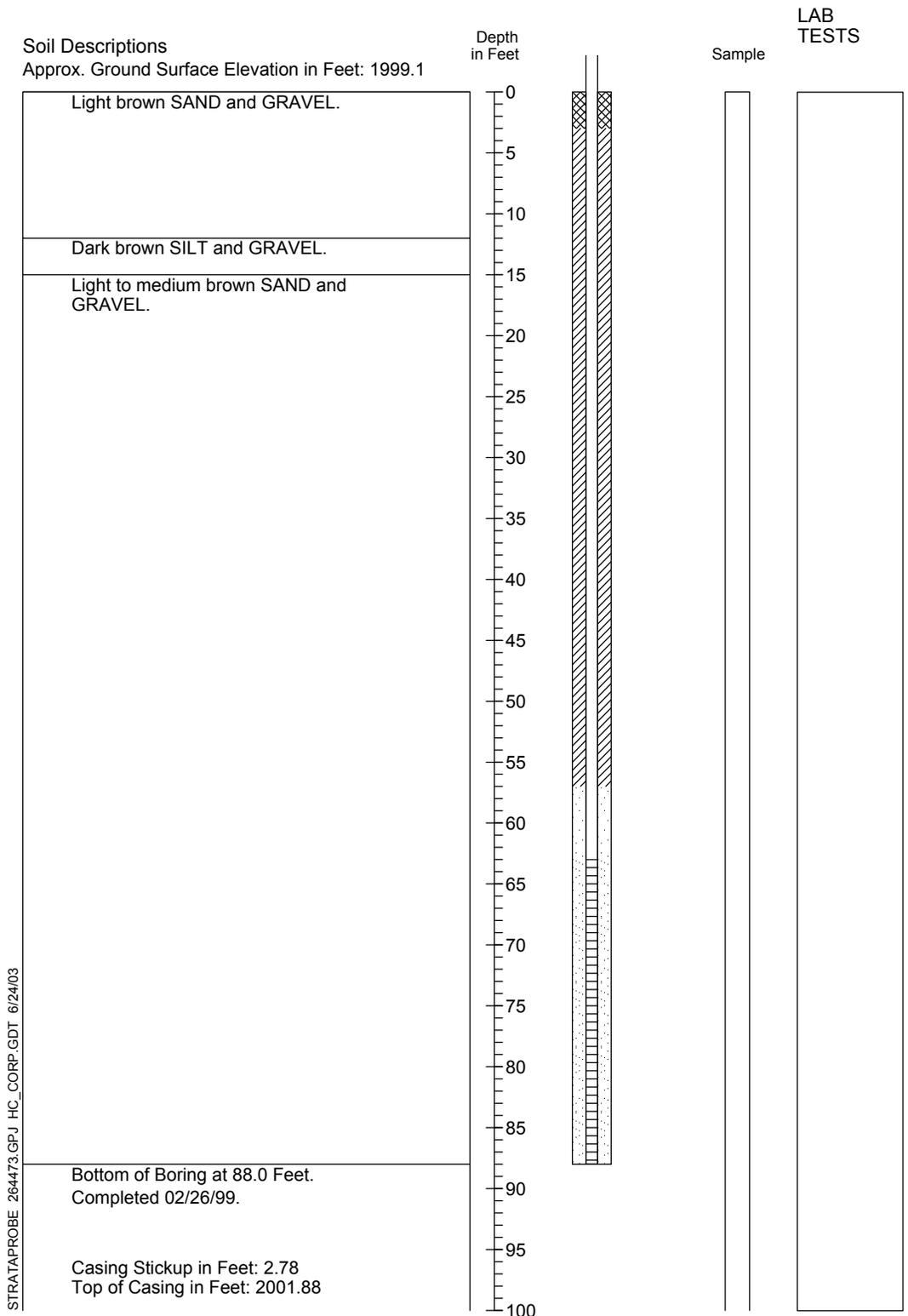
Monitoring Well Design

Casing Stickup in Feet: -0.16
Top of Casing in Feet 1999.24



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log & Construction Data for Monitoring Well HL-MW-6A



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



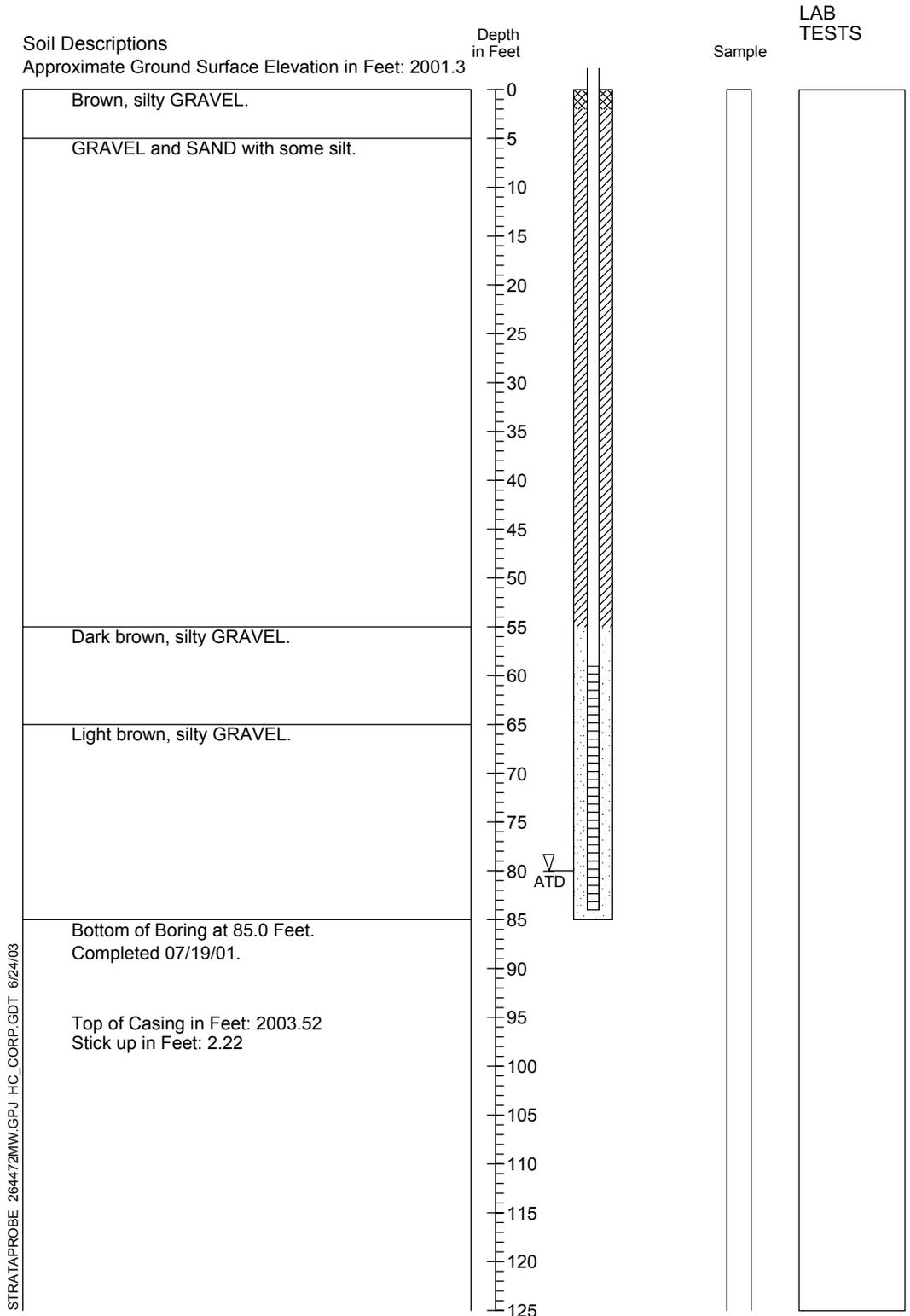
HARTCROWSER

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02/99

Figure A-10

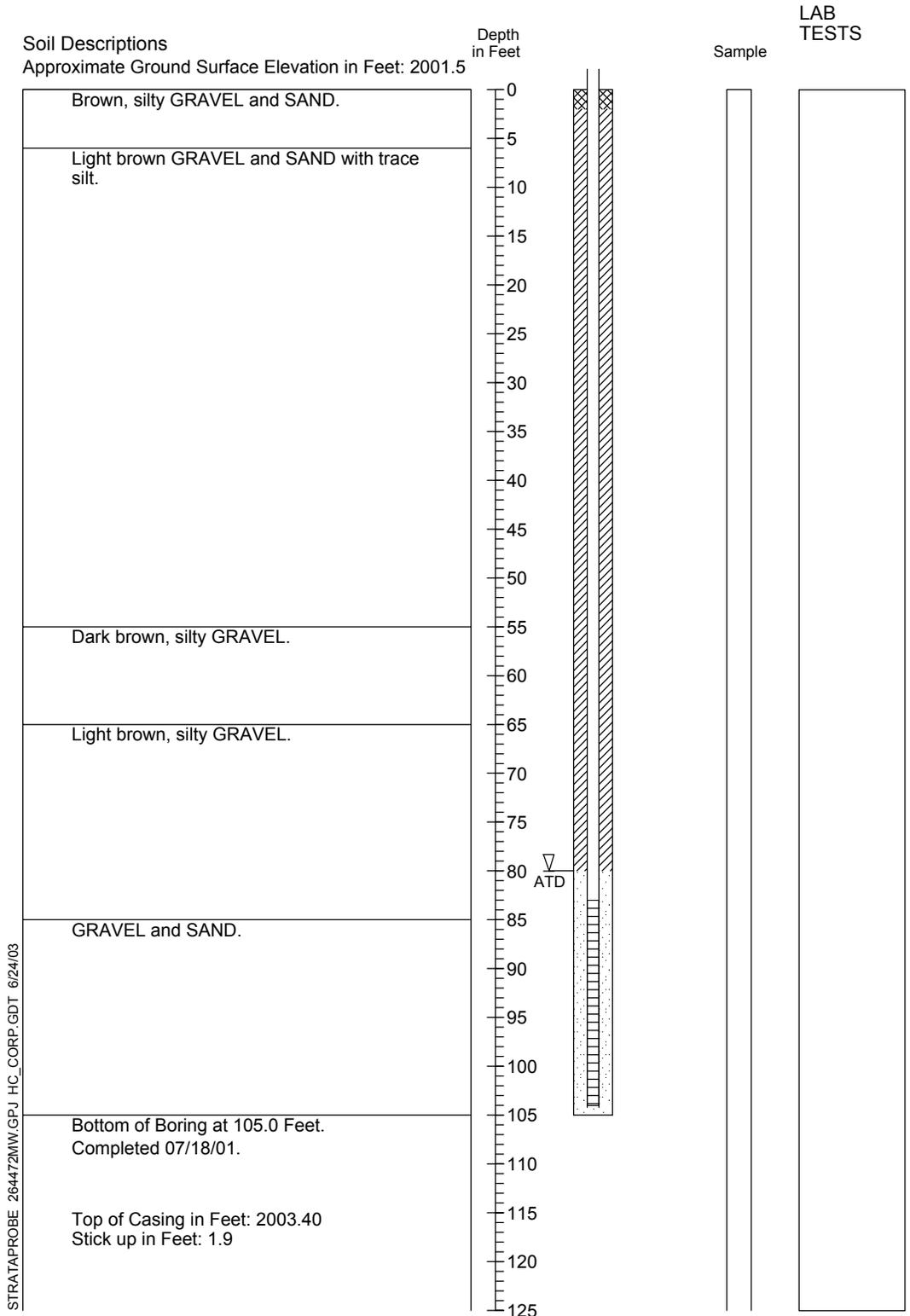
Monitoring Well Log HL-MW-7S



STRATAPROBE 264472MW.GPJ HC_CORP.GDT 6/24/03

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.

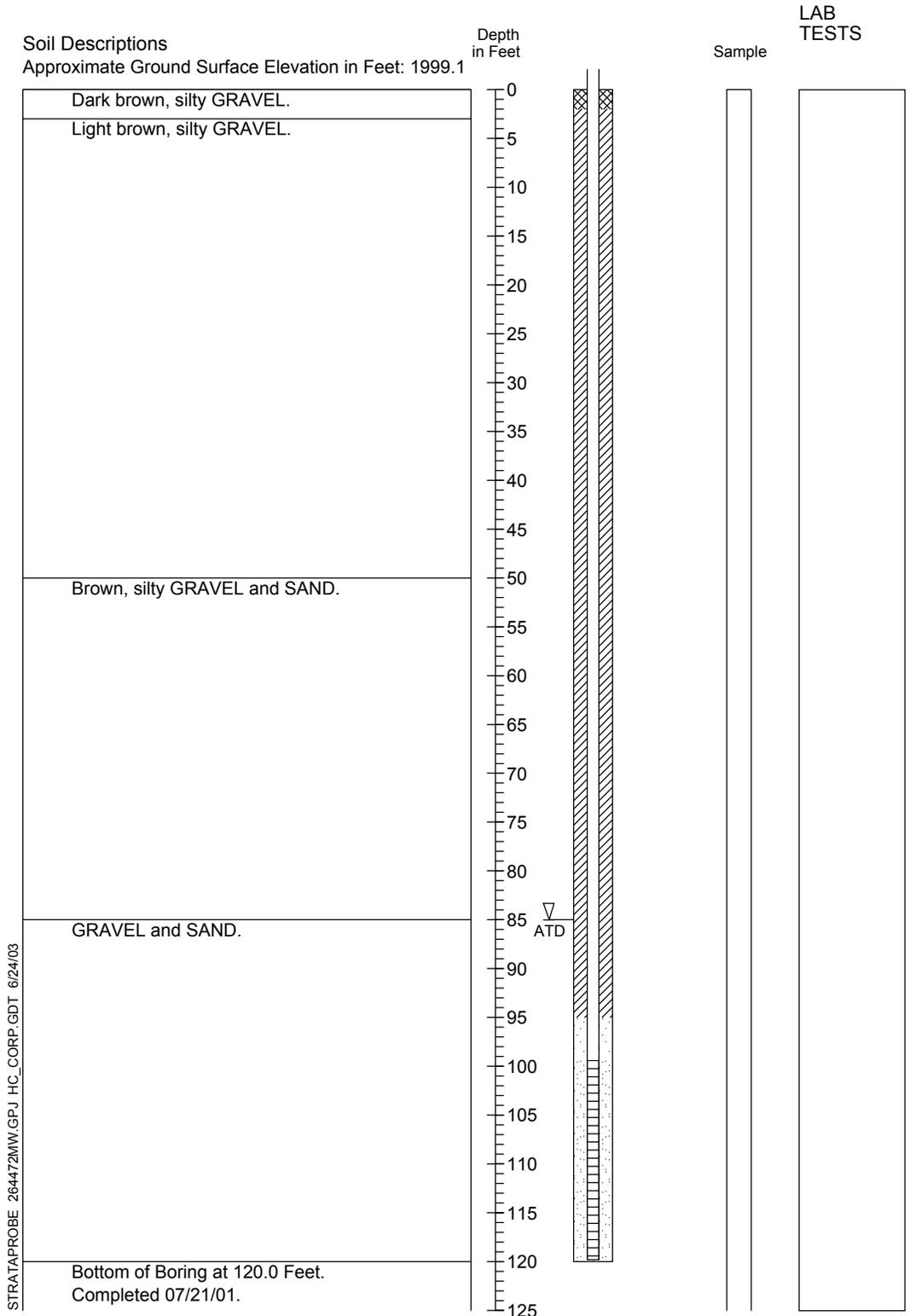
Monitoring Well Log HL-MW-8D



STRATAPROBE 264472MW.GPJ HC_CORP.GDT 6/24/03

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.

Monitoring Well Log HL-MW-9D



Top of Casing in Feet: 2001.0
Stick up in Feet: 1.9

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.



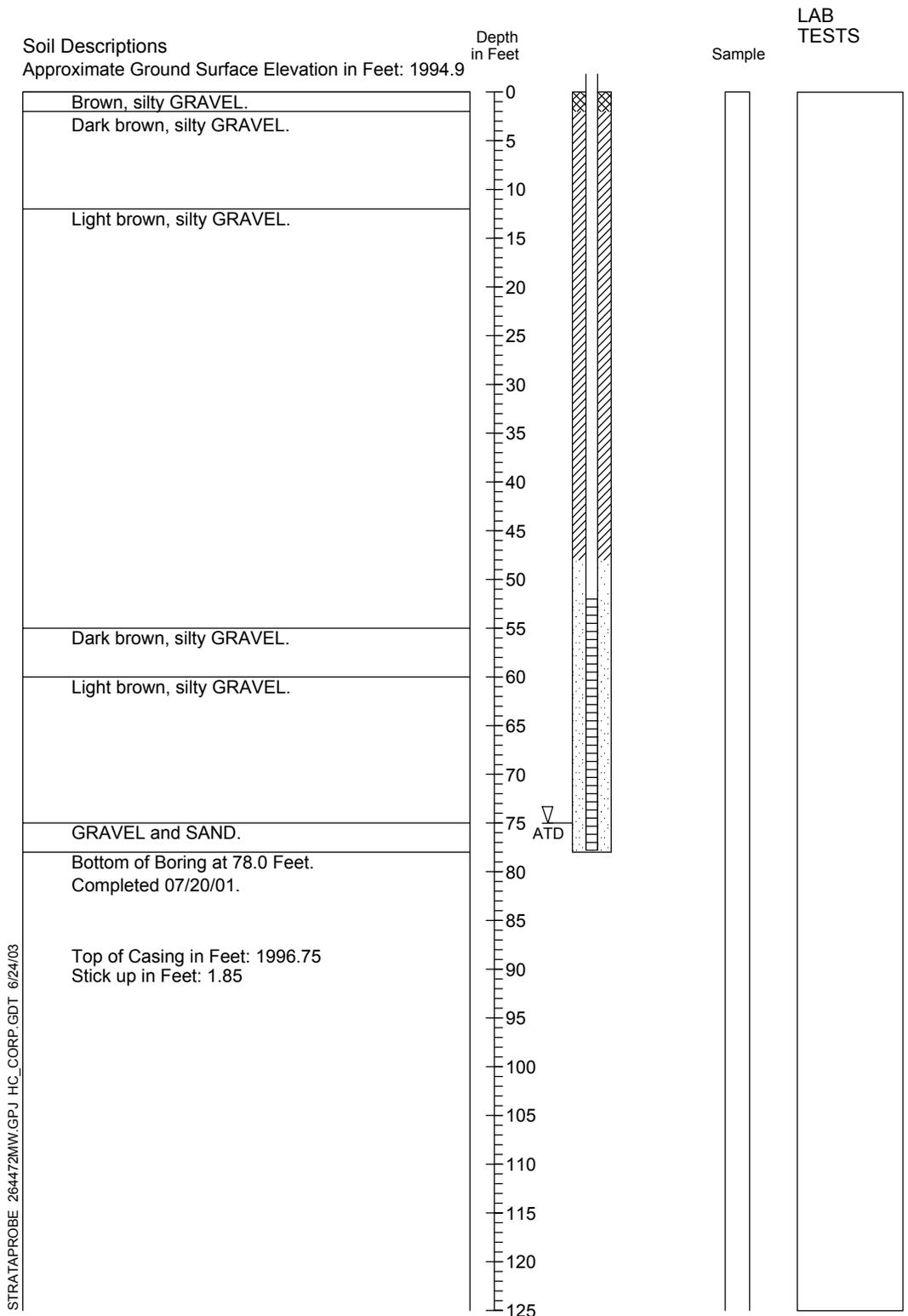
HARTCROWSER

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Figure A-13

Monitoring Well Log HL-MW-10S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.



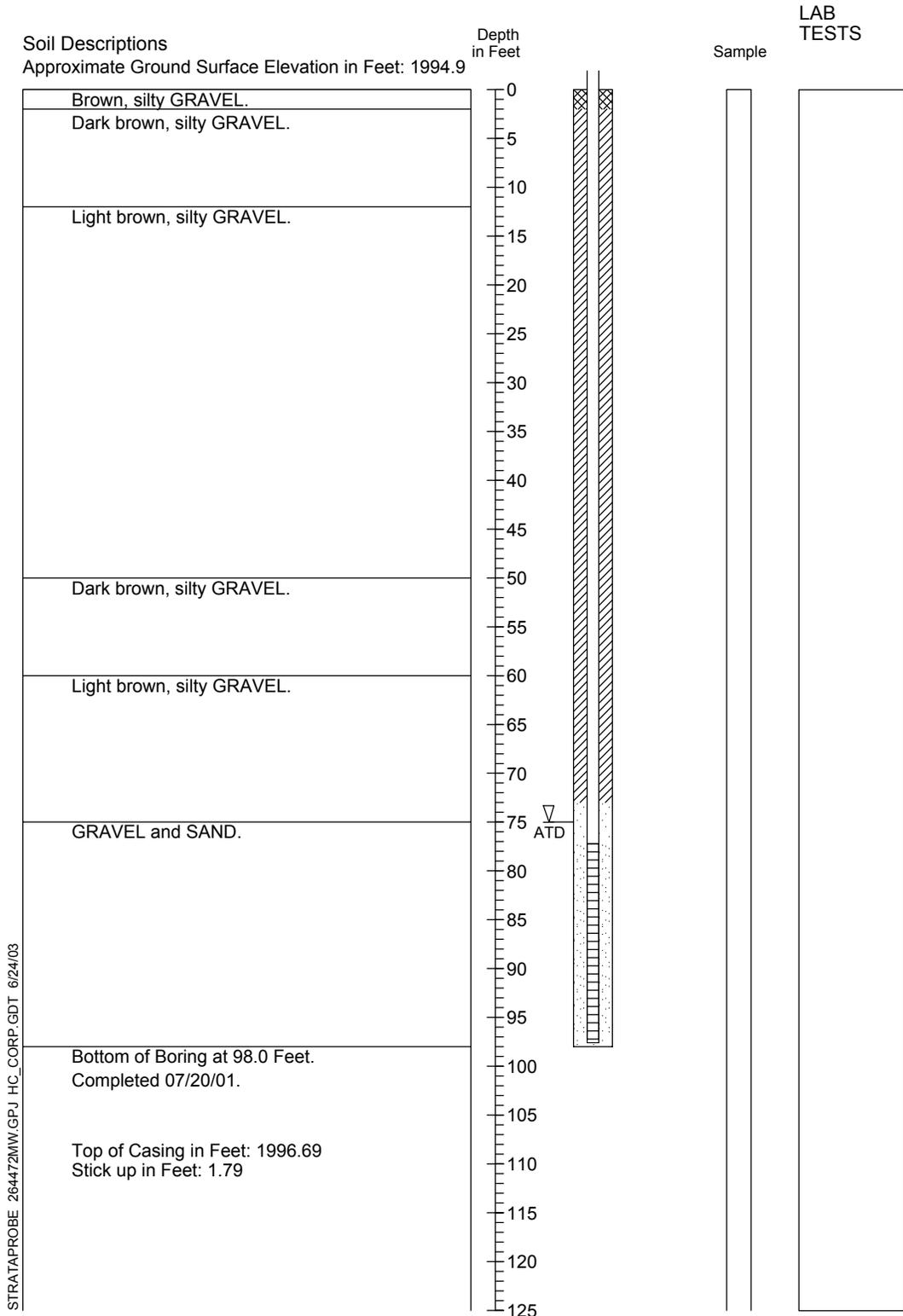
HARTCROWSER

2644-72

07/01

Figure A-14

Monitoring Well Log HL-MW-11D



STRATAPROBE 264472MW.GPJ HC_CORP.GDT 6/24/03

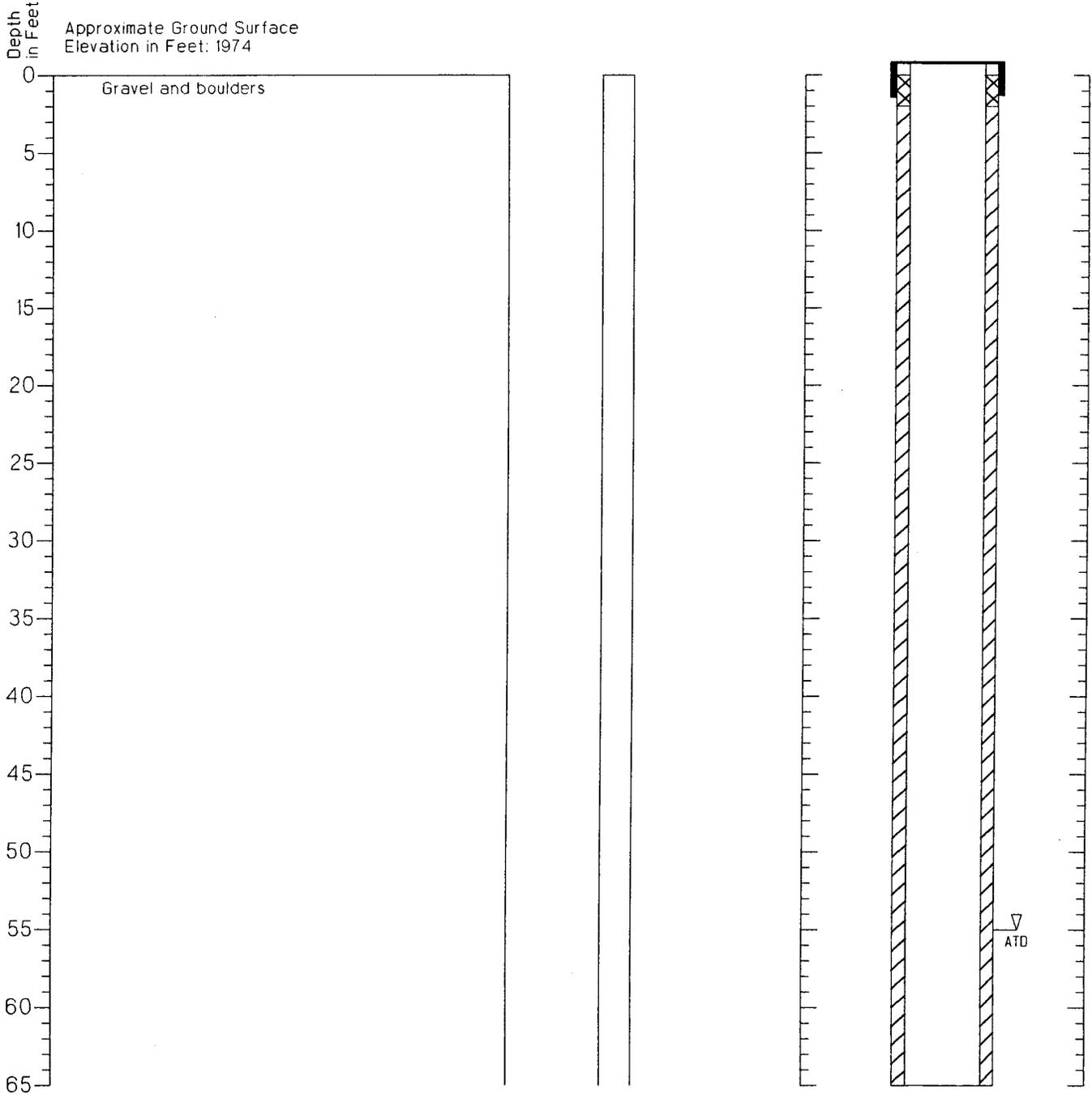
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.

Boring Log and Construction Data for Monitoring Well MW-1

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 0.88
Top of Carbon Steel in Feet 1974.88



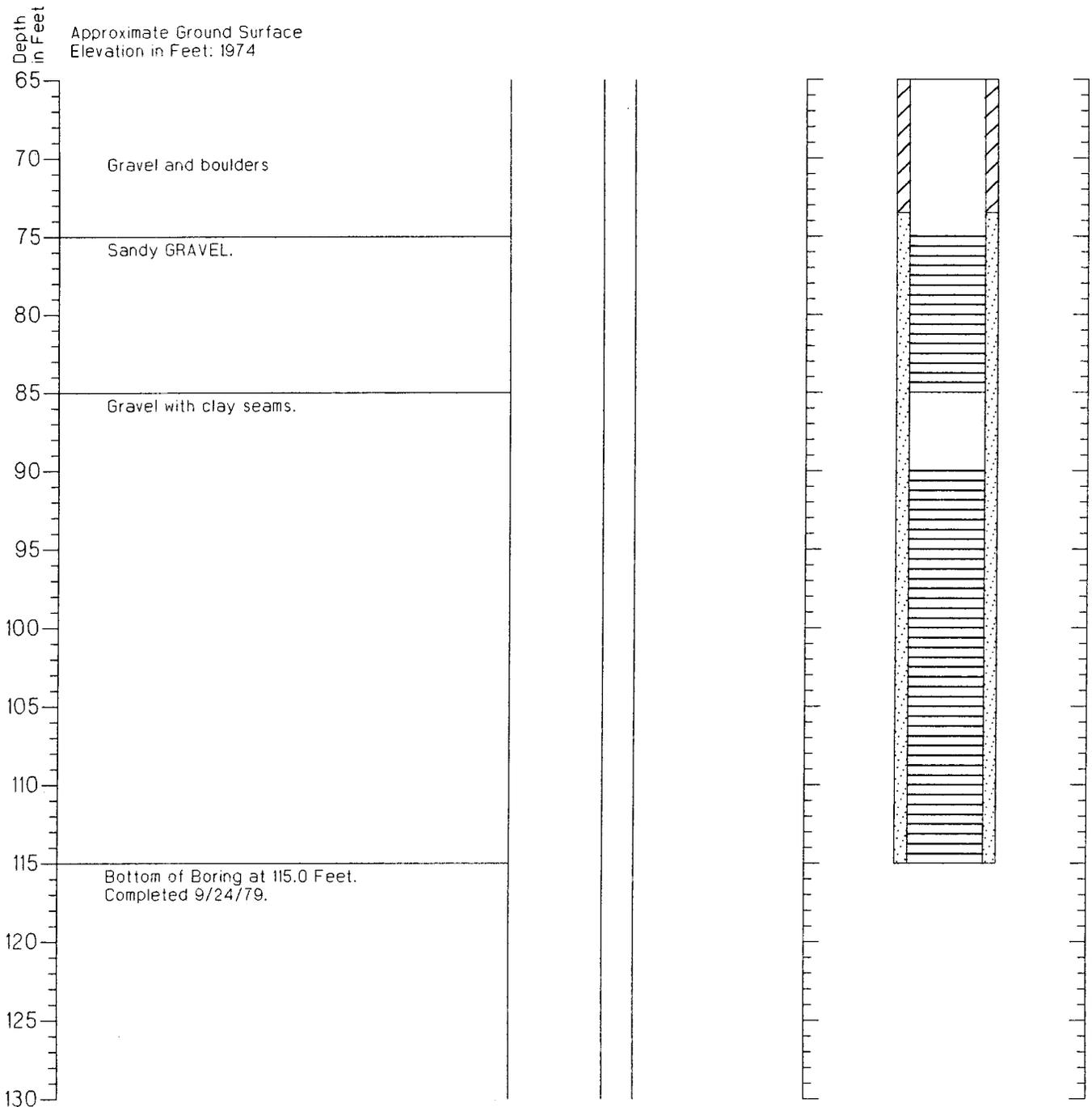
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-1

Geologic Log

Monitoring Well Design

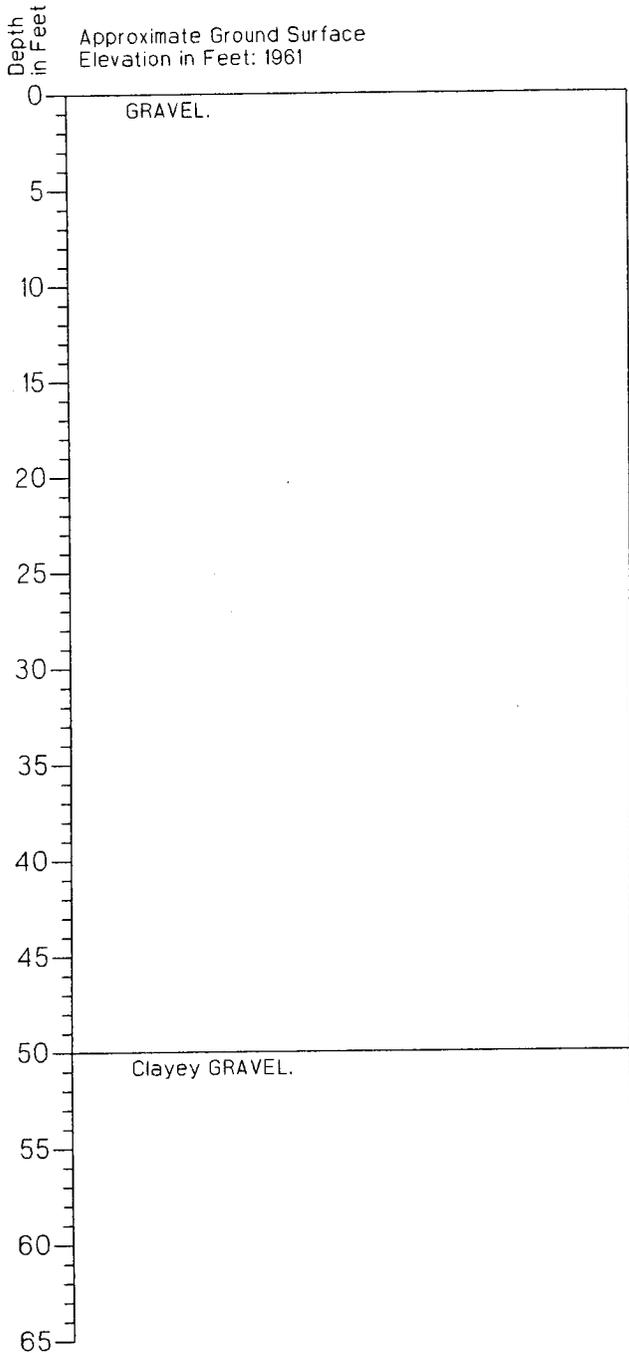
Casing Stickup in Feet: 0.88
 Top of Carbon Steel in Feet 1974.88



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

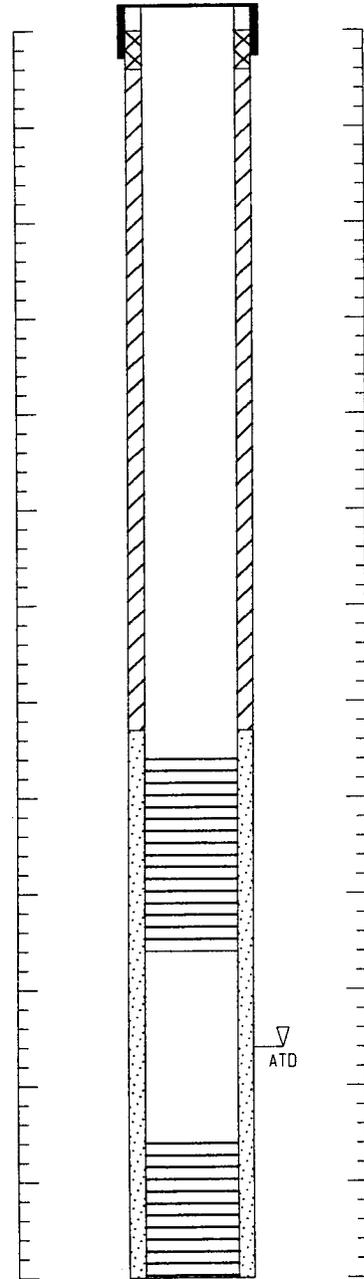
Boring Log and Construction Data for Monitoring Well MW-2

Geologic Log



Monitoring Well Design

Casing Stickup in Feet: 1.37
Top of Carbon Steel in Feet 1962.37



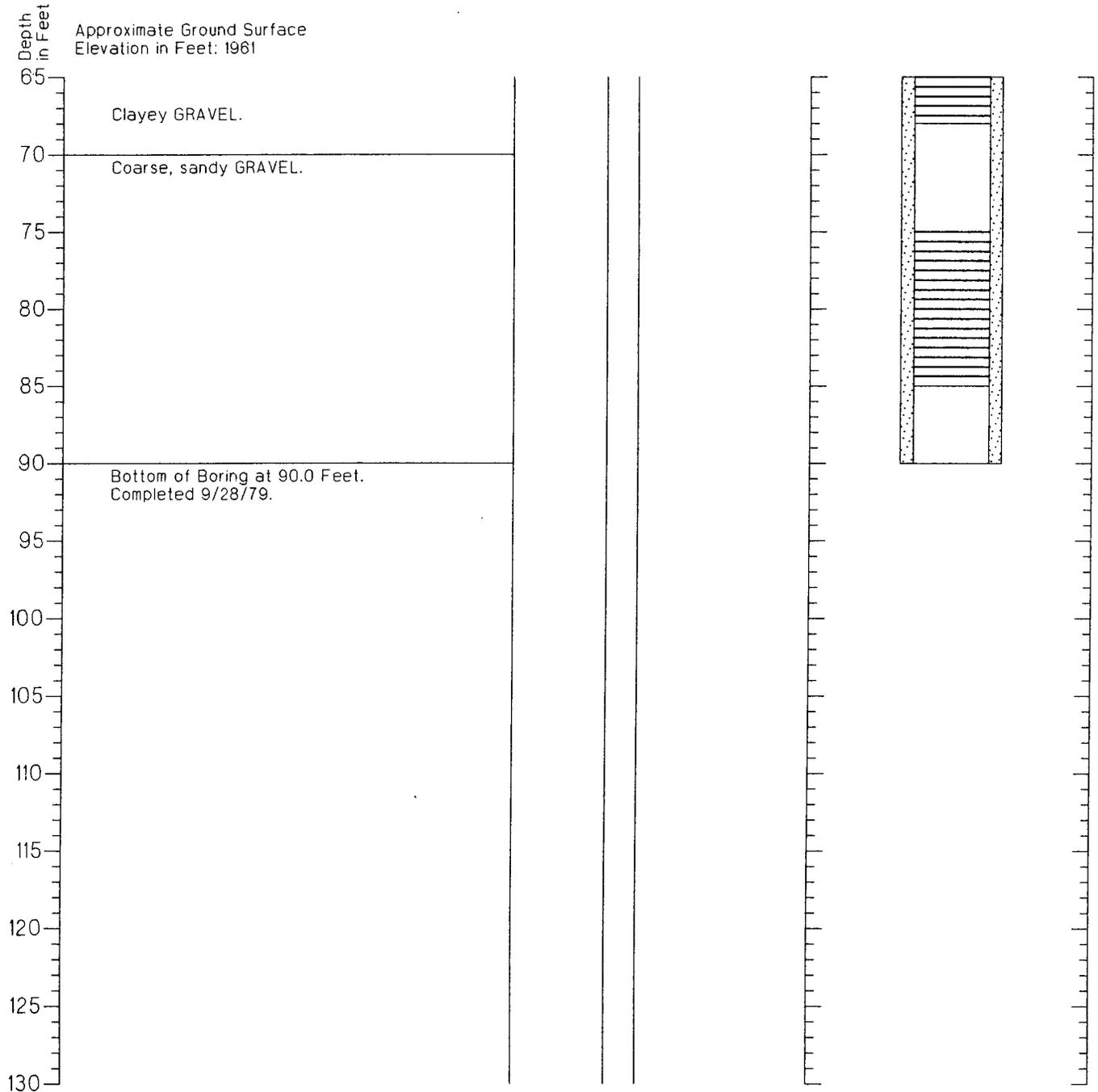
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-2

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 1.37
Top of Carbon Steel in Feet 1962.37

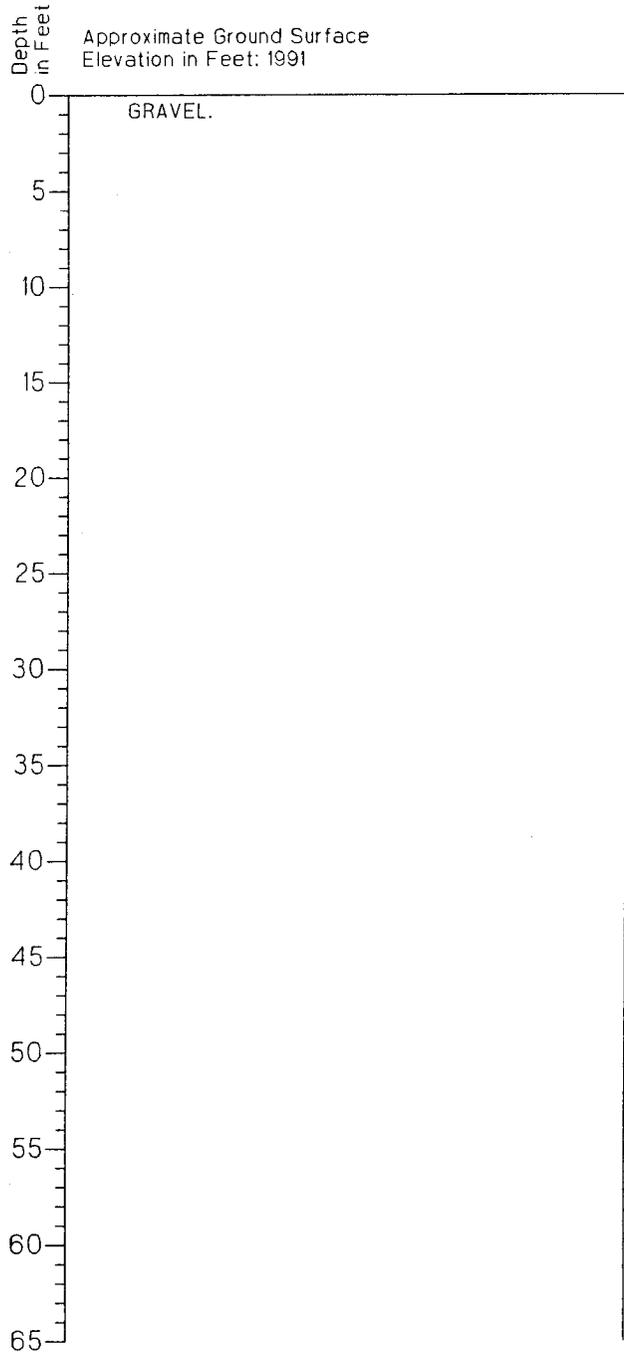


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



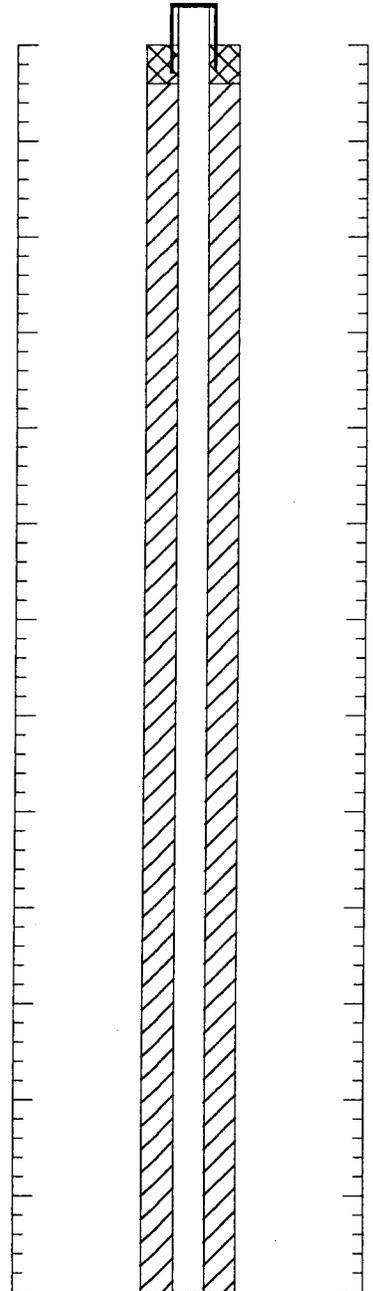
Boring Log and Construction Data for Monitoring Well MW-3

Geologic Log



Monitoring Well Design

Casing Stickup in Feet: 2.16
Top of Carbon Steel in Feet 1993.16



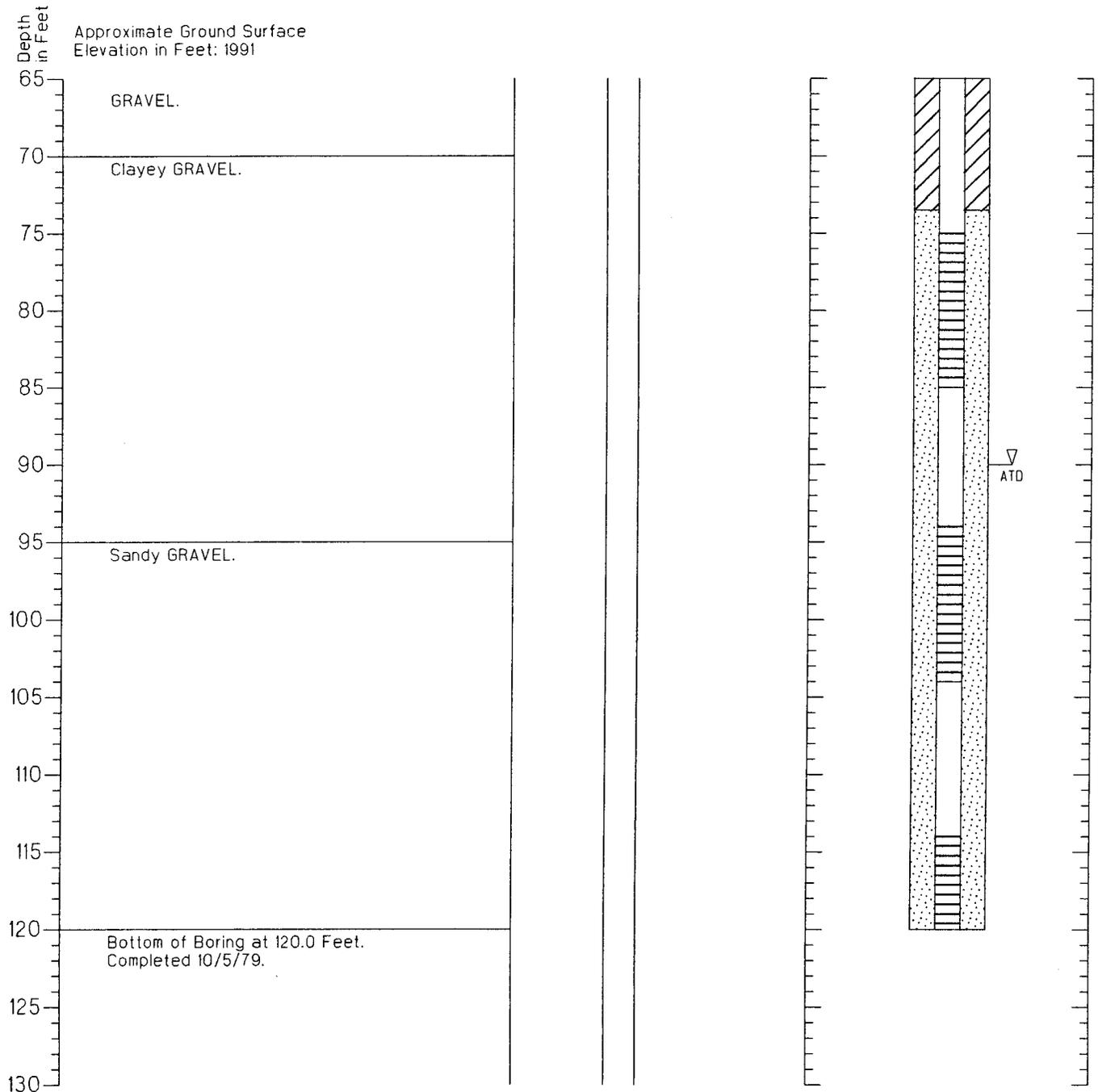
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-3

Geologic Log

Monitoring Well Design

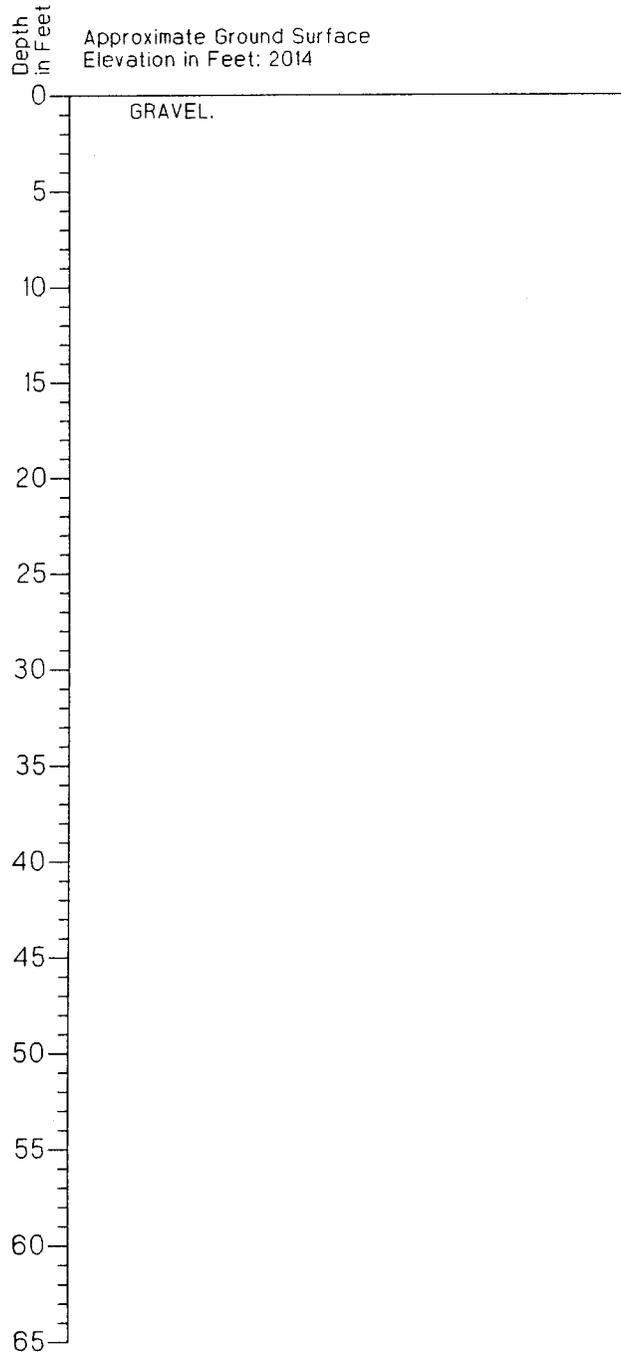
Casing Stickup in Feet: 2.16
 Top of Carbon Steel in Feet 1993.16



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

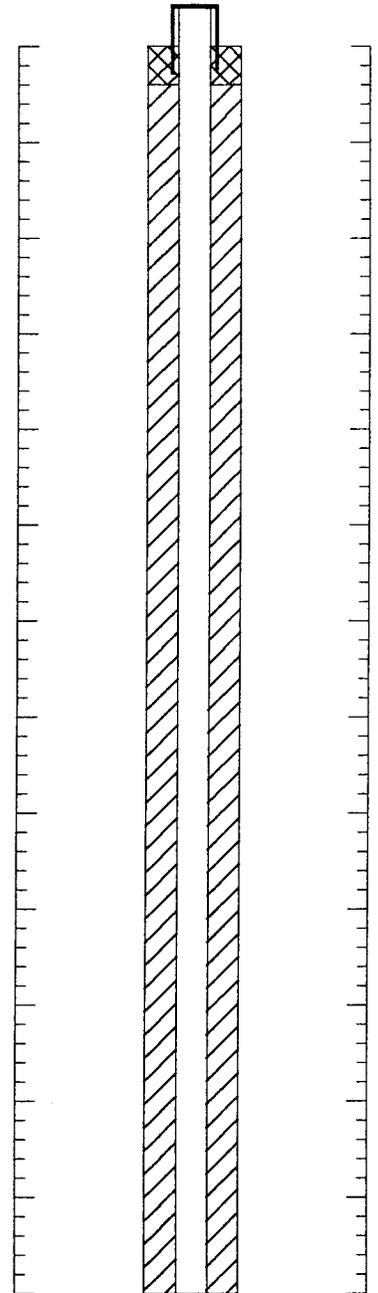
Boring Log and Construction Data for Monitoring Well MW-4

Geologic Log



Monitoring Well Design

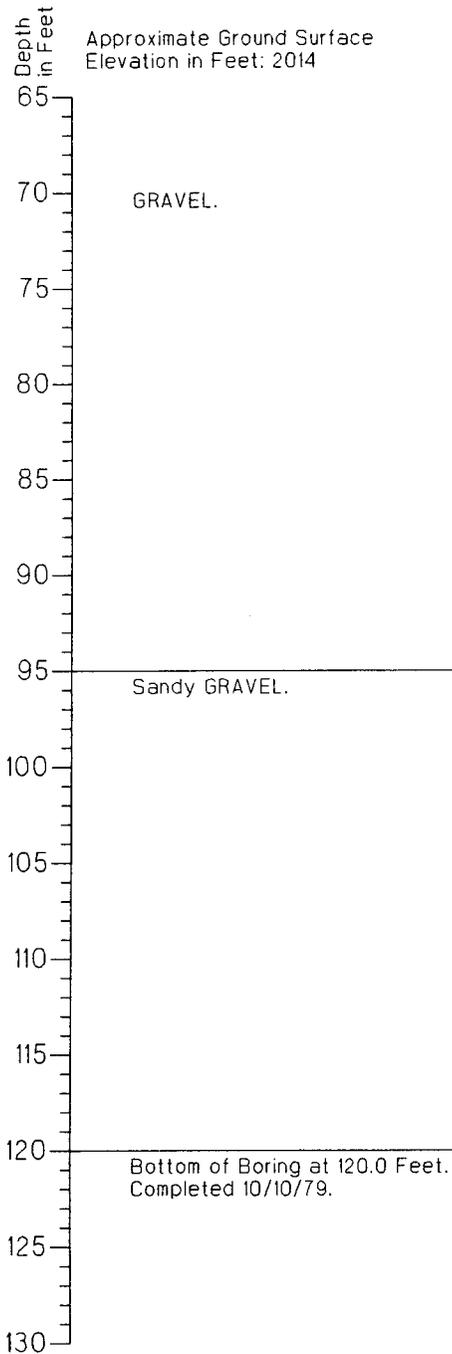
Casing Stickup in Feet: 1.92
Top of Carbon Steel in Feet 2015.92



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

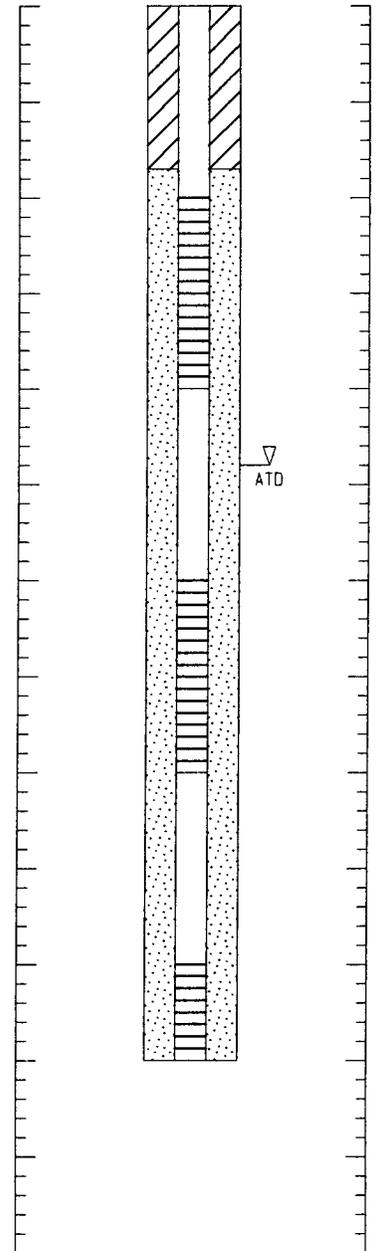
Boring Log and Construction Data for Monitoring Well MW-4

Geologic Log



Monitoring Well Design

Casing Stickup in Feet: 1.92
Top of Carbon Steel in Feet 2015.92



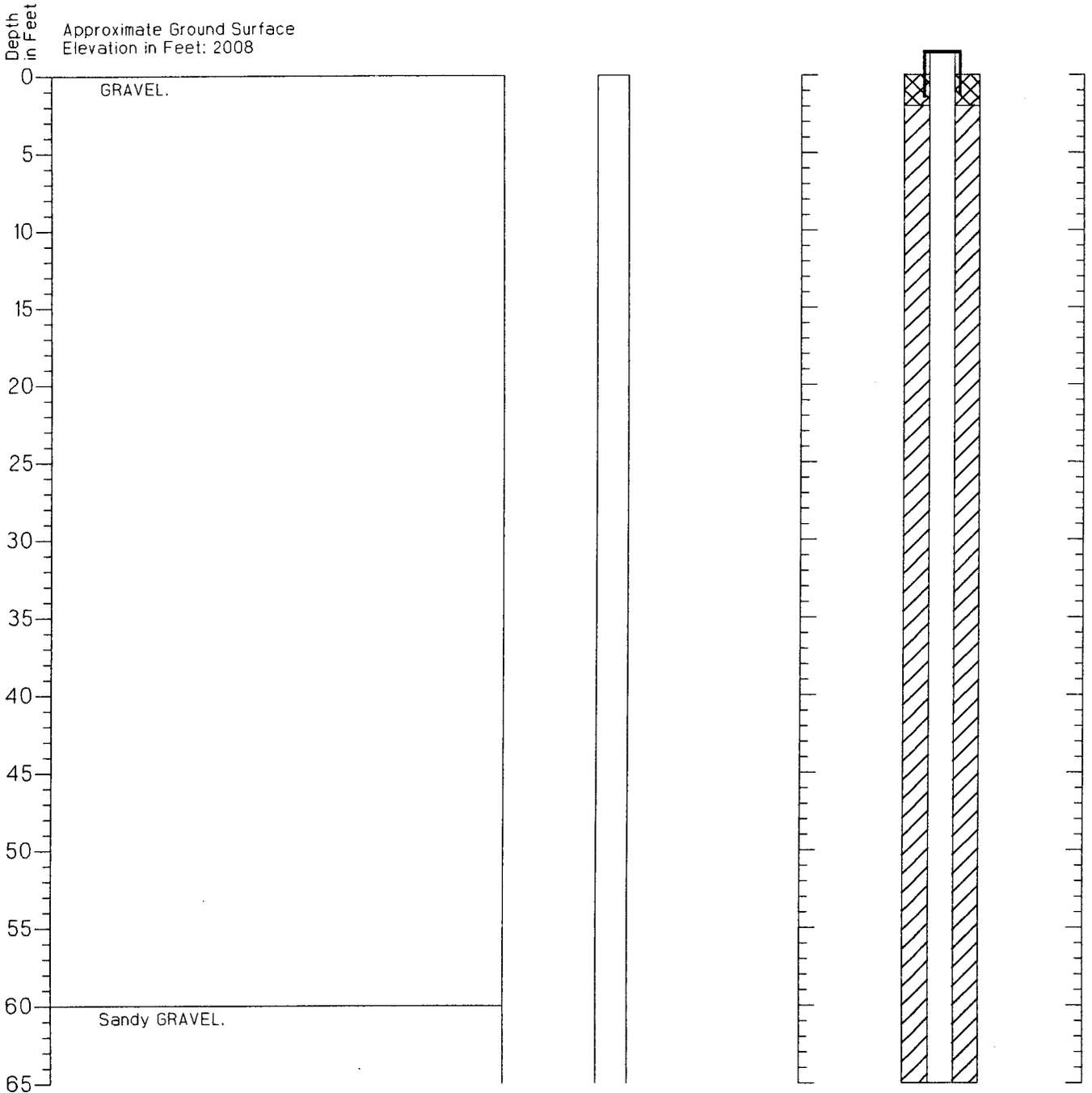
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-5

Geologic Log

Monitoring Well Design

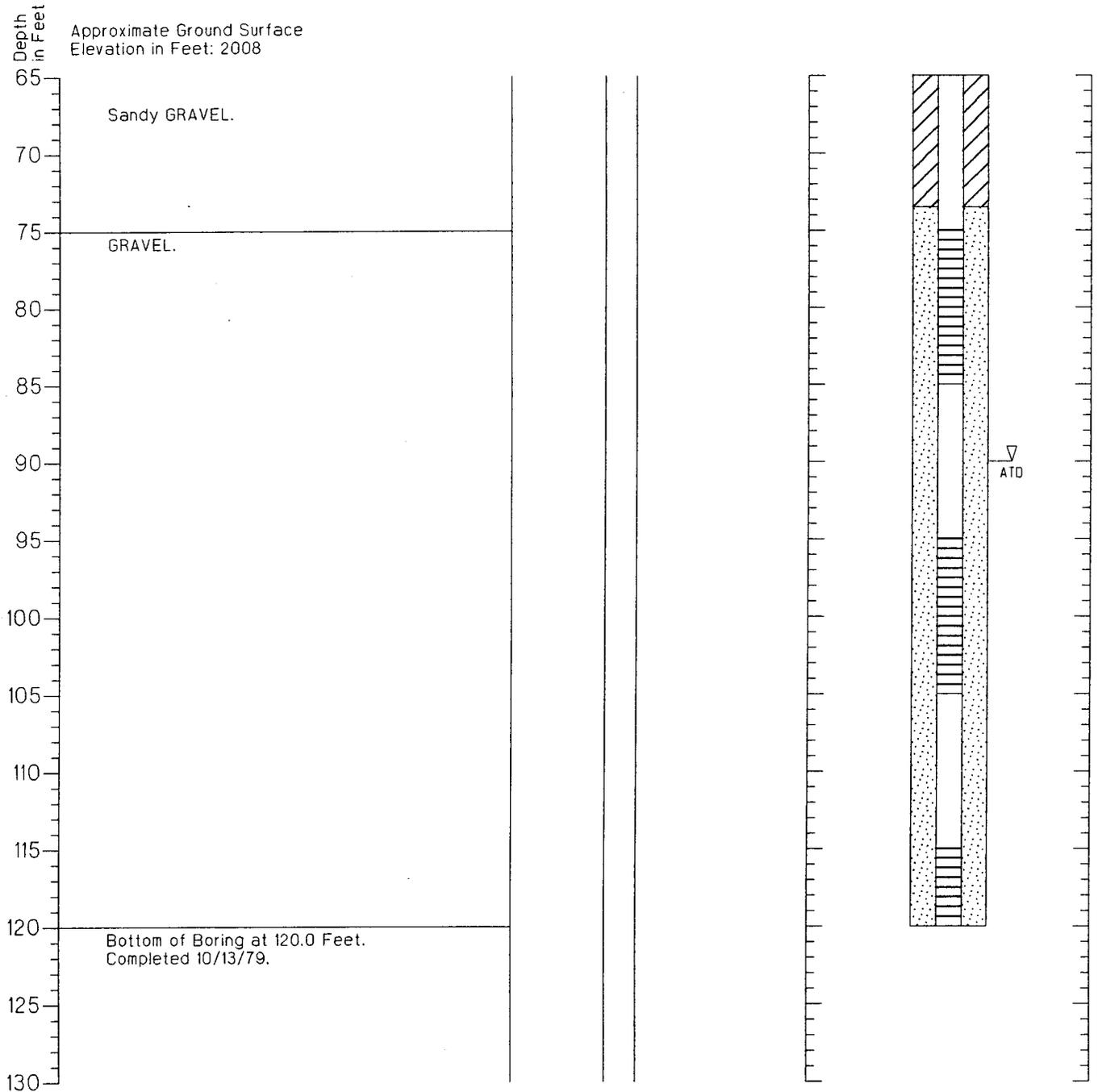
Casing Stickup in Feet: 1.55
 Top of Cargon Steel in Feet 2009.55



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-5

Geologic Log



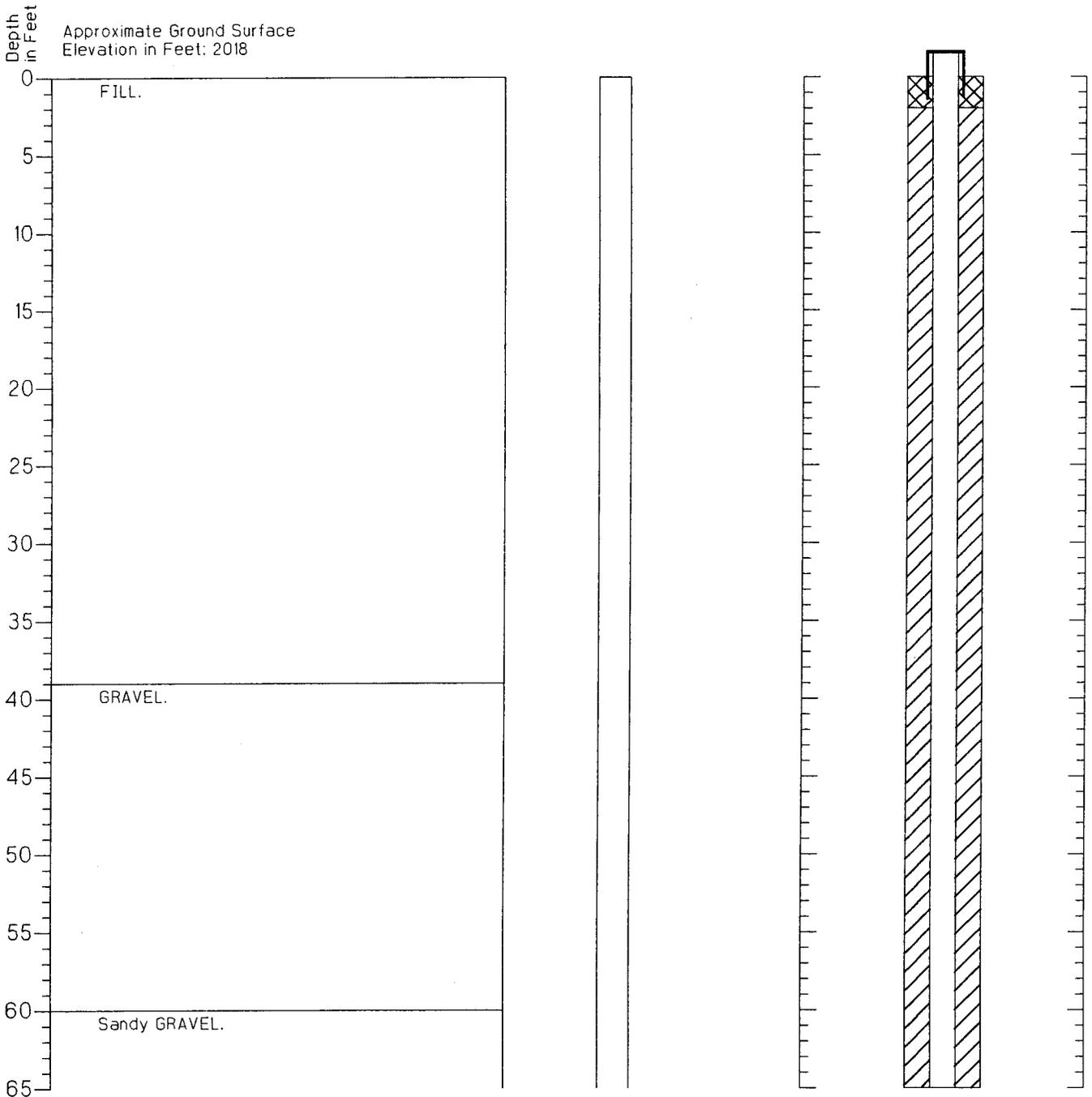
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-6

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 1.66
 Top of Carbon Steel in Feet 2019.66



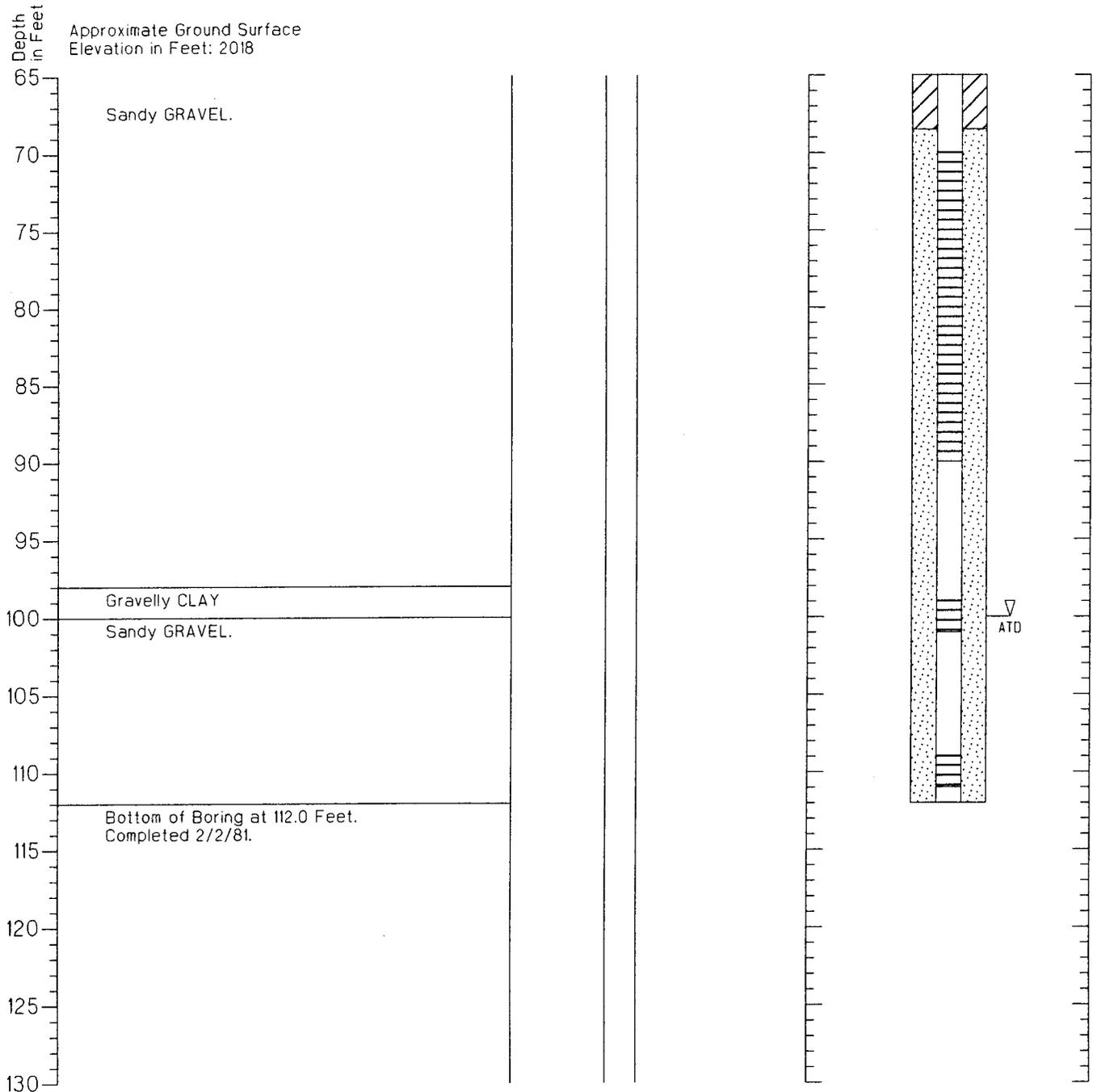
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-6

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 1.66
Top of Carbon Steel in Feet 2019.66



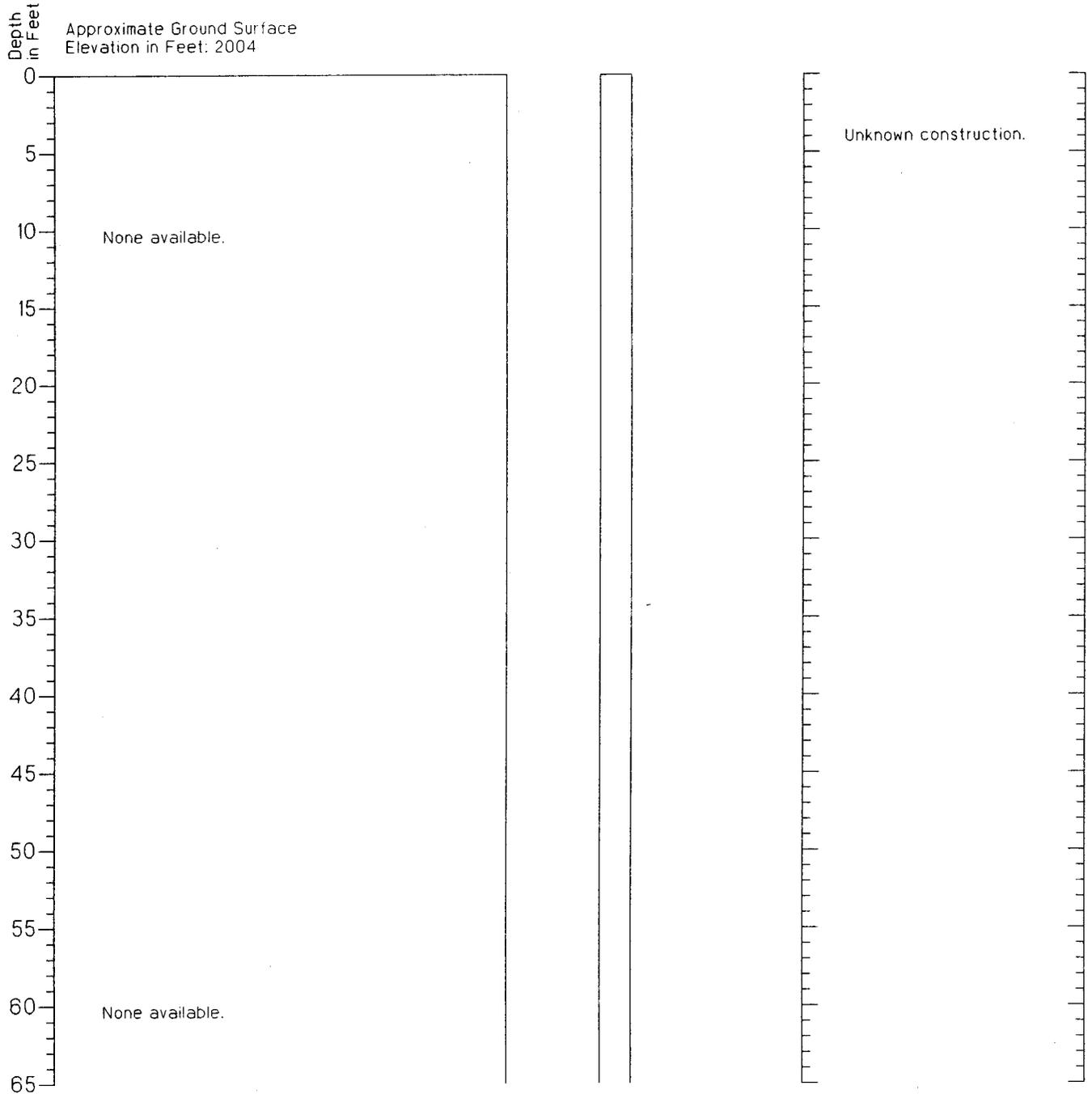
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-7

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 0.9
Top of PVC in Feet: 2004.9



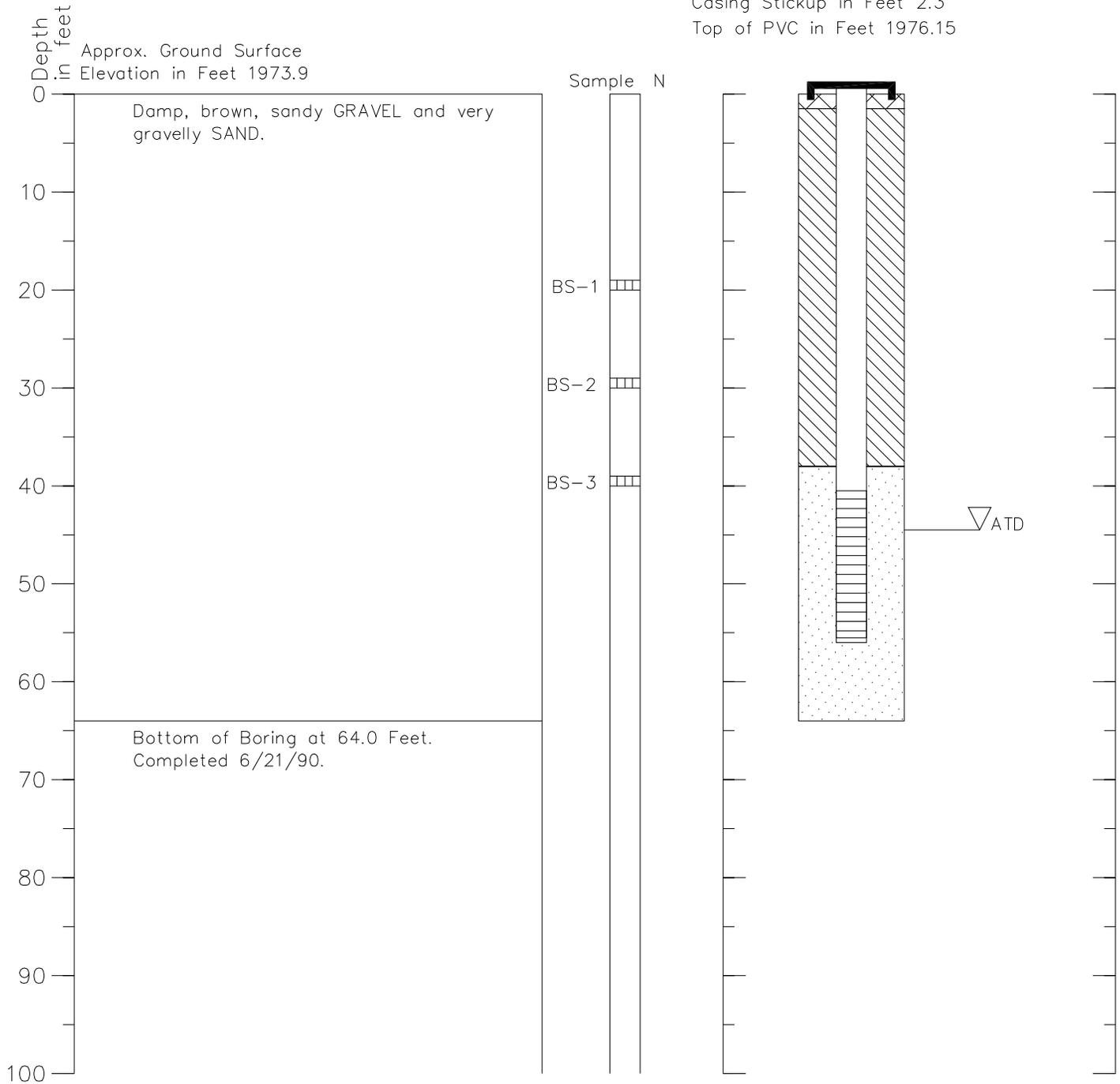
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-8

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.3
Top of PVC in Feet 1976.15



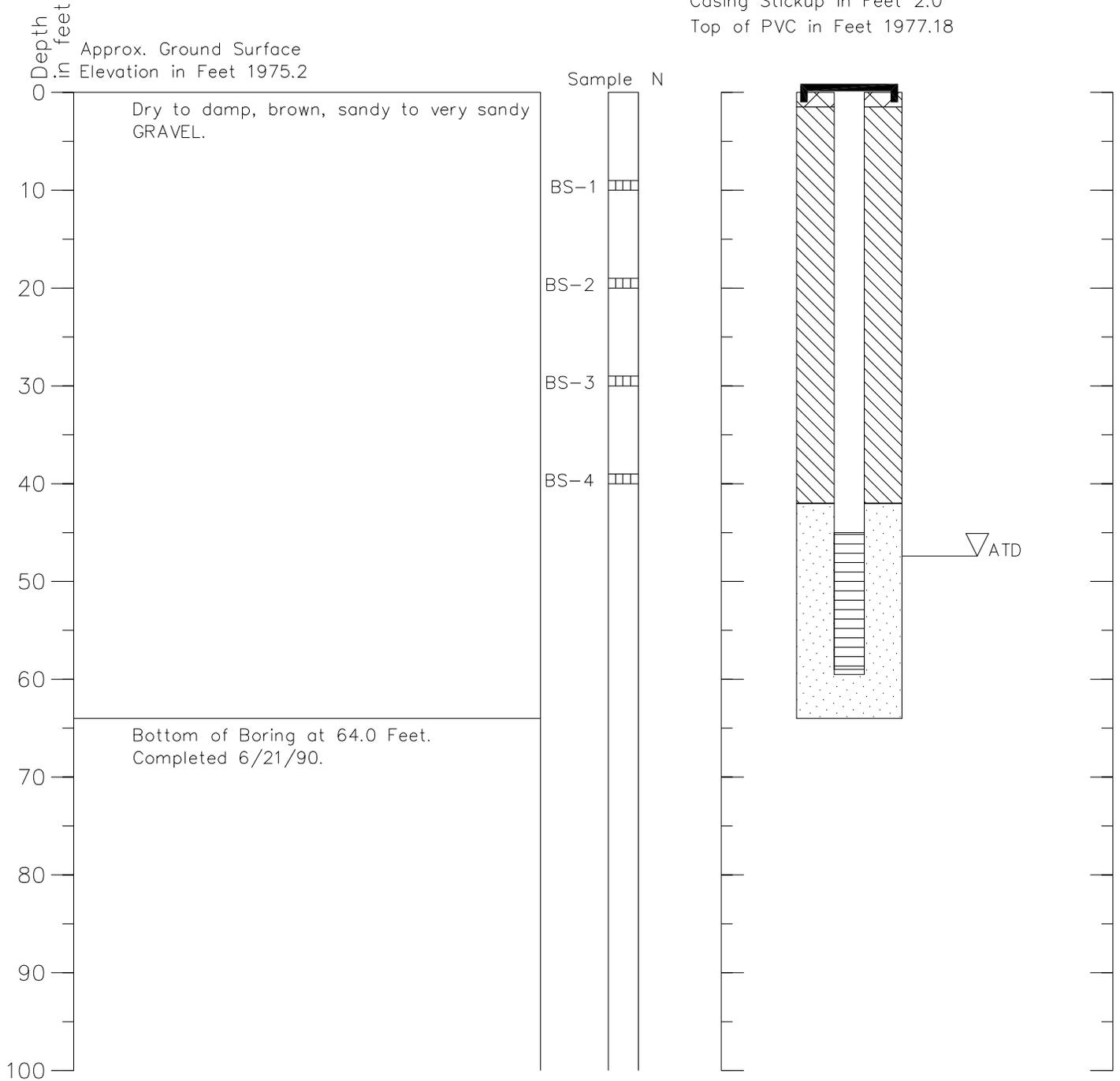
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-9

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.0
Top of PVC in Feet 1977.18



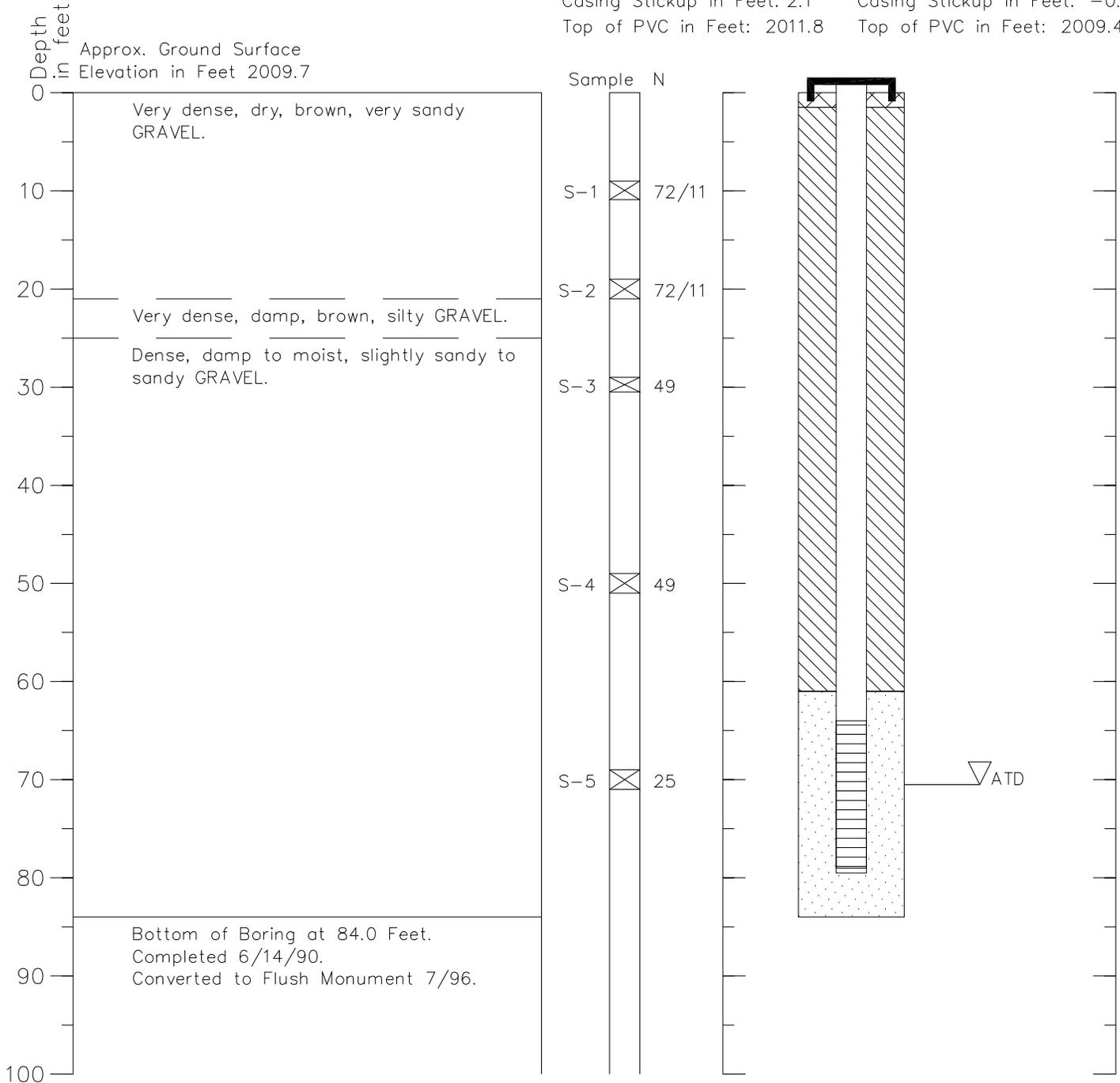
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring and Construction Data for Monitoring Well MW-10

Monitoring Well Design

Geologic Log

Before 7/96: Casing Stickup in Feet: 2.1
 Top of PVC in Feet: 2011.8
 After 7/96: Casing Stickup in Feet: -0.23
 Top of PVC in Feet: 2009.47



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

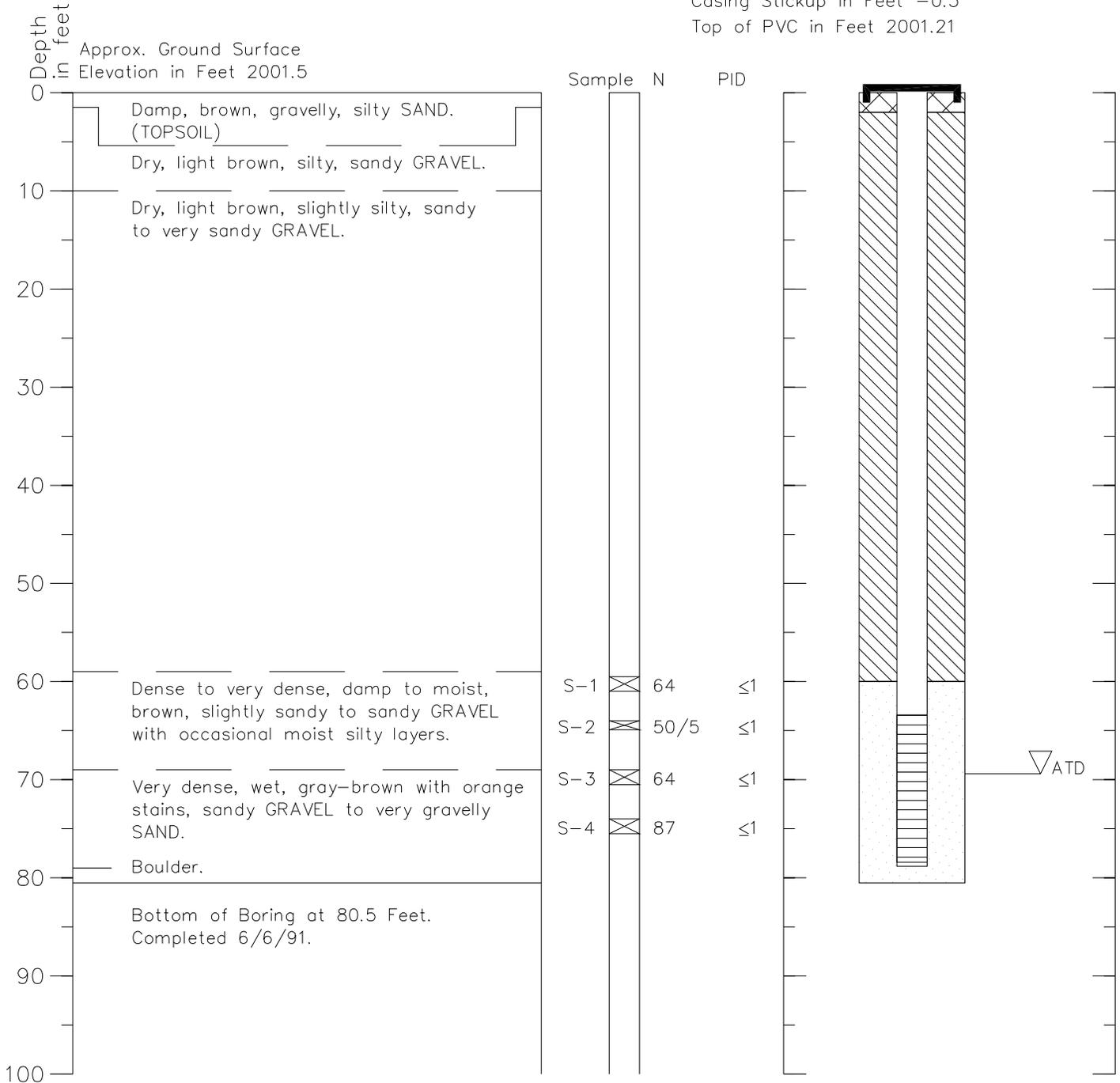
net 4/14/03 1=1
 264476 logs 08.dwg

Boring Log and Construction Data for Monitoring Well MW-11

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.3
 Top of PVC in Feet 2001.21

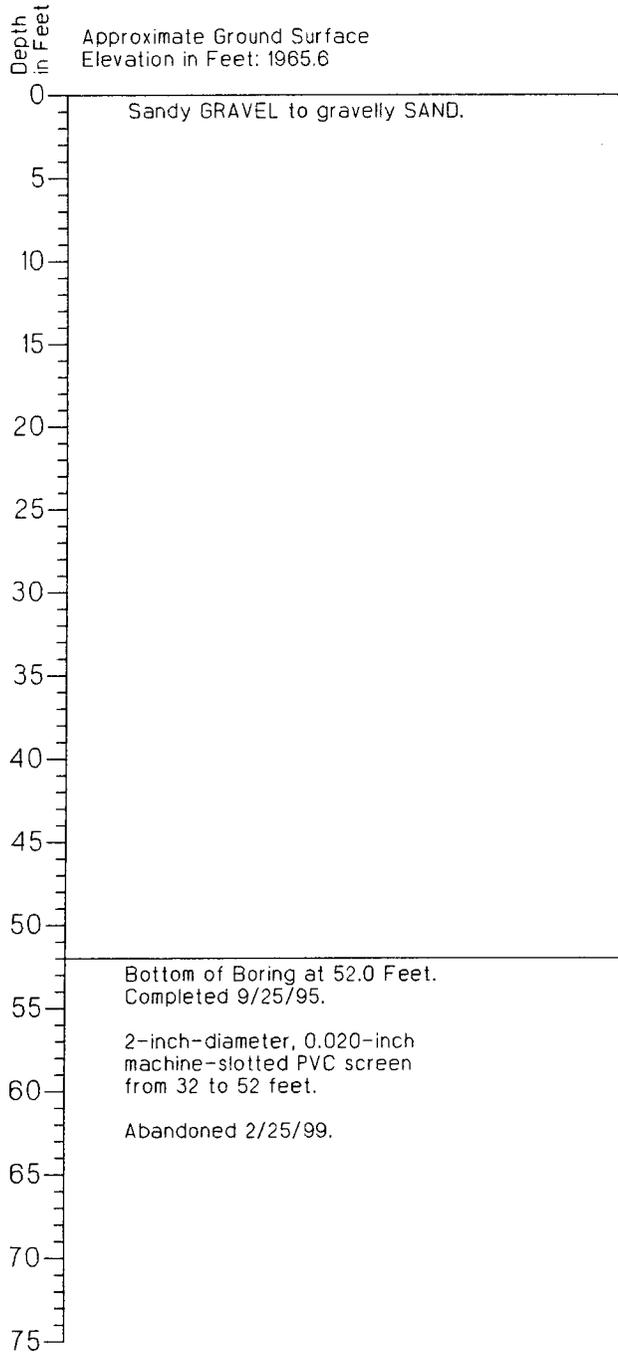


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

hel 4/14/03 1=1
 264476 logs 09.dwg

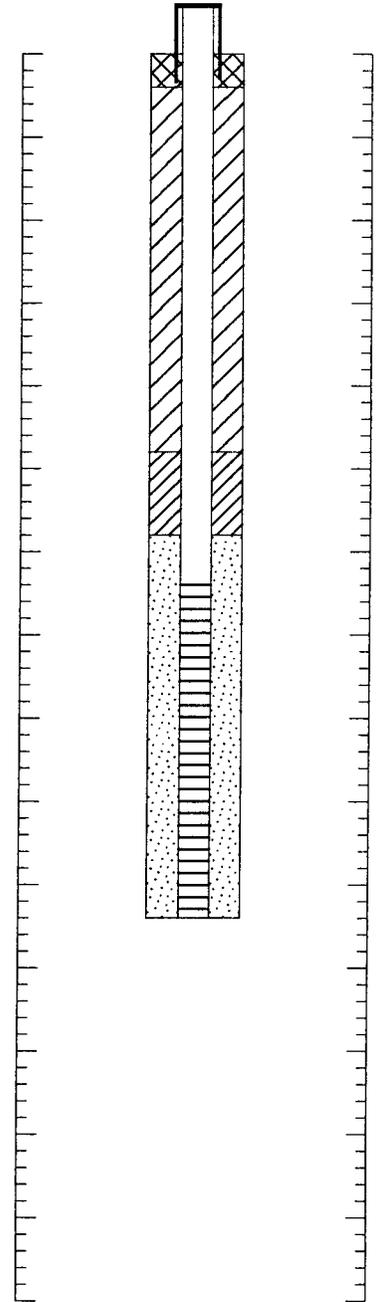
Boring Log and Construction Data for Monitoring Well MW-12

Geologic Log



Monitoring Well Design

Casing Stickup in Feet: 2.88
Top of PVC in Feet 1968.48



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



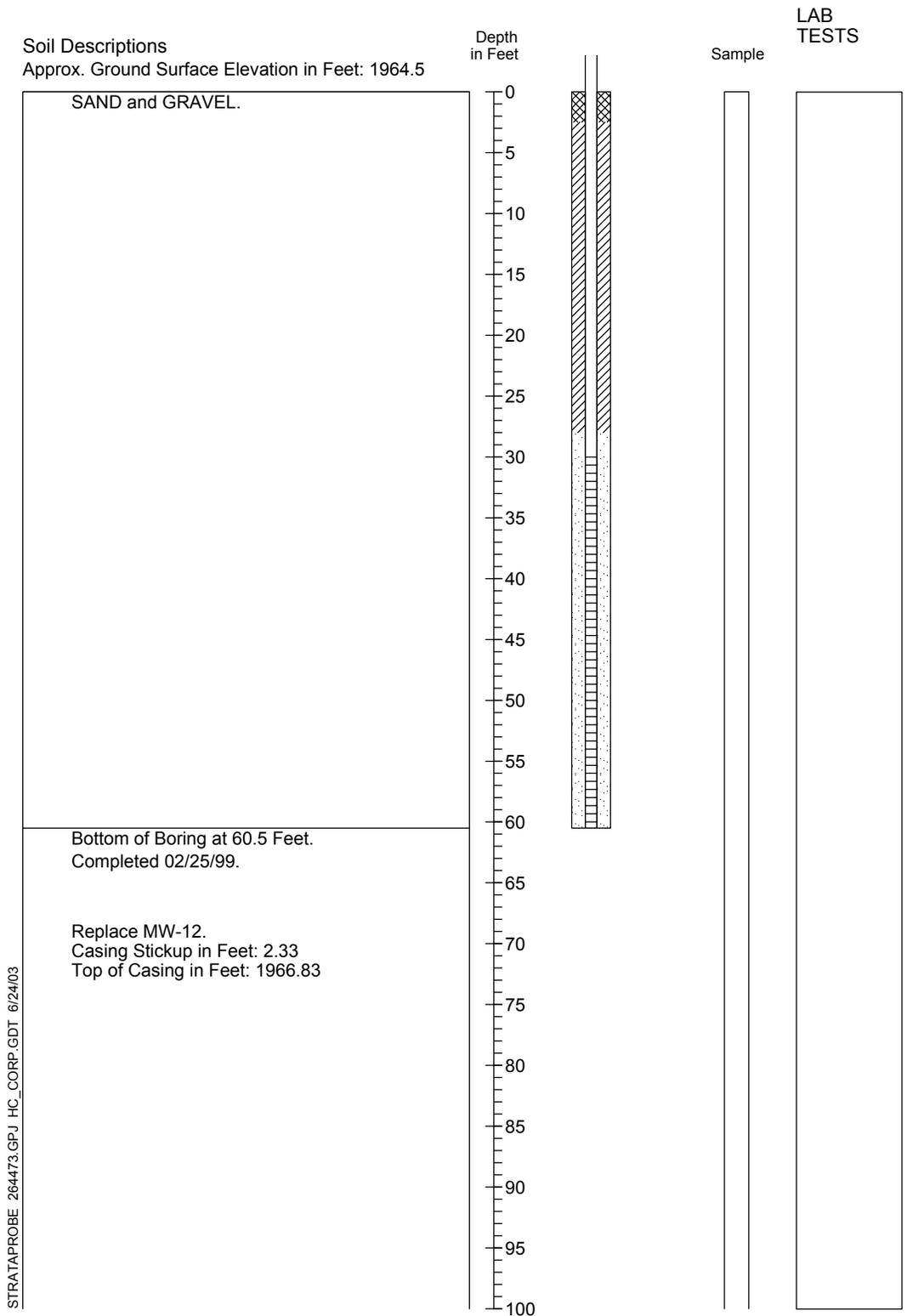
HARTCROWSER

J-2644-50

9/95

Figure A-27

Boring Log and Construction Data for Monitoring Well MW-12A



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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J-2644-73

02/99

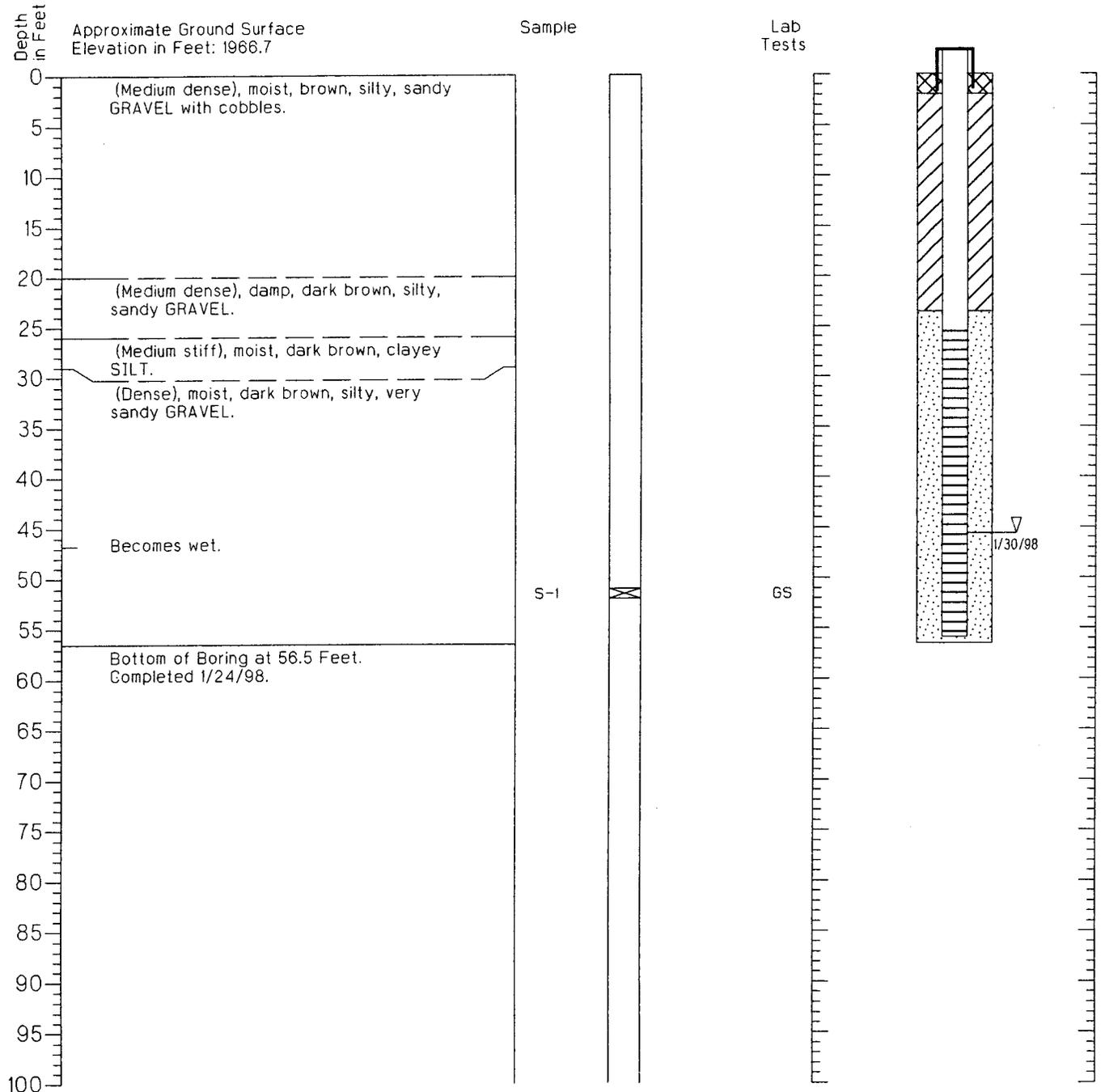
Figure A-28

Boring Log and Construction Data for Monitoring Well MW-13

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 2.8
Top of Casing in Feet 1969.5



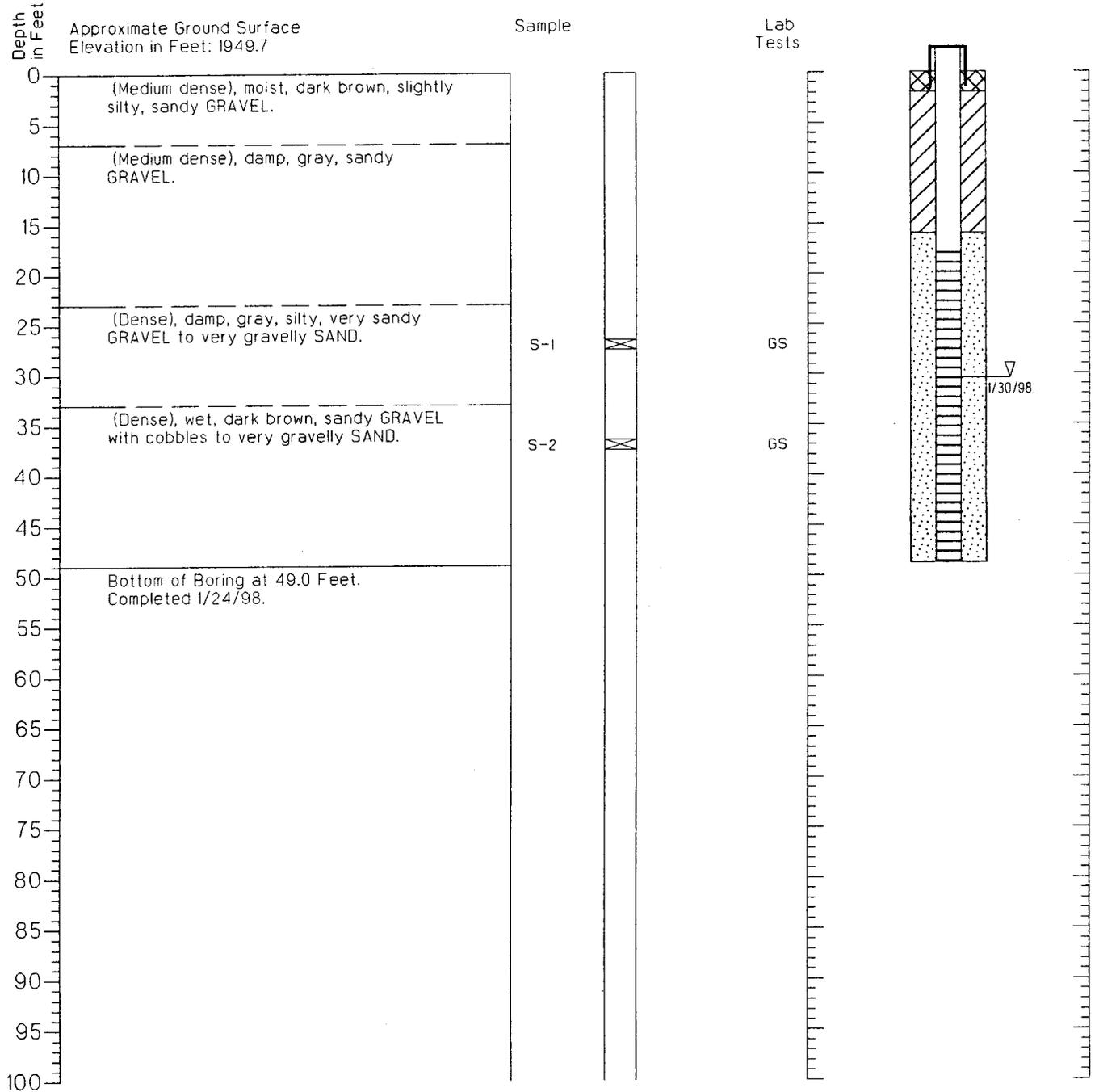
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-14

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 2.6
Top of Casing in Feet 1952.34



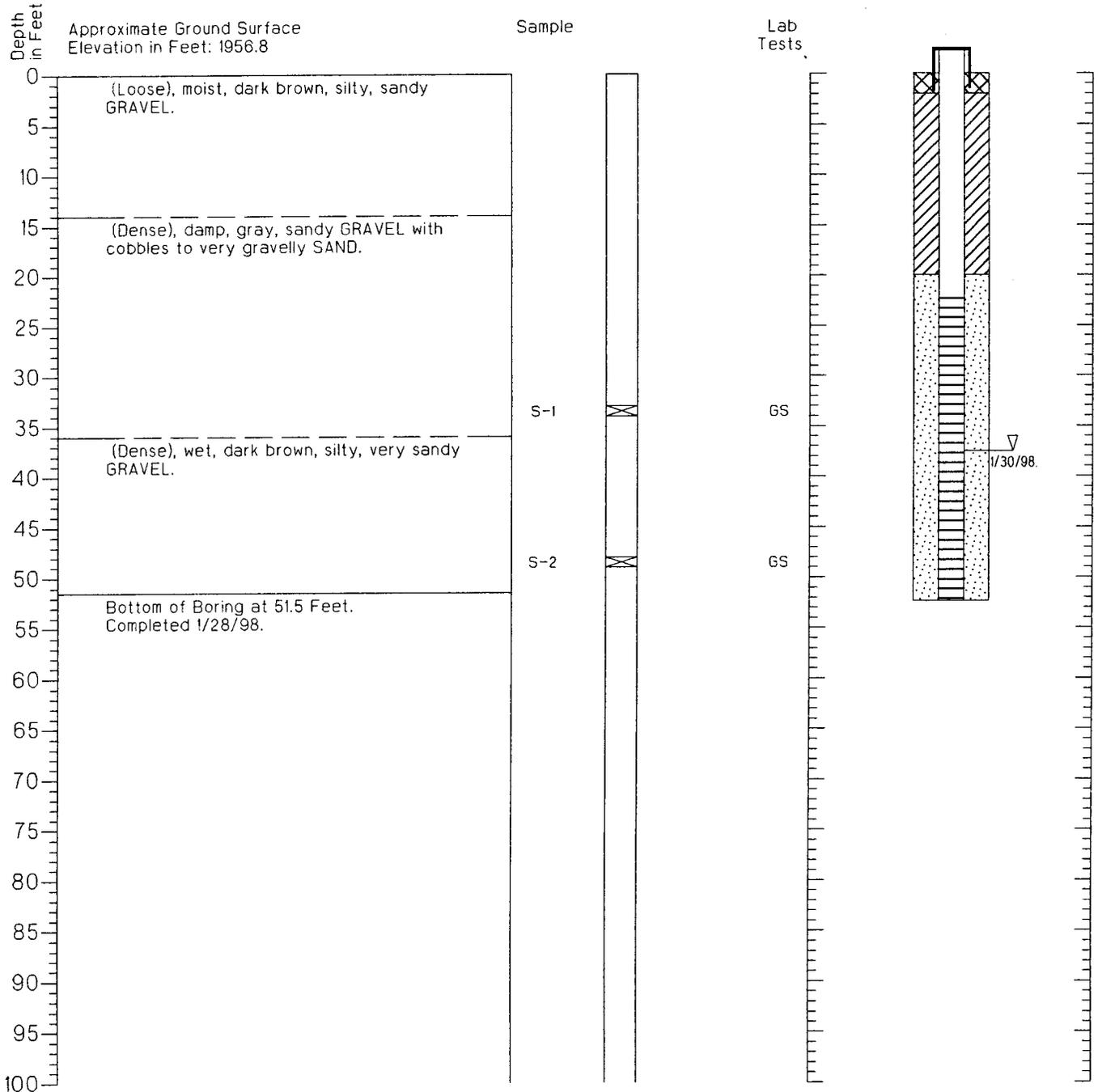
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-15

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 2.1
Top of Casing in Feet: 1958.95



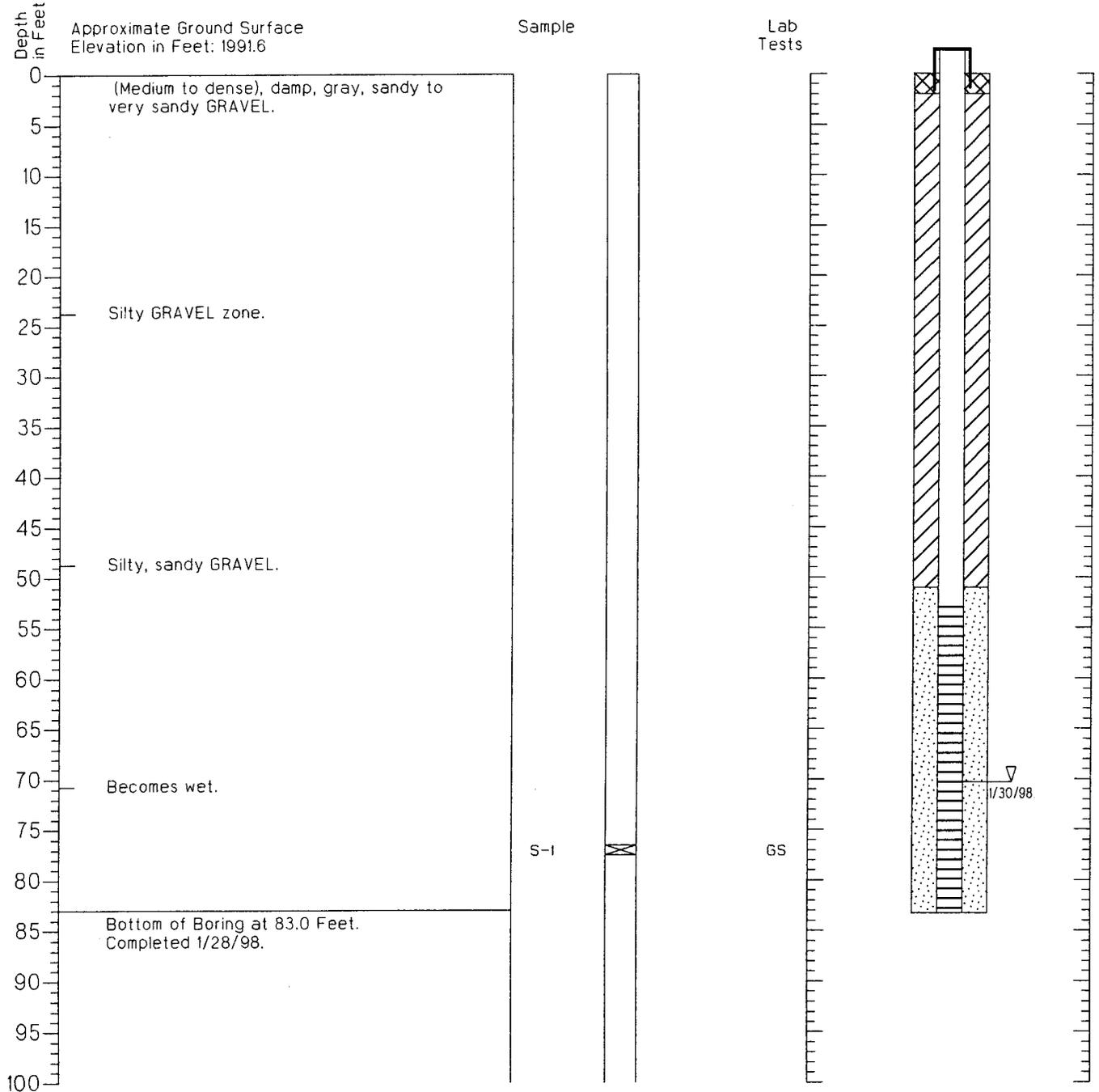
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well MW-16

Geologic Log

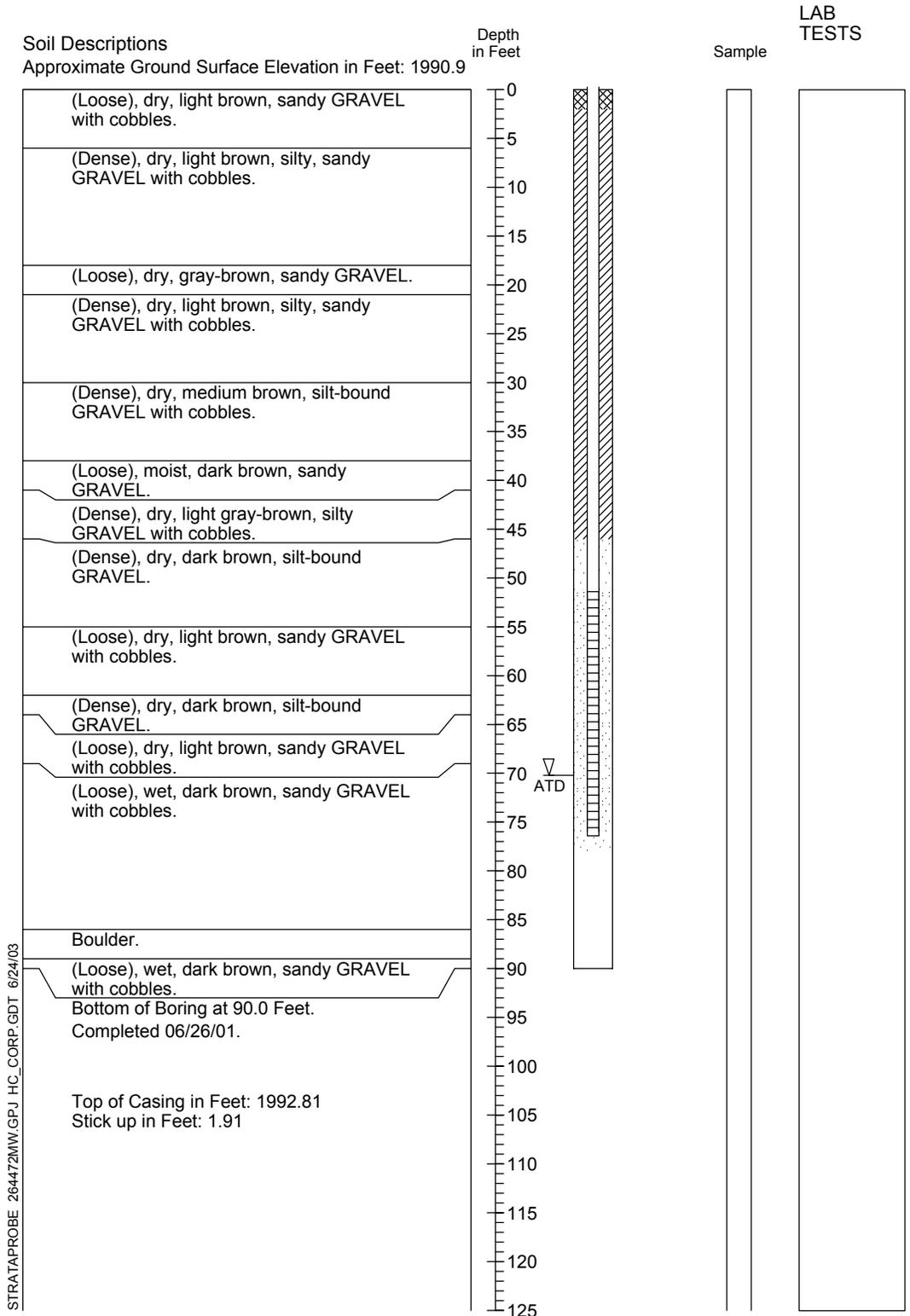
Monitoring Well Design

Casing Stickup in Feet: 2.4
Top of Casing in Feet 1994.03



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

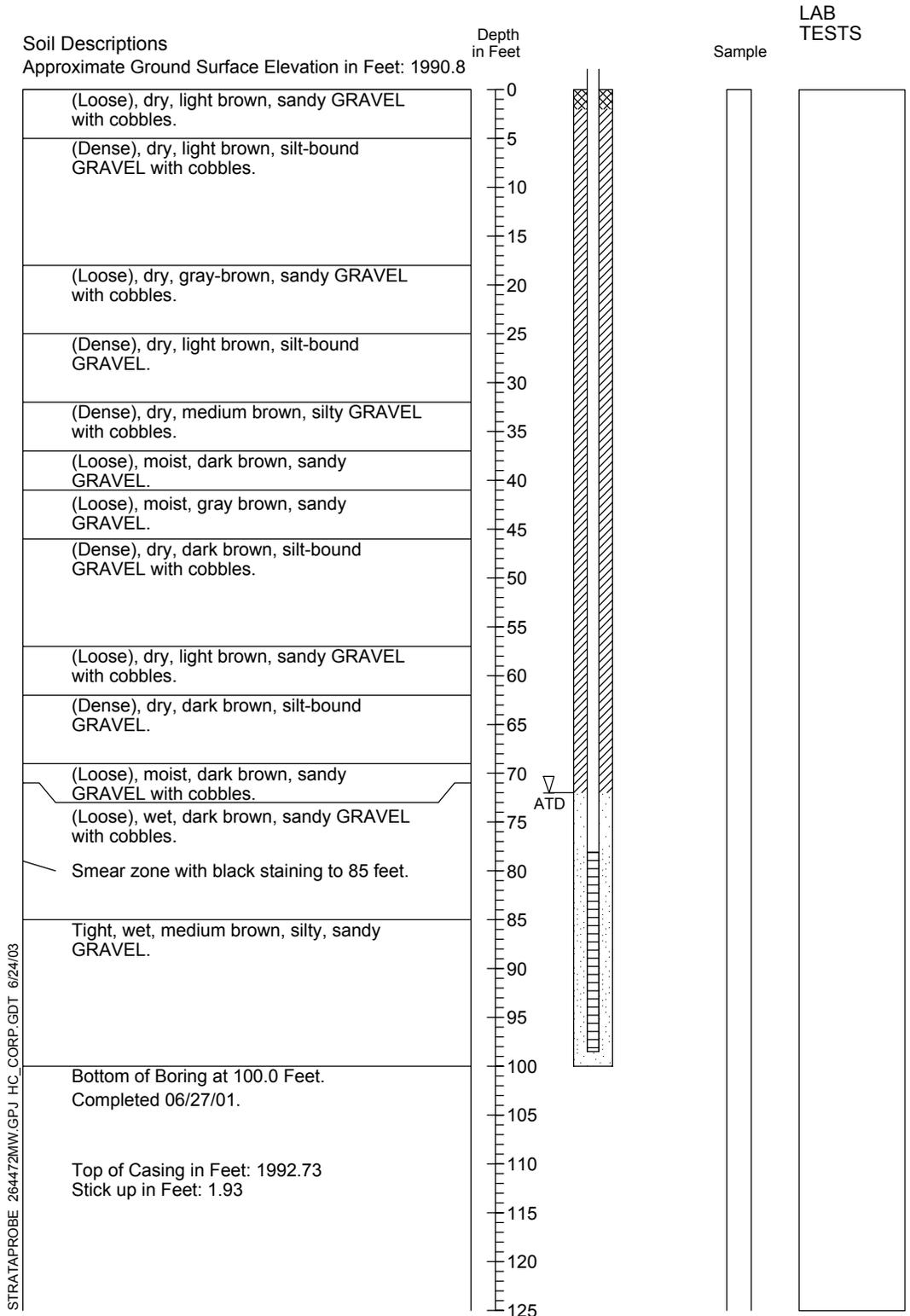
Monitoring Well Log MW-17S



STRATAPROBE 264472MW.GPJ HC_CORP.GDT 6/24/03

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.

Monitoring Well Log MW-18D



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.



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2644-72

06/01

Figure A-34

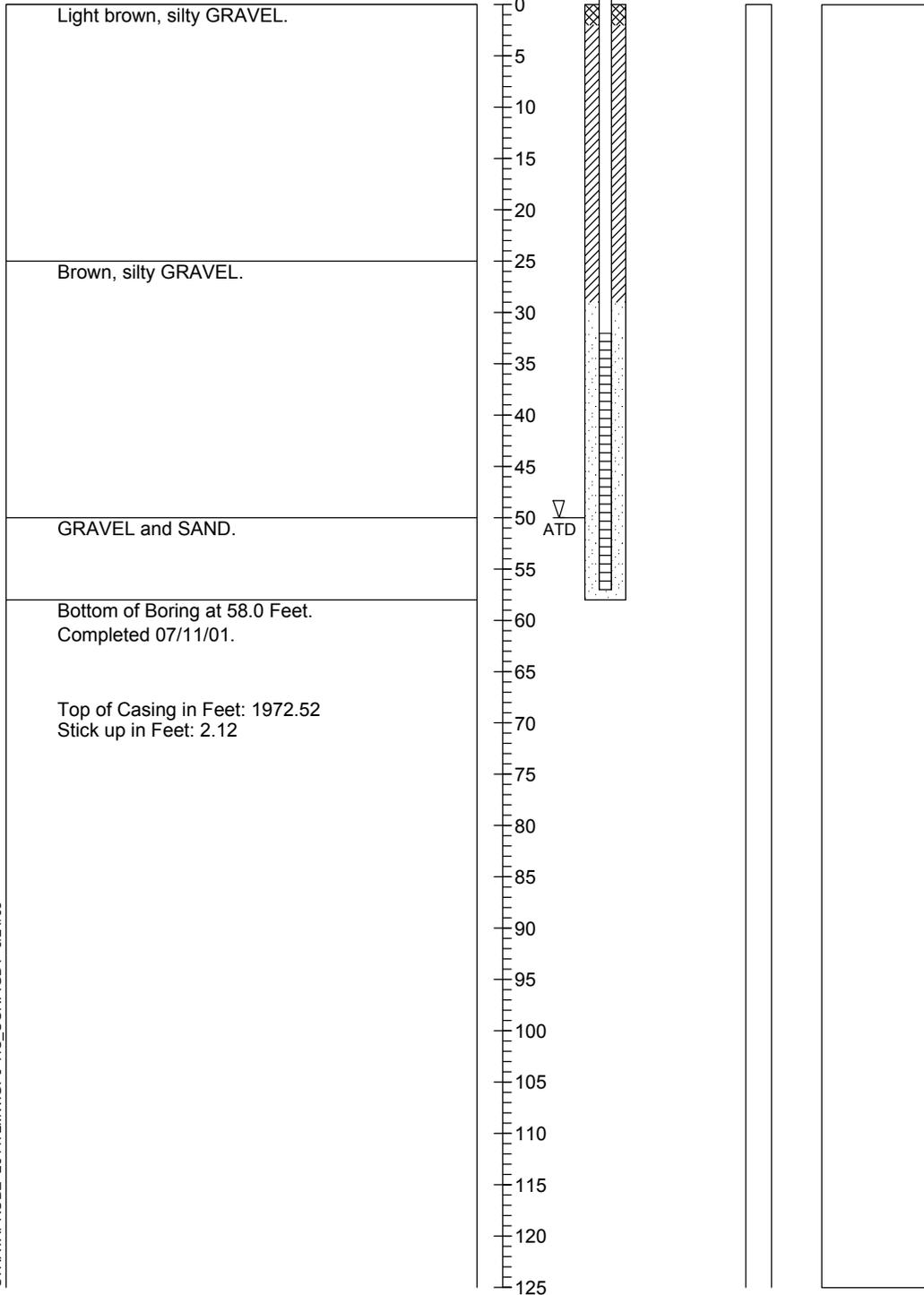
Monitoring Well Log MW-19S

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 1970.4

Depth
in Feet

Sample
LAB
TESTS



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.



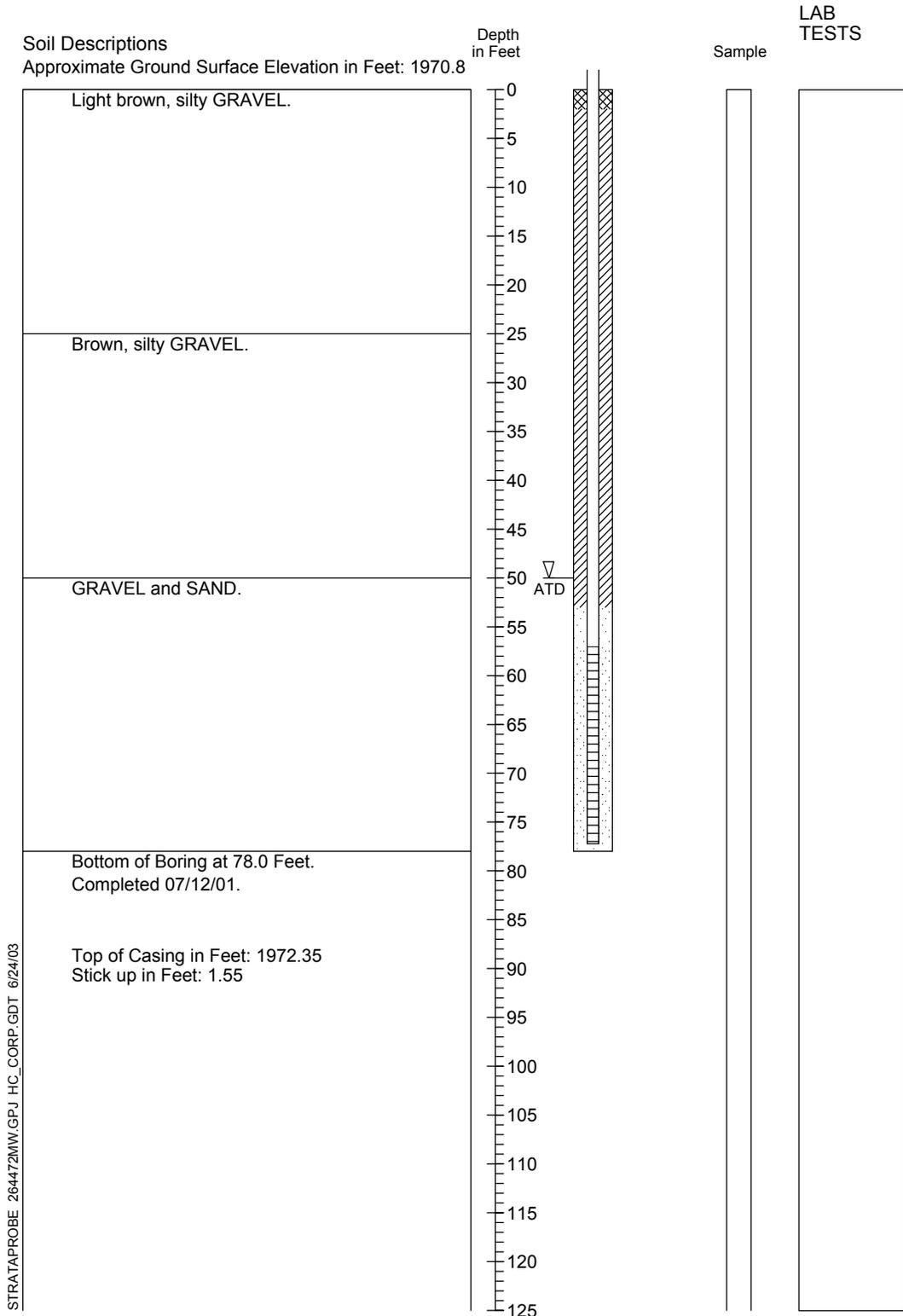
HARTCROWSER

2644-72

07/01

Figure A-35

Monitoring Well Log MW-20D



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.

Monitoring Well Log MW-21S

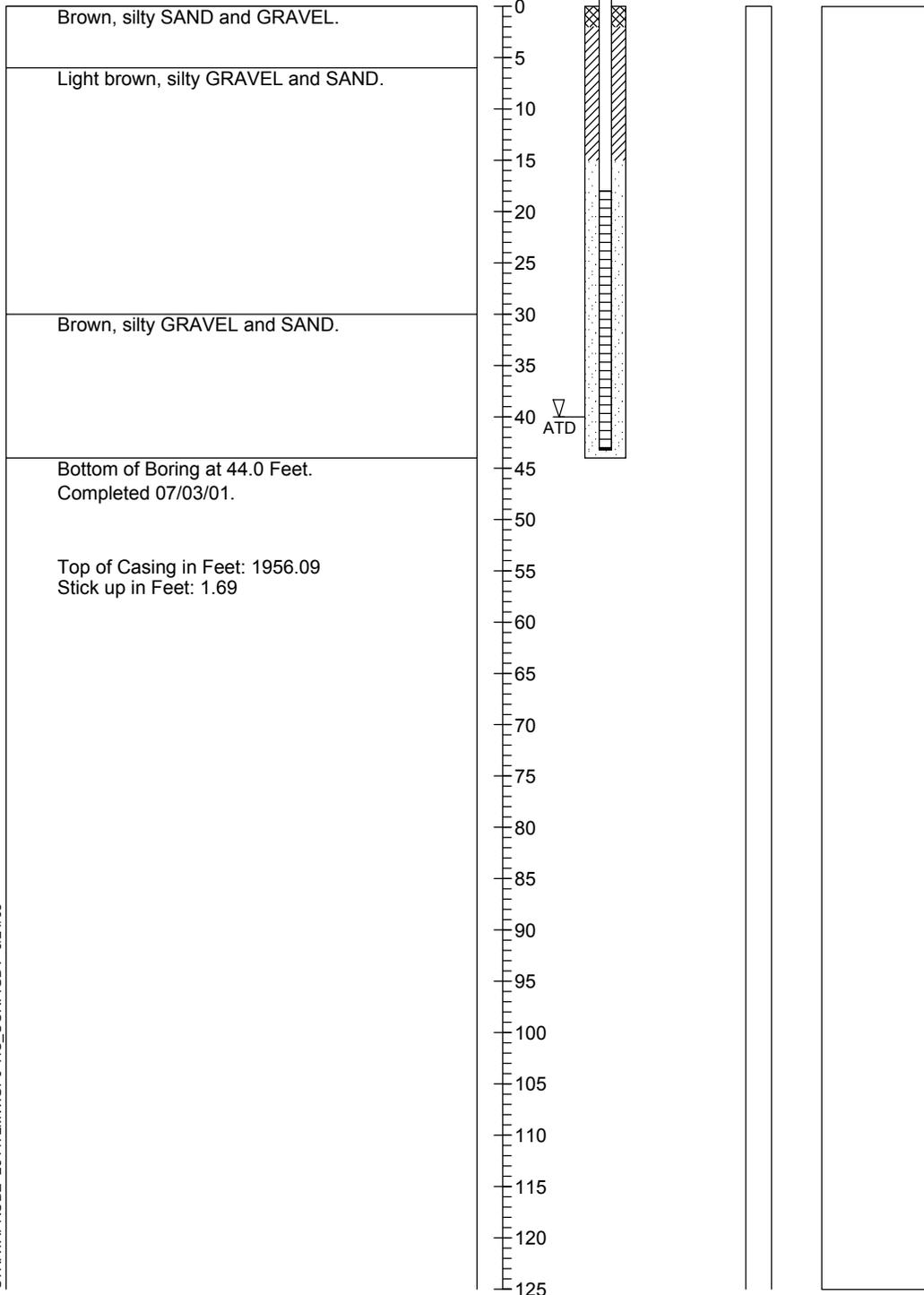
Soil Descriptions

Approximate Ground Surface Elevation in Feet: 1954.4

Depth
in Feet

Sample

LAB
TESTS



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.



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2644-72

07/01

Figure A-37

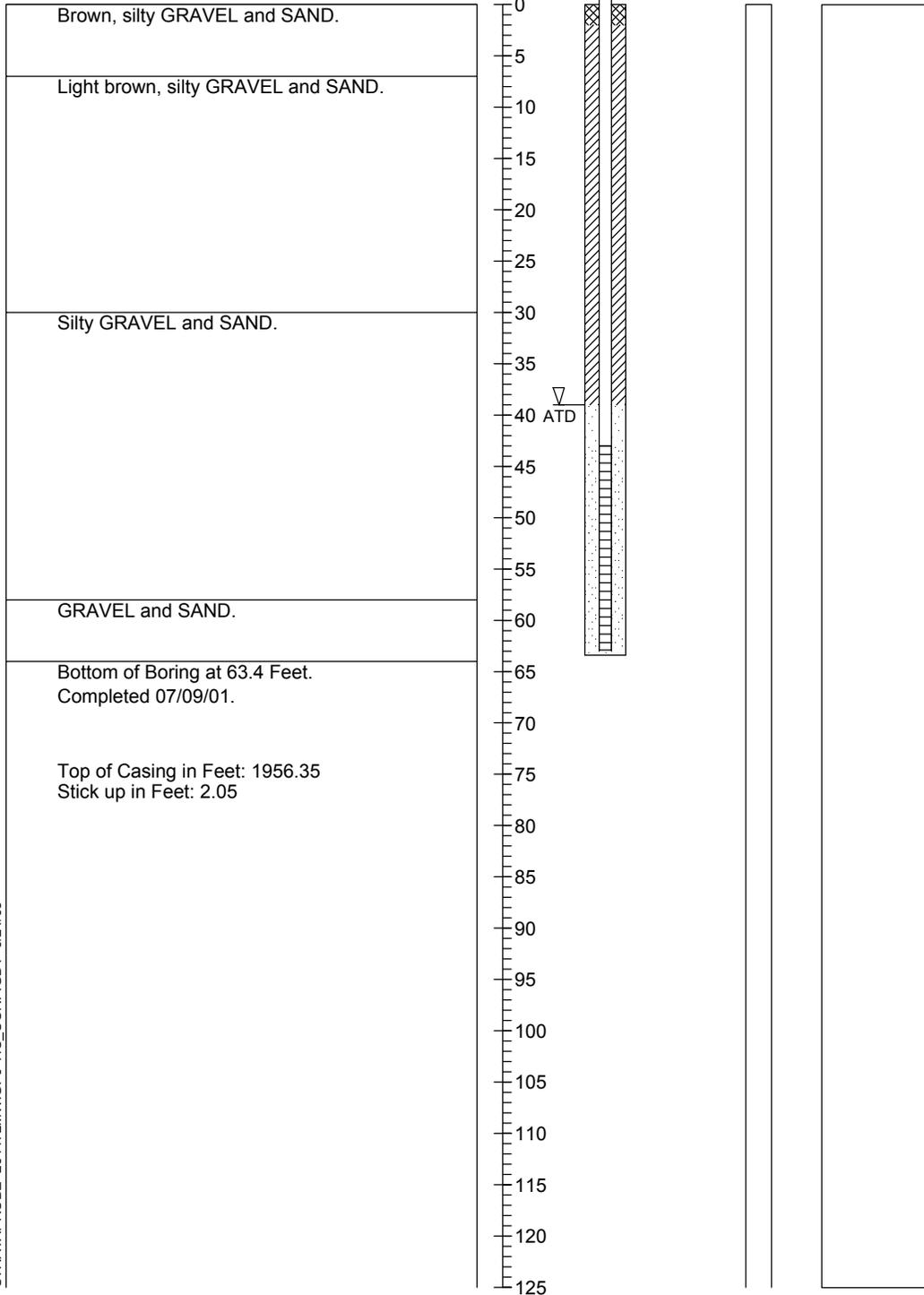
Monitoring Well Log MW-22D

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 1954.3

Depth
in Feet

Sample
LAB
TESTS



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.



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2644-72

07/01

Figure A-38

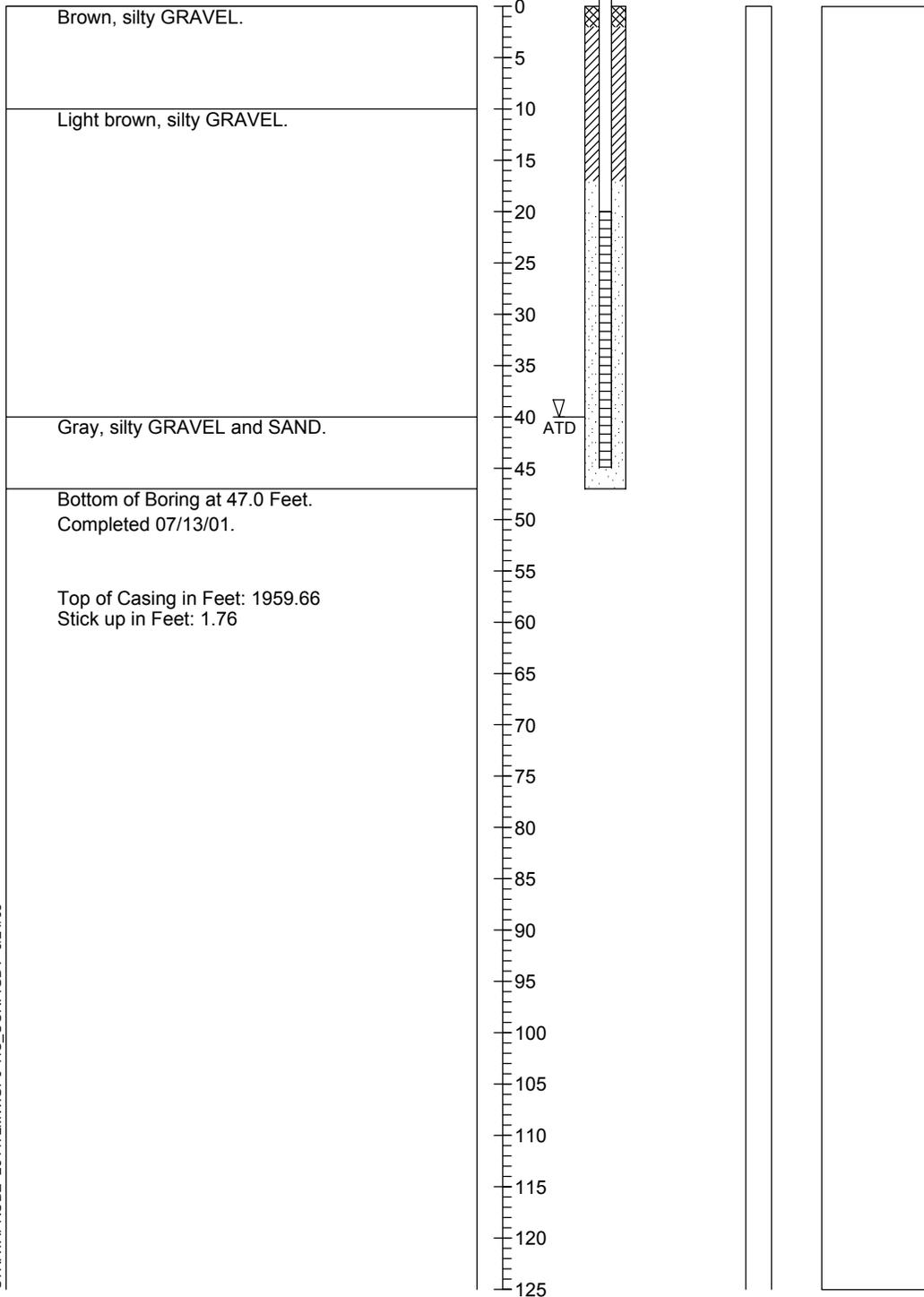
Monitoring Well Log MW-23S

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 1957.9

Depth
in Feet

Sample
LAB
TESTS



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.



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2644-72

07/01

Figure A-39

Monitoring Well Log MW-24D

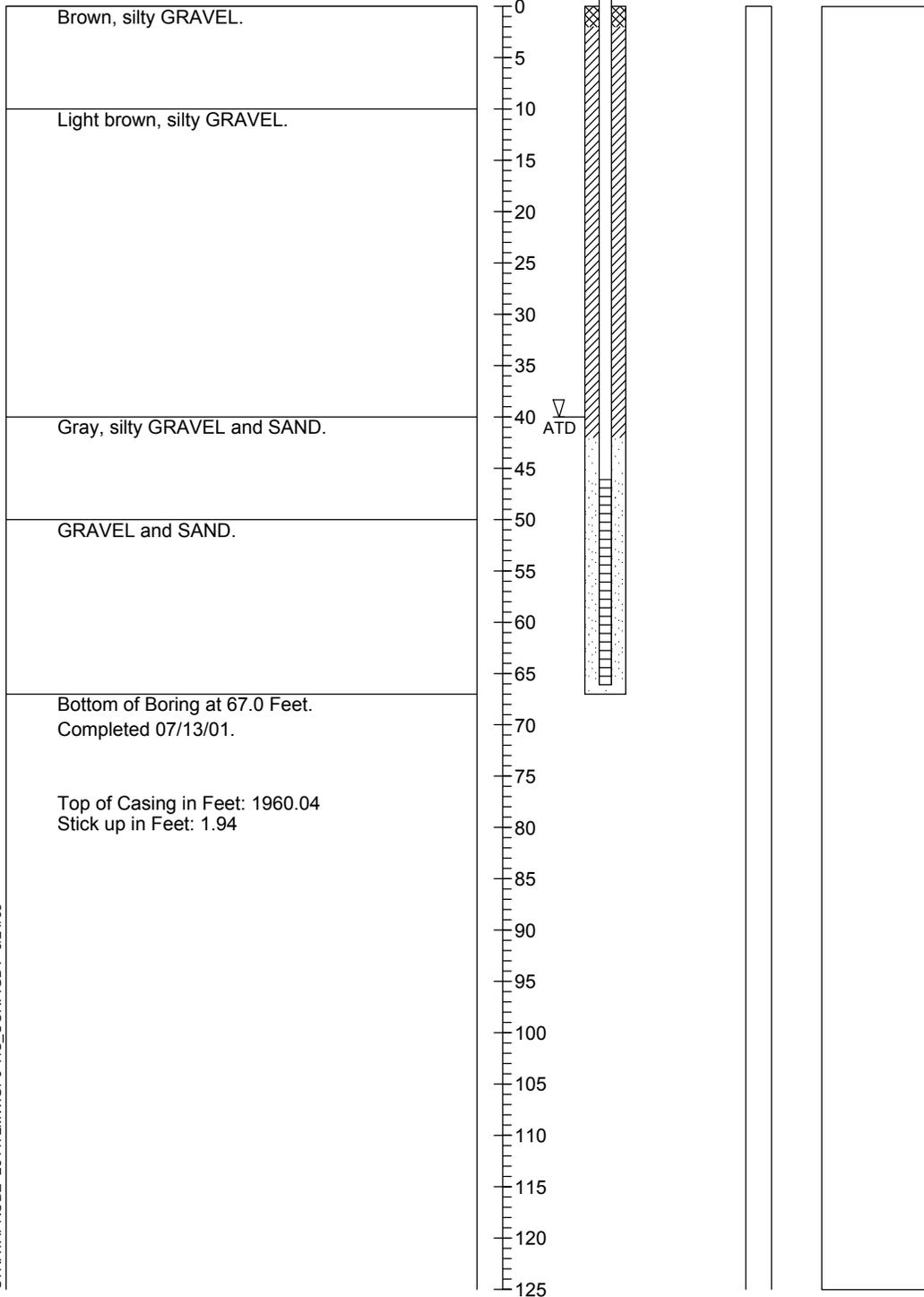
Soil Descriptions

Approximate Ground Surface Elevation in Feet: 1958.1

Depth
in Feet

Sample

LAB
TESTS



STRATAPROBE 264472MW.GPJ HC_CORP.GDT 6/24/03

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.



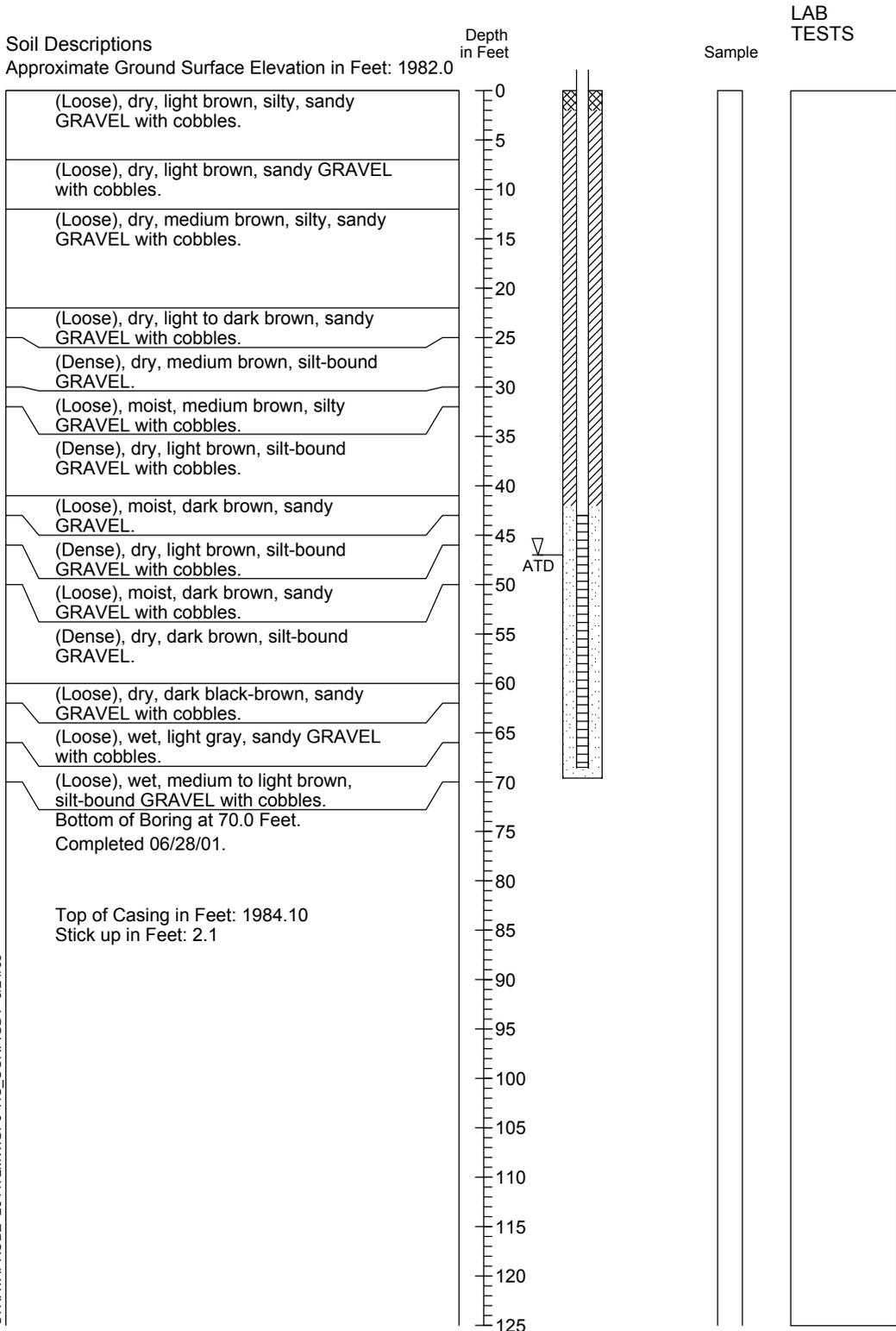
HARTCROWSER

2644-72

07/01

Figure A-40

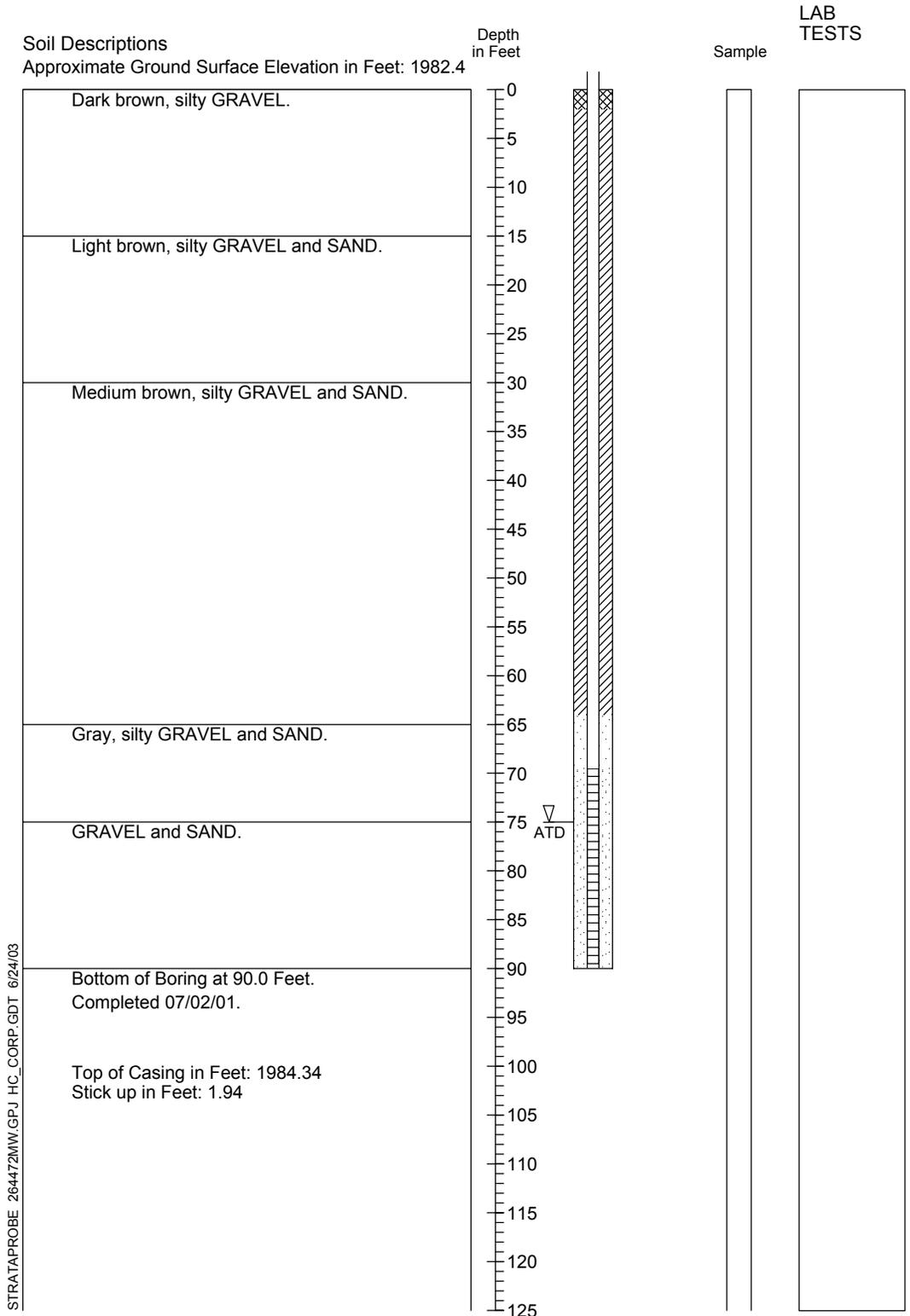
Monitoring Well Log MW-25S



STRATAPROBE 264472MW.GPJ HC_CORP.GDT 6/24/03

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.

Monitoring Well Log MW-26D

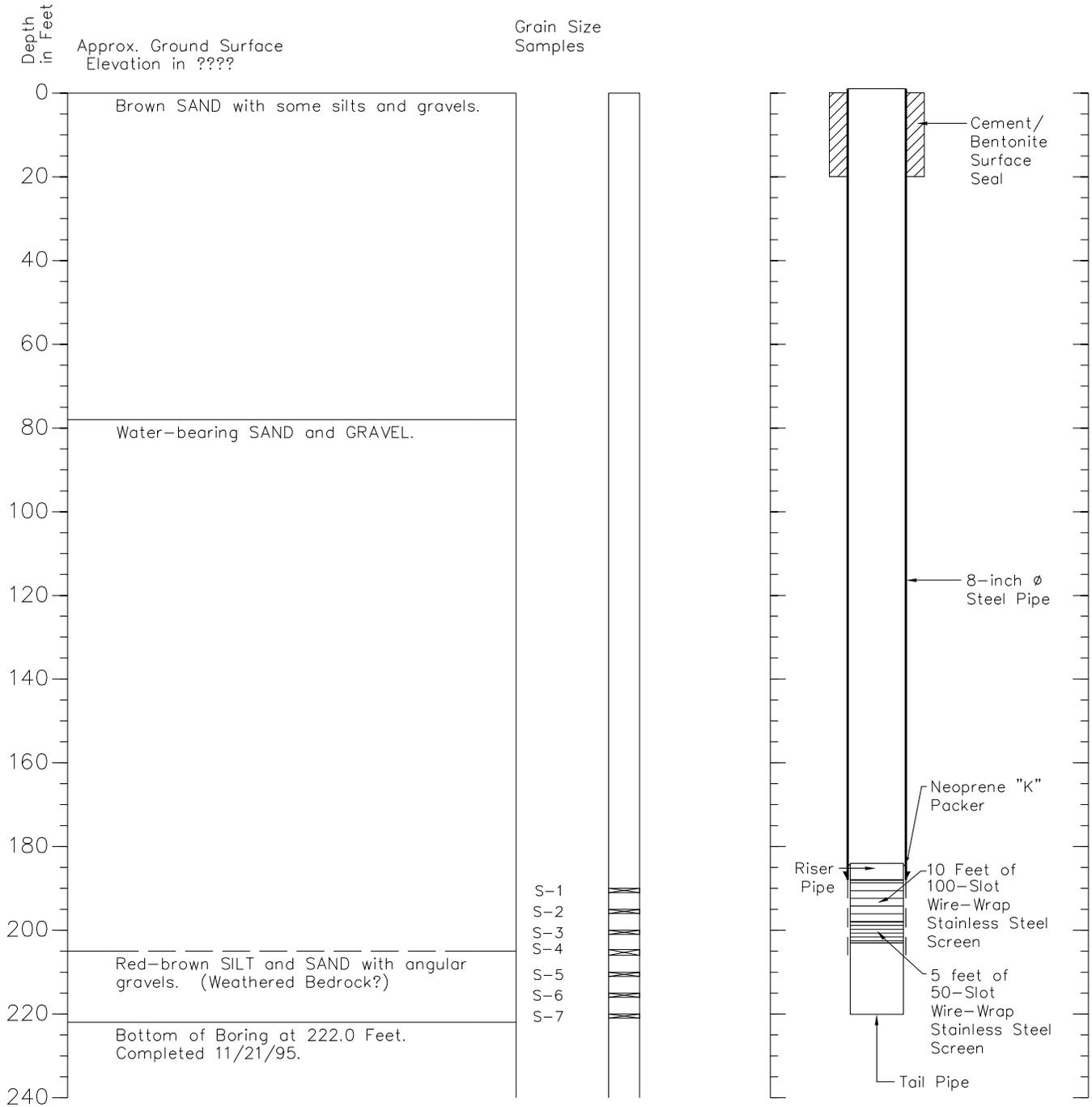


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and measured stick up. Actual TOC elevation will be surveyed at a later date.

Boring Log and Construction Data for North Supply Well

Geologic Log

Monitoring Well Design



hel 4/14/03 1=1
264476 logs 10.dwg

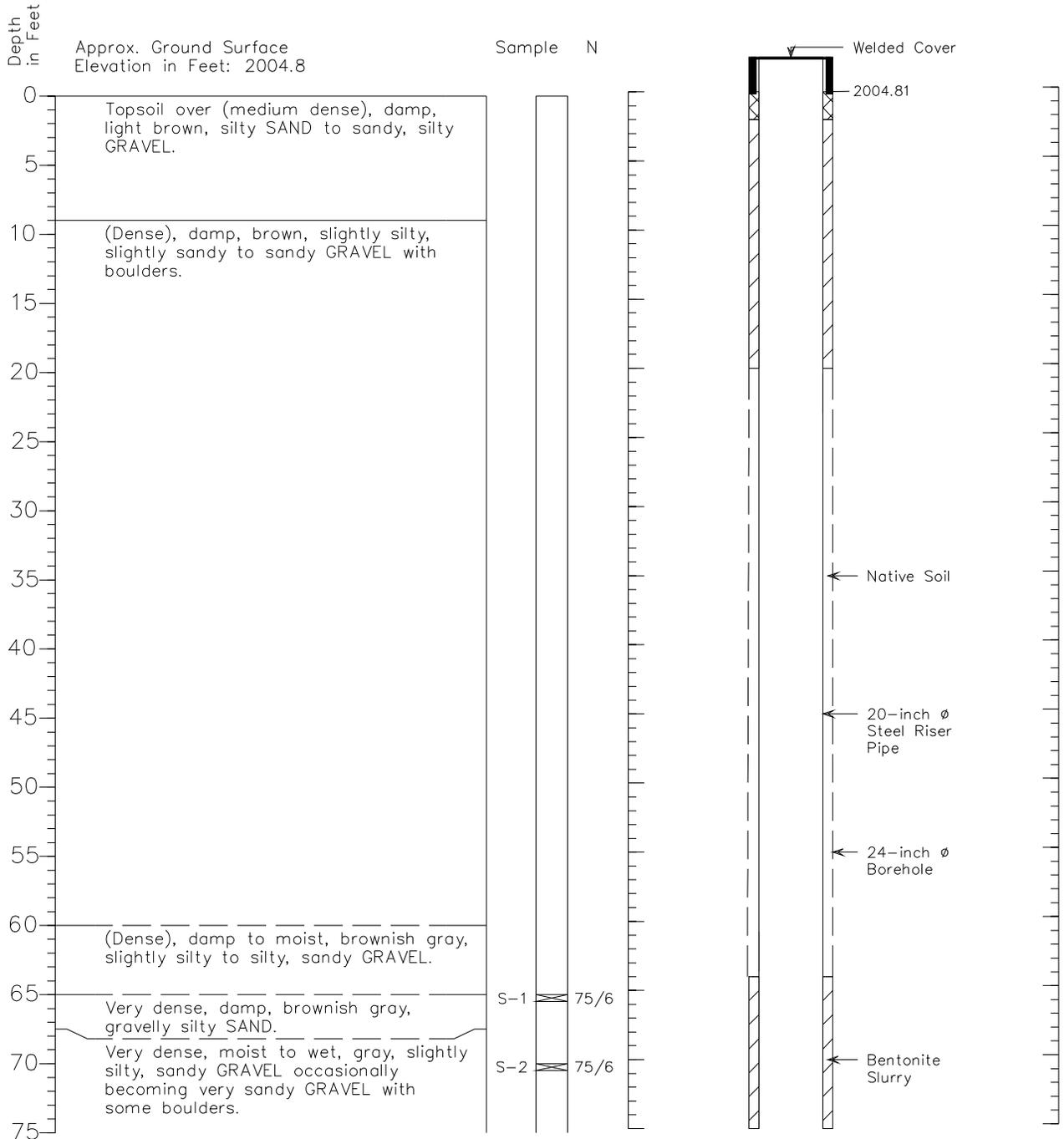
1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Extraction Well OH-EW-1

Well Design

Geologic Log

Casing Stickup in Feet: -3.15
 Top of Casing in Feet: 2007.95



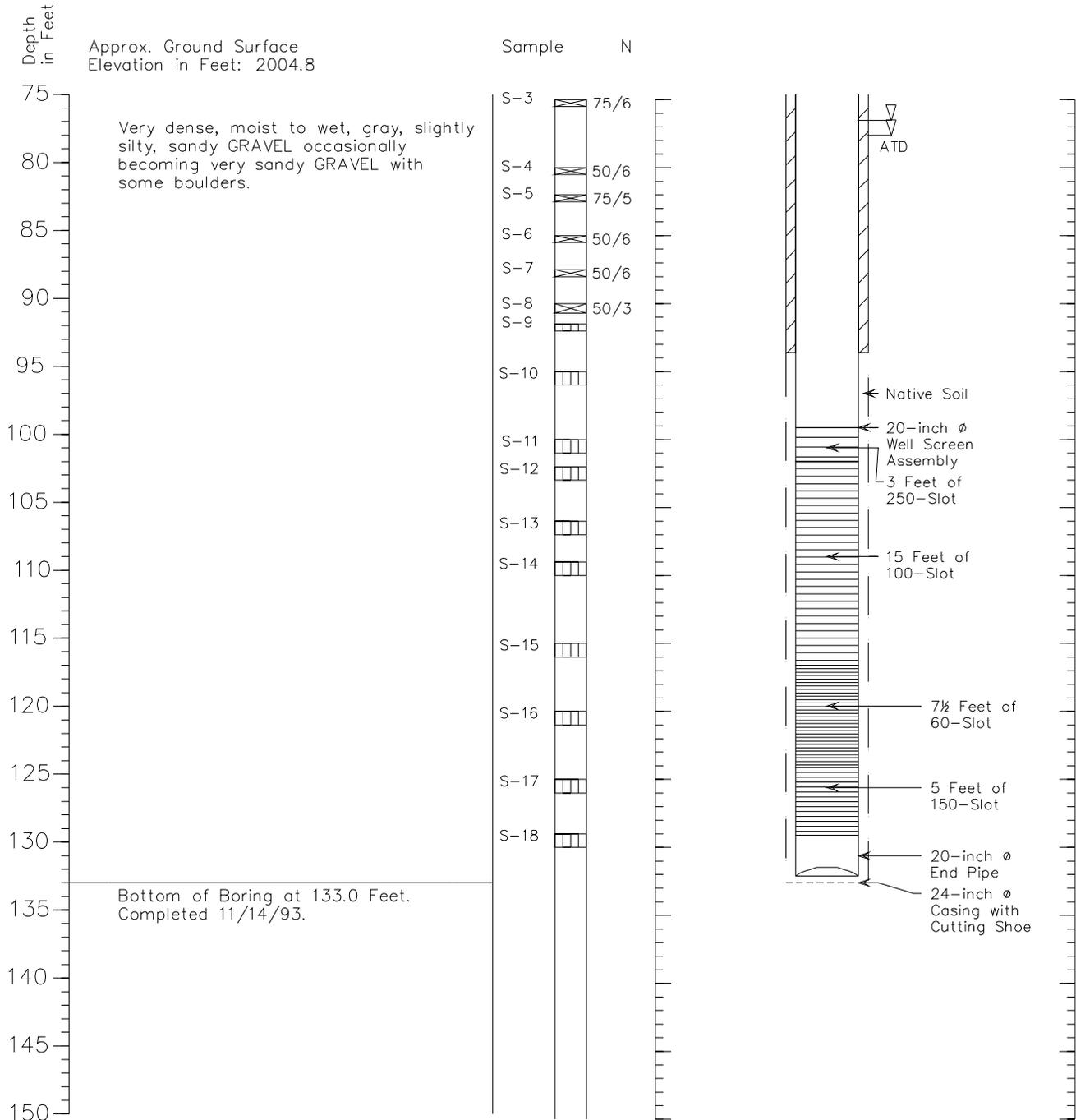
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

HEL 4/14/03 1=1
 264476 logs 11.dwg

Boring Log and Construction for Extraction Well OH-EW-1

Geologic Log

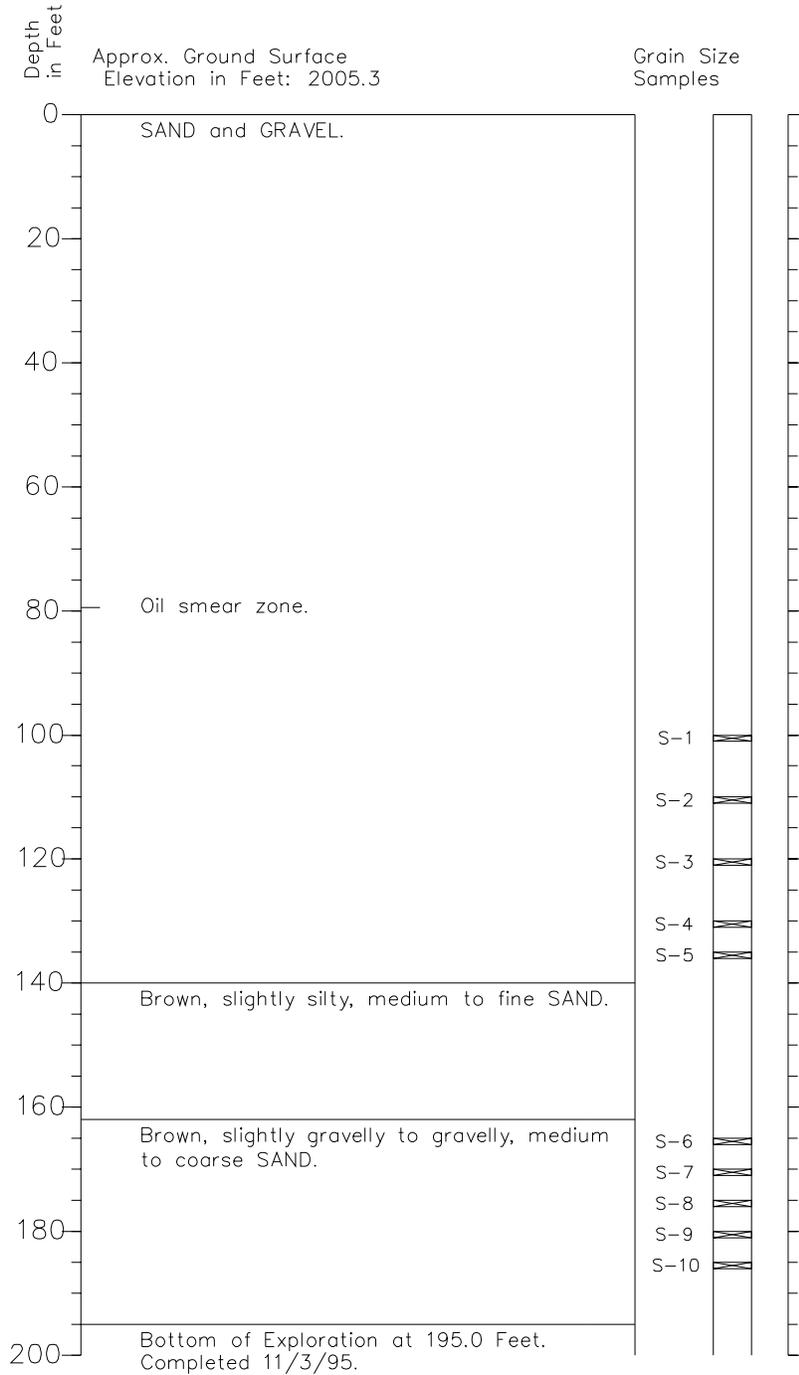
Well Design



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

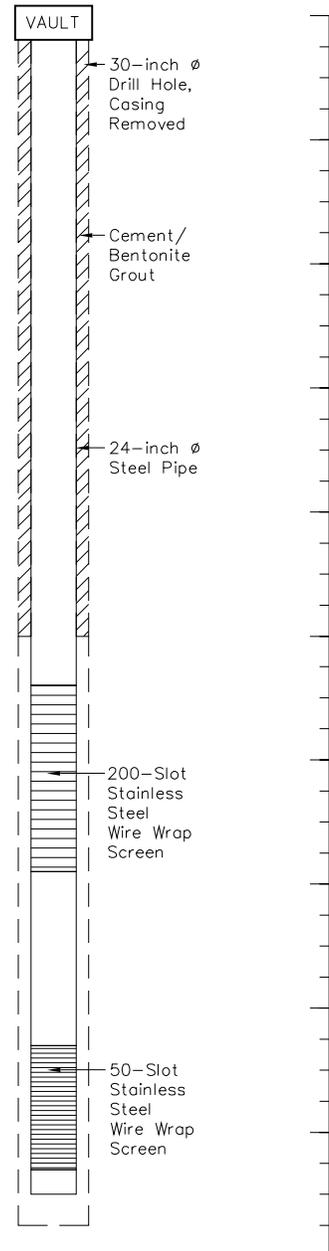
Boring Log and Construction Data for Extraction Well OH-EW-2

Geologic Log



Well Design

Casing Stickup in Feet: -2.2
 Top of Casing in Feet: 2003.1
 Top of Casing in Feet: 2000.76 (Post 1996)

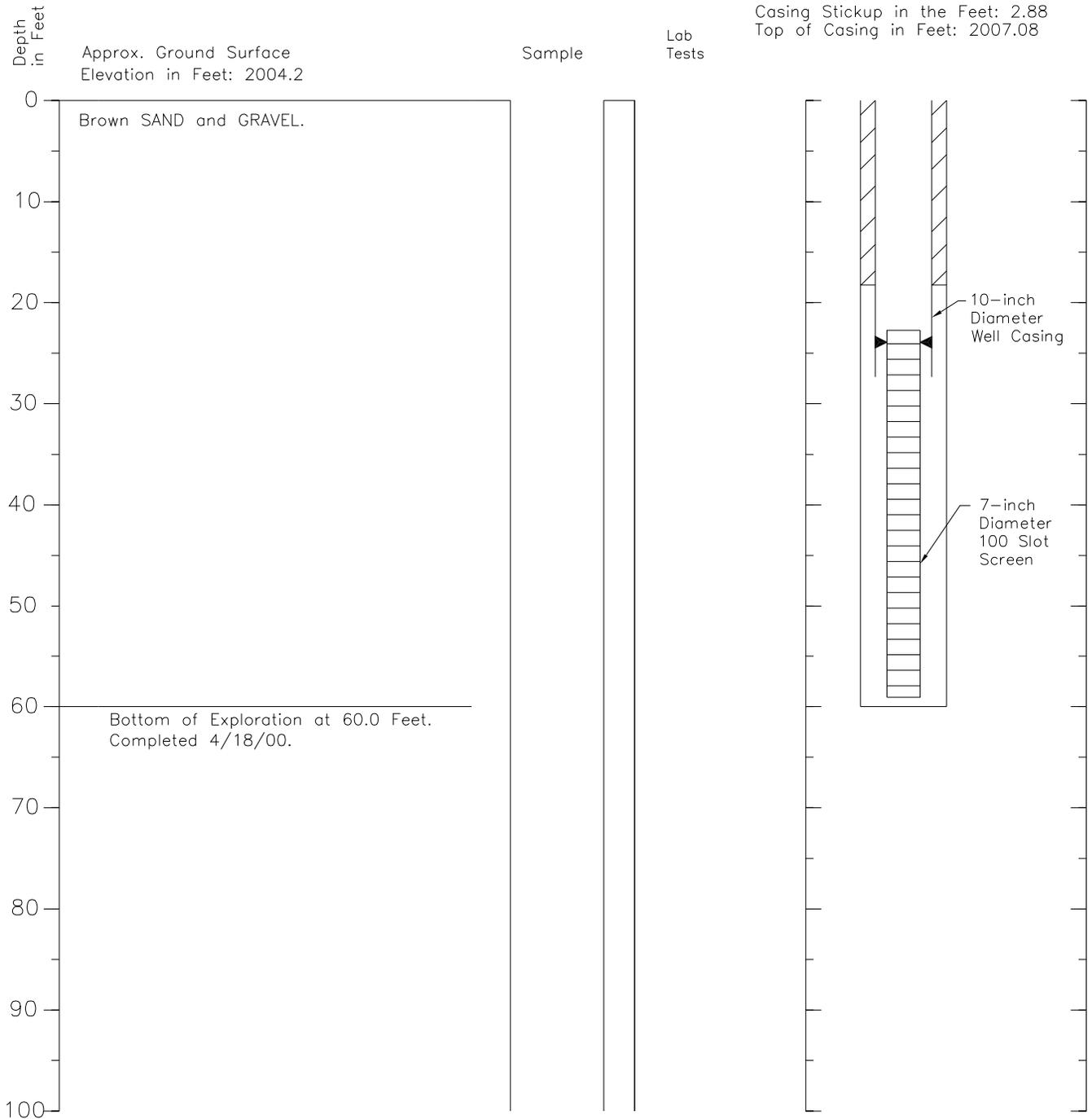


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Recirculation Well OH-EW-2-US

Geologic Log

Extraction Well Design



hel_4/14/03i=1
264476_logs_13.dwg

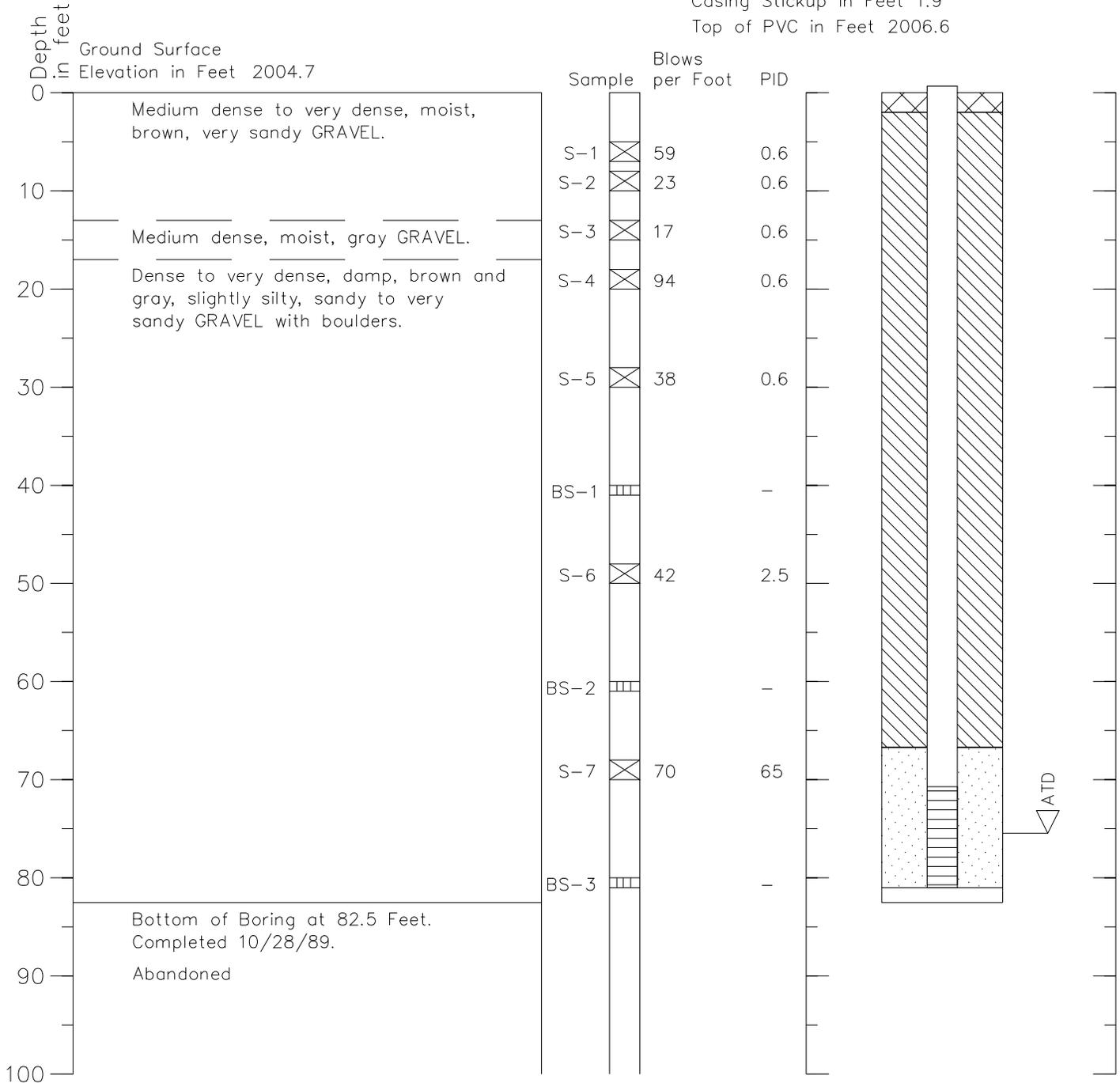
1. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
2. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-1

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.9
Top of PVC in Feet 2006.6



HEL 4/14/03 1=1
264476 logs 14.dwg

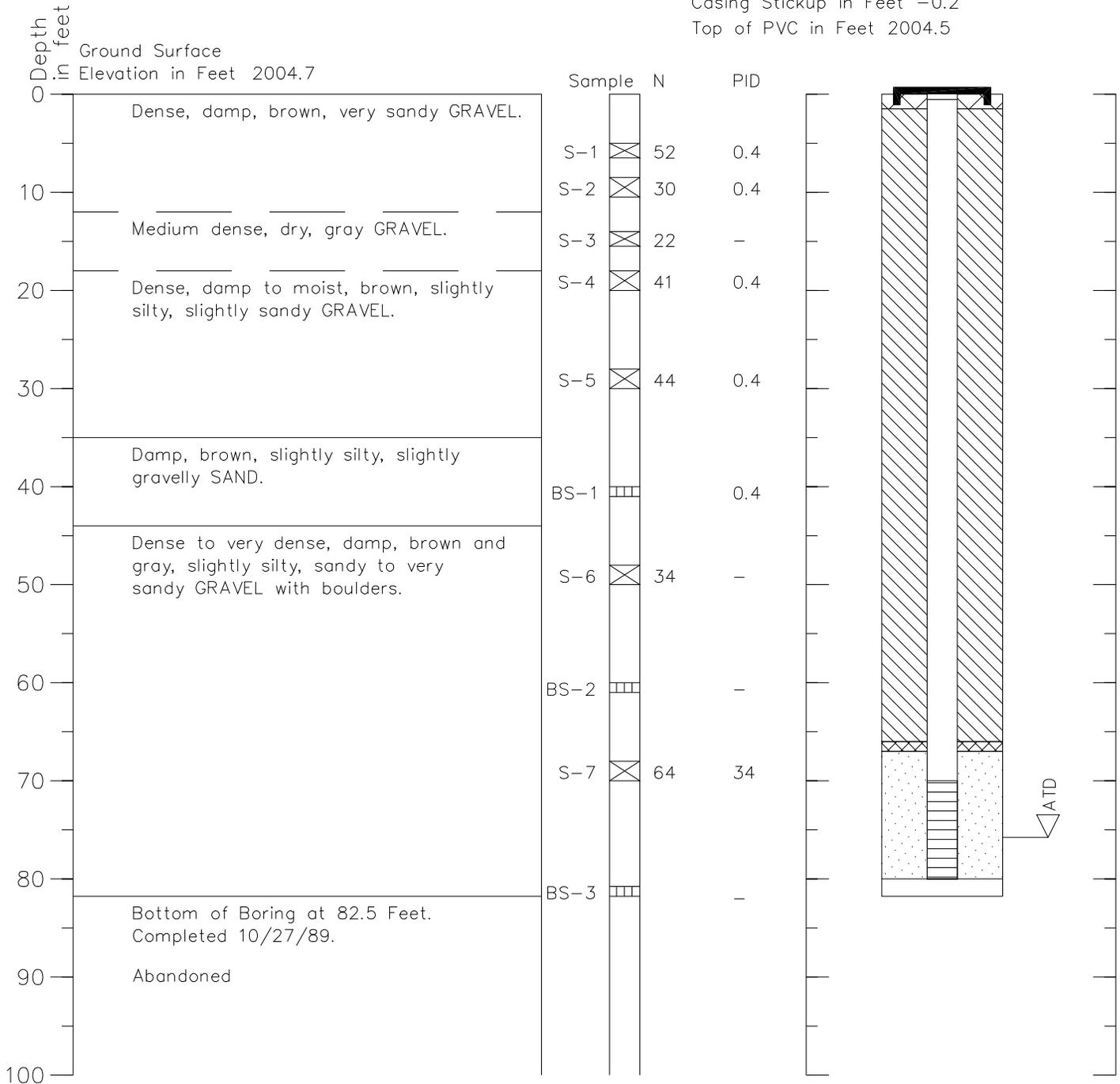
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-2

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.2
Top of PVC in Feet 2004.5



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

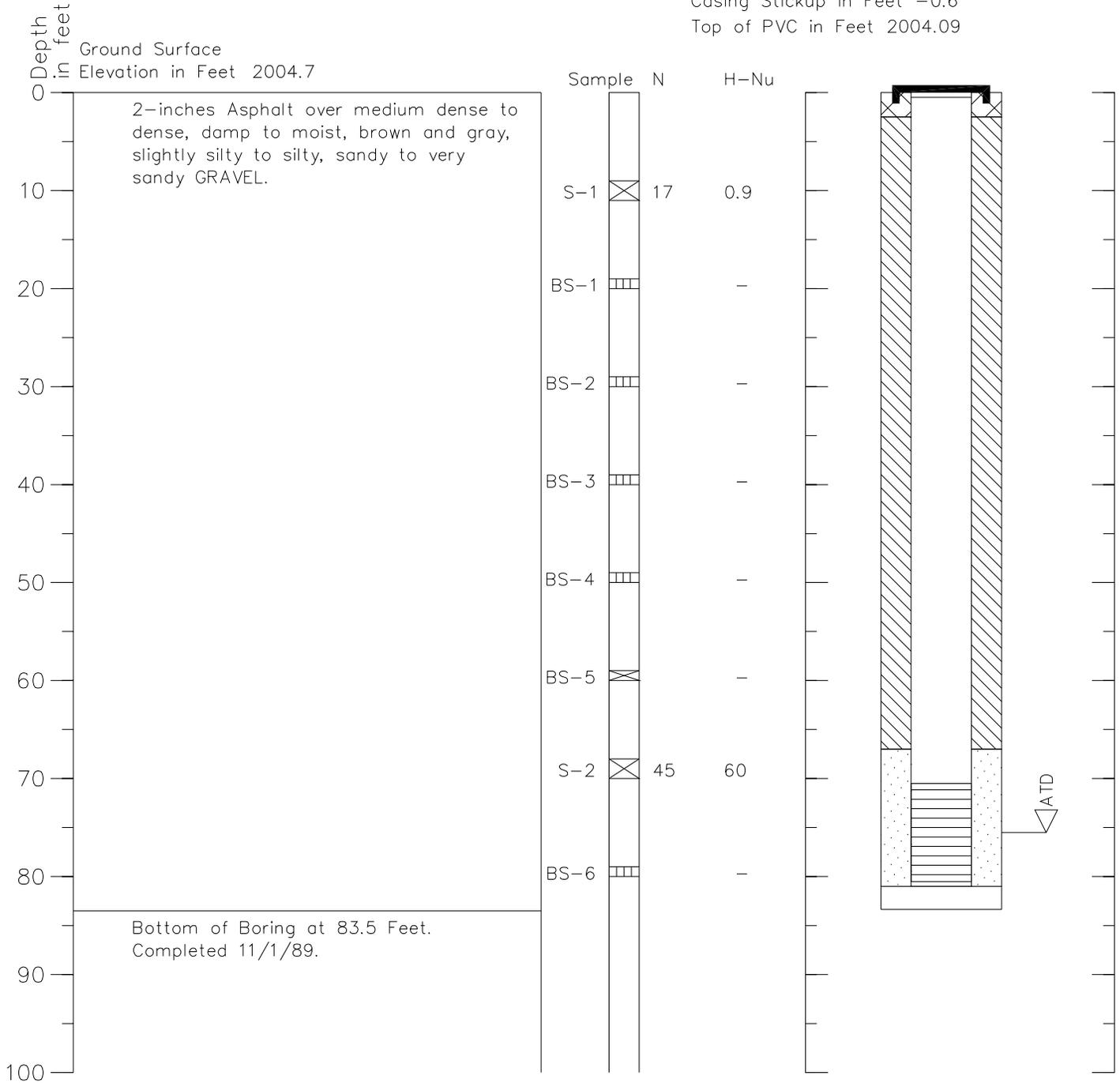
hel 4/14/03 1=1
264476 logs 15.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-3

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.6
Top of PVC in Feet 2004.09



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

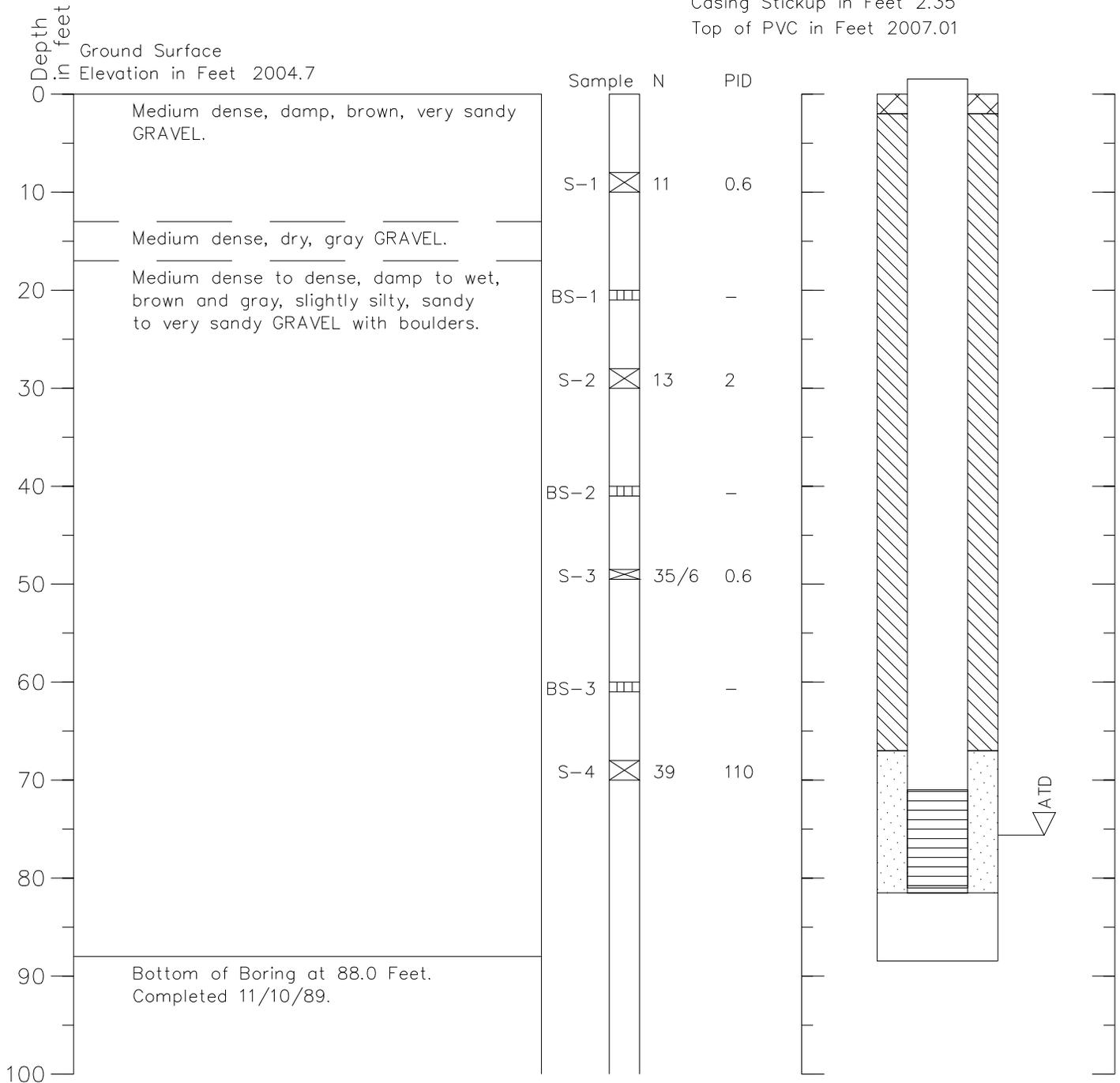
hel_4/14/03_1=1
264476_logs_16.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-4

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.35
Top of PVC in Feet 2007.01



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

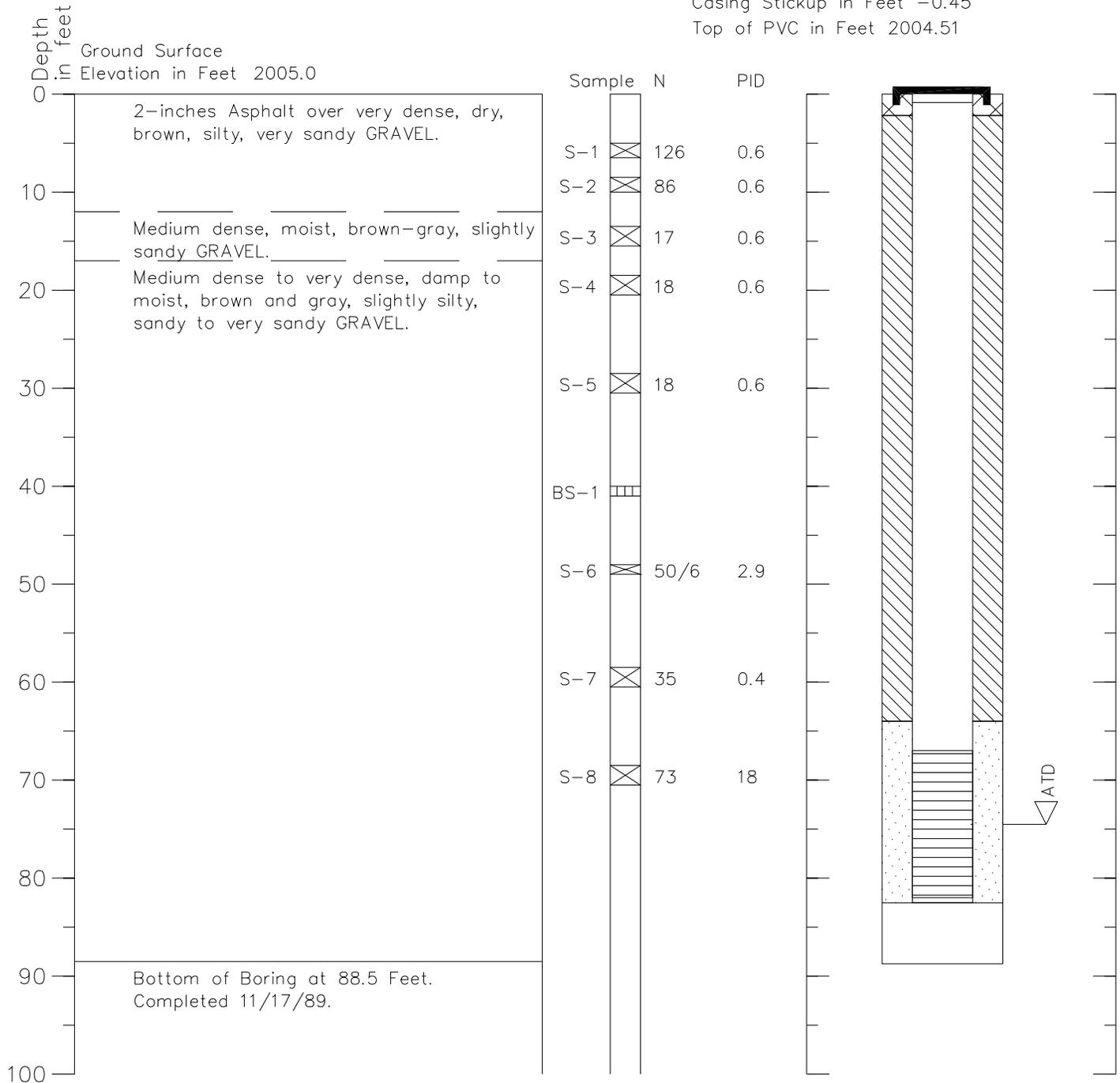
hel 4/14/03 1=1
264476_logs 17.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-5

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.45
Top of PVC in Feet 2004.51



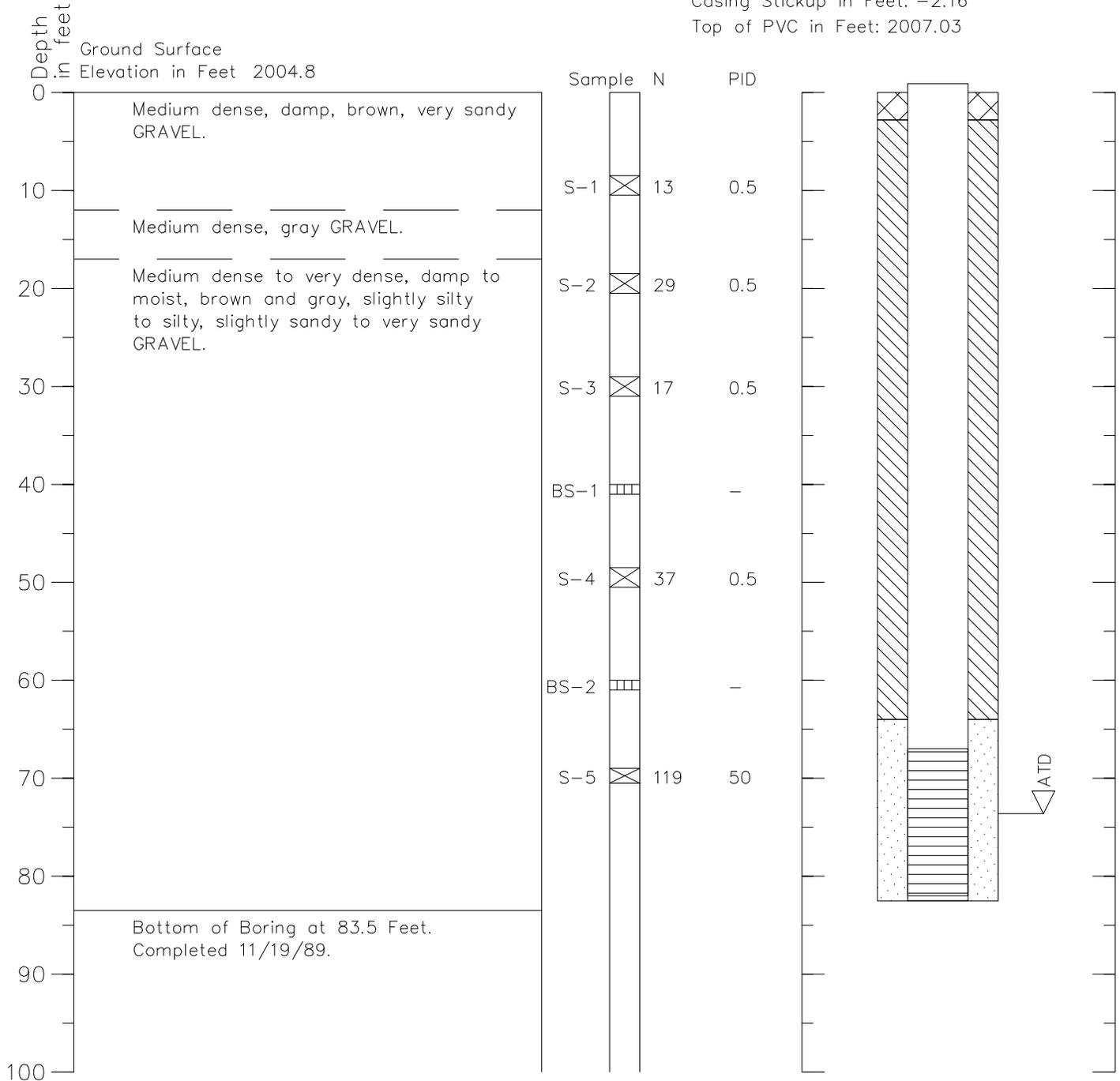
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-6

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: -2.16
Top of PVC in Feet: 2007.03



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

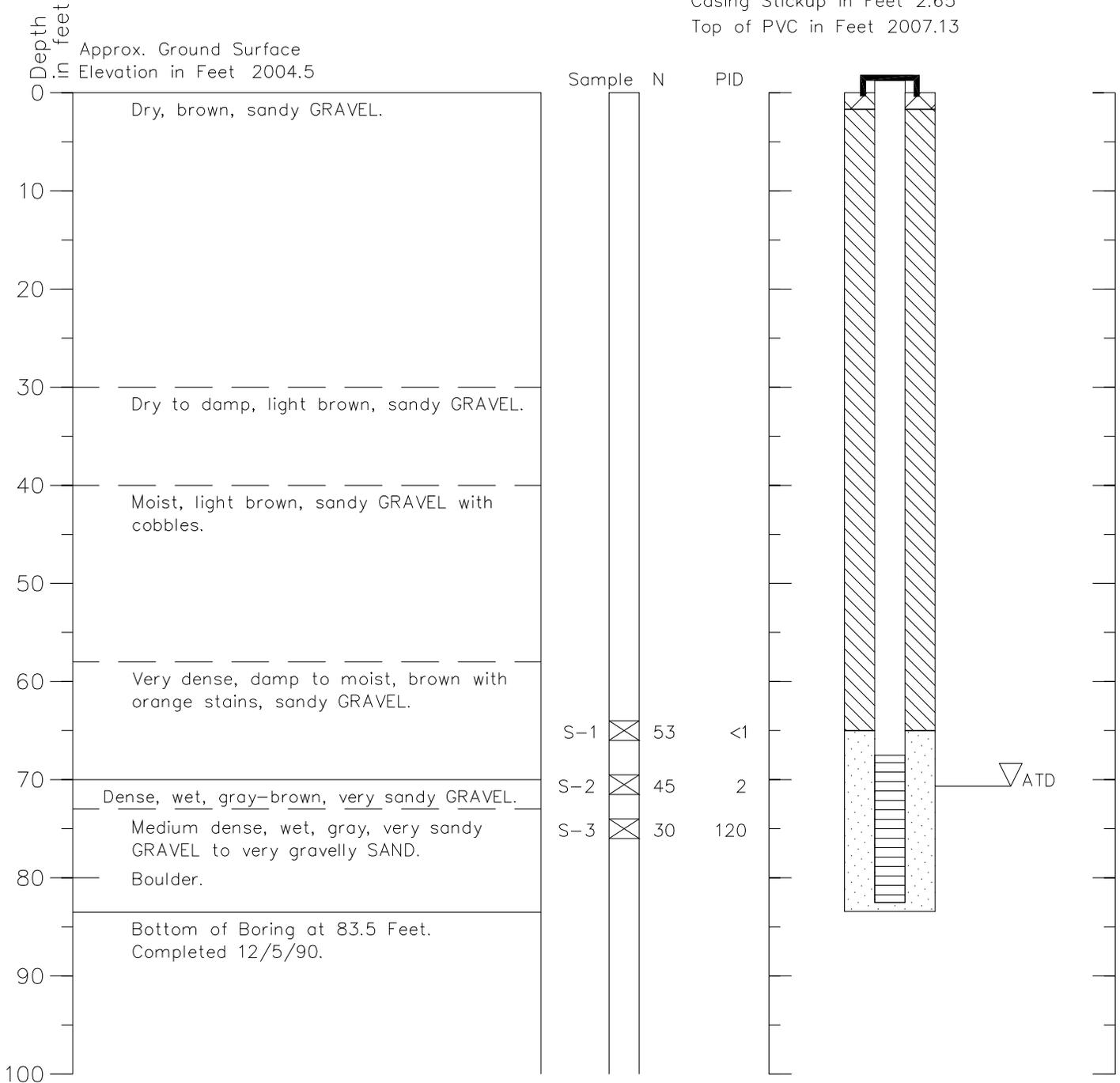
hel_4/14/03 1=1
264476 logs 19.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-7

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.65
Top of PVC in Feet 2007.13



hel_4/14/03 1=1
264476 logs 20.dwg

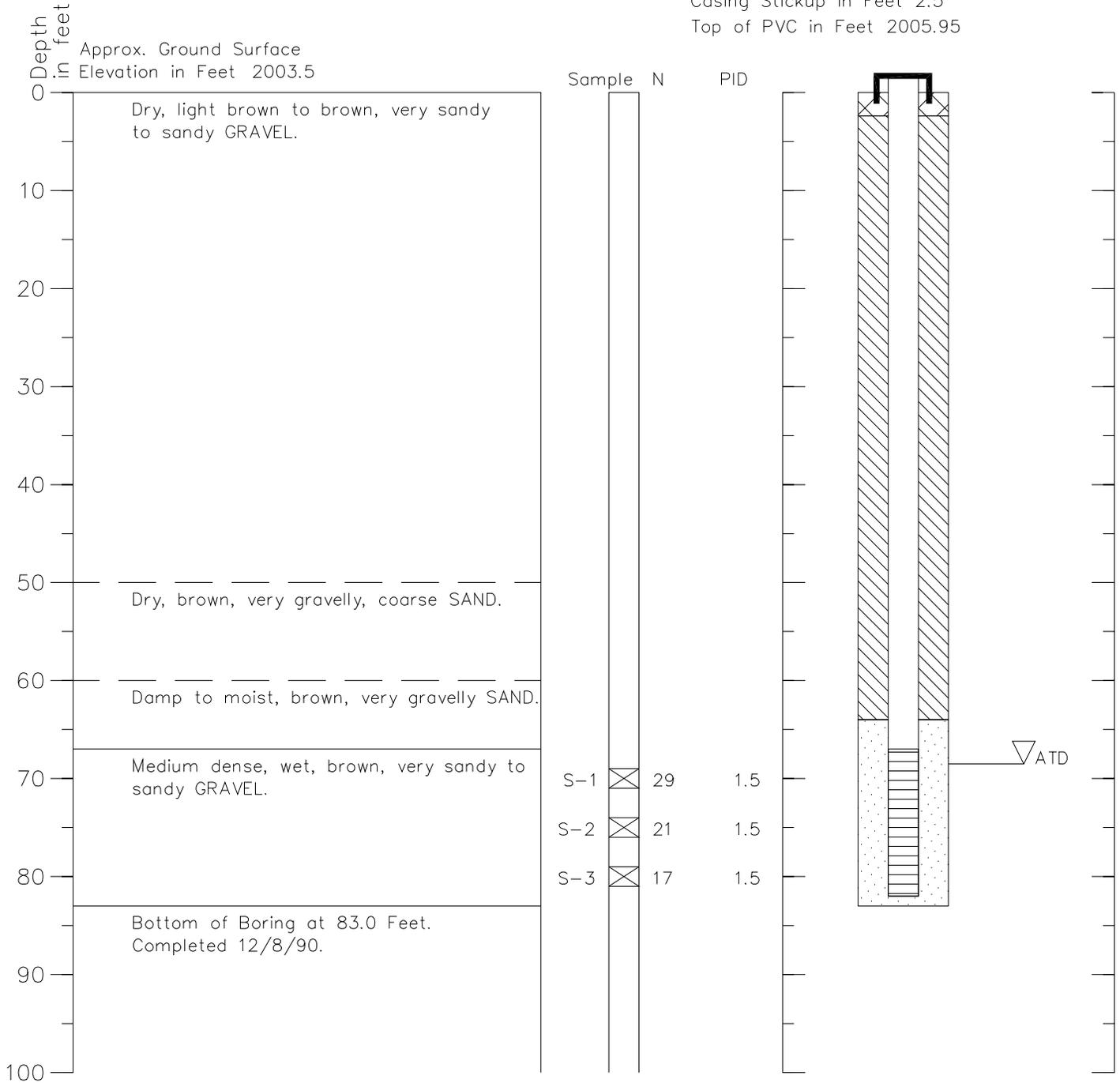
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-8

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.5
Top of PVC in Feet 2005.95



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

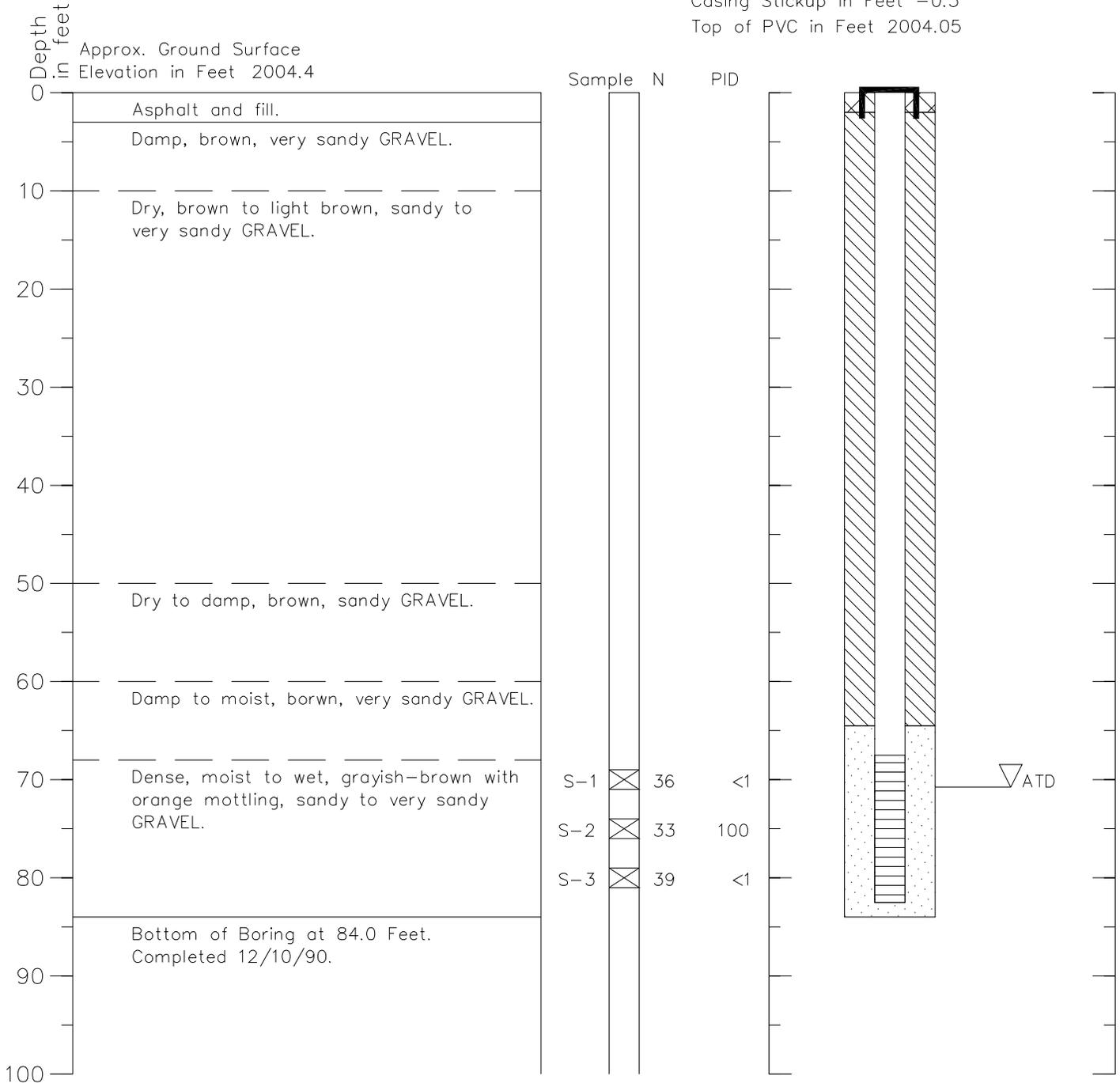
hel_4/14/03 1=1
264476 logs 21.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-9

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.3
Top of PVC in Feet 2004.05



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

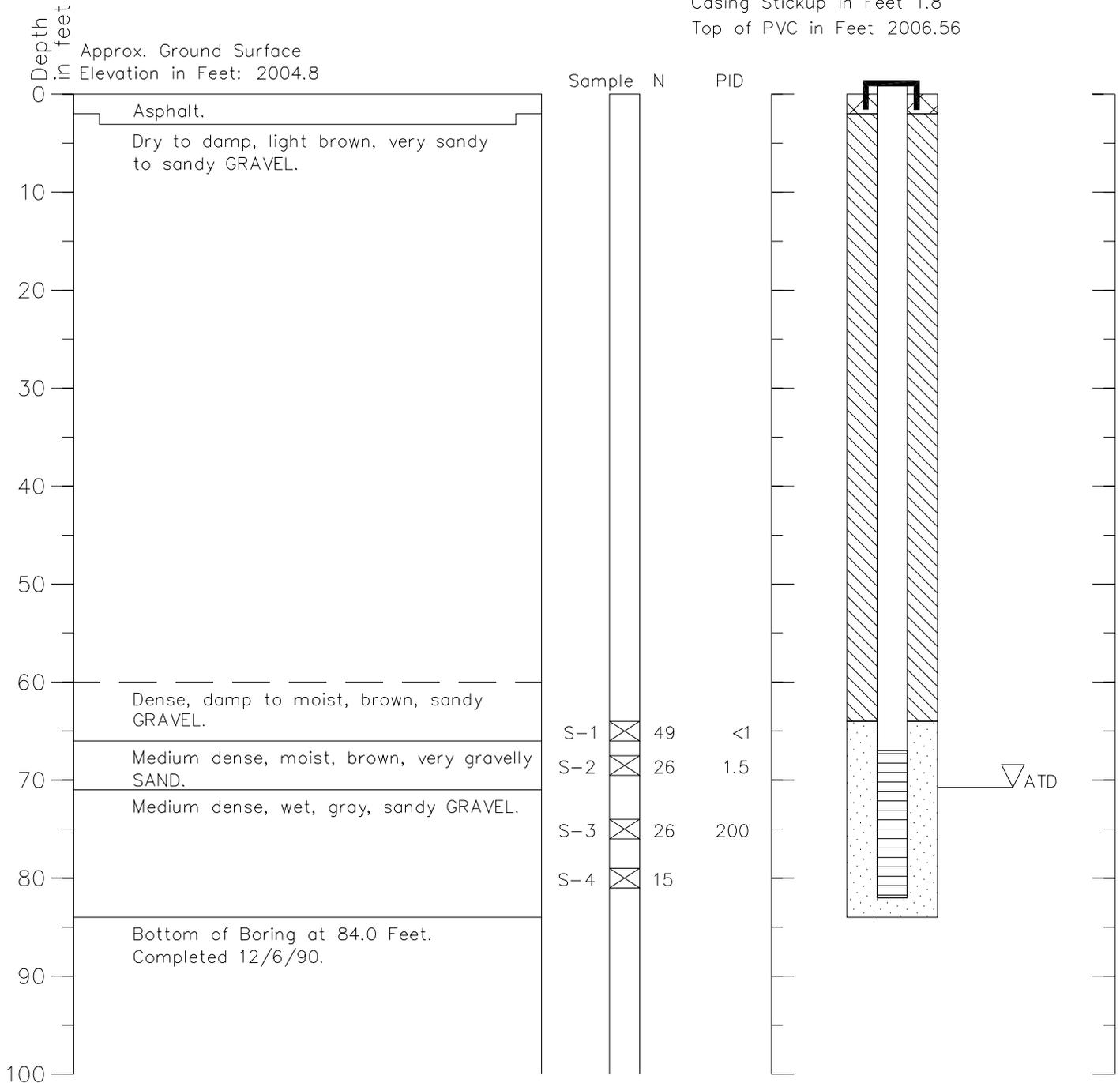
hel_4/14/03_1=1
264476_logs_22.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-10

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.8
Top of PVC in Feet 2006.56



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

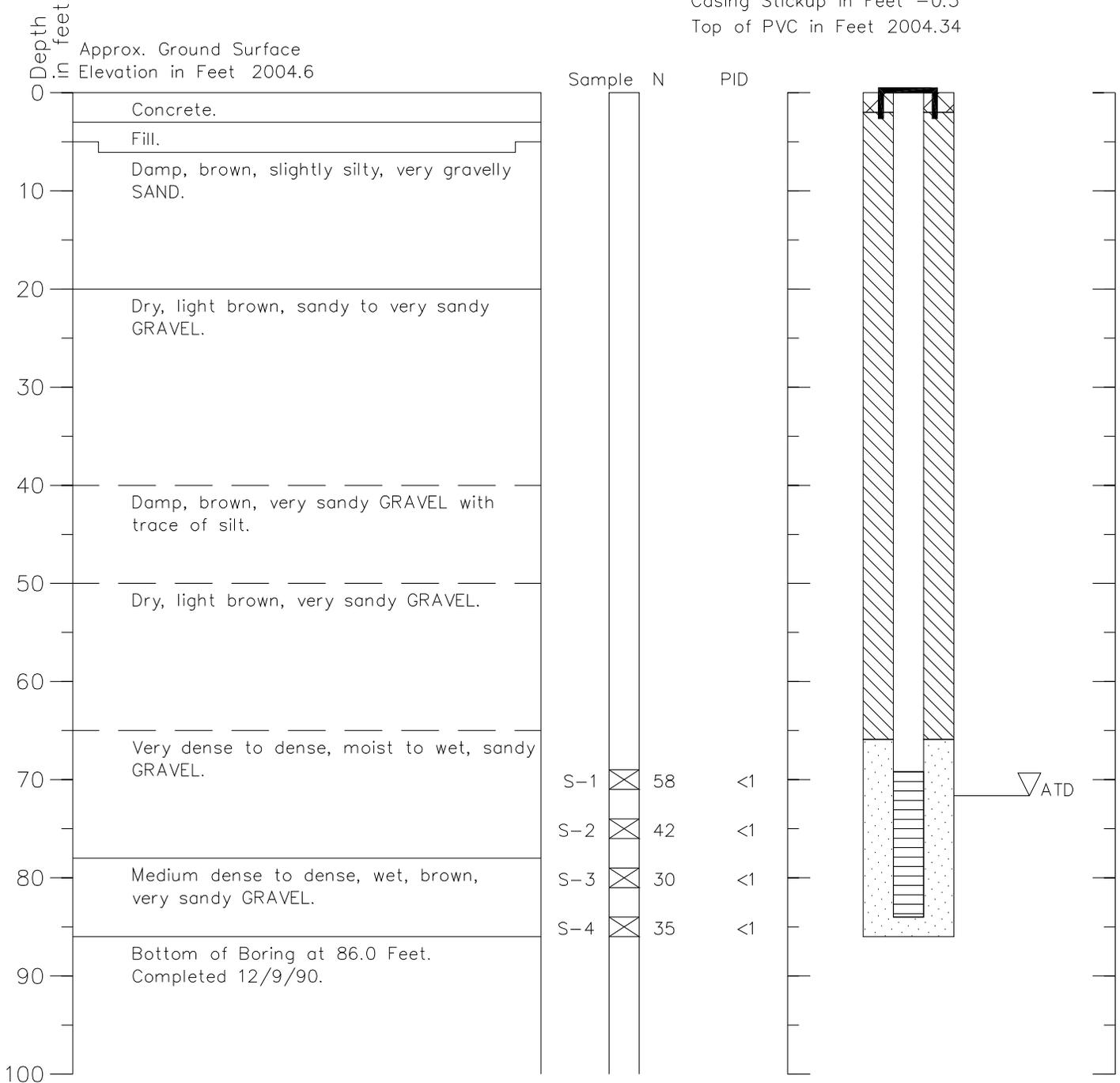
hel_4/14/03 1=1
264476 logs 23.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-11

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.3
Top of PVC in Feet 2004.34



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

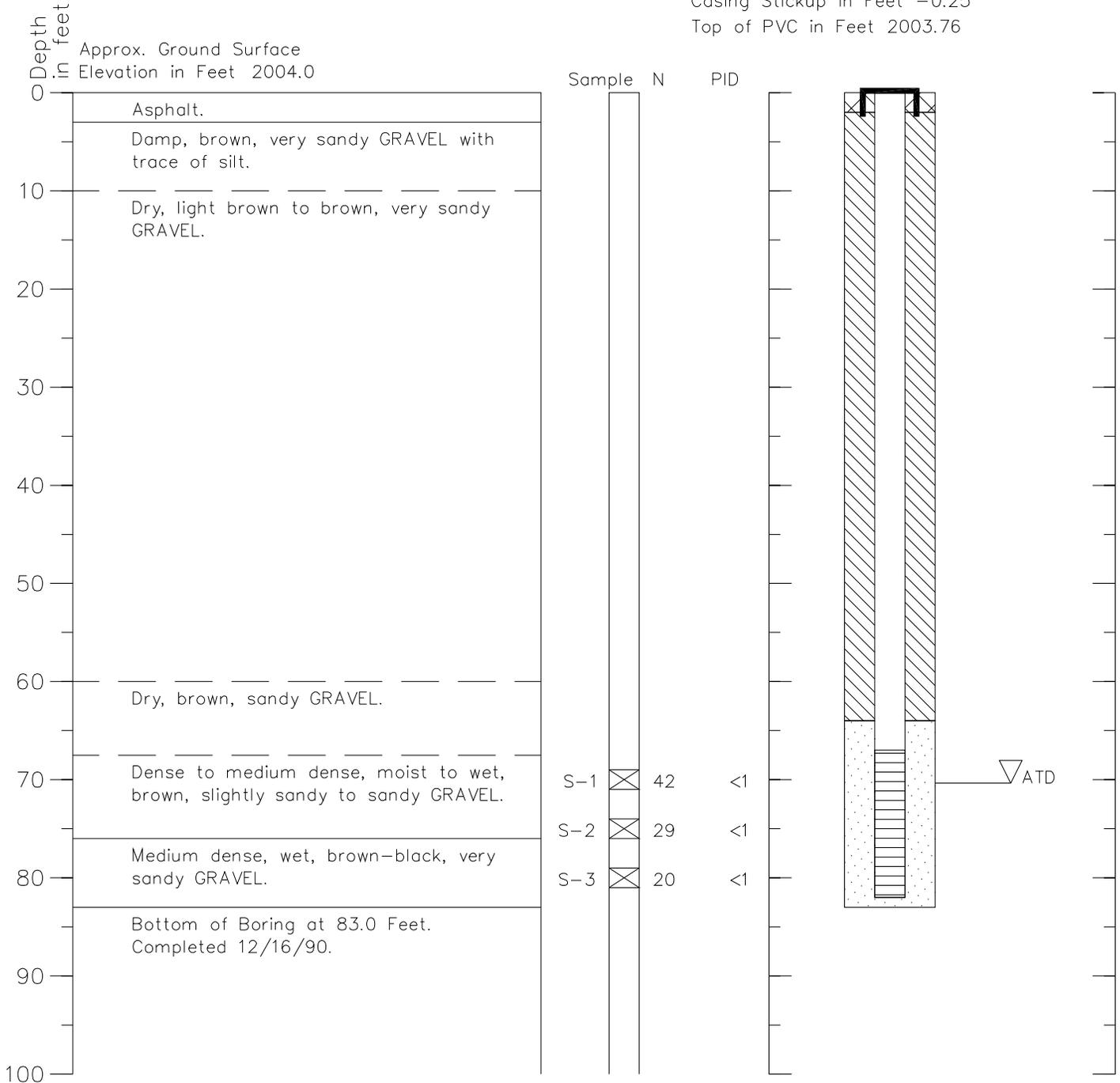
hel_4/14/03 1=1
264476 logs 24.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-12

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.25
Top of PVC in Feet 2003.76



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

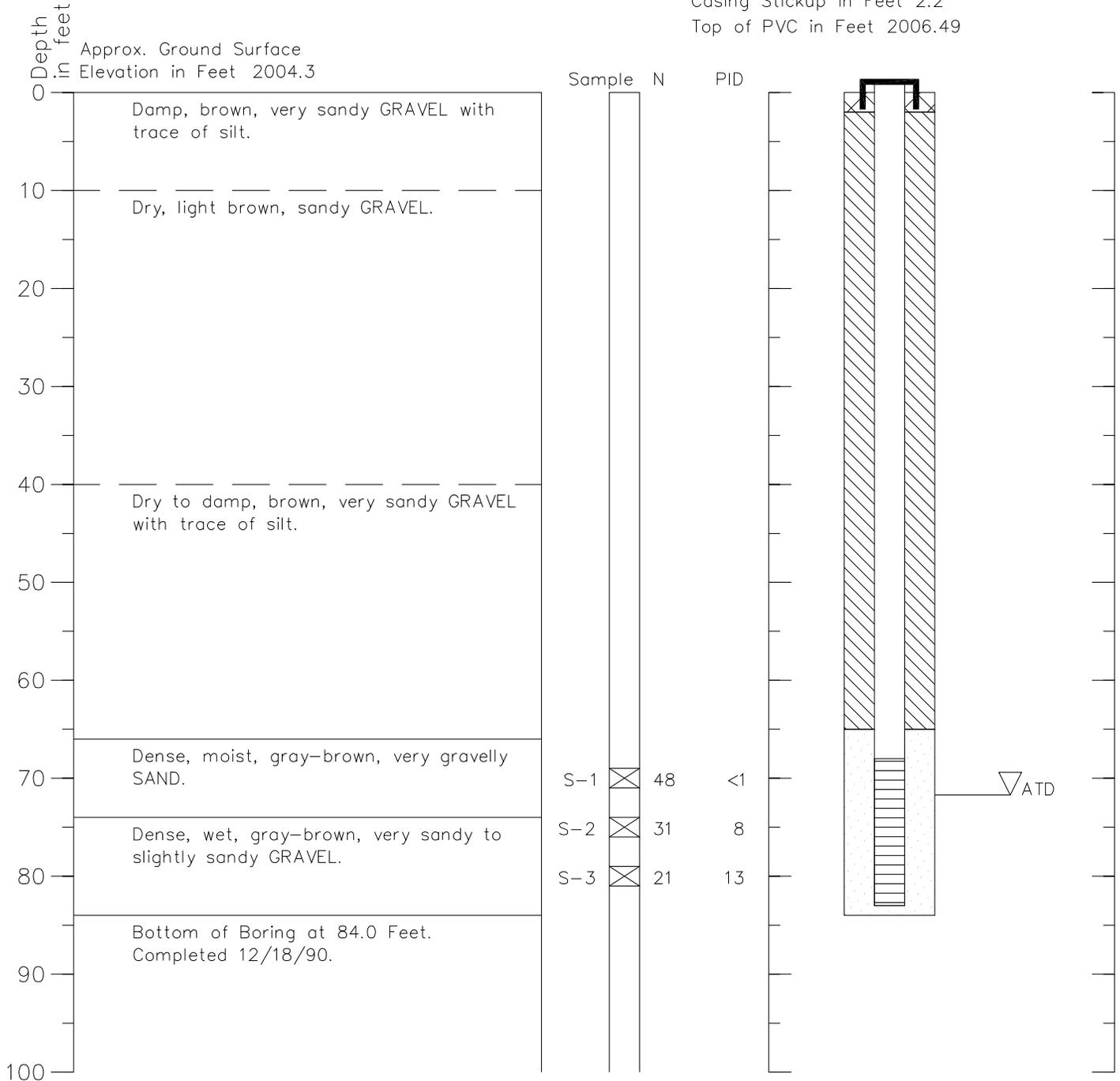
hel 4/14/03 1=1
264476 logs 25.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-13

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.2
Top of PVC in Feet 2006.49



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

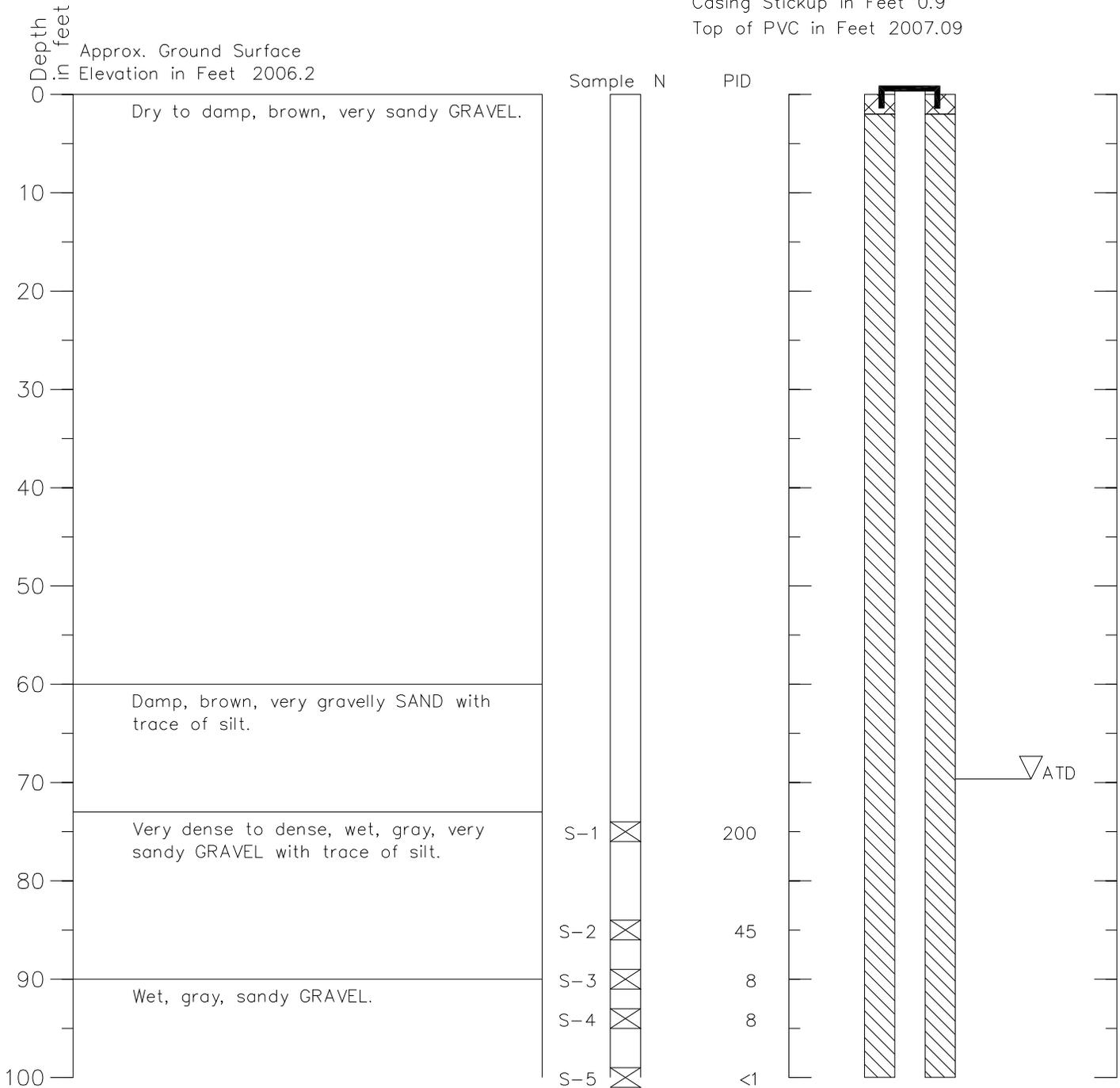
hel_4/14/03_1=1
264476_logs_26.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-14

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 0.9
 Top of PVC in Feet 2007.09



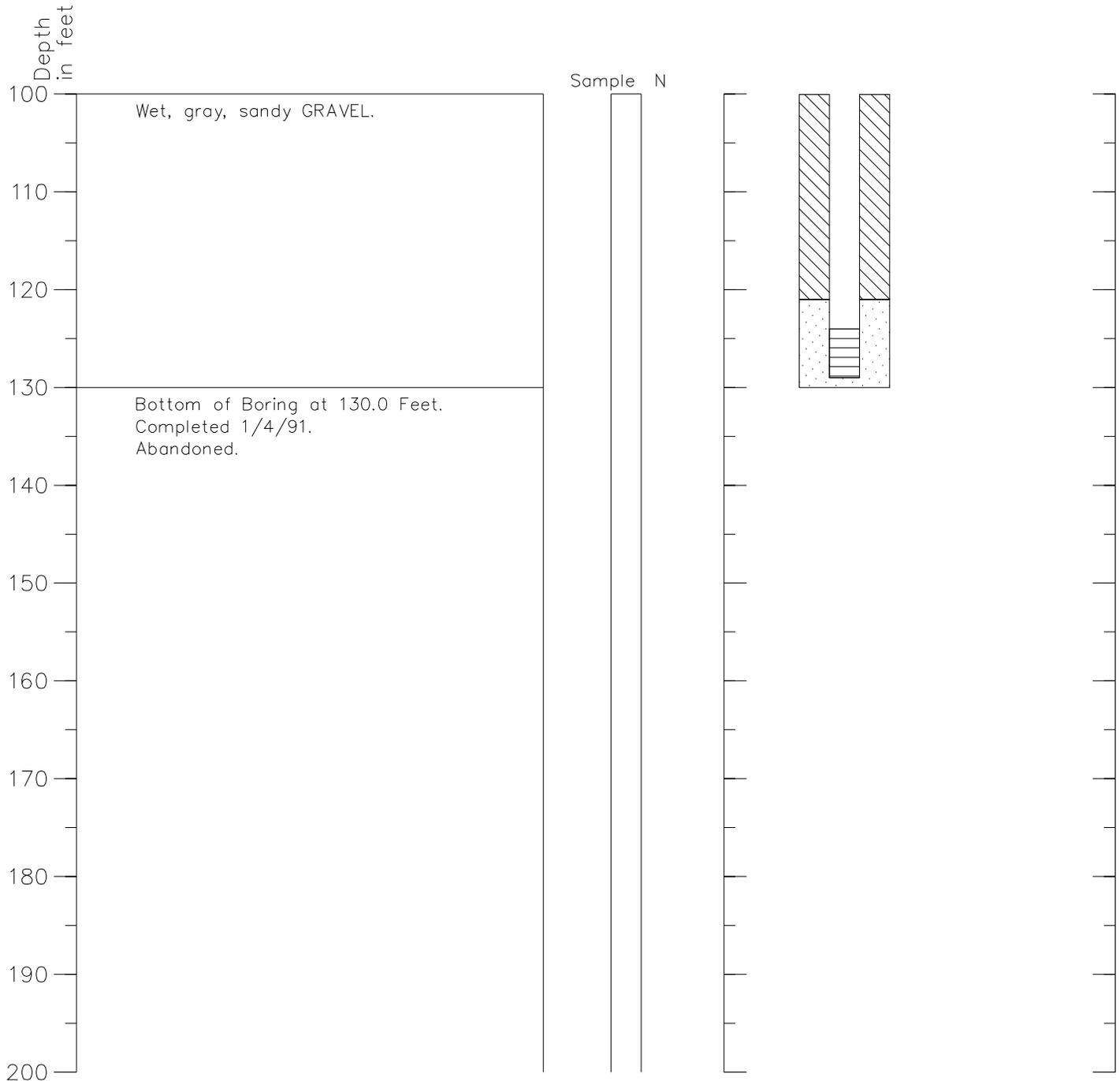
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

hel_4/14/03_1=1
 264476 logs 27.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-14

Geologic Log

Monitoring Well Design



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

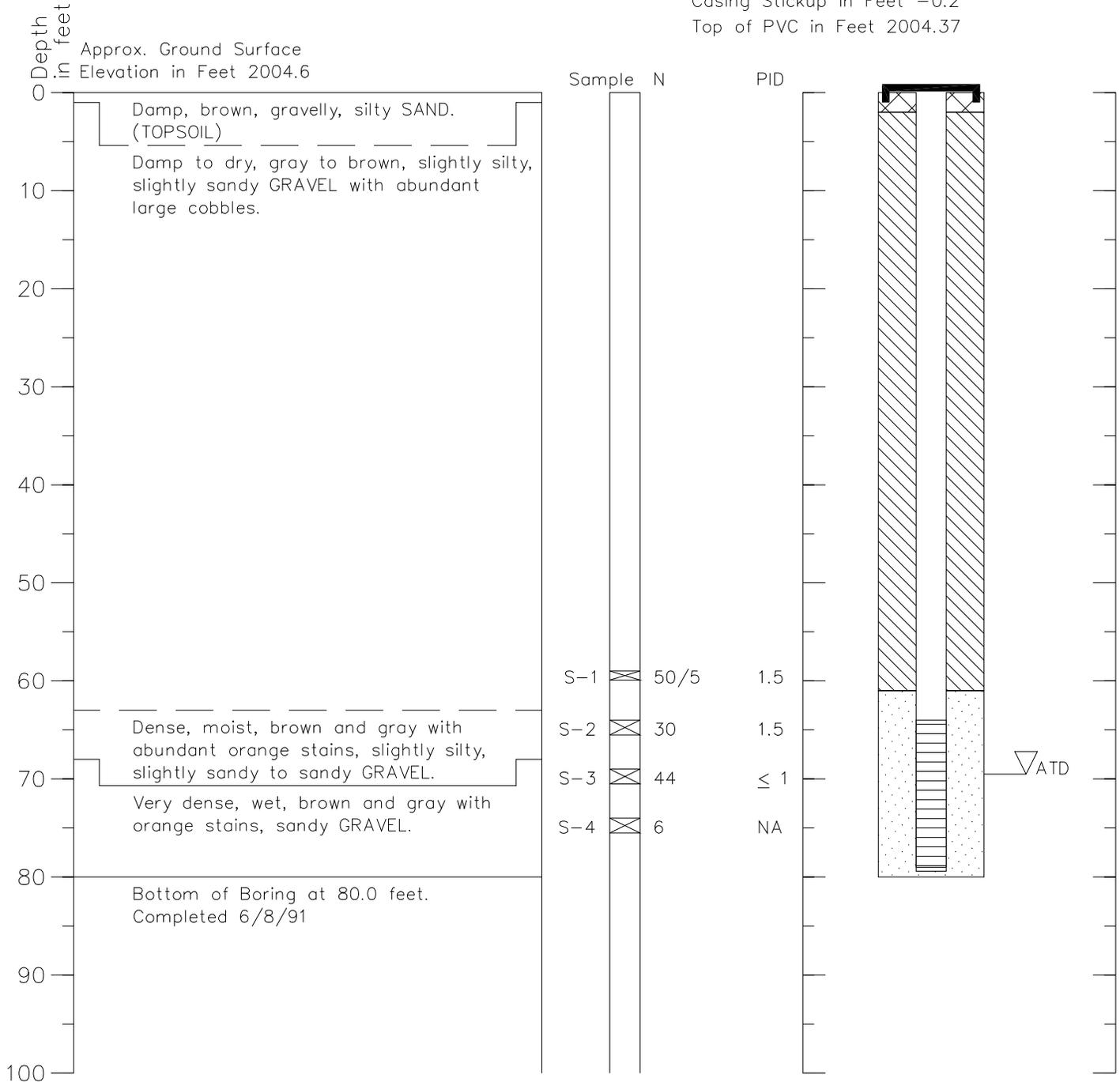
hel_4/14/03_1=1
264476_logs_27.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-15

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.2
Top of PVC in Feet 2004.37



1. Refer to Figure A-1 for explanation of descriptions and symbols.
 2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
- NA: Not analyzed due to poor sample recovery.

hel_4/14/03 1=1
264476_logs_2B.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-16

Monitoring Well Design

Geologic Log

Before 6/25/95

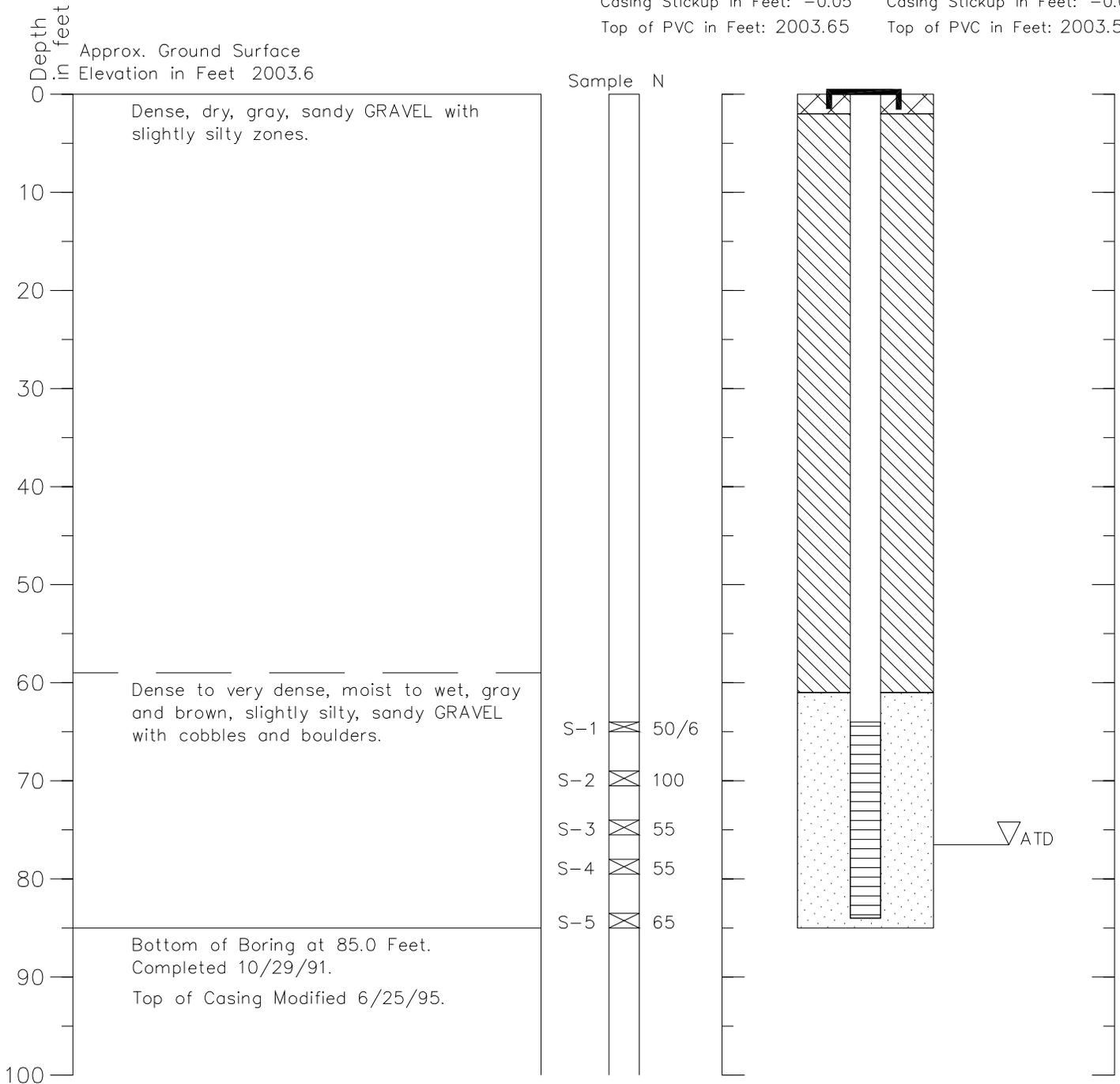
After 6/25/95

Casing Stickup in Feet: -0.05

Casing Stickup in Feet: -0.03

Top of PVC in Feet: 2003.65

Top of PVC in Feet: 2003.57



incl. 4/14/03 1=1
264476 logs 29.dwg

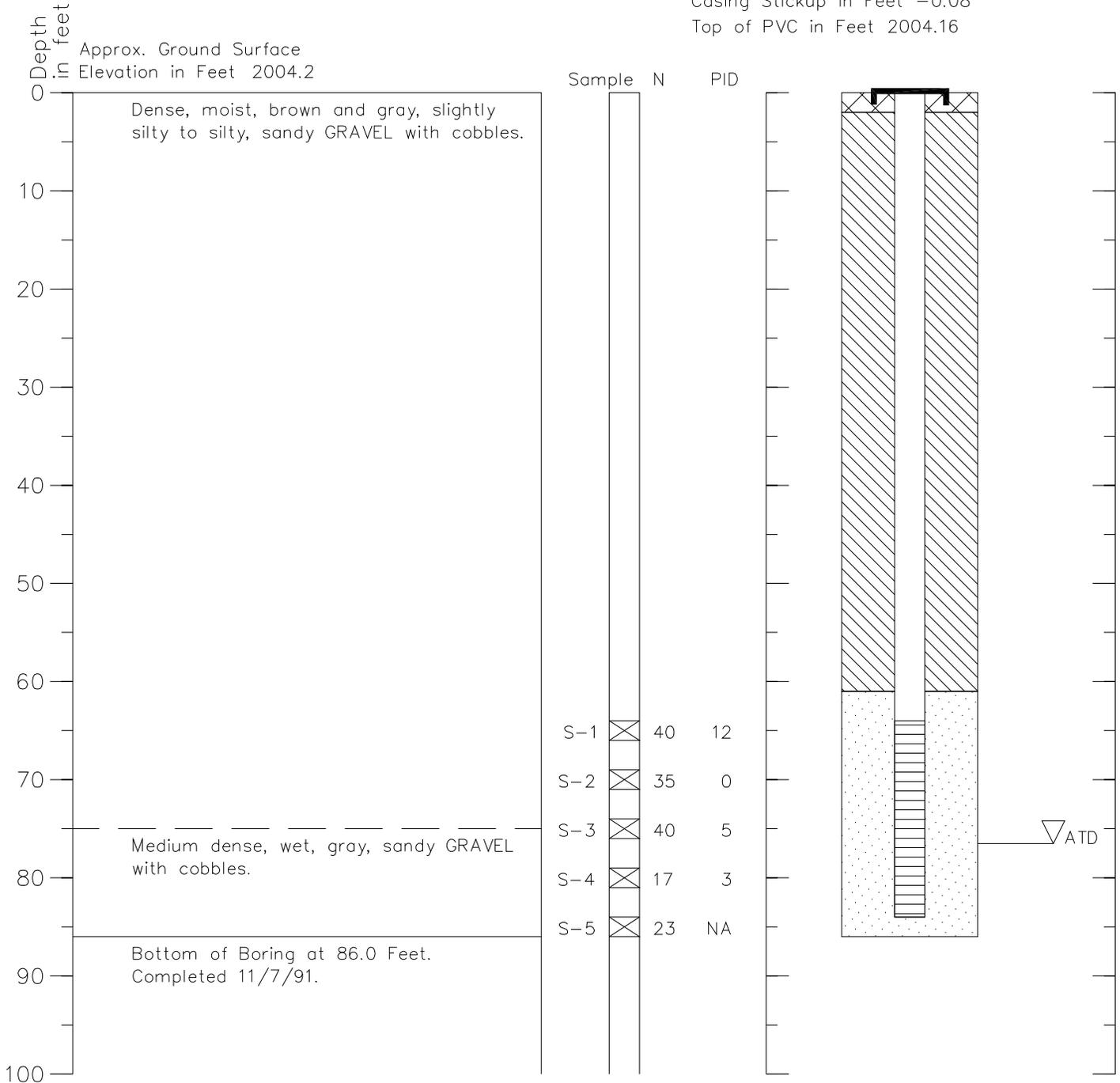
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-17

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.08
Top of PVC in Feet 2004.16



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

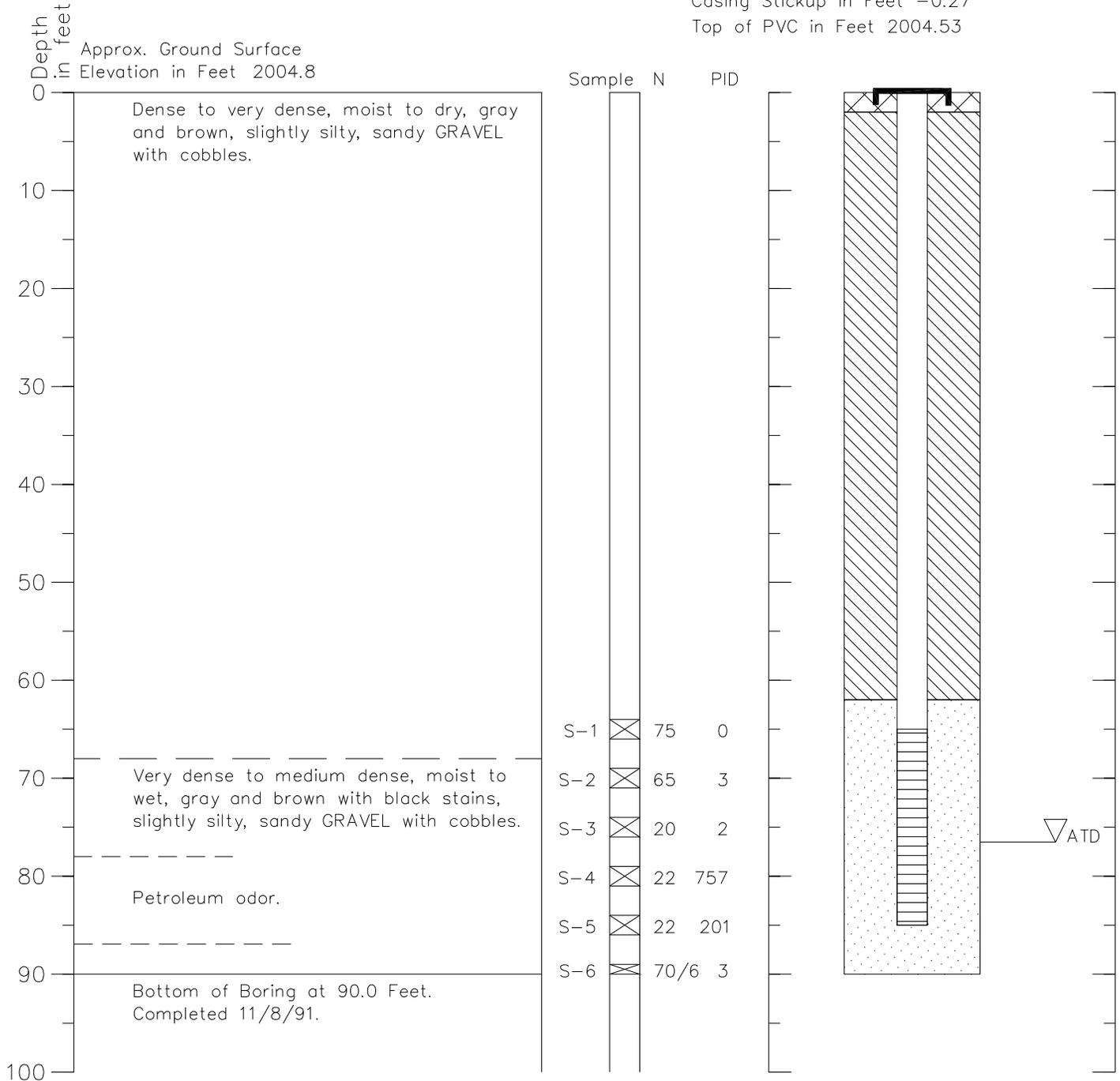
hel_4/14/03 1=1
264476 logs 30.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-18

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.27
Top of PVC in Feet 2004.53



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

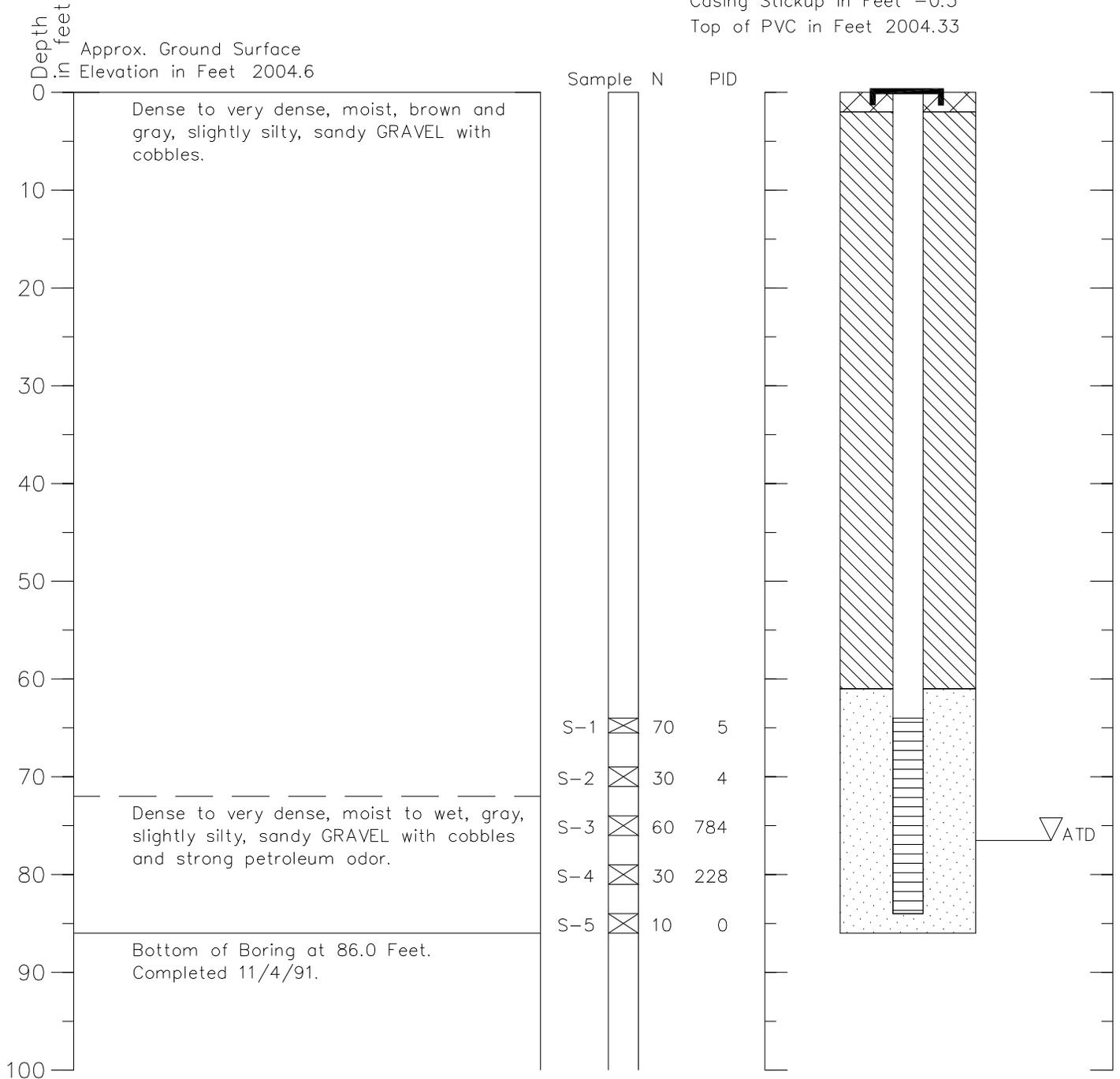
hel 4/14/03 1=1
264476 logs 31.dwg

Boring Log Construction Data for Monitoring Well OH-MW-19

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.3
Top of PVC in Feet 2004.33



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

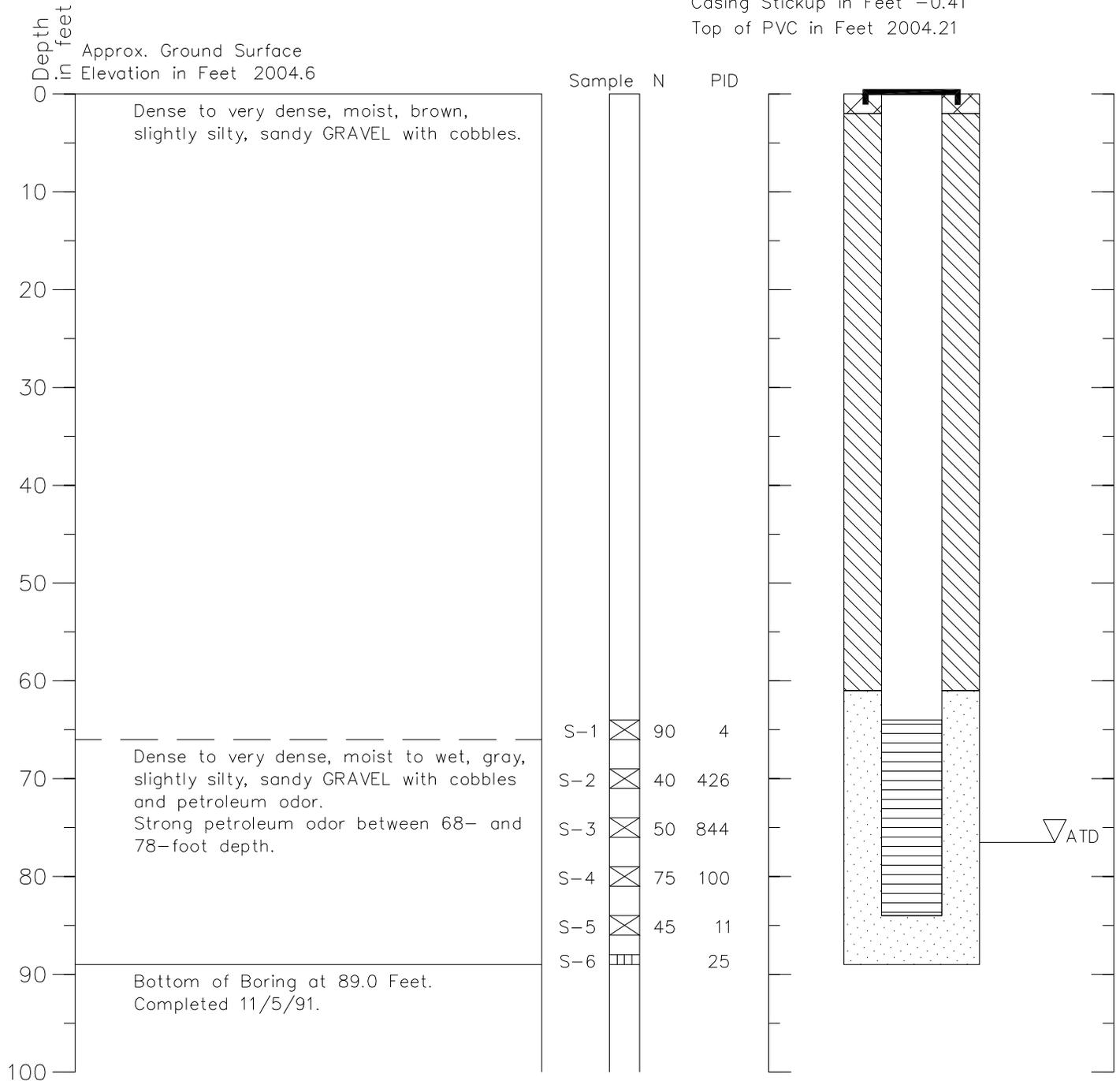
hel 4/14/03 1=1
264476 logs 32.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-20

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.41
Top of PVC in Feet 2004.21



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

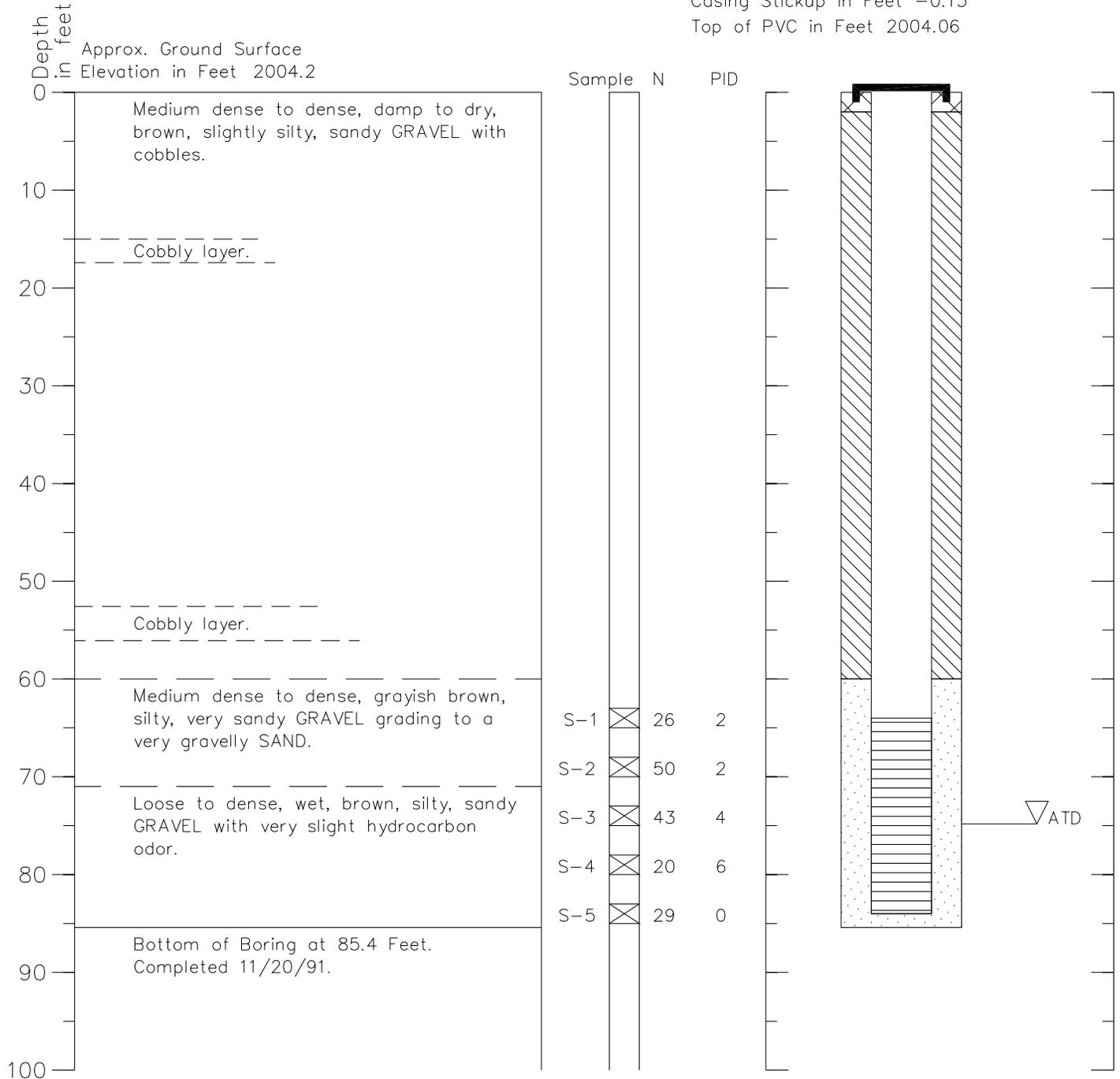
hel_4/14/03_1=1
264476 logs 33.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-21

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.13
Top of PVC in Feet 2004.06



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

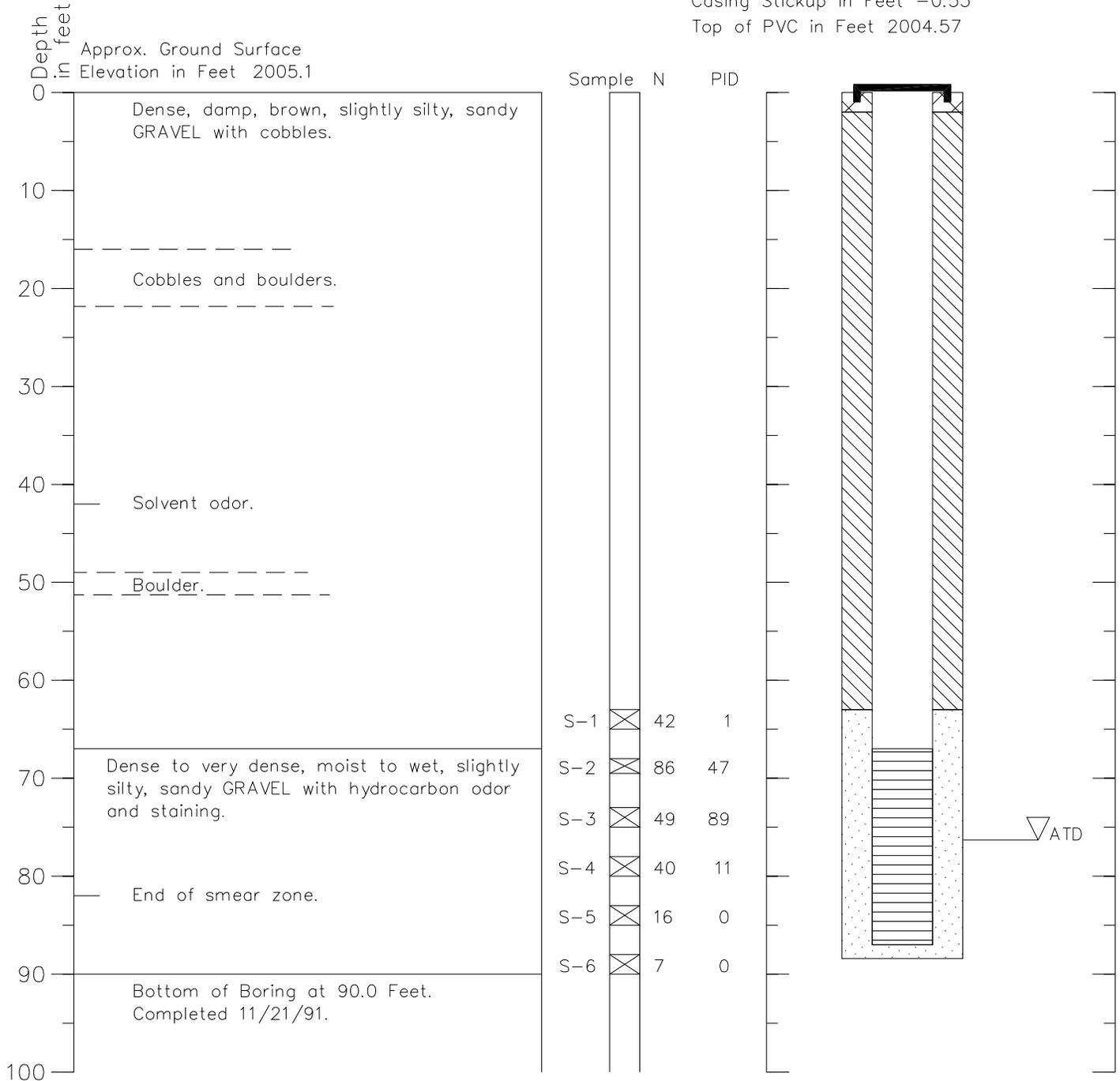
hel 4/14/03 1=1
264476 logs 34.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-22

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.53
 Top of PVC in Feet 2004.57



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

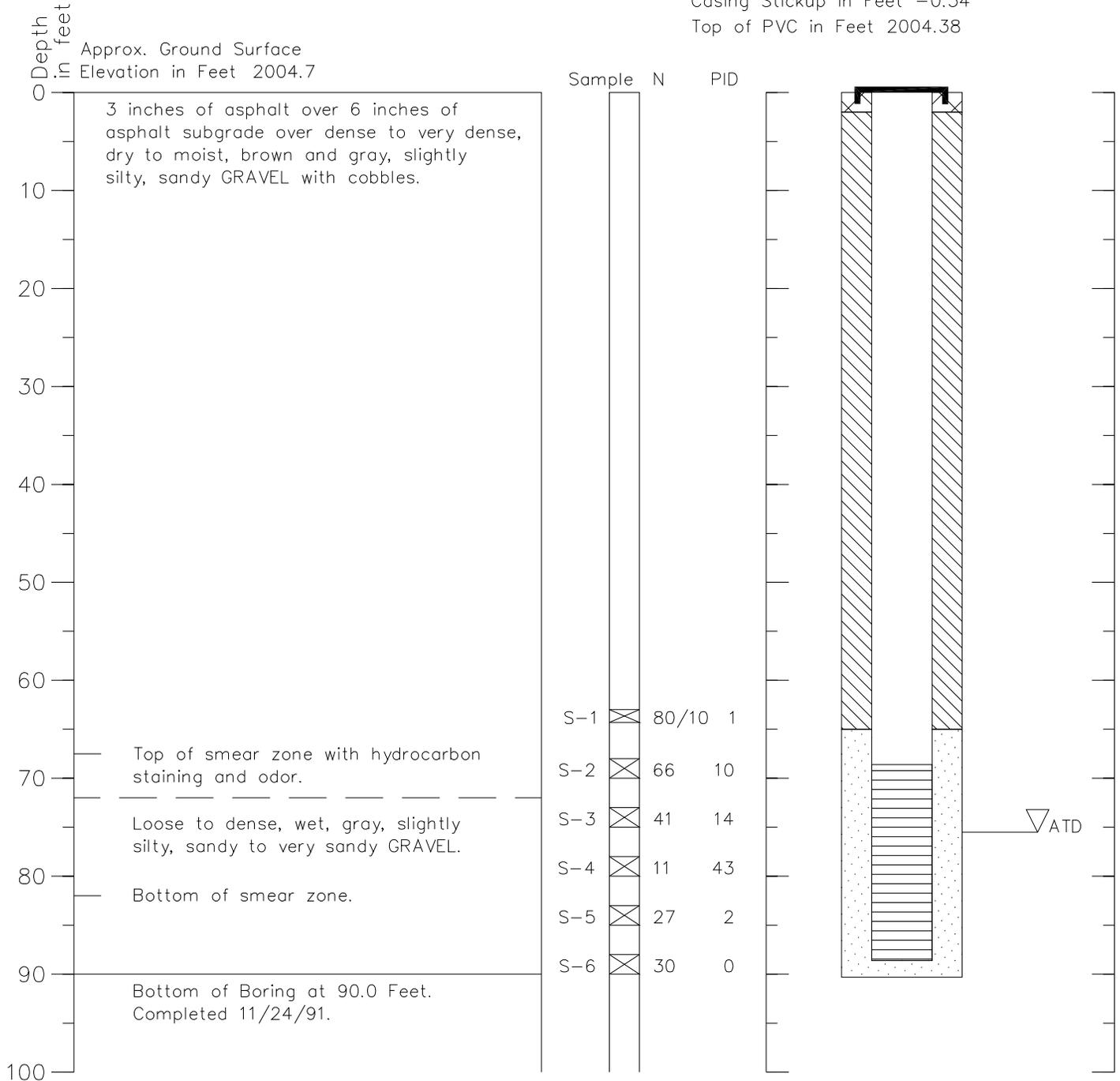
hel_4/14/03_1=1
 264476 logs 35.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-23

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.34
Top of PVC in Feet 2004.38



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

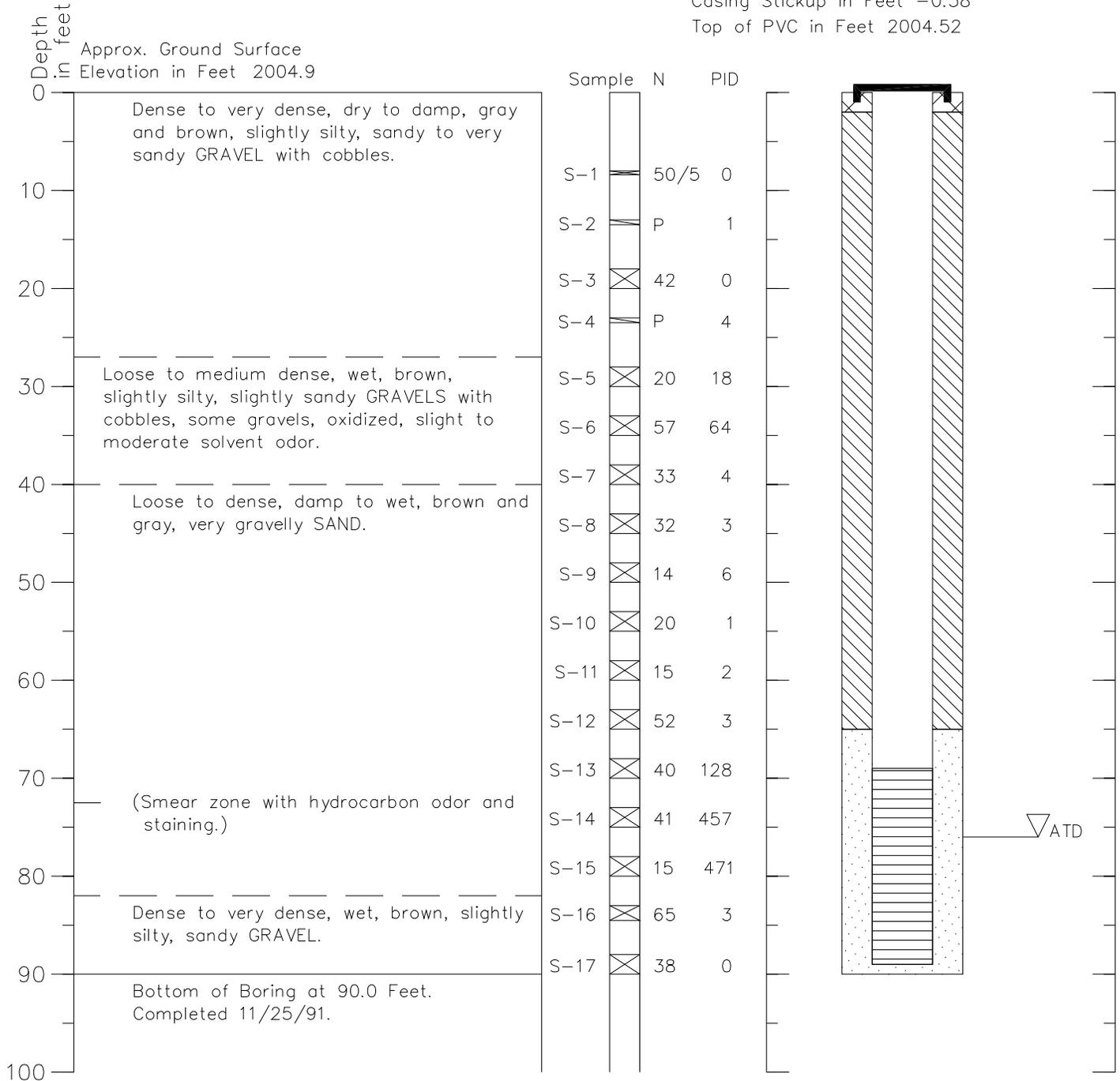
hel_4/14/03 1=1
264476 logs 36.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-24

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.38
Top of PVC in Feet 2004.52



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

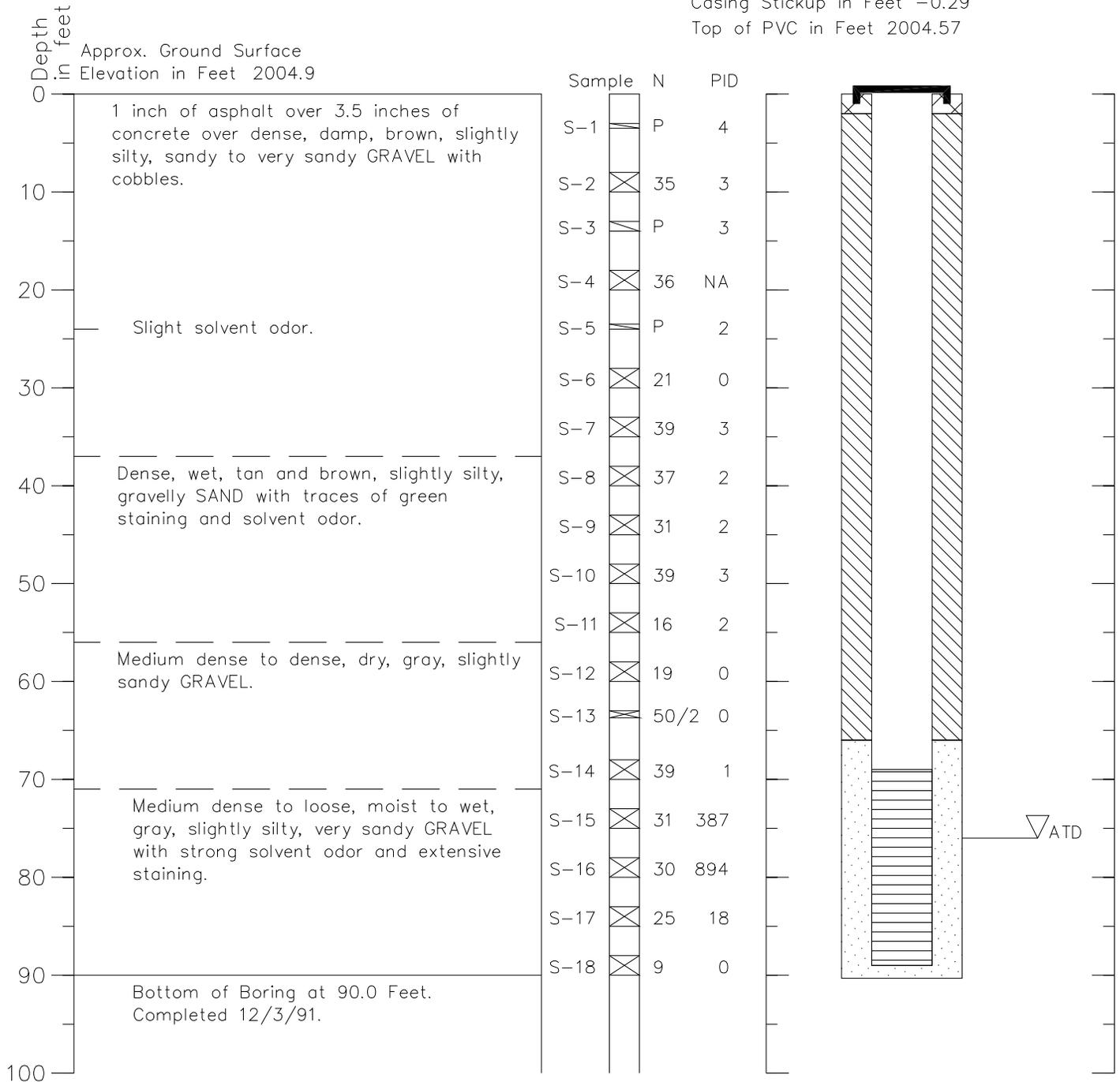
hel 4/14/03 1=1
264476 logs 37.dwg

Boring Log and Construction Data for Monitoring Well OH-MW-25

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.29
Top of PVC in Feet 2004.57

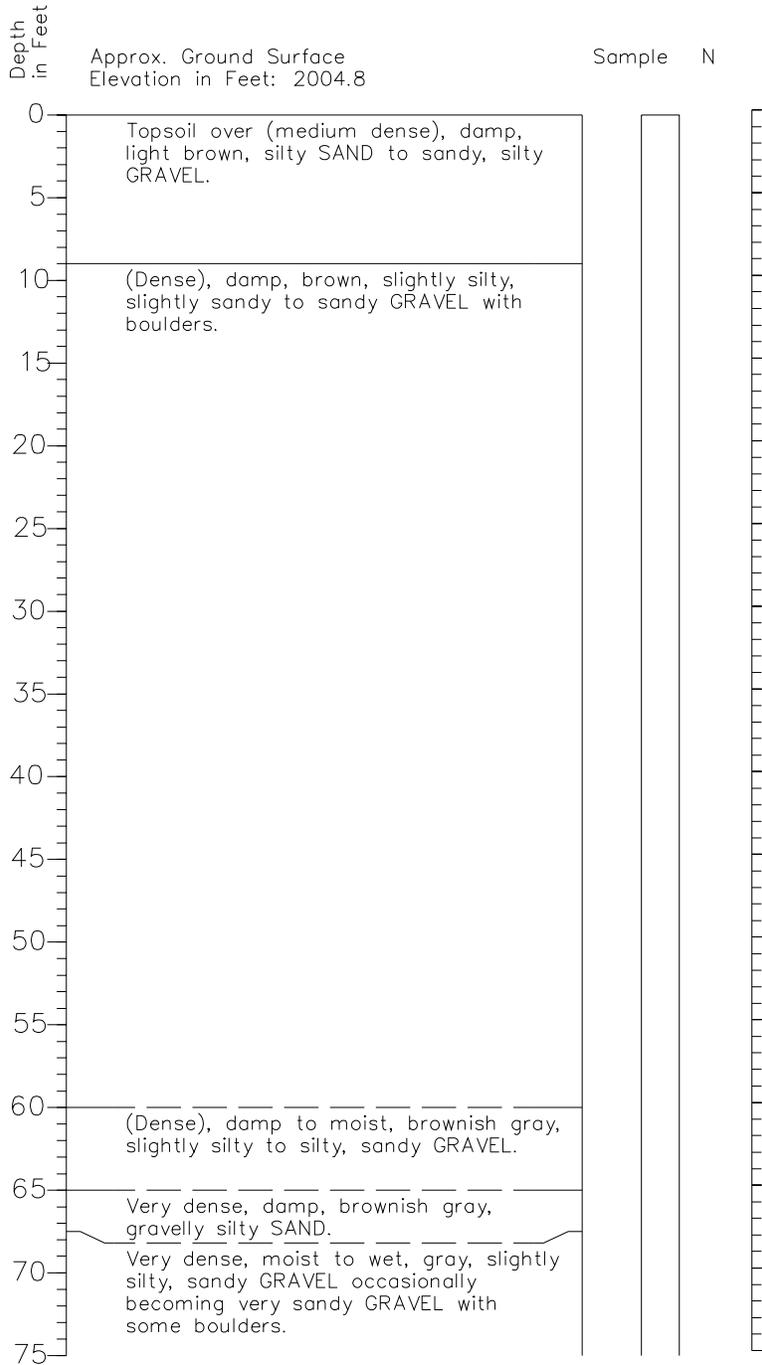


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

hel_4/14/03 1=1
264476 logs_38.dwg

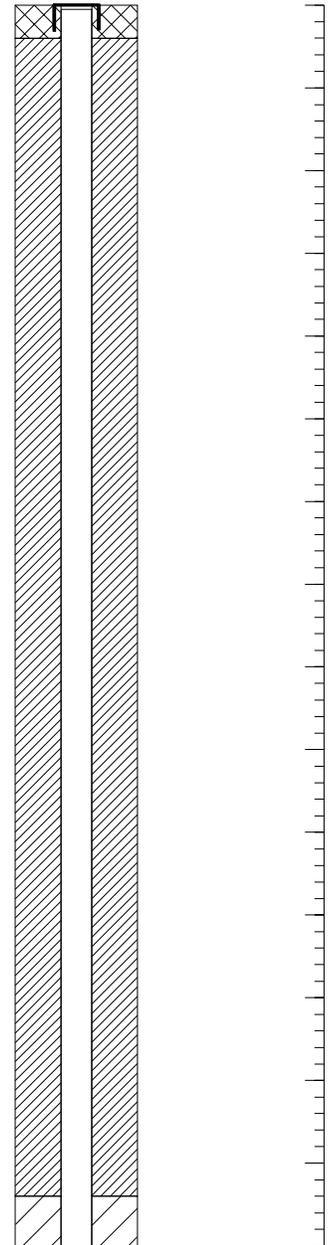
Boring Log and Construction Data for Monitoring Well OH-MW-26

Geologic Log



Well Design

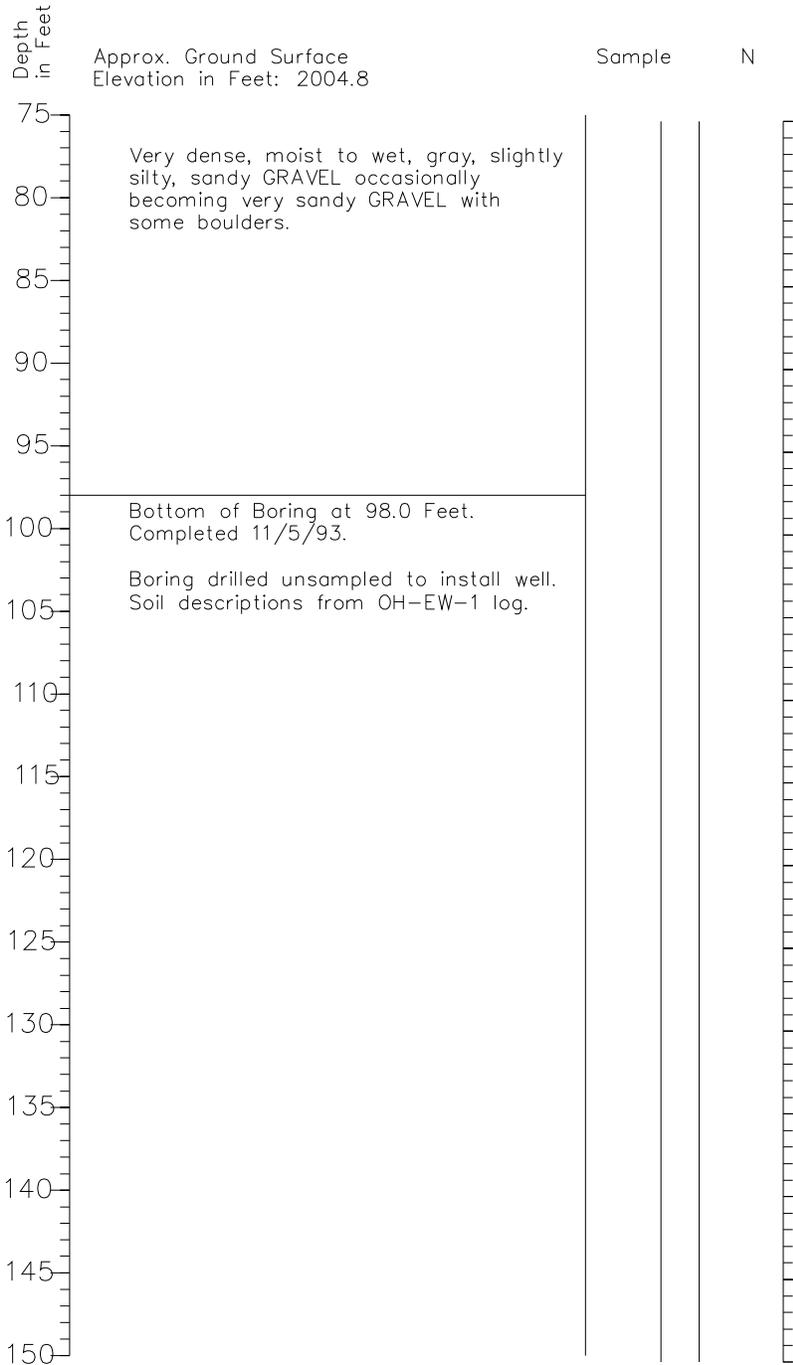
Casing Stickup in Feet: -0.3
 Top of Casing in Feet: 2004.5



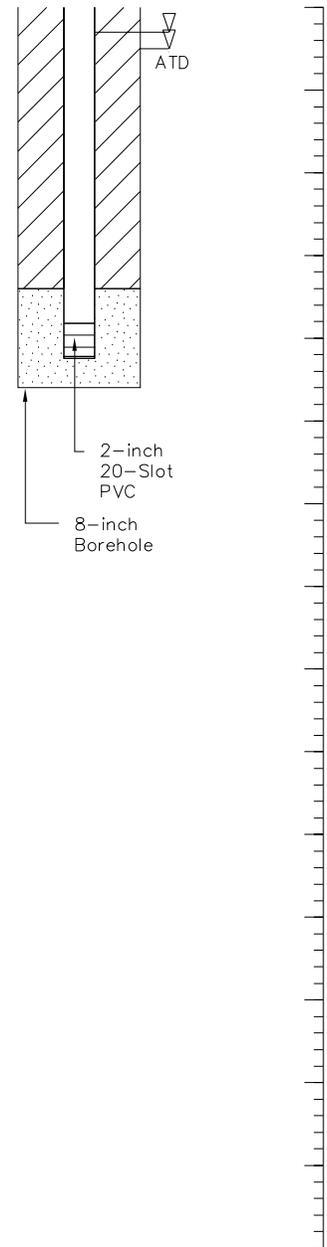
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-26

Geologic Log



Well Design



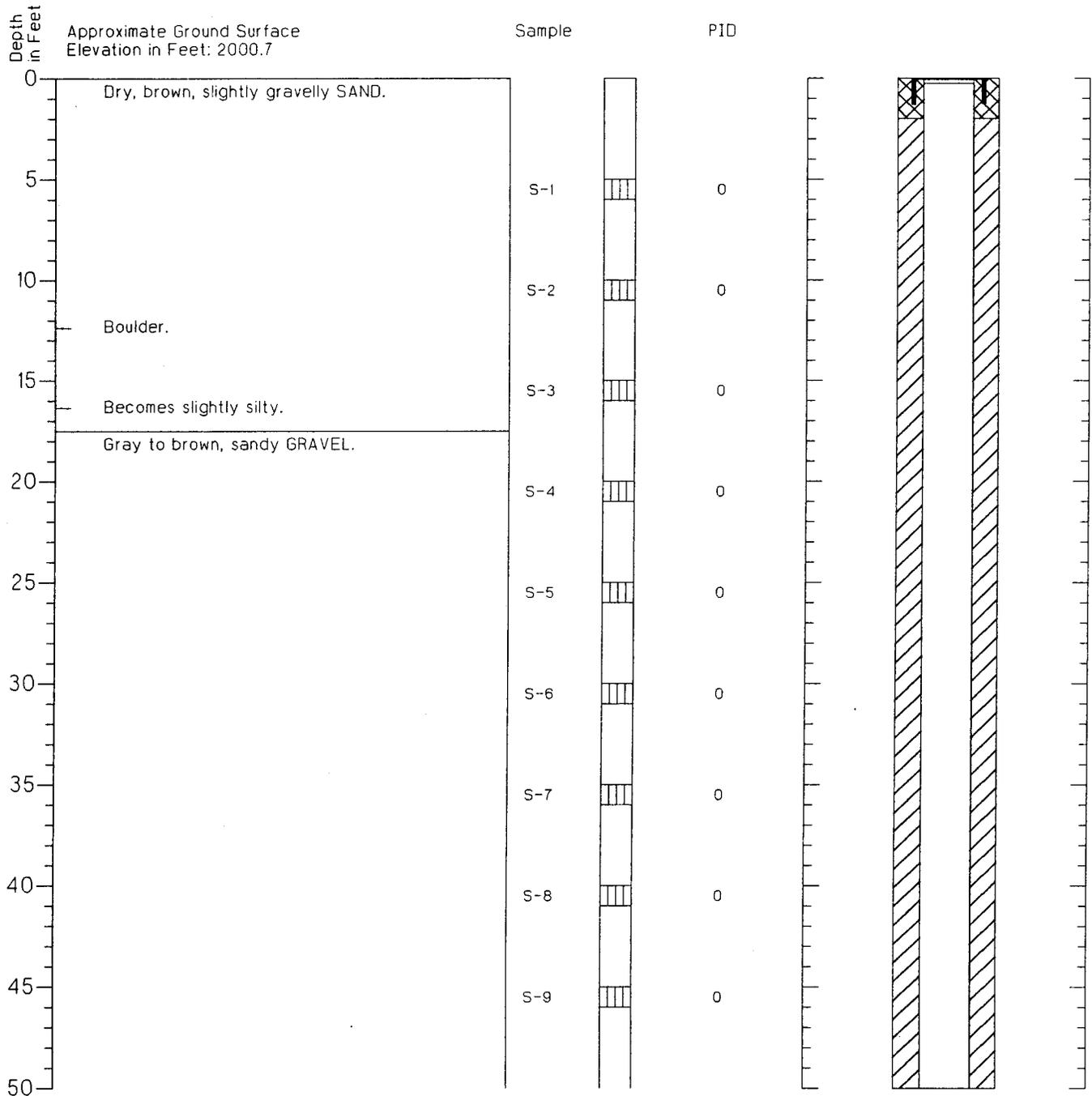
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-27

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: -.26
Top of PVC in Feet 2000.48



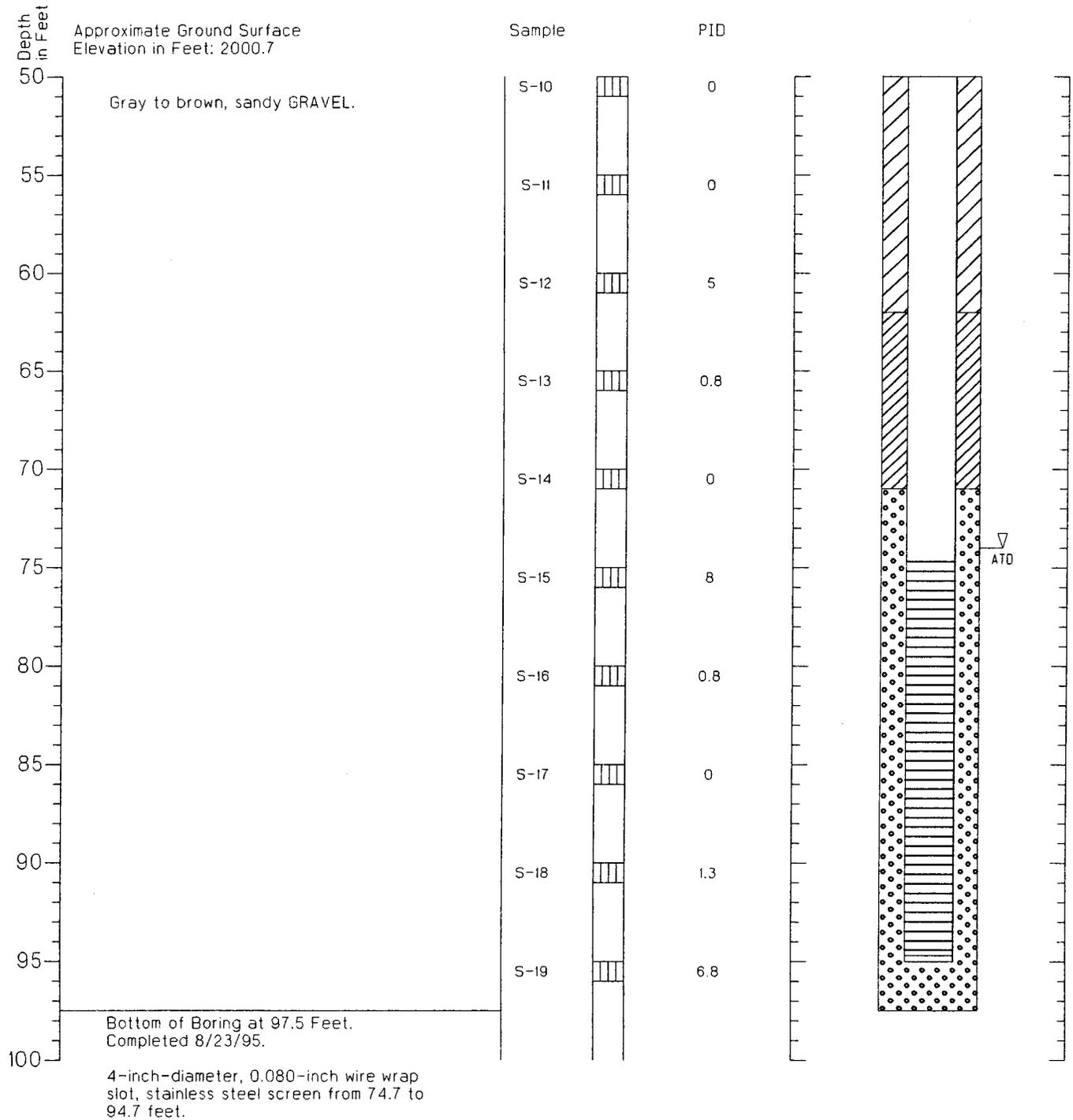
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-27

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: -.26
Top of PVC in Feet: 2000.48



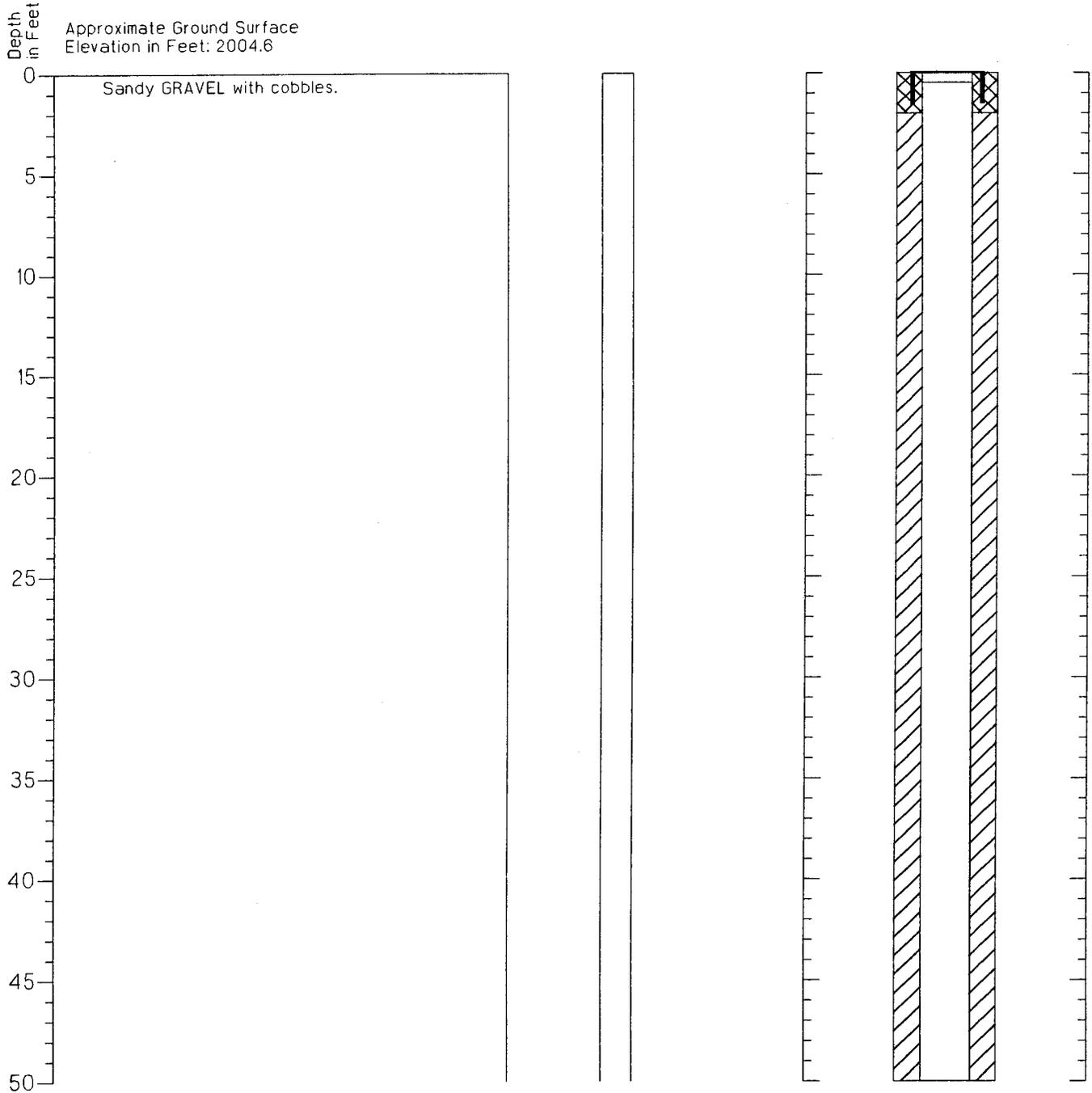
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-28

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: -0.5
Top of PVC in Feet: 2004.11



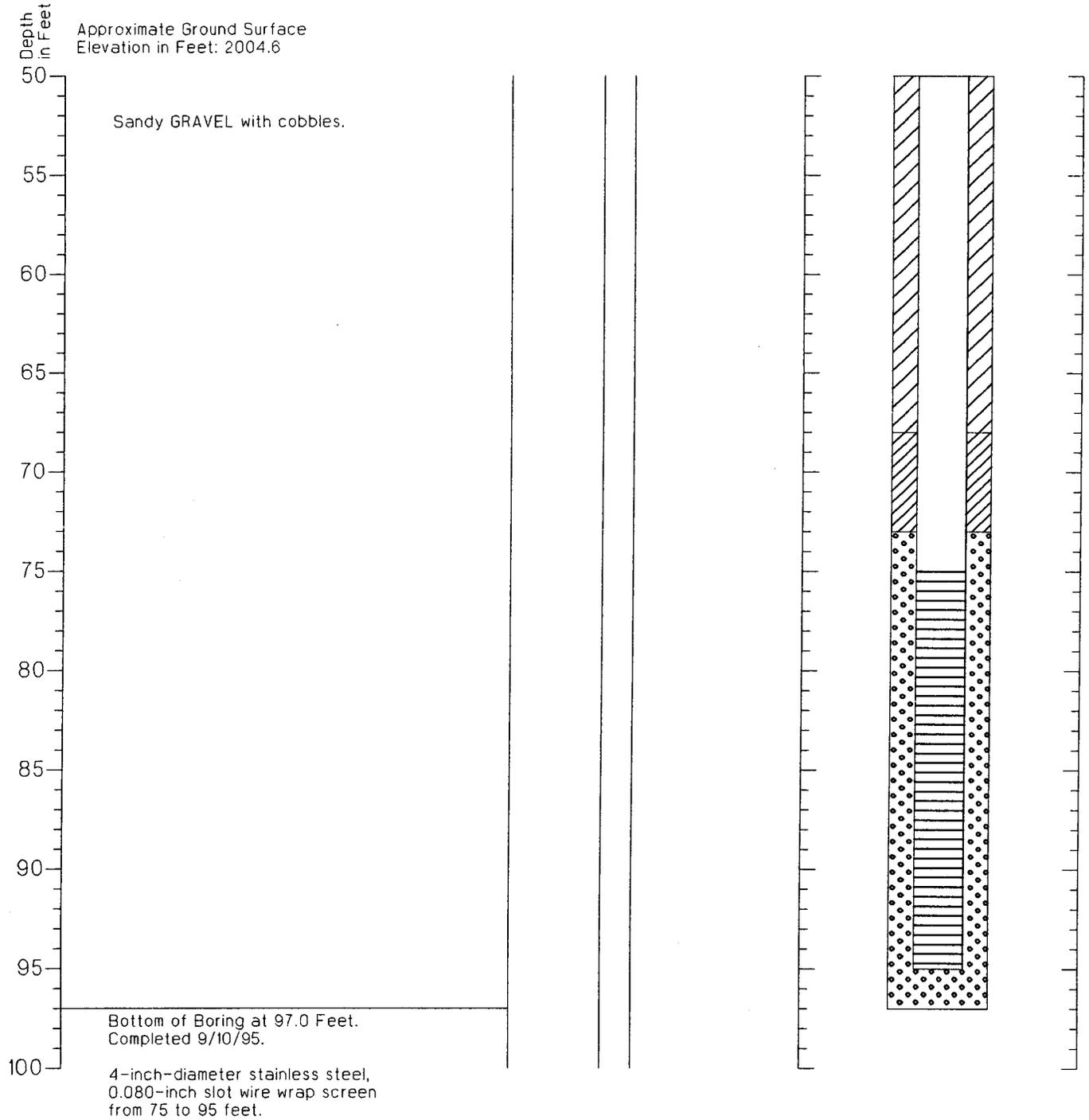
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well OH-MW-28

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: -0.5
Top of PVC in Feet 2004.11



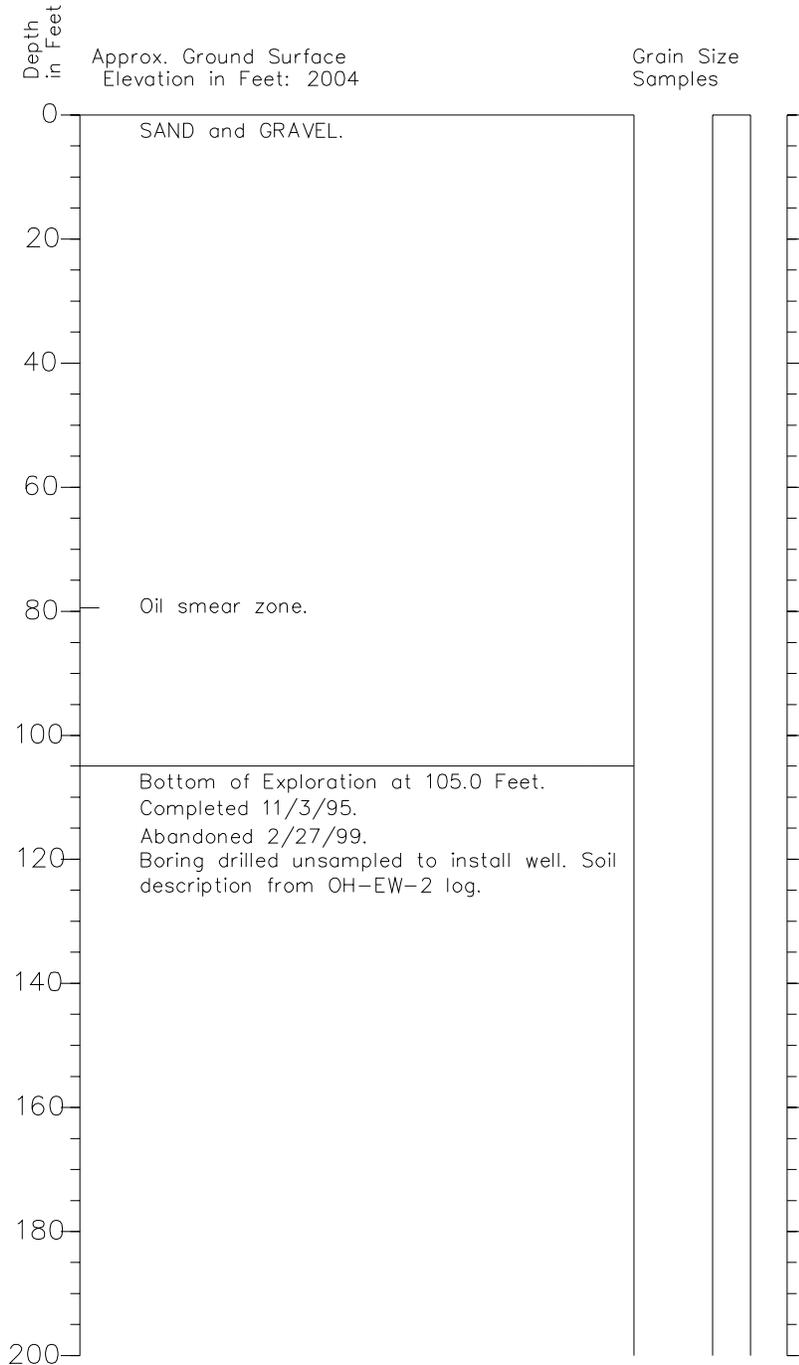
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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J-2644-58 9/95
Figure A-74 2/2

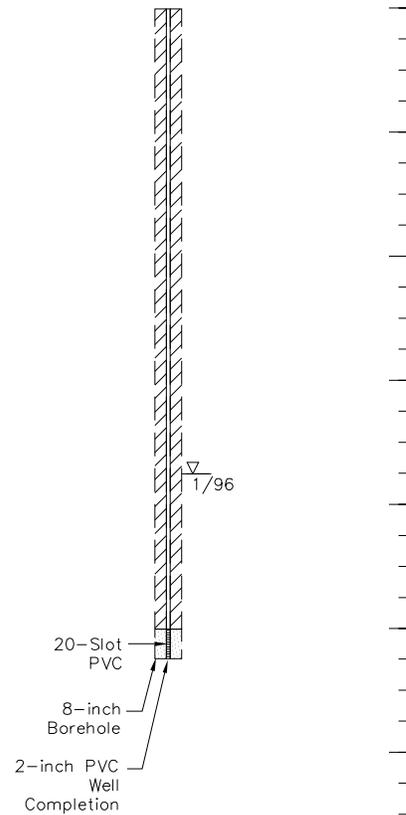
Boring Log and Construction Data for Monitoring Well OH-MW-29

Geologic Log



Well Design

Casing Stickup in Feet: -0.95
 Top of Casing in Feet: 2004.95

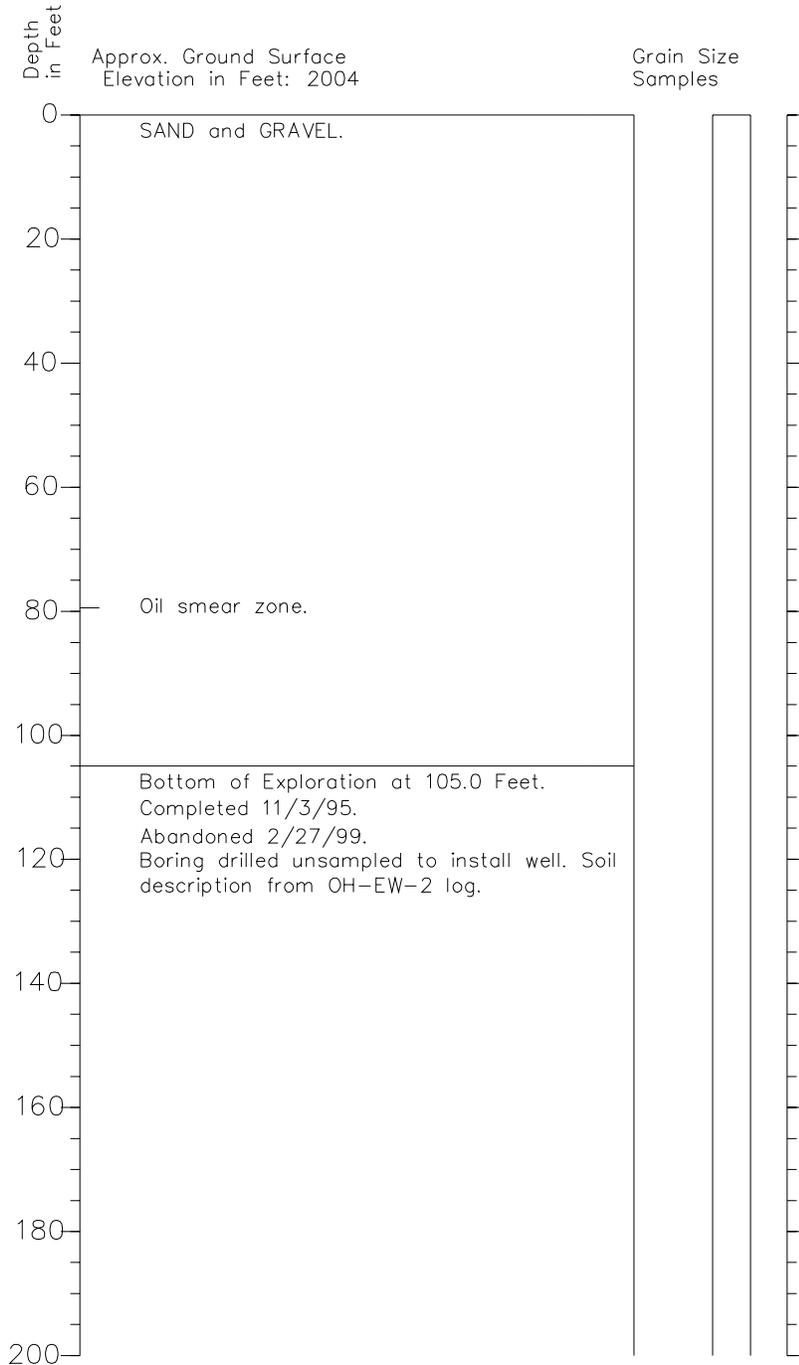


hel_4/14/03=1
 264476 logs 40.dwg

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

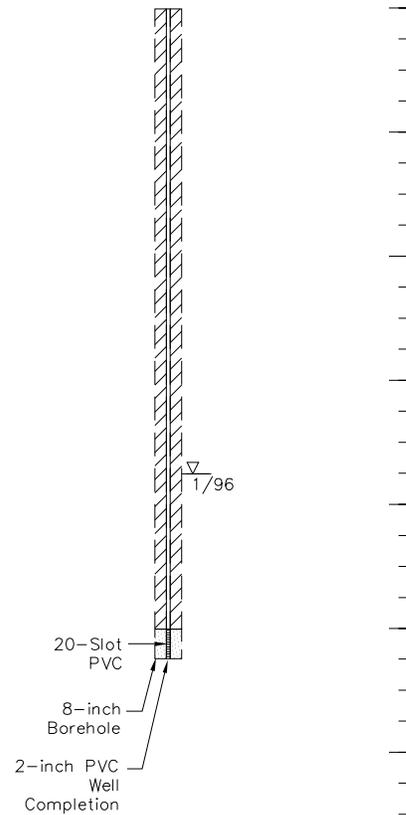
Boring Log and Construction Data for Monitoring Well OH-MW-29

Geologic Log



Well Design

Casing Stickup in Feet: -0.95
 Top of Casing in Feet: 2004.95

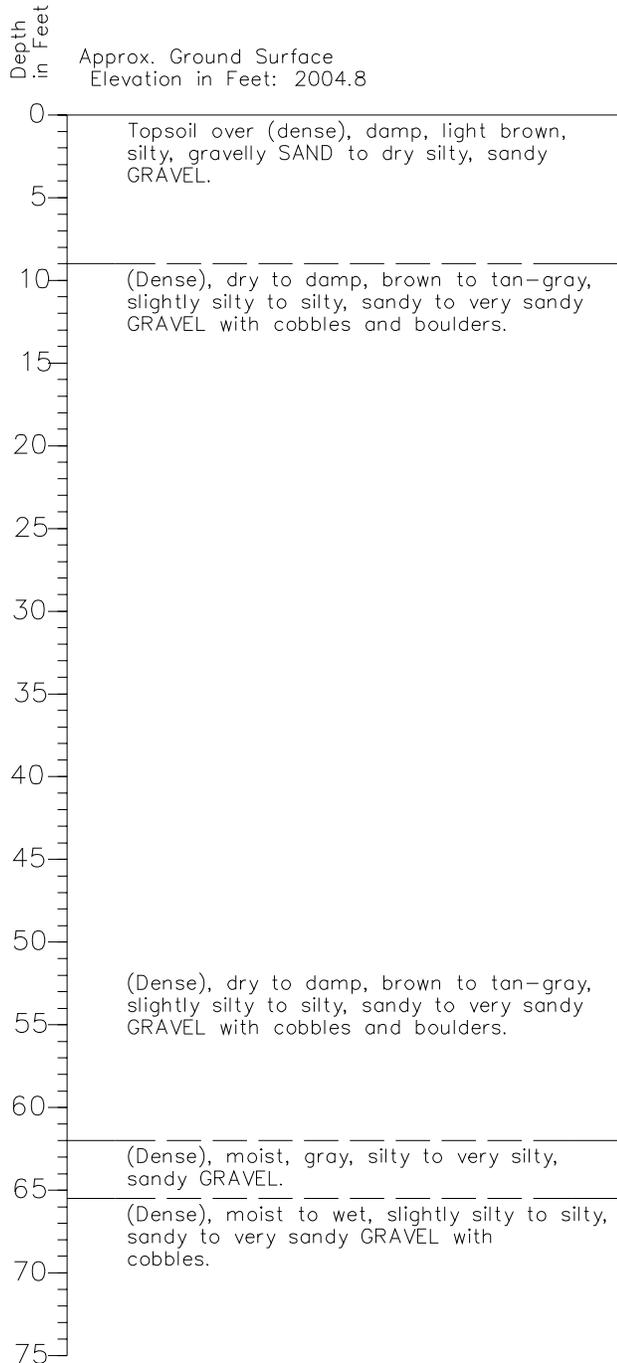


hel_4/14/03=1
 264476 logs 40.dwg

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

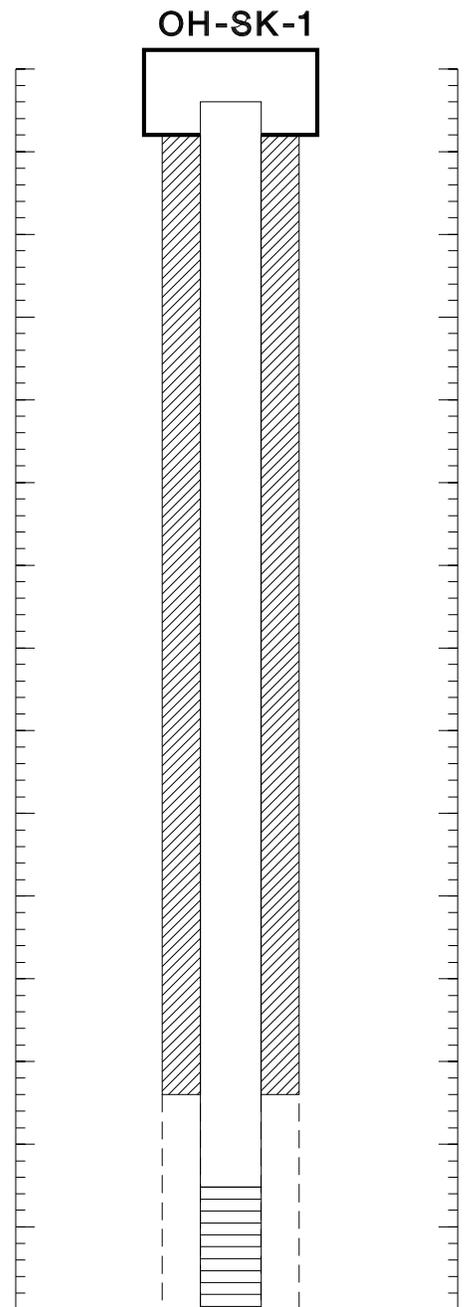
Boring Log and Construction Data for Skimming Well OH-SK-1 (formerly OH-SK-A)

Geologic Log



Well Design

Casing Stickup in Feet: -1.79
Top of Steel in Feet: 2003.01



hel_4/14/03=1
264476 logs 41.dwg

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

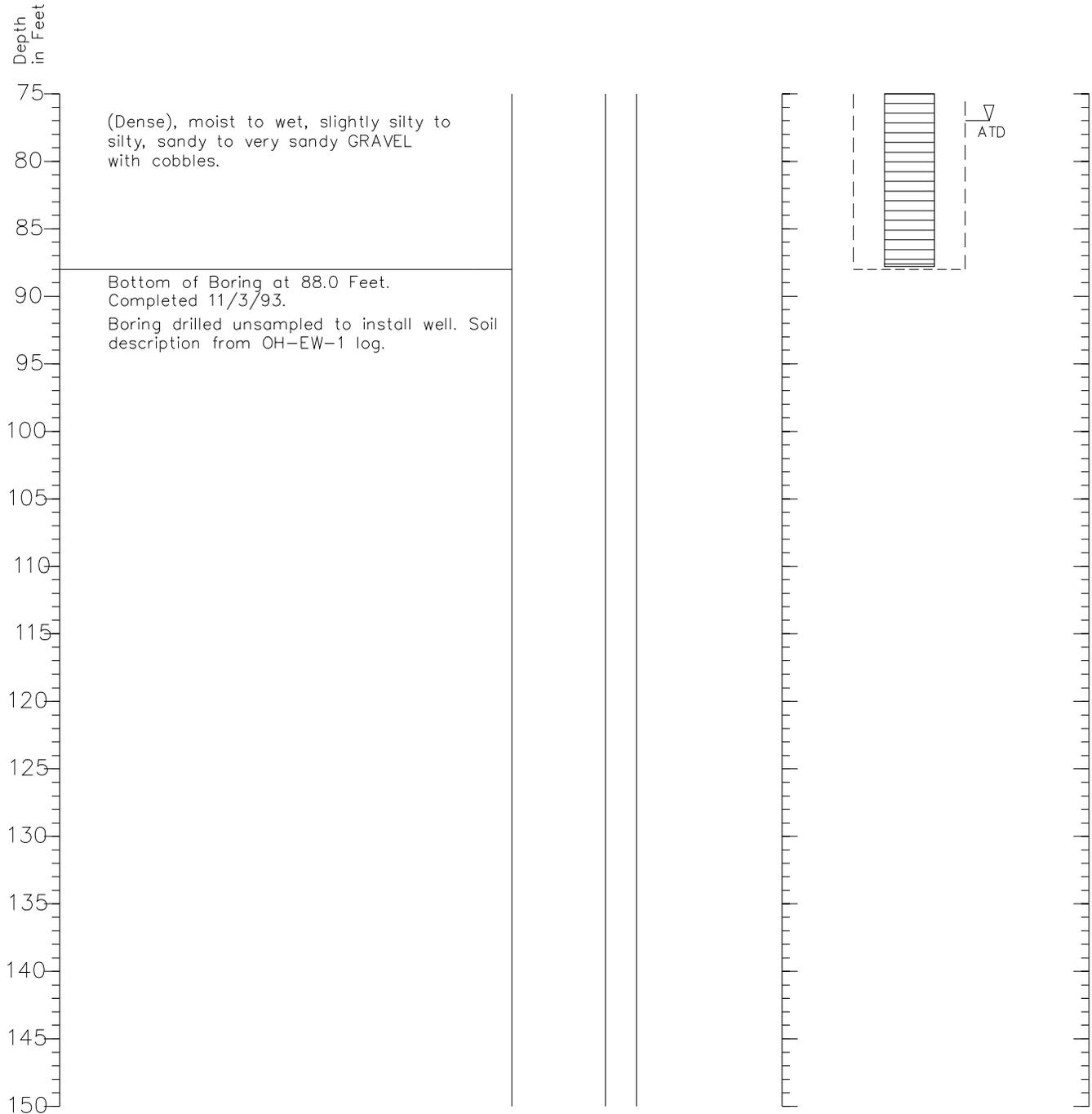
HARTCROWSER

J-2644-58 11/93
Figure A-76 1/2

Boring Log and Construction Data for Skimming Well OH-SK-1 (Formerly OH-SK-A)

Geologic Log

Well Design



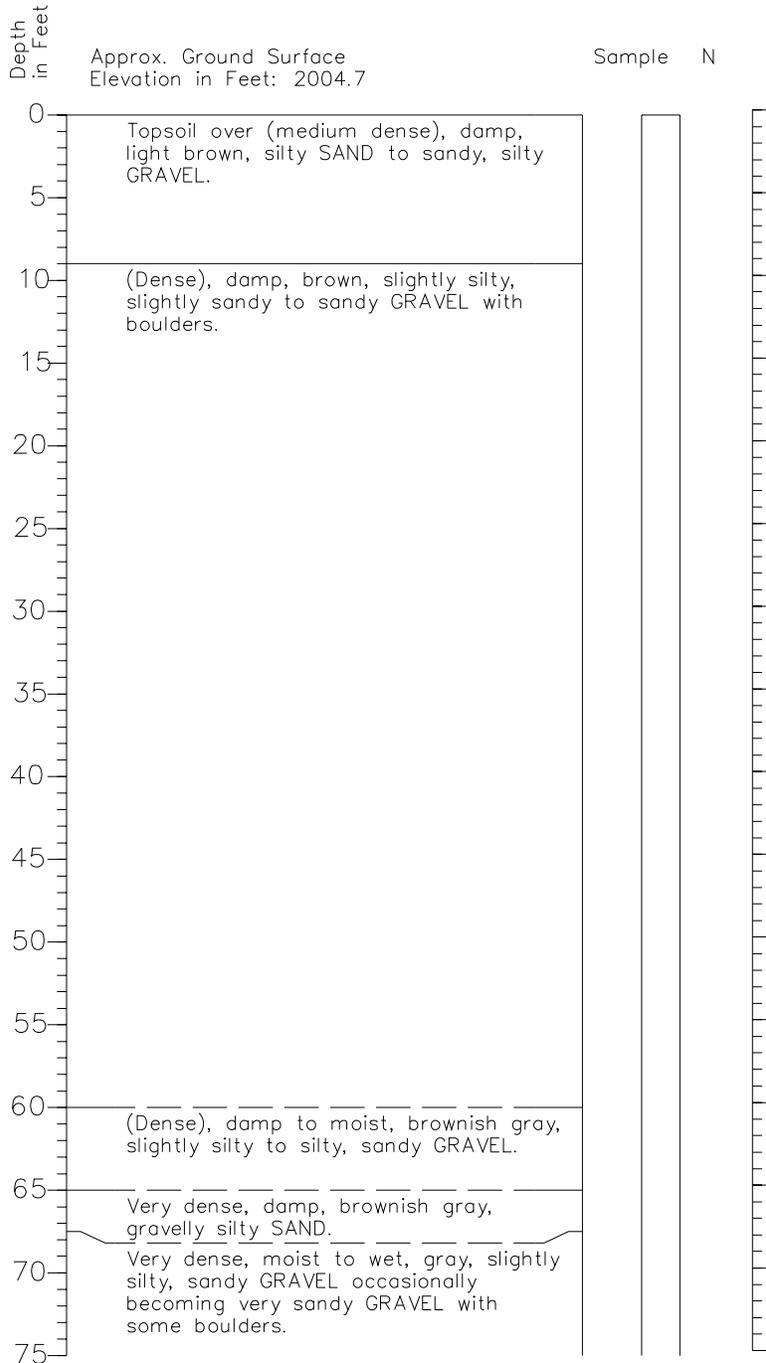
hel_4/14/03=1
264476 logs 41.dwg

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

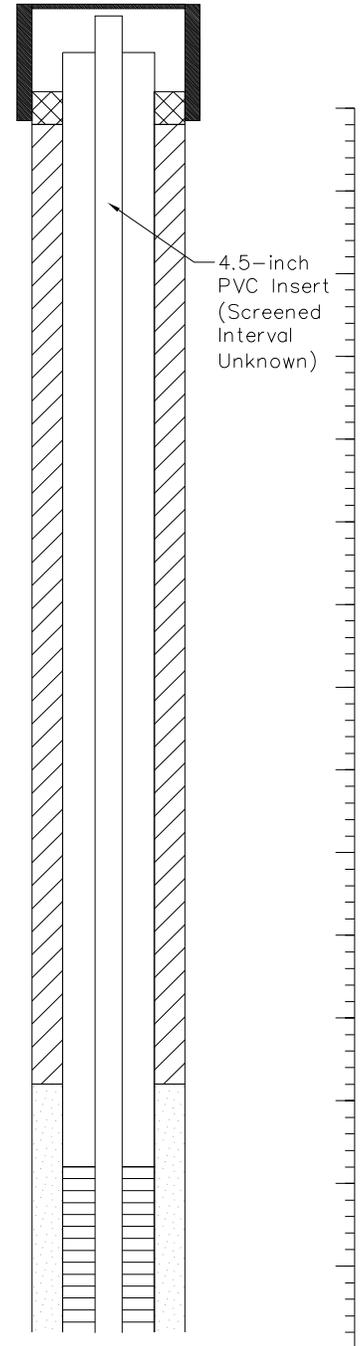
Boring Log and Construction Data for Skimming Well OH-SK-2 (Formerly OH-SK-B)

Well Design

Geologic Log



Casing Stickup in Feet: 2.02
 Top of Casing in Feet: 2006.72
 Top of PVC Casing in Feet: 2007.94



HEL 4/14/03 1=1
 264476 logs 42.dwg

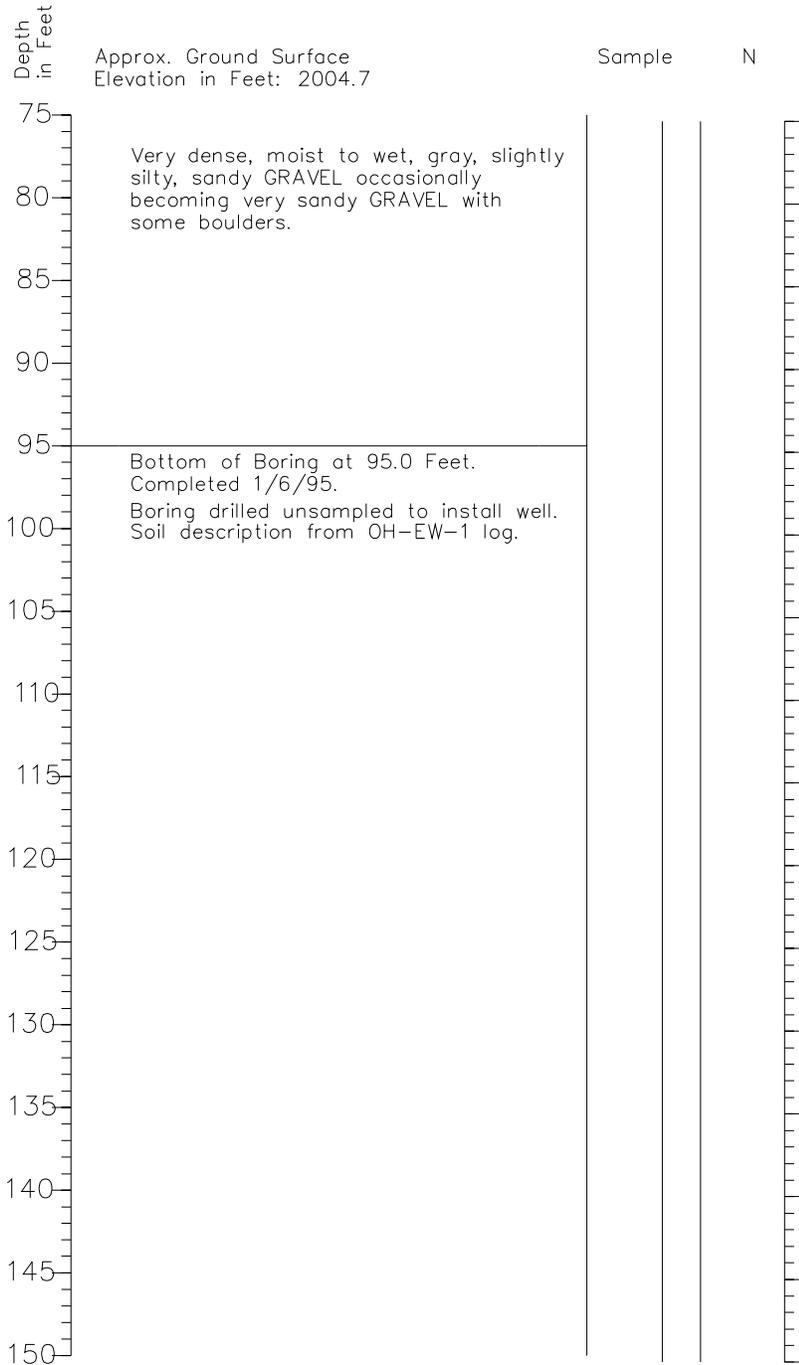
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



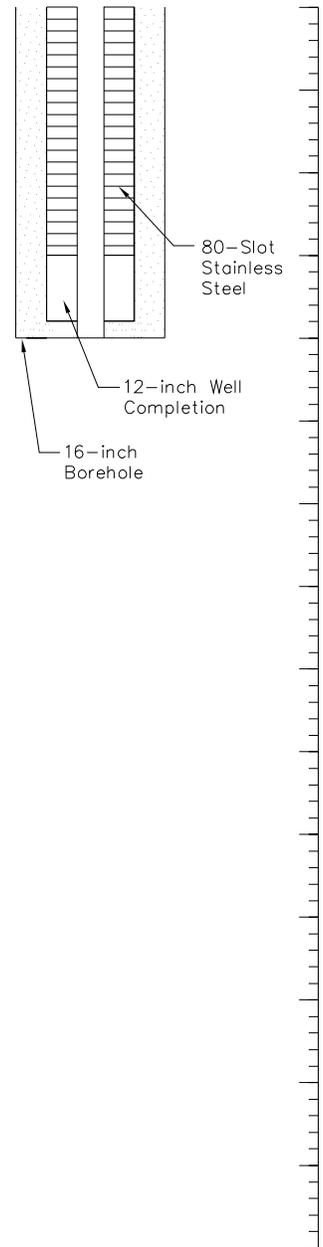
J-2644-58 1/95
Figure A-77 1/2

Boring Log and Construction Data for Skimming Well OH-SK-2 (Formerly OH-SK-B)

Geologic Log

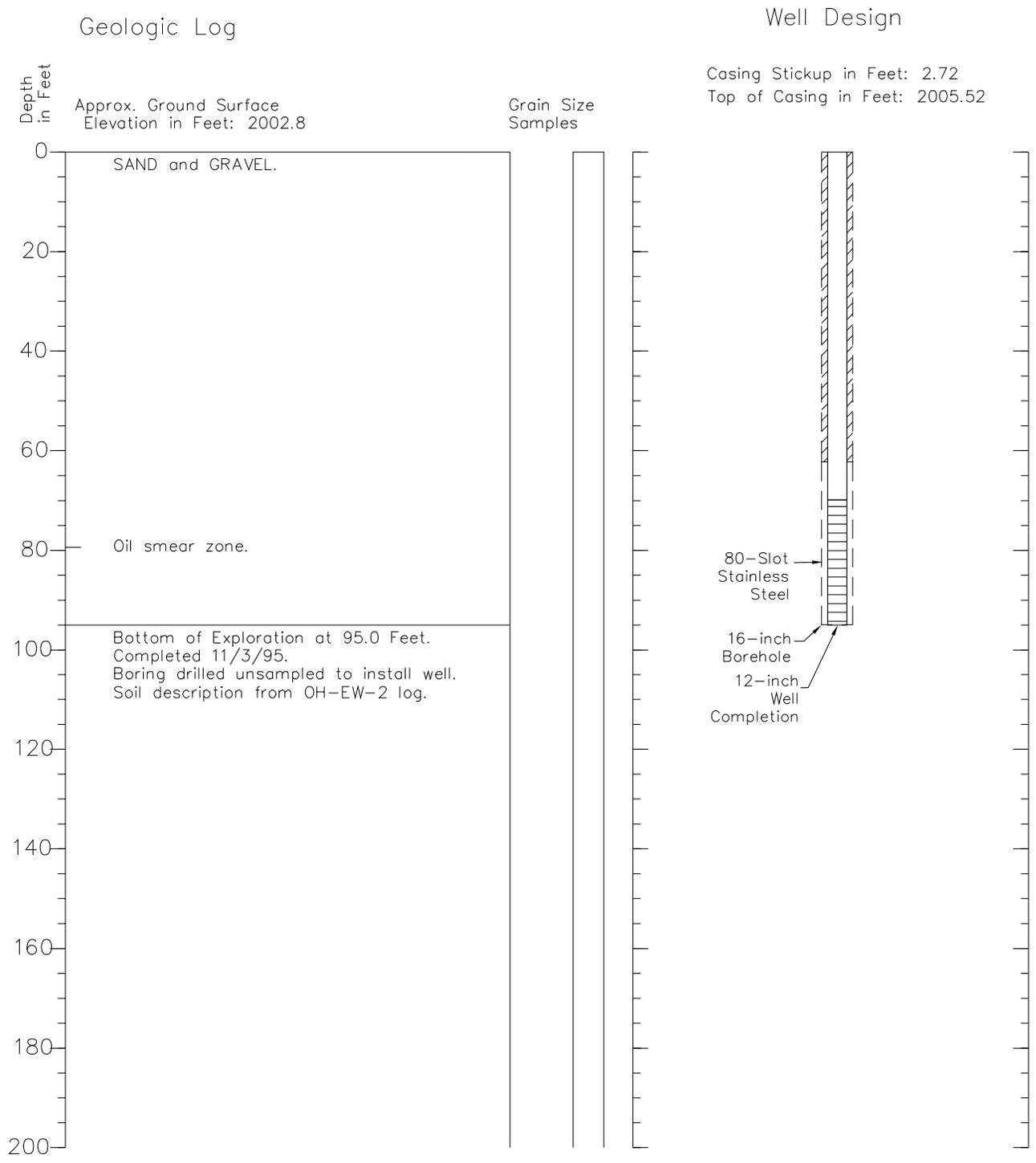


Well Design



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Skimming Well OH-SK-3



HEL 4/14/03=1
264476 logs 43.dwg

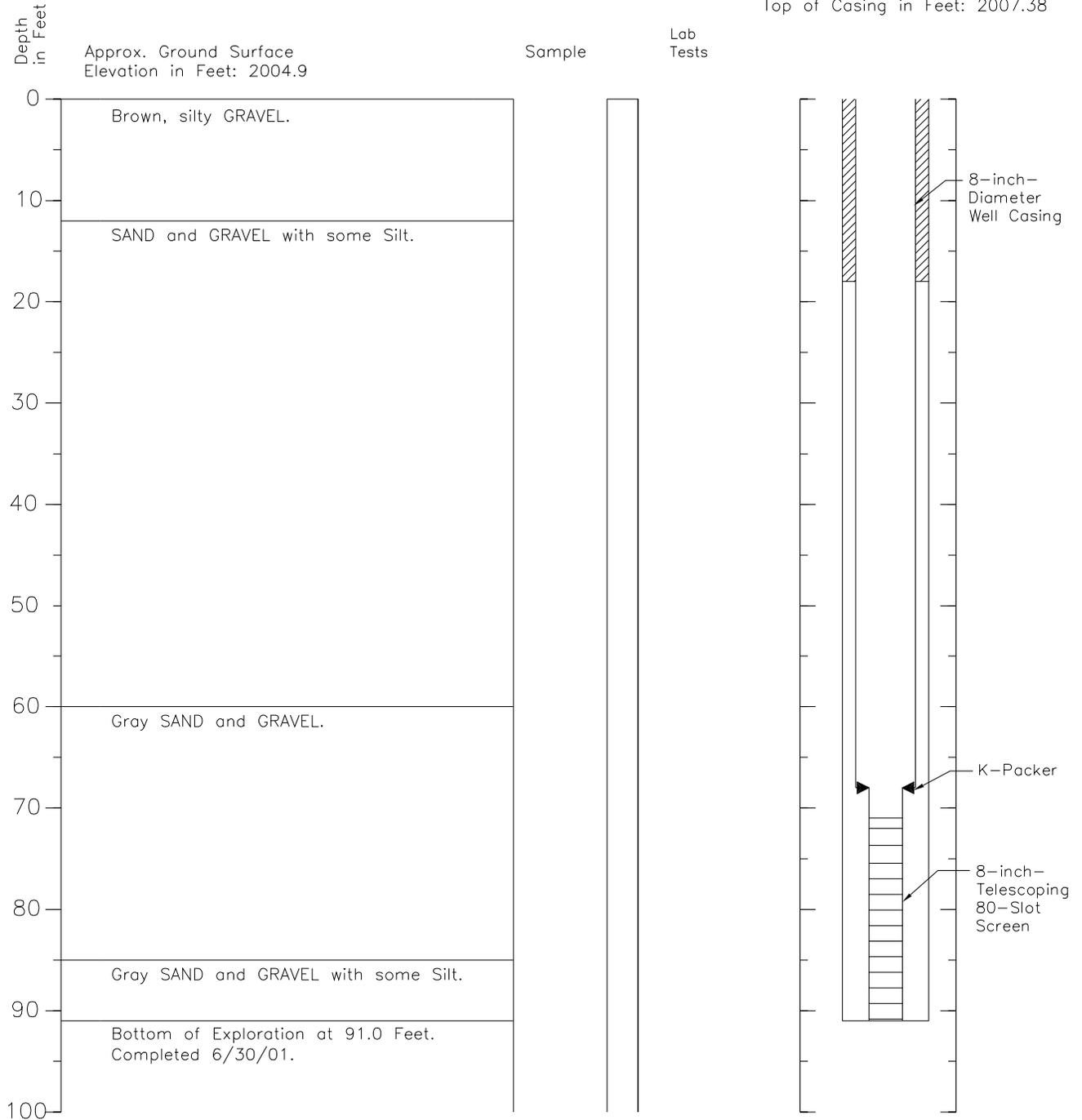
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Well Log OH-SK-4

Geologic Log

Extraction Well Design

Casing Stickup in Feet: 2.48
 Top of Casing in Feet: 2007.38

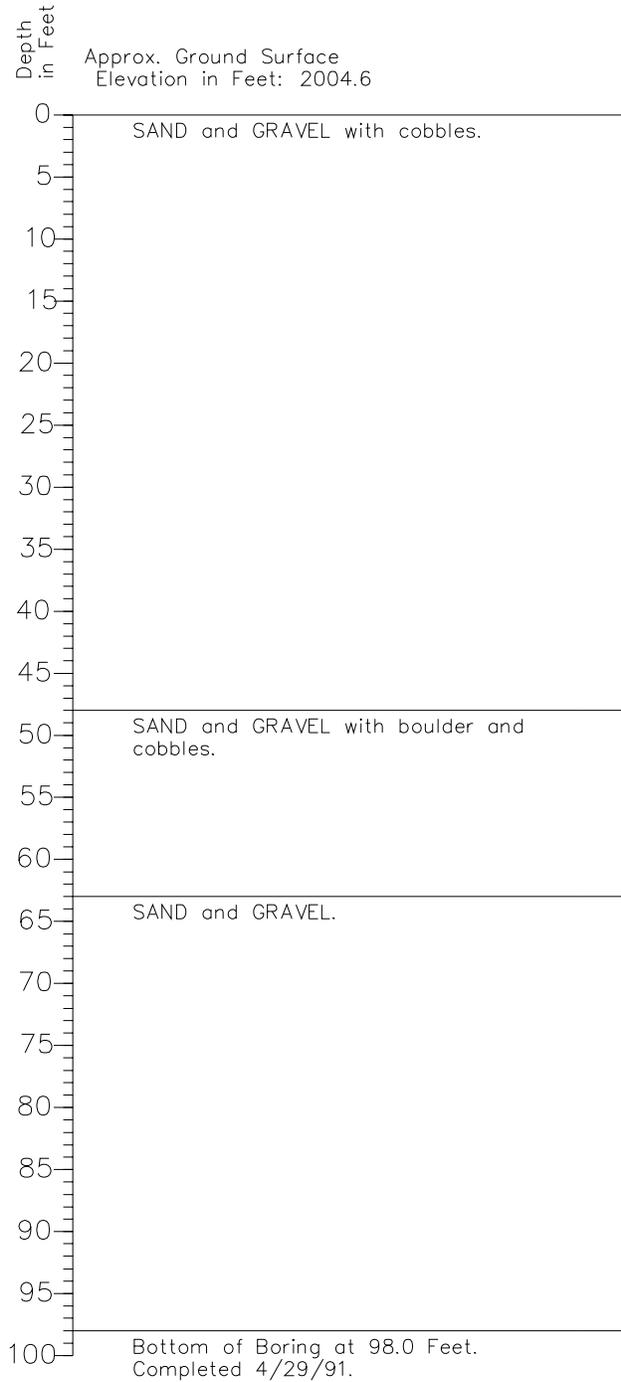


HEL 4/14/03 1=1
 264476 logs OH-SK-4.dwg

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and stick up reported by Holt Drilling. Actual TOC elevation will be surveyed at a later date.

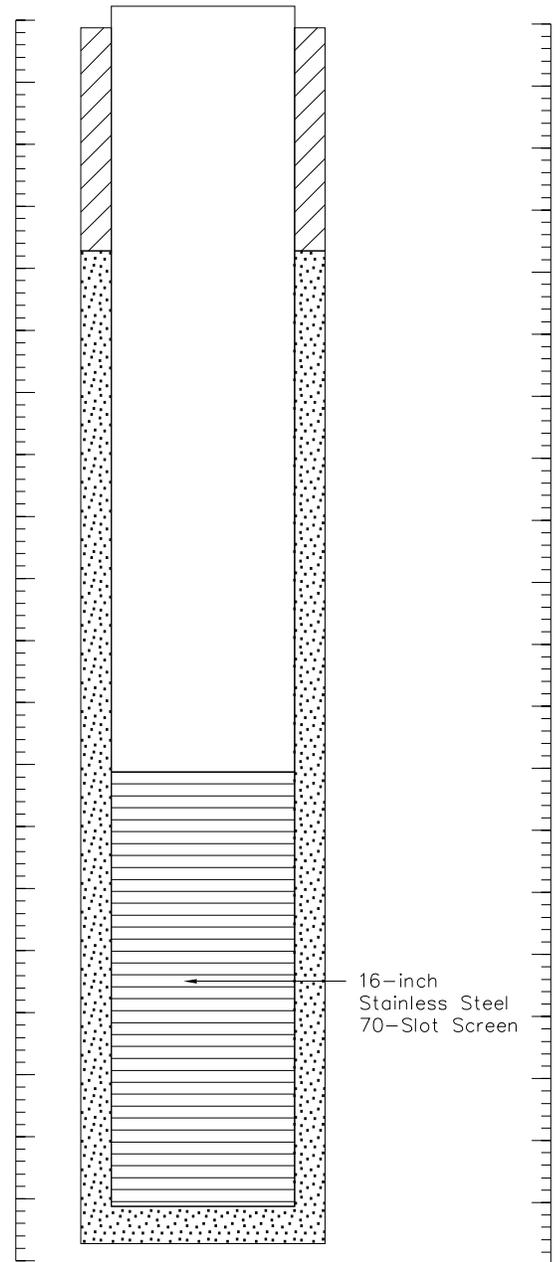
Boring Log and Construction Data for Extraction Well TF-EW-1

Geologic Log



Well Design

Casing Stickup in Feet: 1.73
Top of Steel Casing in Feet 2006.33

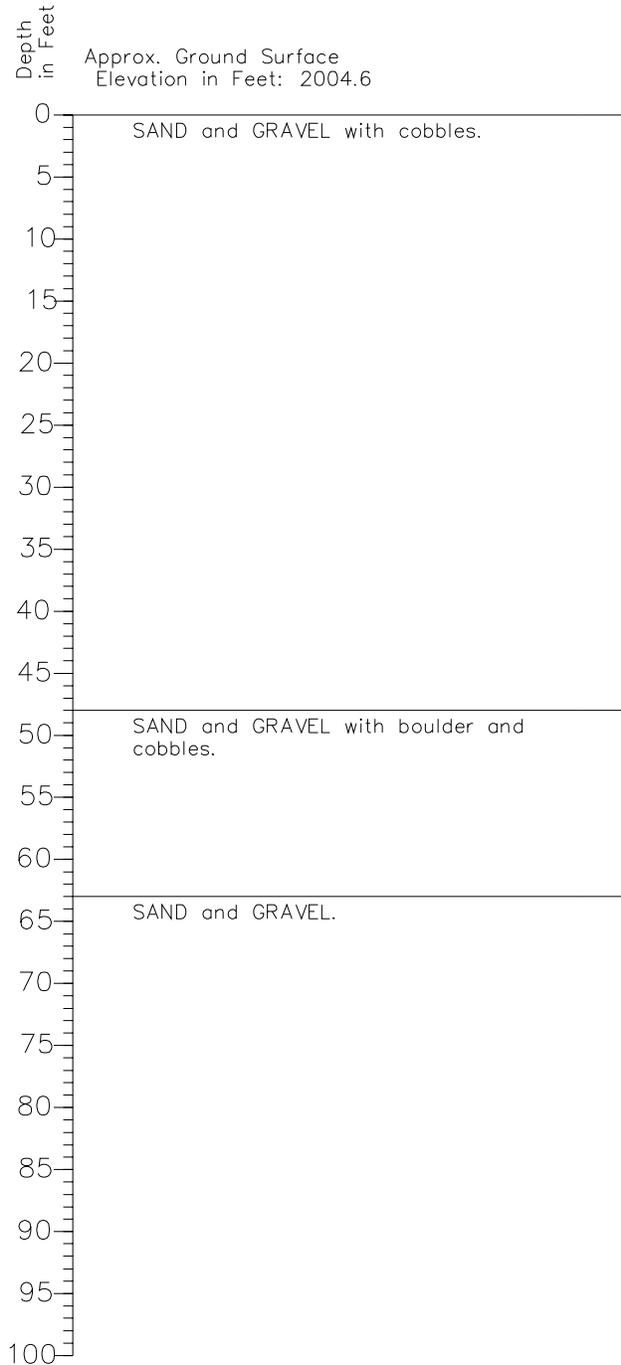


hel 4/14/03=1
264476 logs 45.dwg

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

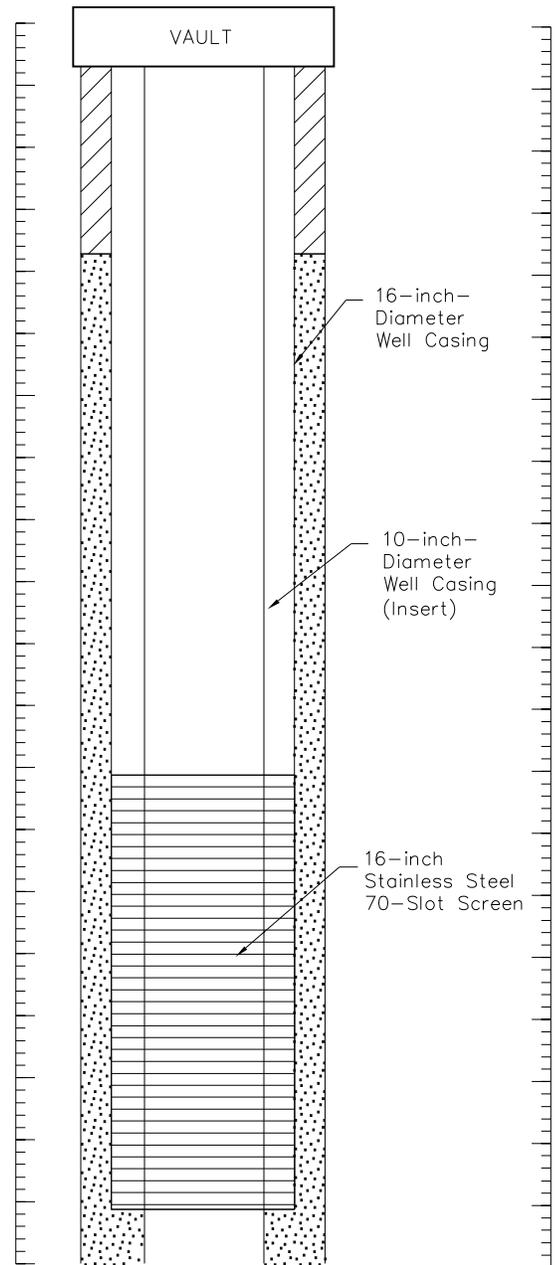
Boring Log and Construction Data for Extraction Well TF-EW-1 Deepened April 29, 2000

Geologic Log



Well Design

Casing Stickup in Feet: -1.05
Top of Steel Casing in Feet: 2003.55
Vault Base in Feet: 2001.9



hel 4/14/03=1
264476 logs 44.dwg

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

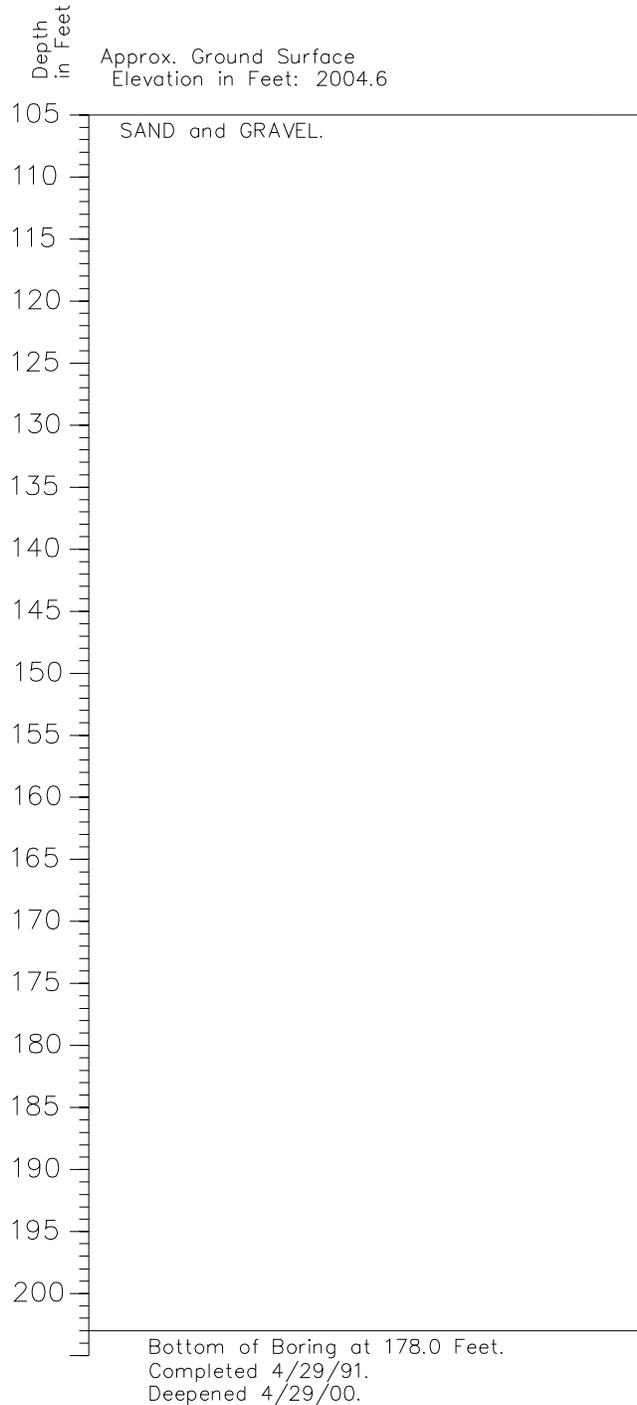
HARTCROWSER

J-2644-73
Figure A-81

4/00
1/2

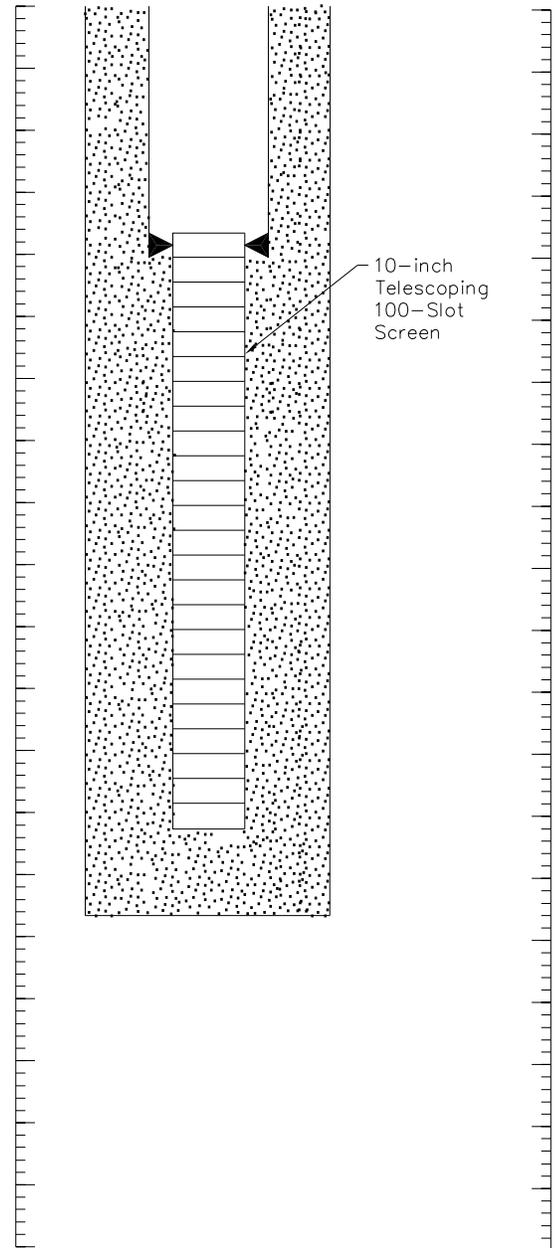
Boring Log and Construction Data for Extraction Well TF-EW-1 Deepened April 29, 2000

Geologic Log



Well Design

Casing Stickup in Feet: -1.05
Top of Steel Casing in Feet 2006.55



hel 4/14/03=1
264476 logs 44.dwg

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



J-2644-73

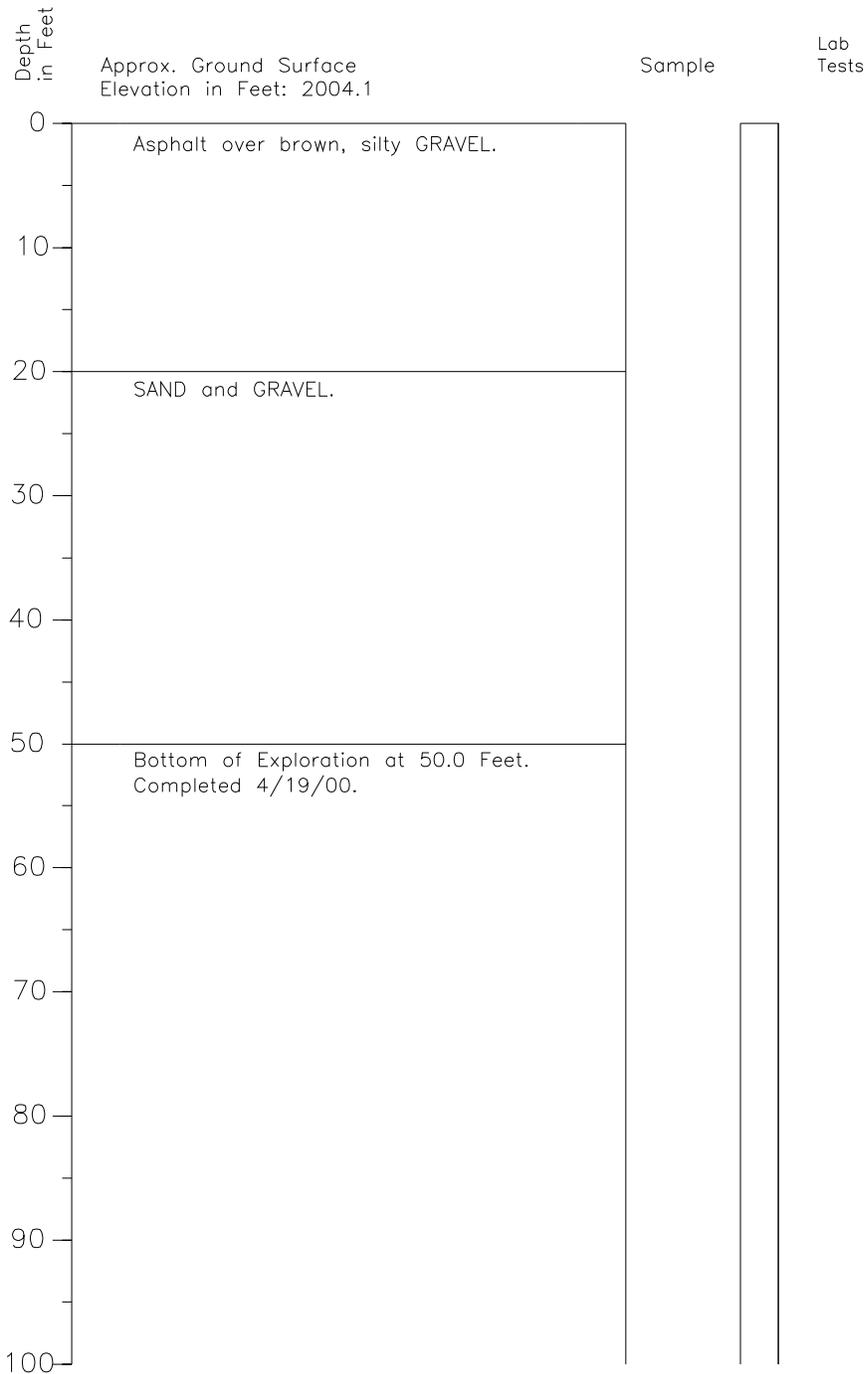
Figure A-81

4/00

2/2

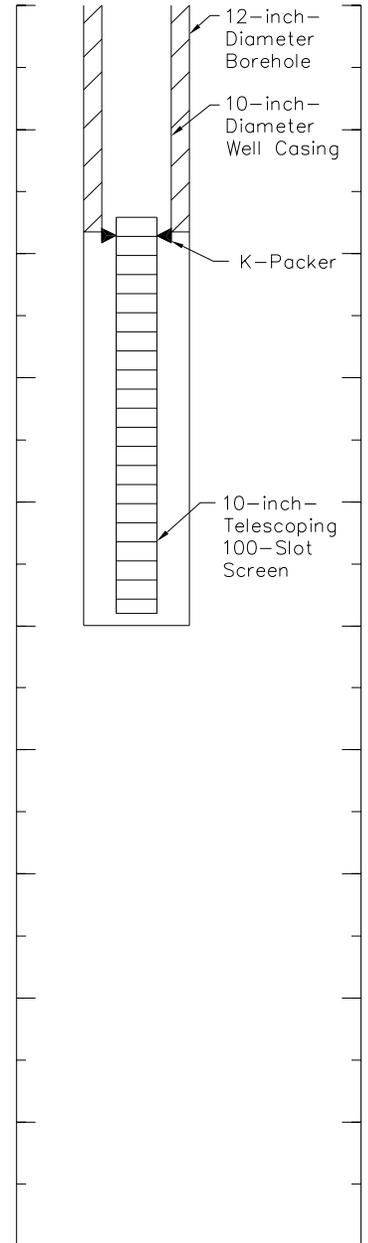
Boring Log and Construction Data for Recirculation Well TF-EW-1-US

Geologic Log



Extraction Well Design

Casing Stickup in Feet: -2.41
 Top of Casing in Feet: 2006.54



HEL 4/14/03 1=1
 264476 logs 46.dwg

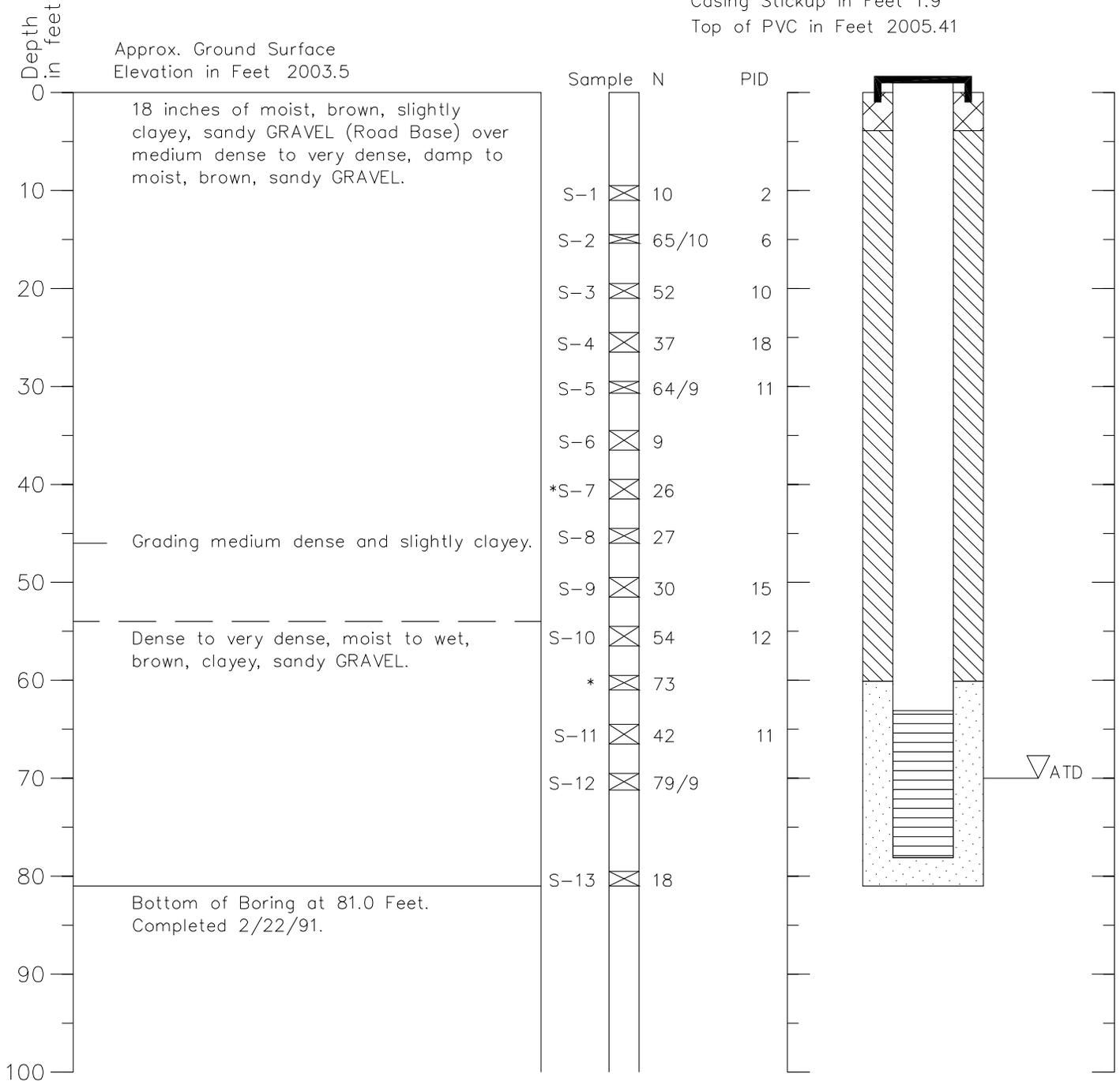
1. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
2. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well TF-MW-1

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.9
Top of PVC in Feet 2005.41



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

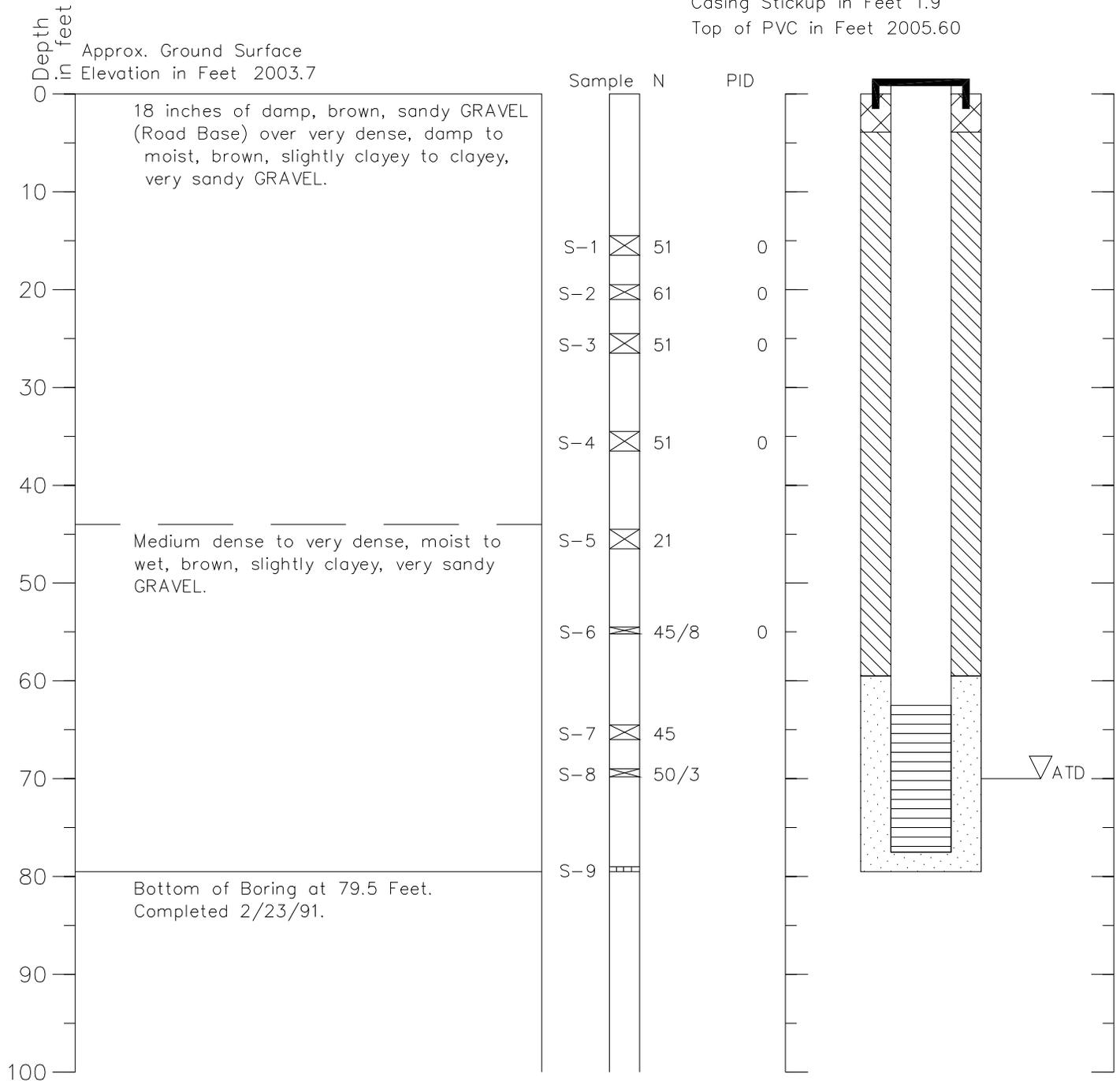
hel 4/14/03l=1
264476 logs 47.dwg

Boring Log and Construction Data for Monitoring Well TF-MW-2

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.9
 Top of PVC in Feet 2005.60



hel 4/14/03i=1
 264476 logs 48.dwg

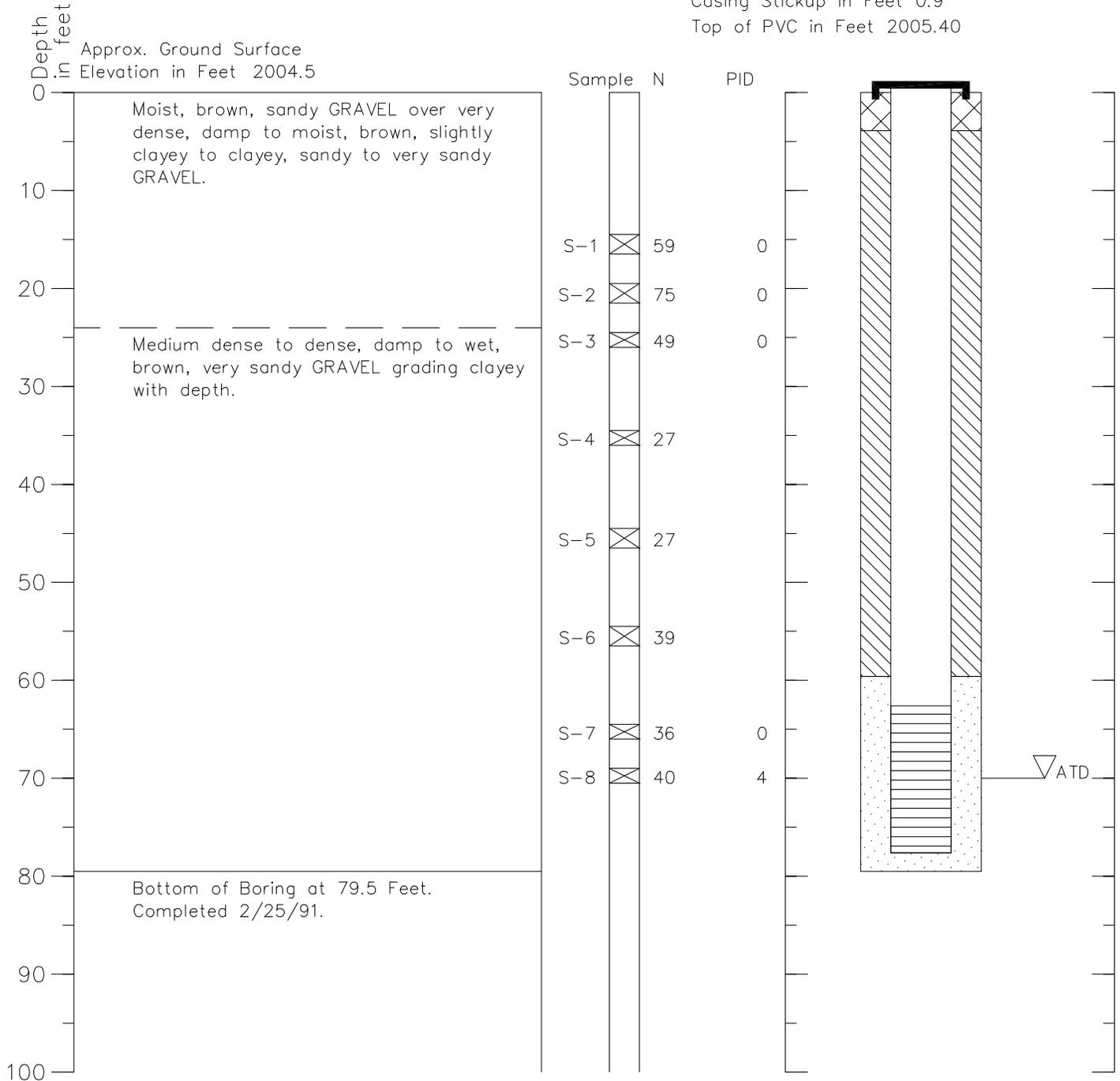
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well TF-MW-3

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 0.9
Top of PVC in Feet 2005.40



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

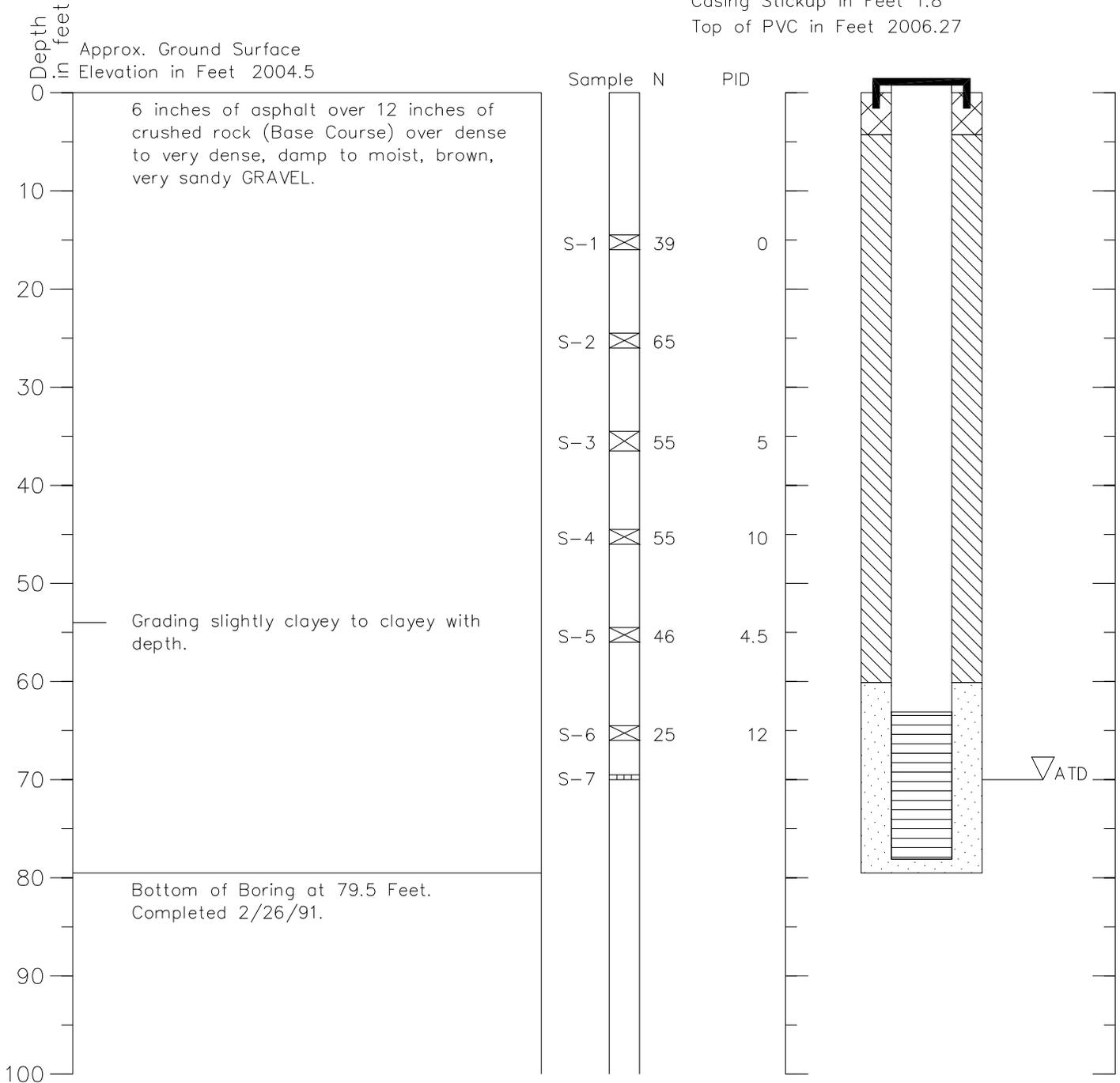
hel_4/14/03i=1
264476_logs_49.dwg

Boring Log and Construction Data for Monitoring Well TF-MW-4

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.8
Top of PVC in Feet 2006.27



hel 4/14/03i=1
264476 logs 50.dwg

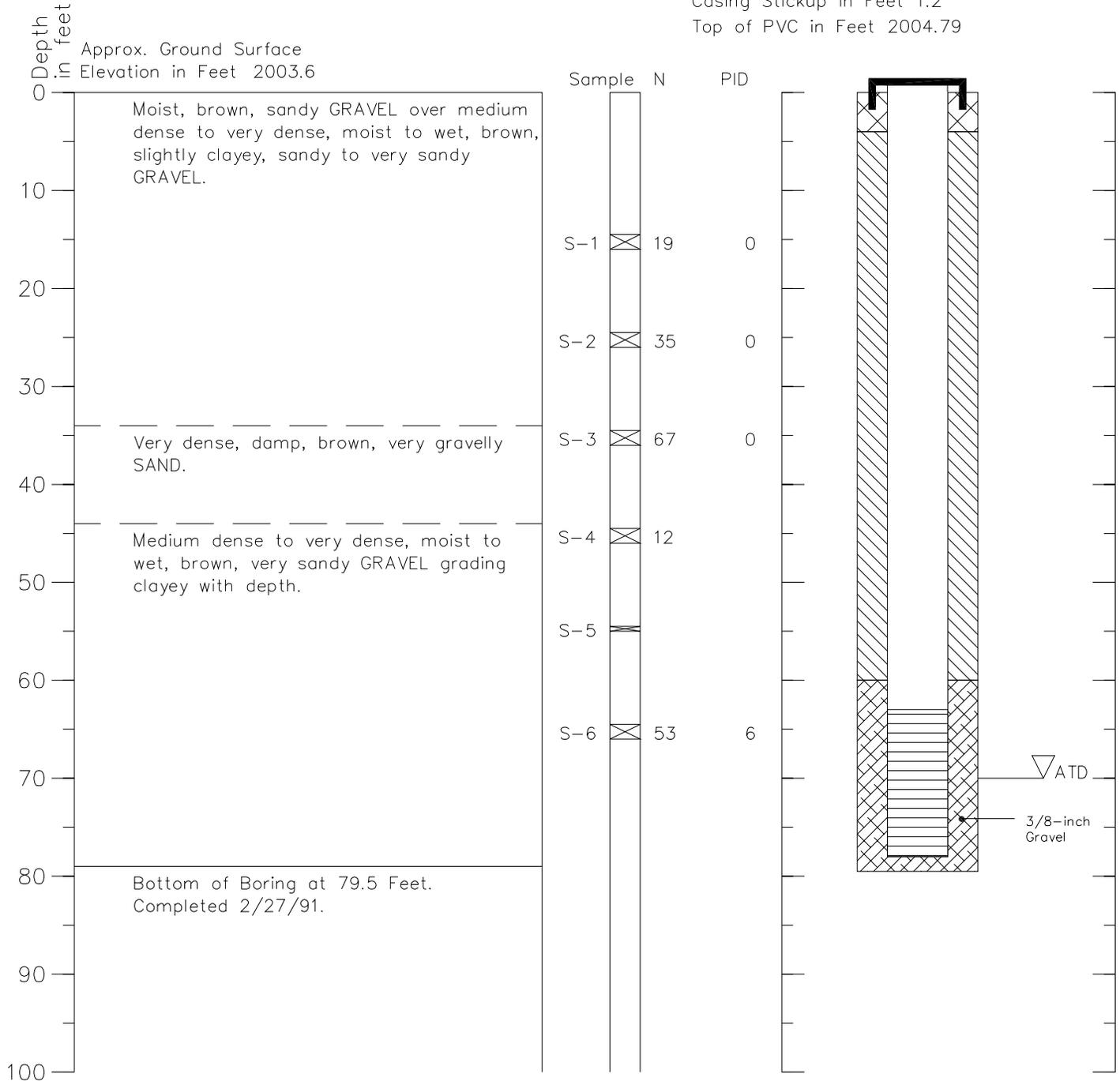
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well TF-MW-5

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.2
Top of PVC in Feet 2004.79



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

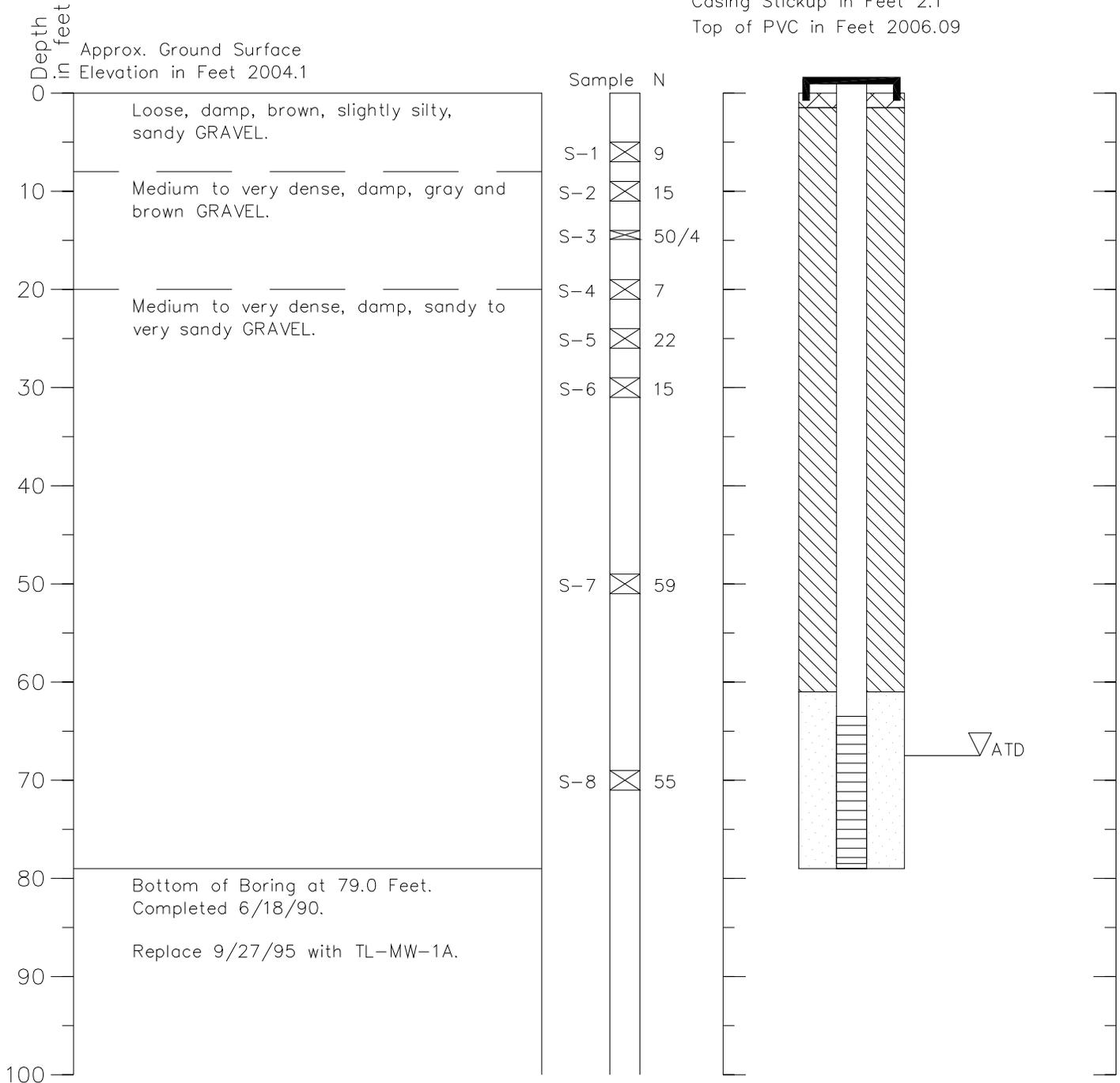
hel 4/14/03f=1
264476 logs 51.dwg

Boring Log and Construction Data for Monitoring Well TL-MW-1

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.1
Top of PVC in Feet 2006.09

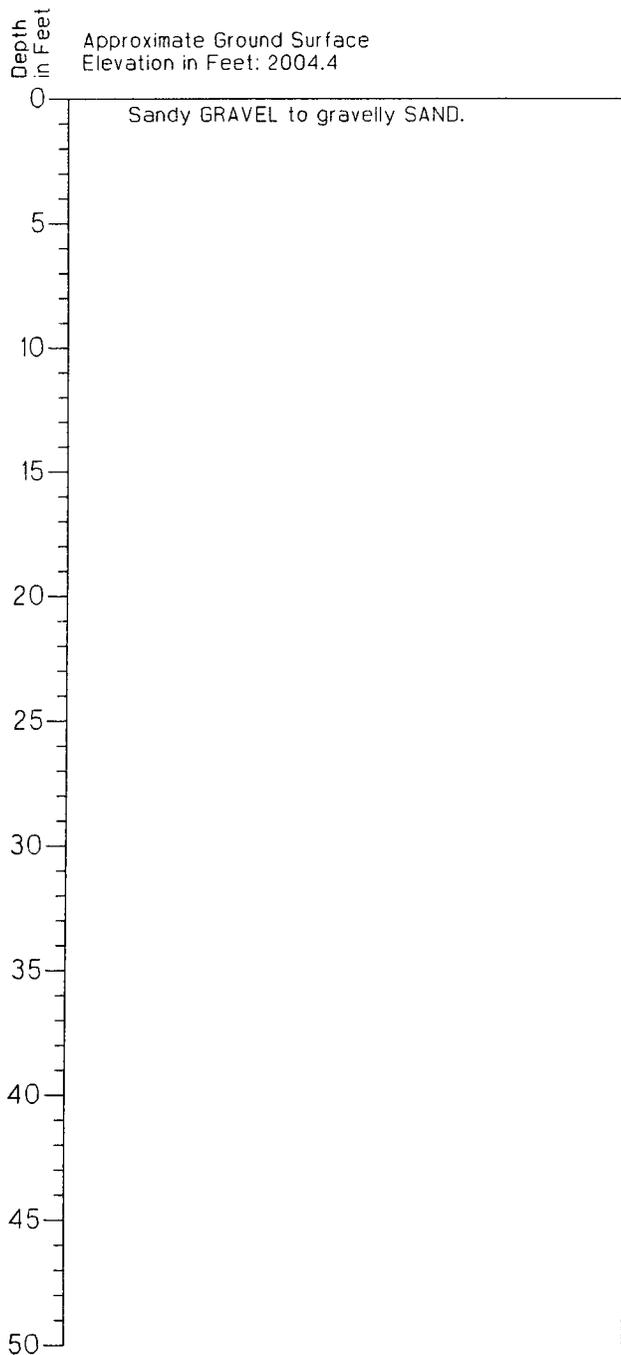


hel 4/14/031=1
264476 logs 52.dwg

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

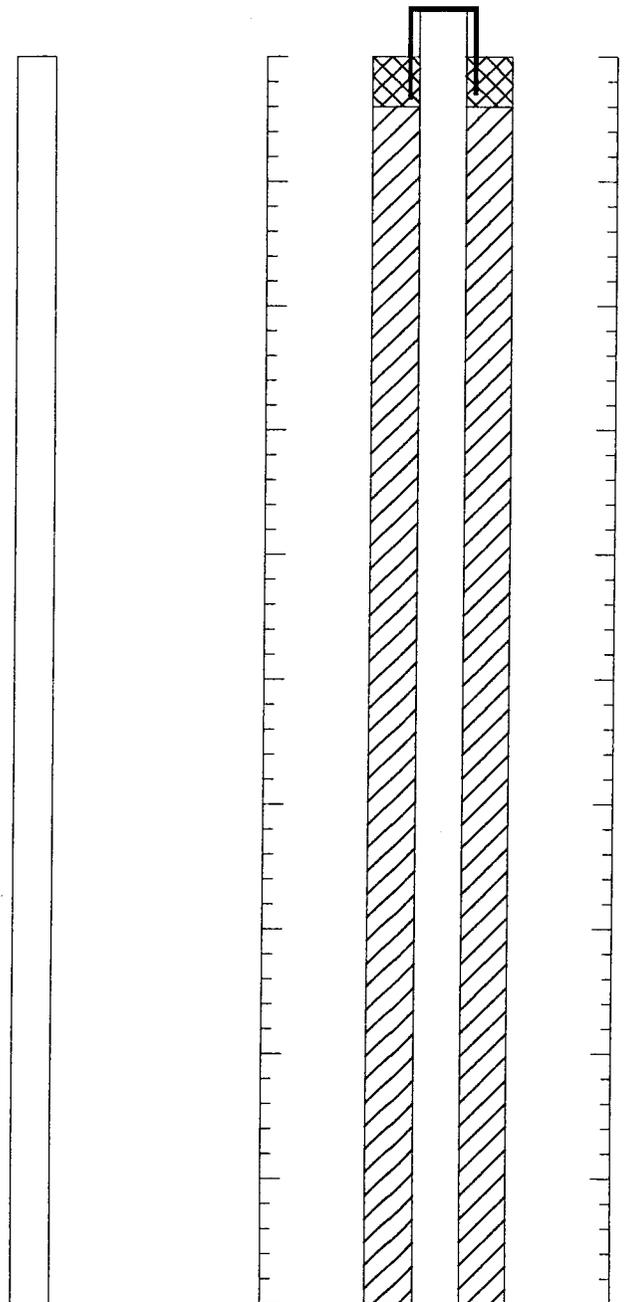
Boring Log and Construction Data for Observation Well TL-MW-1A

Geologic Log



Monitoring Well Design

Casing Stickup in Feet: 2
Top of PVC in Feet: 2006.41



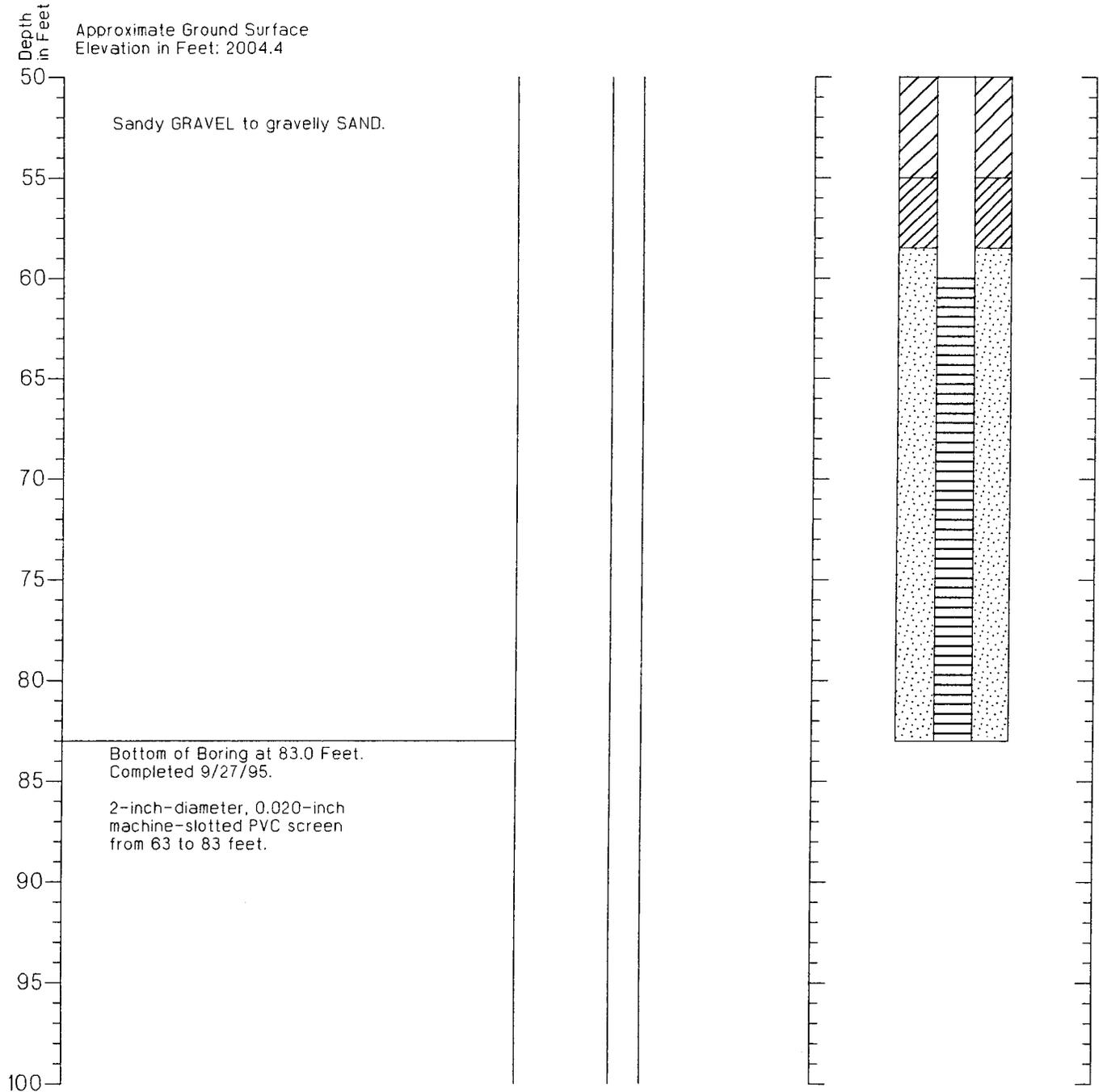
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Observation Well TL-MW-1A

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 2
Top of PVC in Feet 2006.41



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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J-2644-58

Figure A-89

9/95

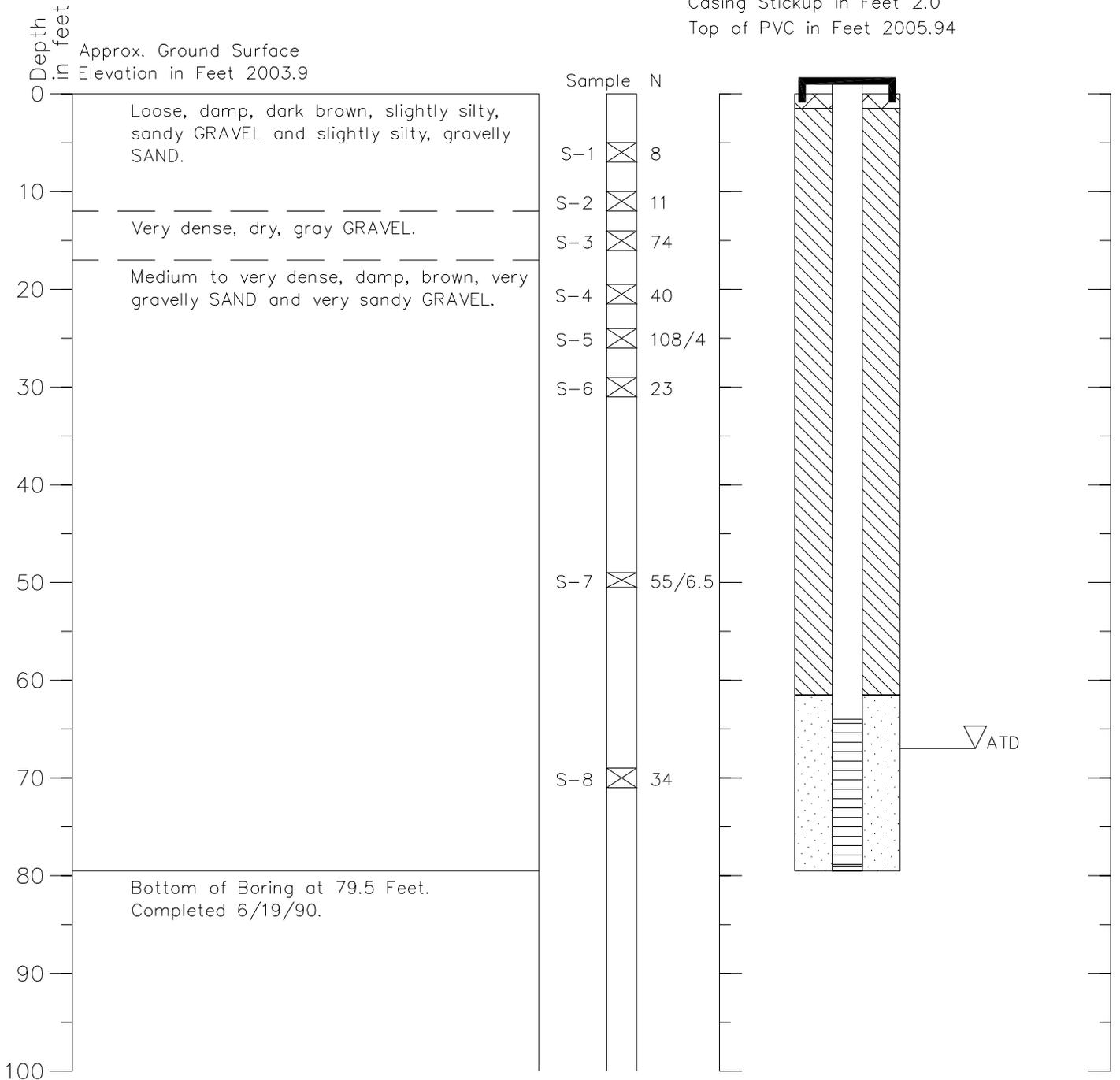
2/2

Boring Log and Construction Data for Monitoring Well TL-MW-2

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.0
Top of PVC in Feet 2005.94



hel 4/14/03f=1
264476 logs 53.dwg

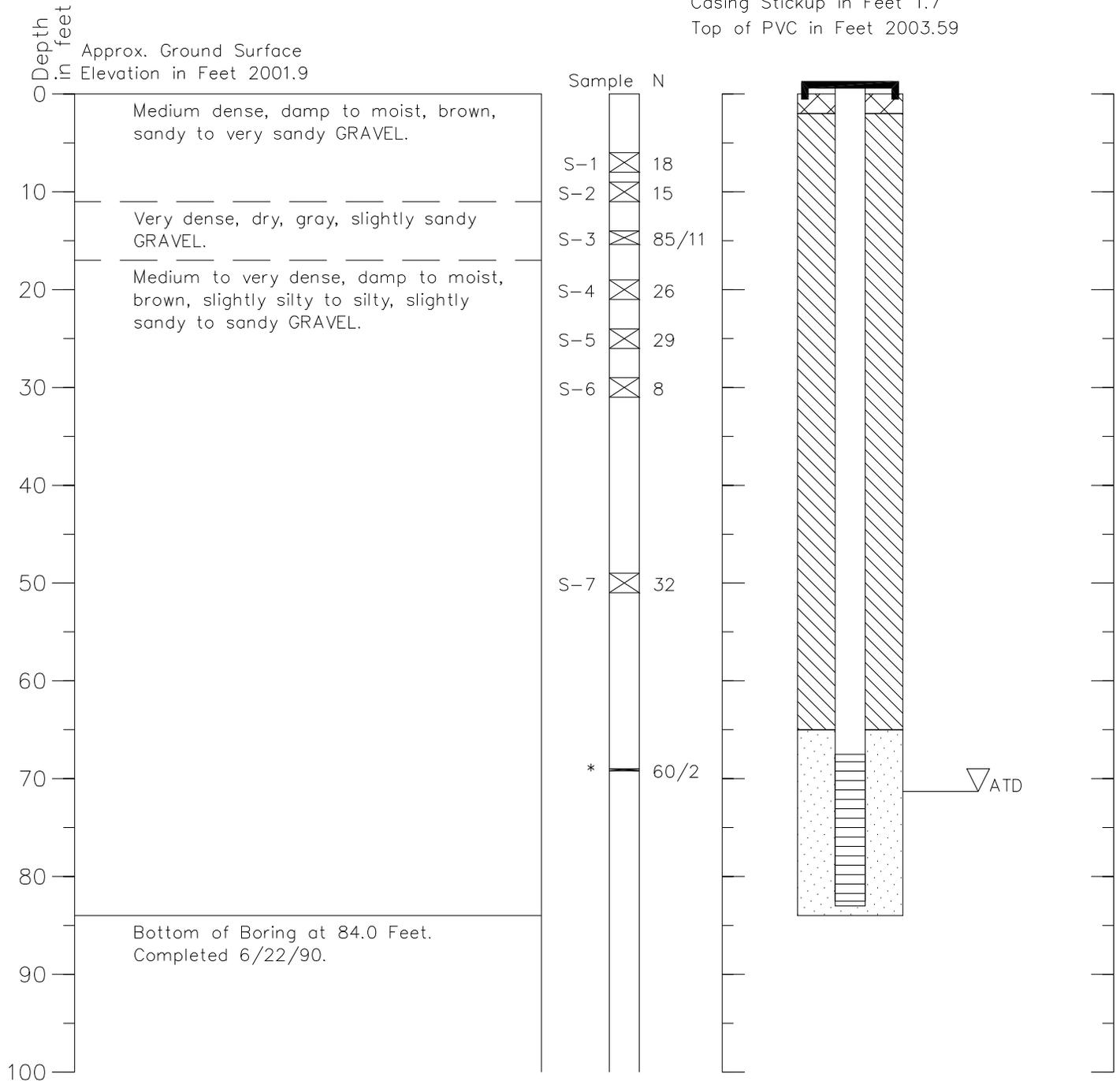
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well TL-MW-3

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.7
Top of PVC in Feet 2003.59



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

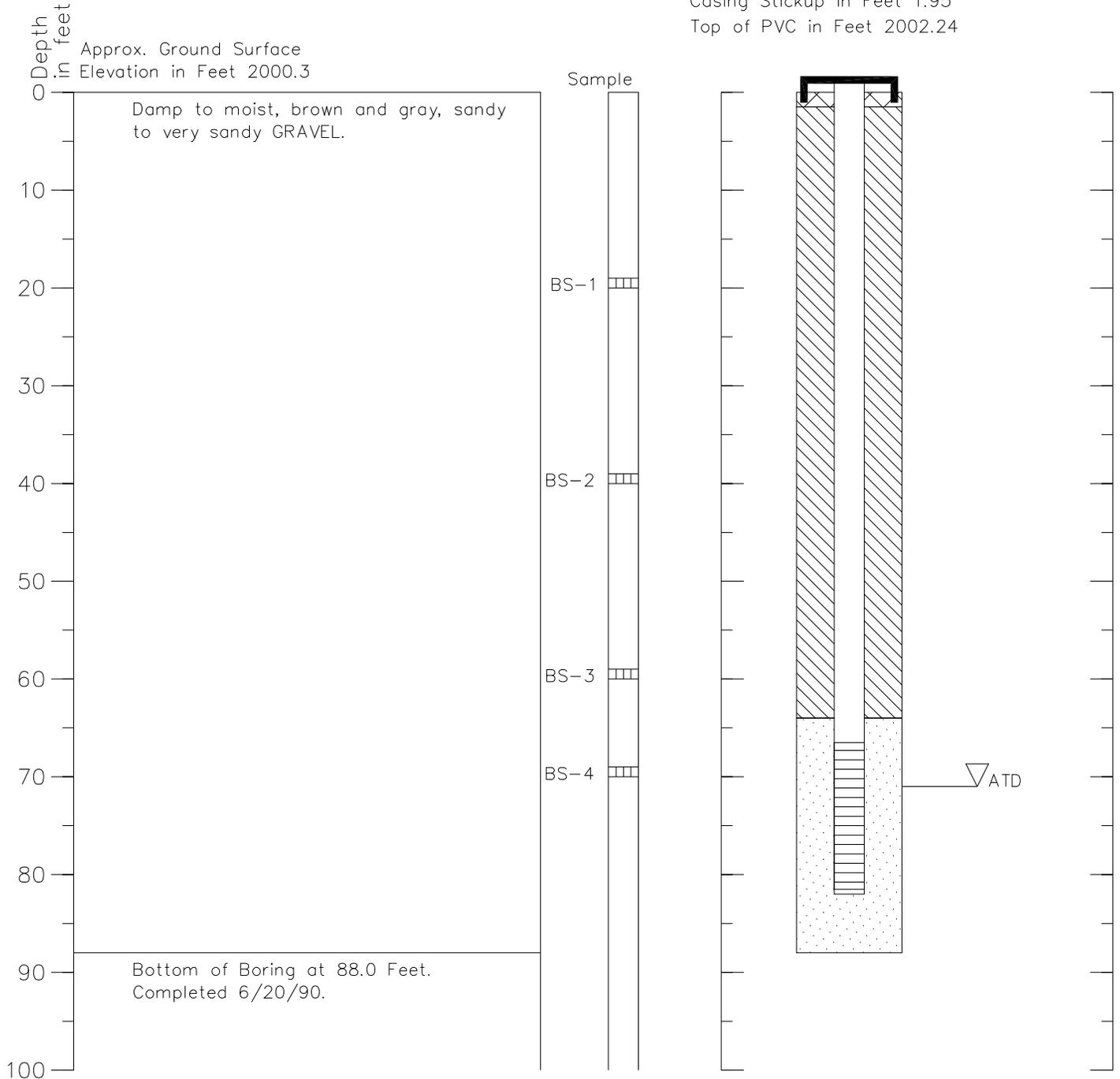
hel 4/14/03I=1
264476 logs 54.dwg

Boring Log and Construction Data for Monitoring Well TL-MW-4

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.95
Top of PVC in Feet 2002.24

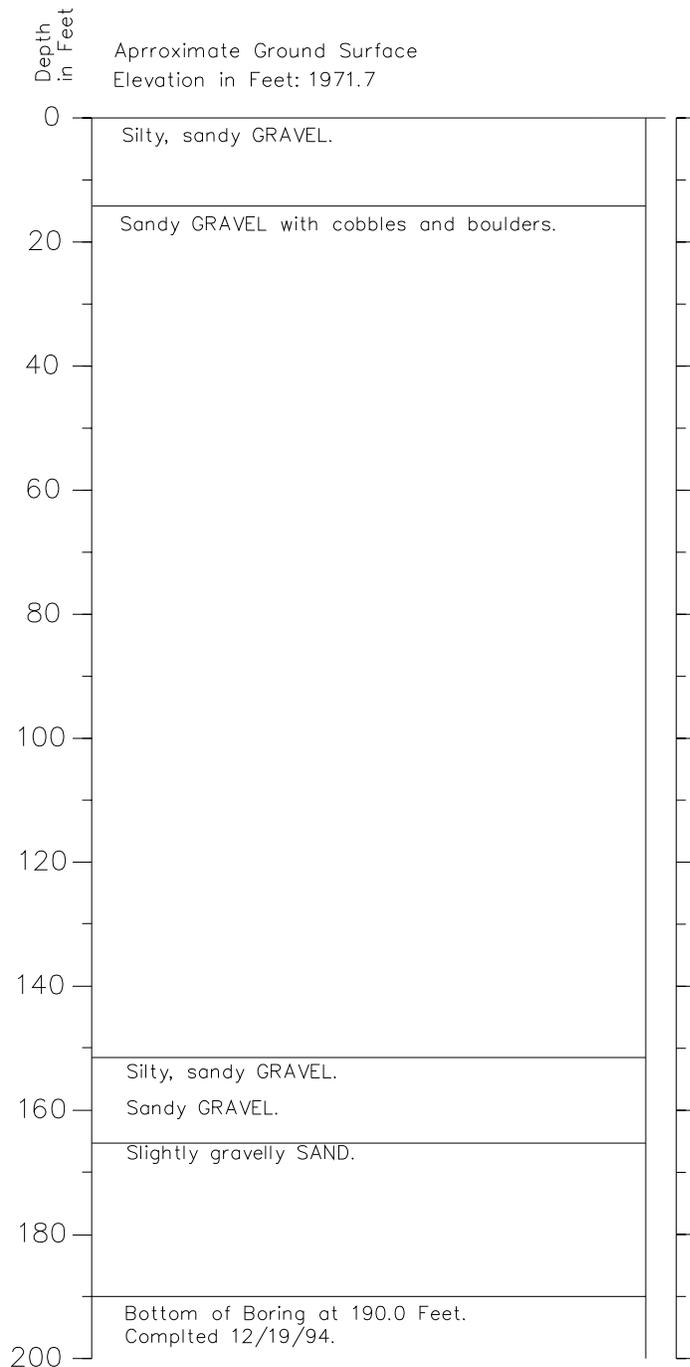


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

hel 4/14/031=1
264476 logs 55.dwg

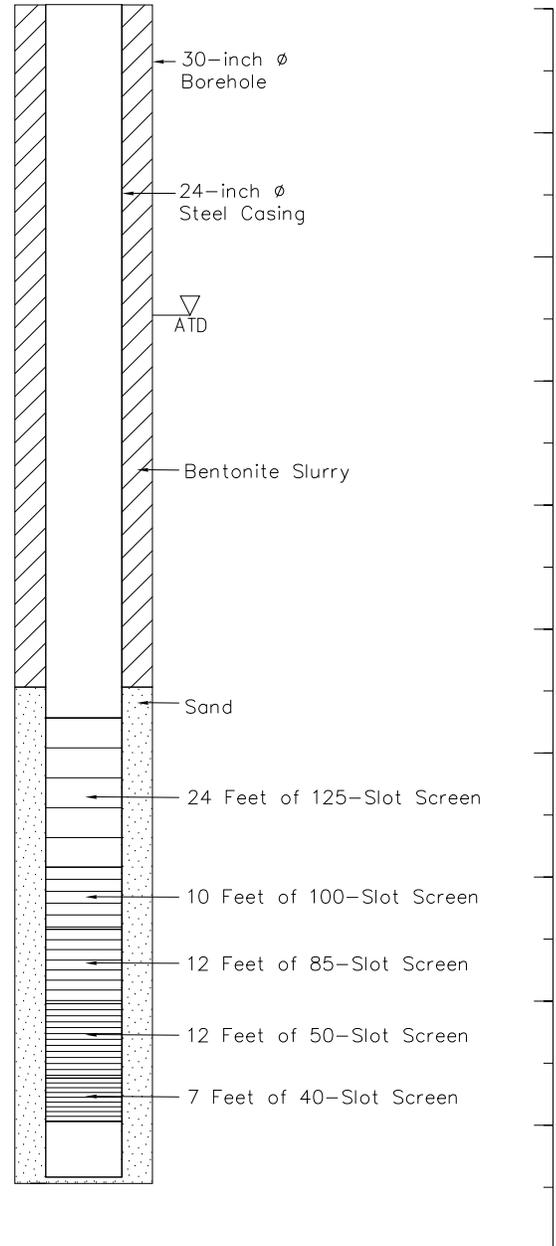
Boring Log and Construction Data for Extraction Well WW-EW-1

Geologic Log



Well Design

Casing Stickup in Feet: 0.43
Top of Casing in Feet: 1972.13



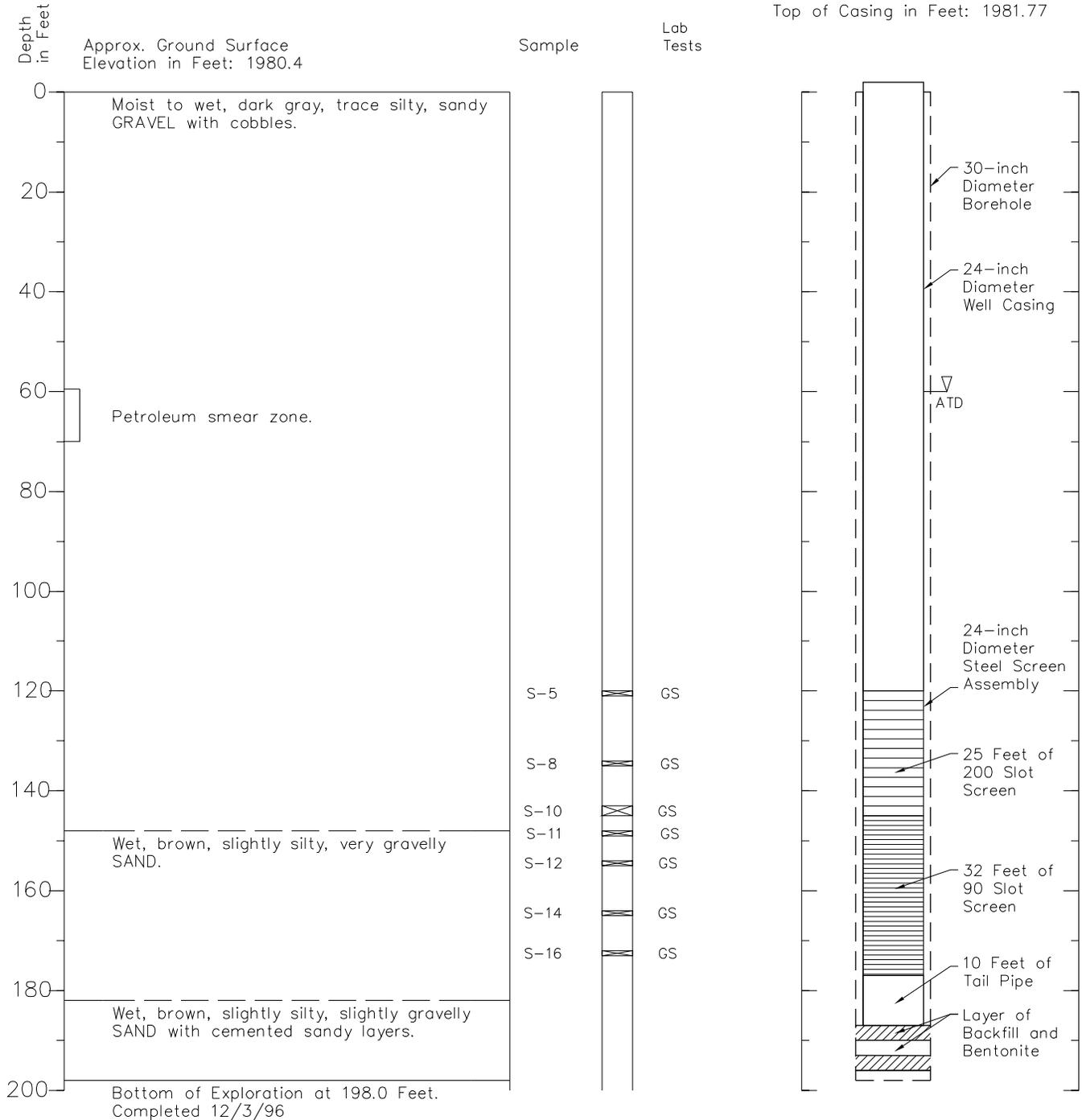
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Extraction Well WW-EW-2

Geologic Log

Extraction Well Design

Casing Stickup in Feet: -1.37
 Top of Casing in Feet: 1981.77

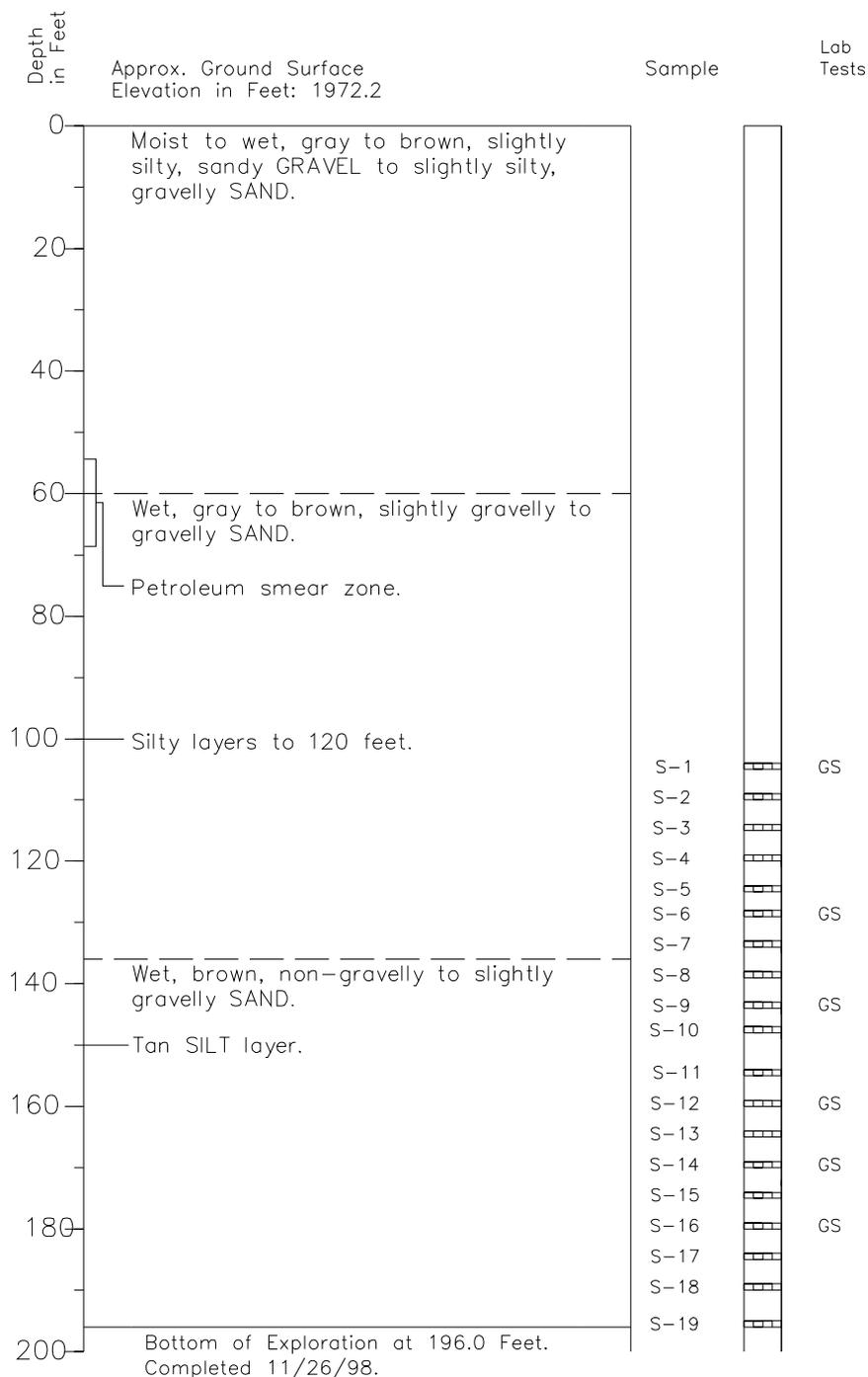


hel 4/14/03 1=1
 264476 logs 57.dwg

1. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
2. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

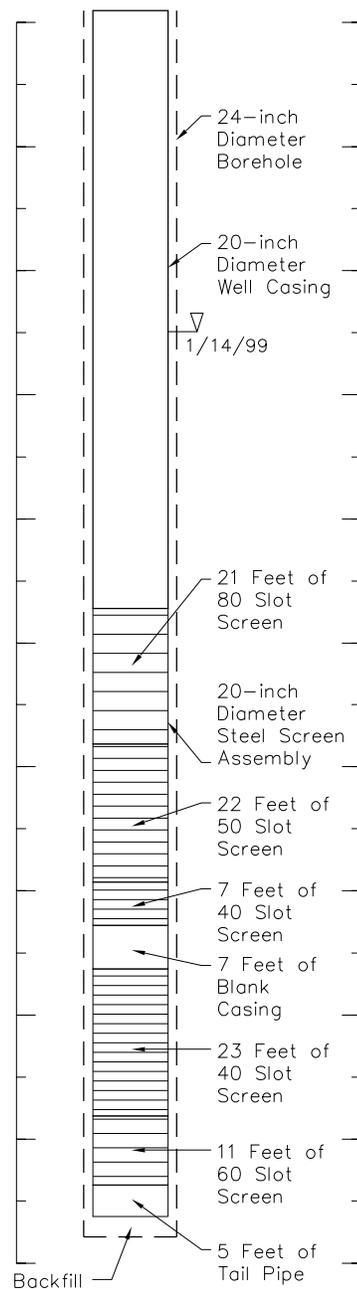
Boring Log and Construction Data for Extraction Well WW-EW-3

Geologic Log



Extraction Well Design

Casing Stickup in Feet: 2.05
Top of Casing in Feet: 1974.25



hel 4/14/03i=1
264476 logs 59.dwg

1. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
2. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

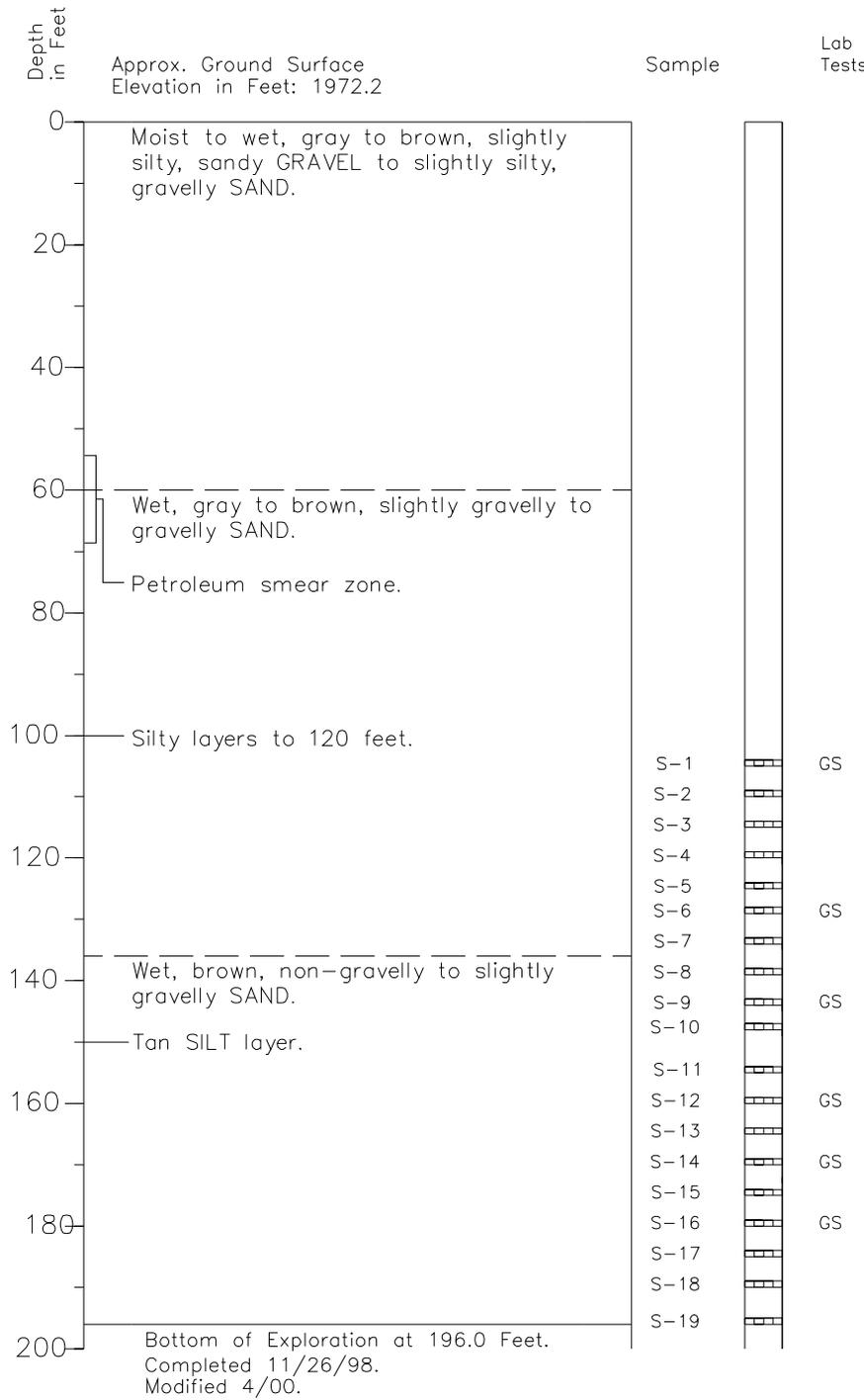


J-2644-66 11/98
Figure A-95 1/2

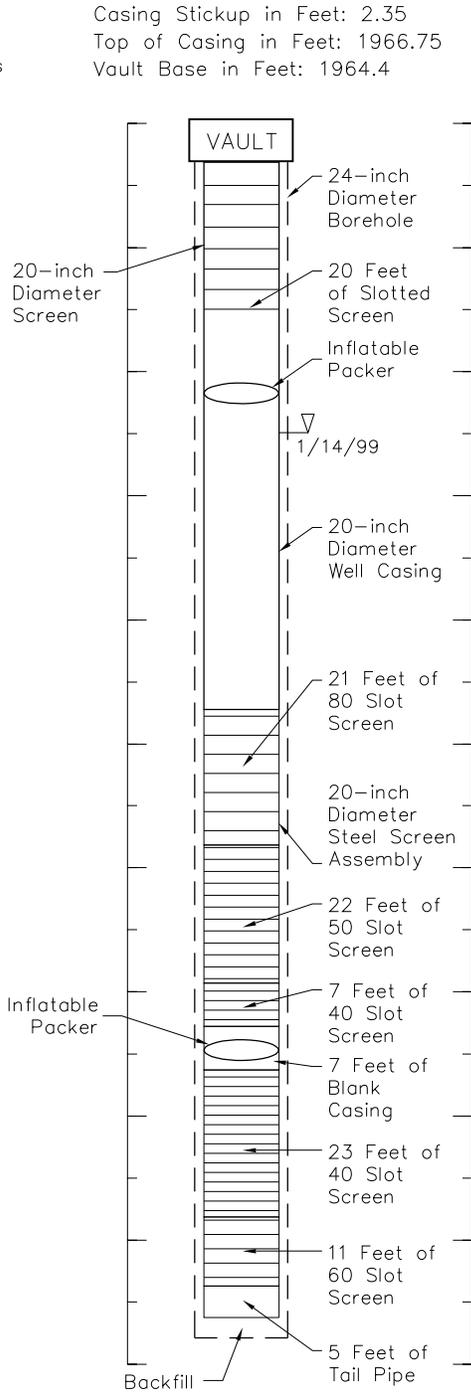
Boring Log and Construction Data for Extraction Well WW-EW-3

Modified April 2000

Geologic Log



Extraction Well Design



hel 4/14/03i=1
264476 logs 58.dwg

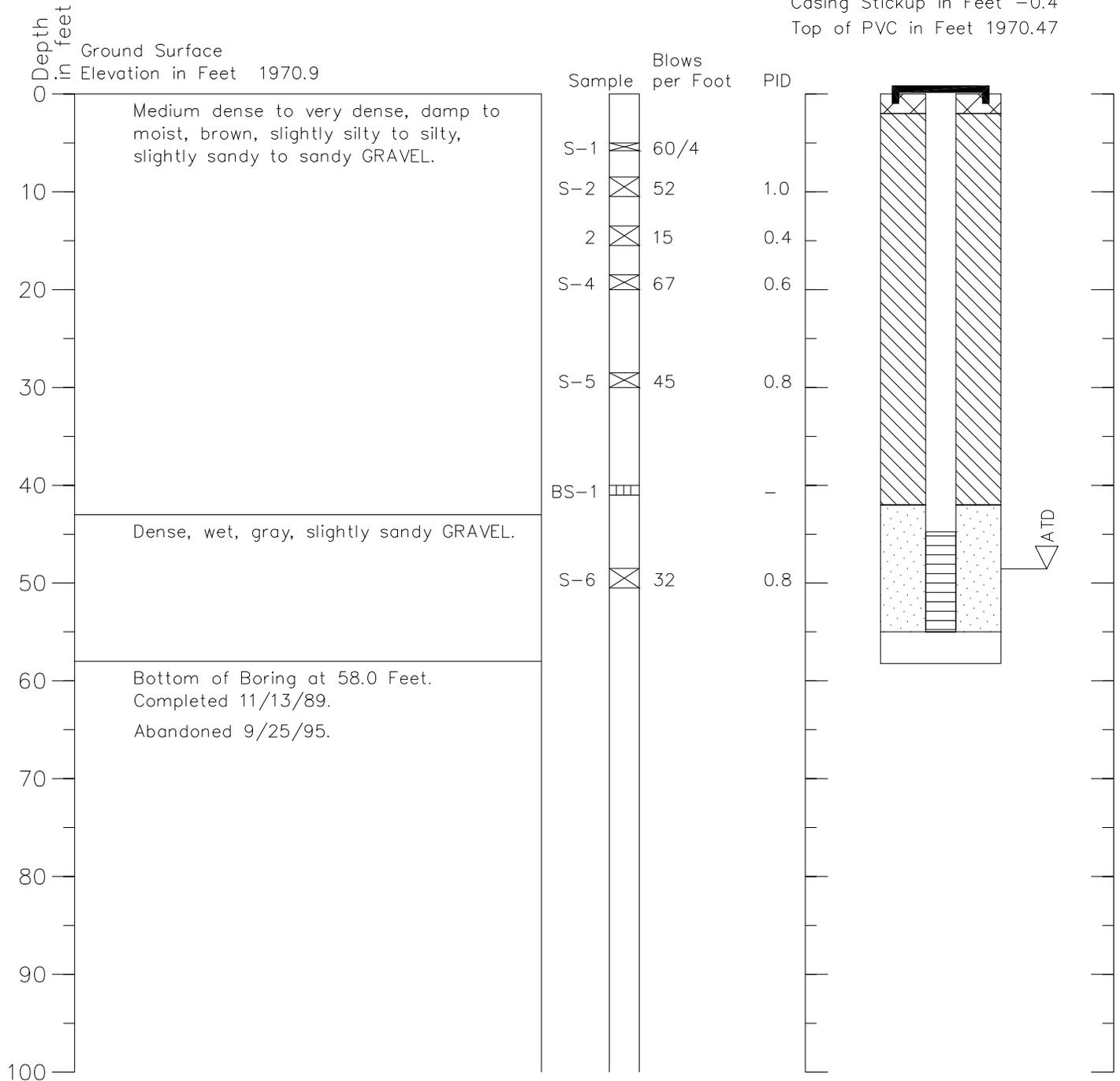
1. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
2. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well WW-MW-1

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.4
Top of PVC in Feet 1970.47



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

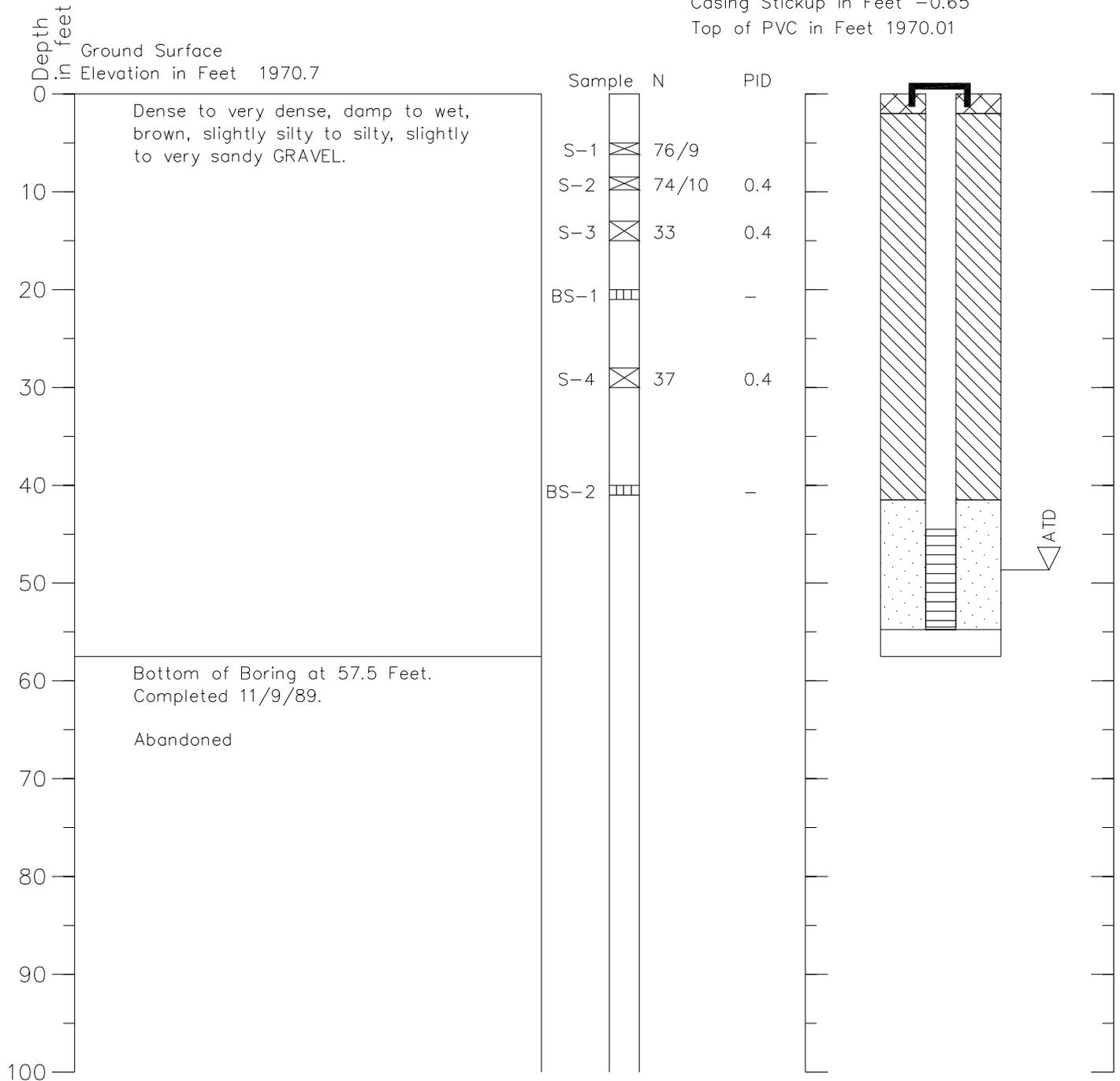
hel 4/14/031=1
264476 logs 60.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-2

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.65
Top of PVC in Feet 1970.01



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

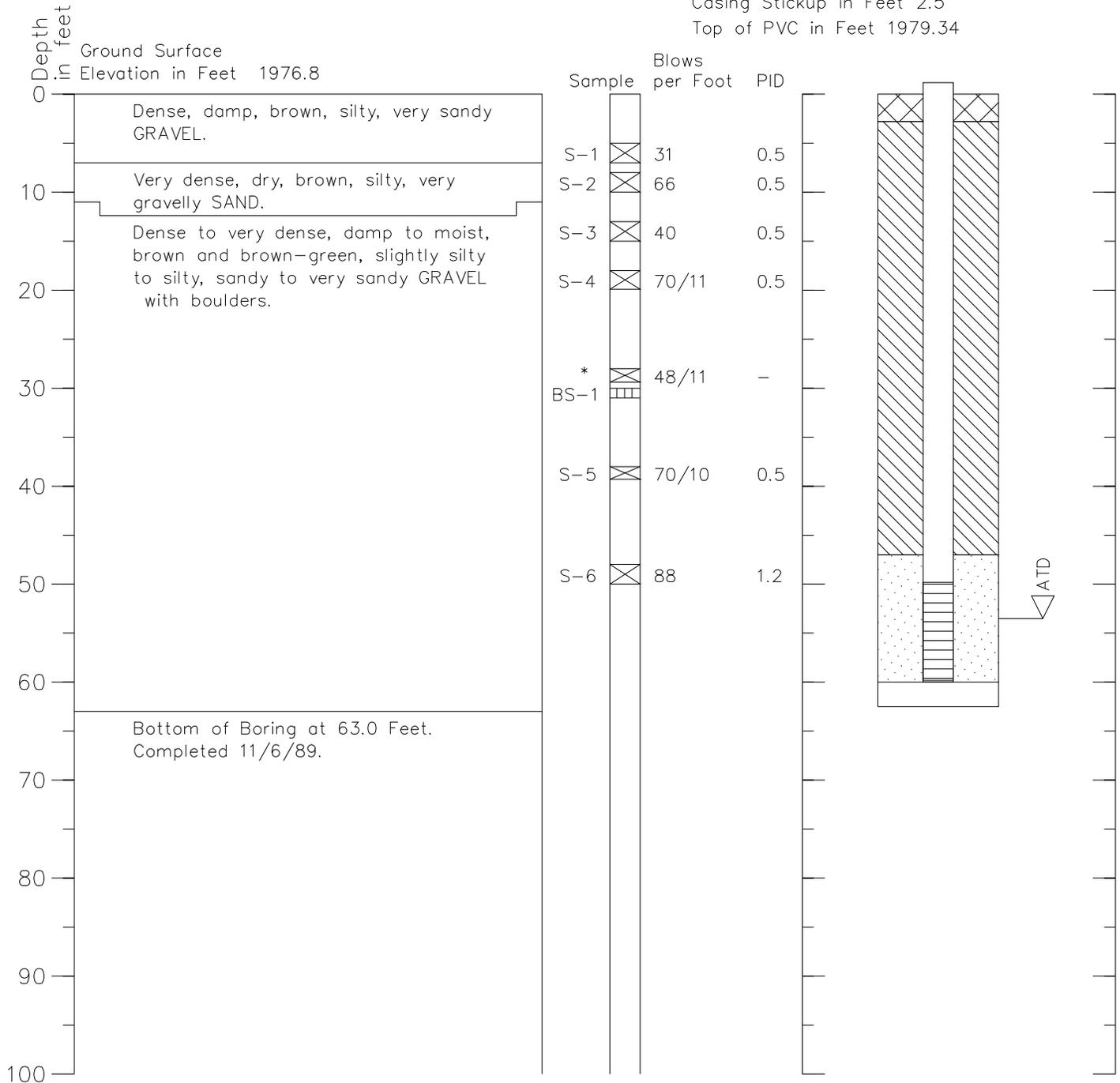
hel 4/14/03i=1
264476 logs 61.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-3

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.5
Top of PVC in Feet 1979.34



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

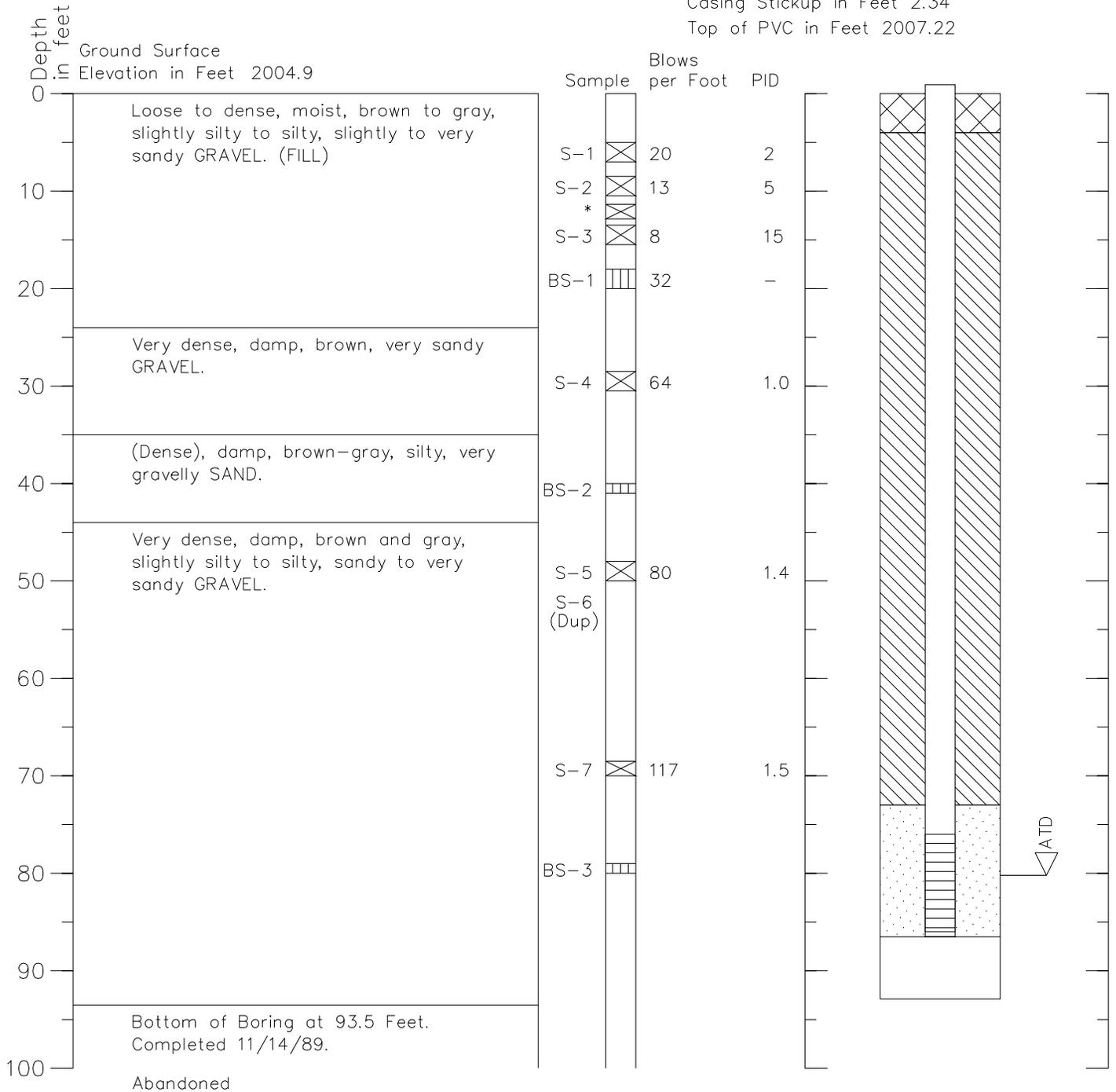
hel 4/14/03i=1
264476 logs 62.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-4

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.34
Top of PVC in Feet 2007.22



hel 4/14/031=1
264476 logs 6.3.dwg

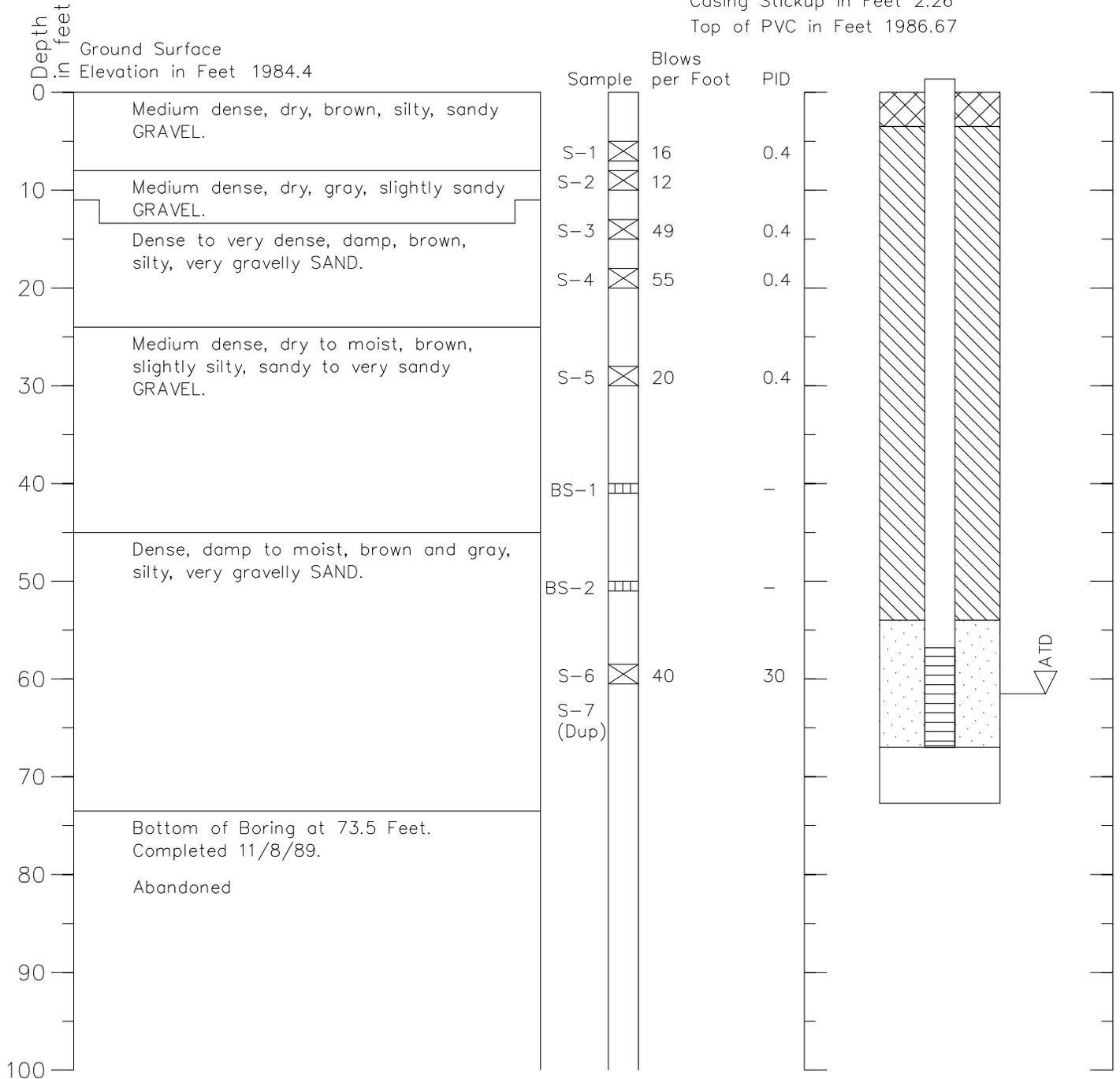
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well WW-MW-5

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.26
 Top of PVC in Feet 1986.67



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

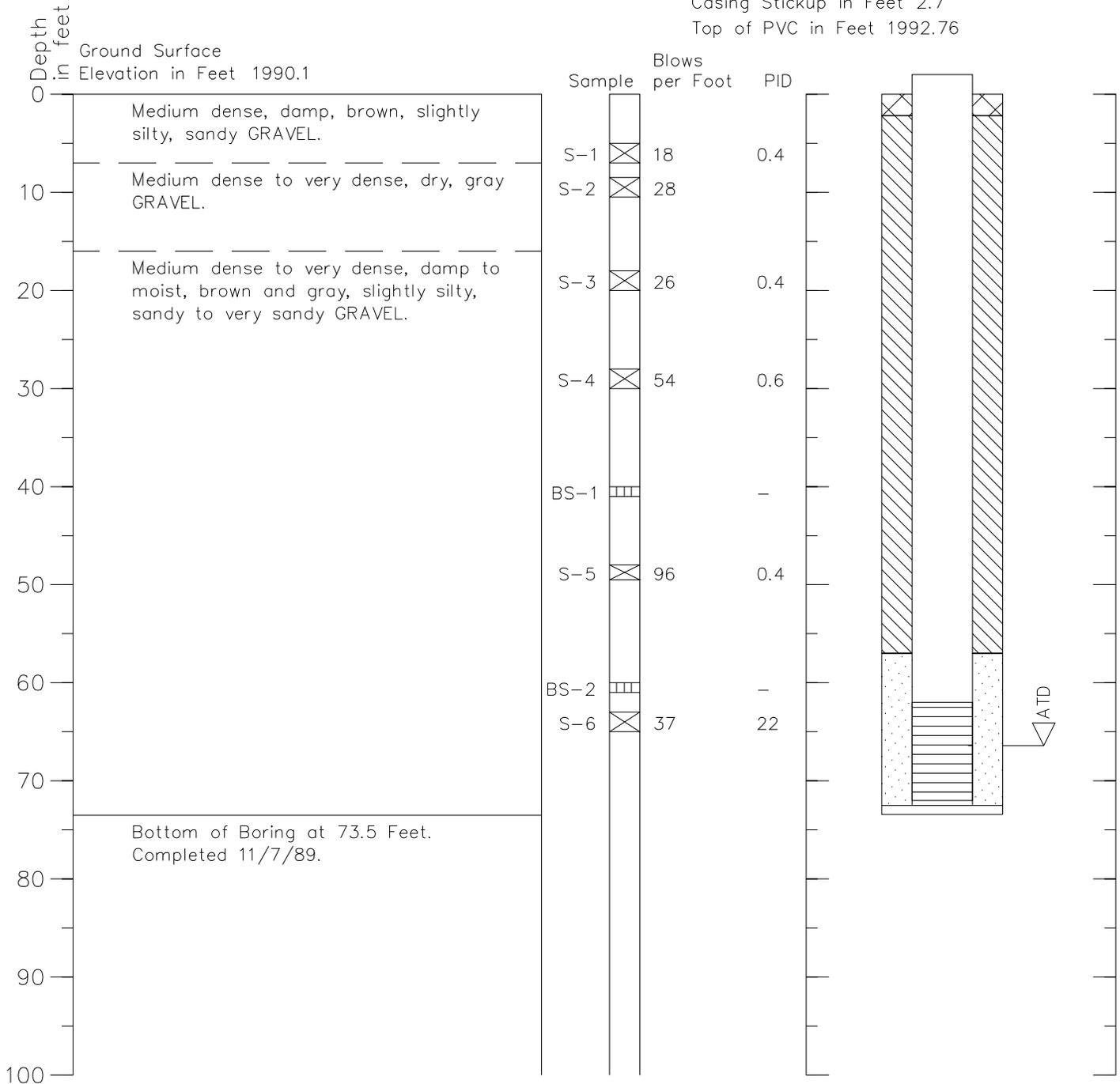
hel 4/14/03i=1
 264476 logs 64.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-6

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.7
Top of PVC in Feet 1992.76



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

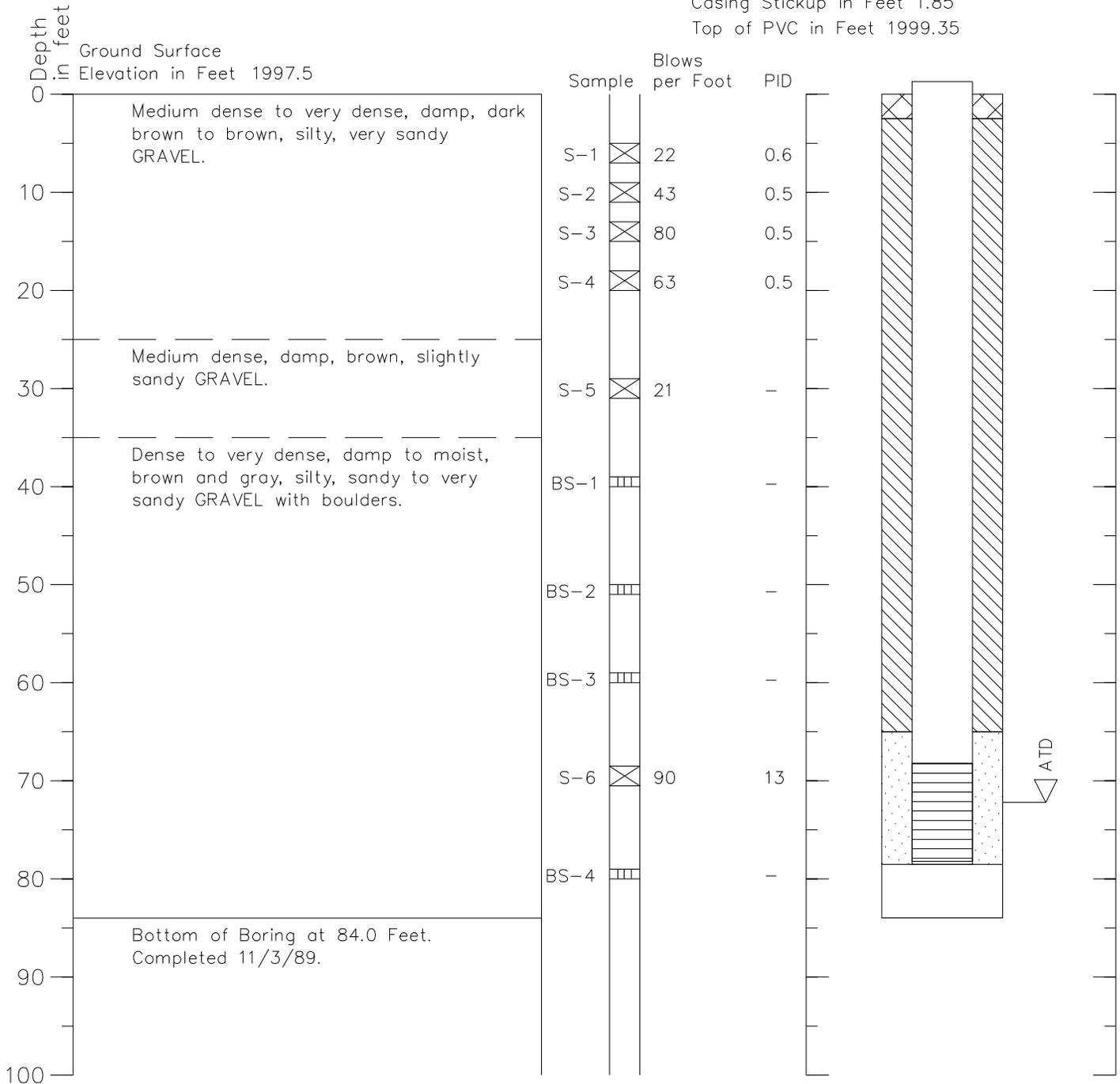
hel 4/14/03f=1
264476 logs 65.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-7

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.85
Top of PVC in Feet 1999.35



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

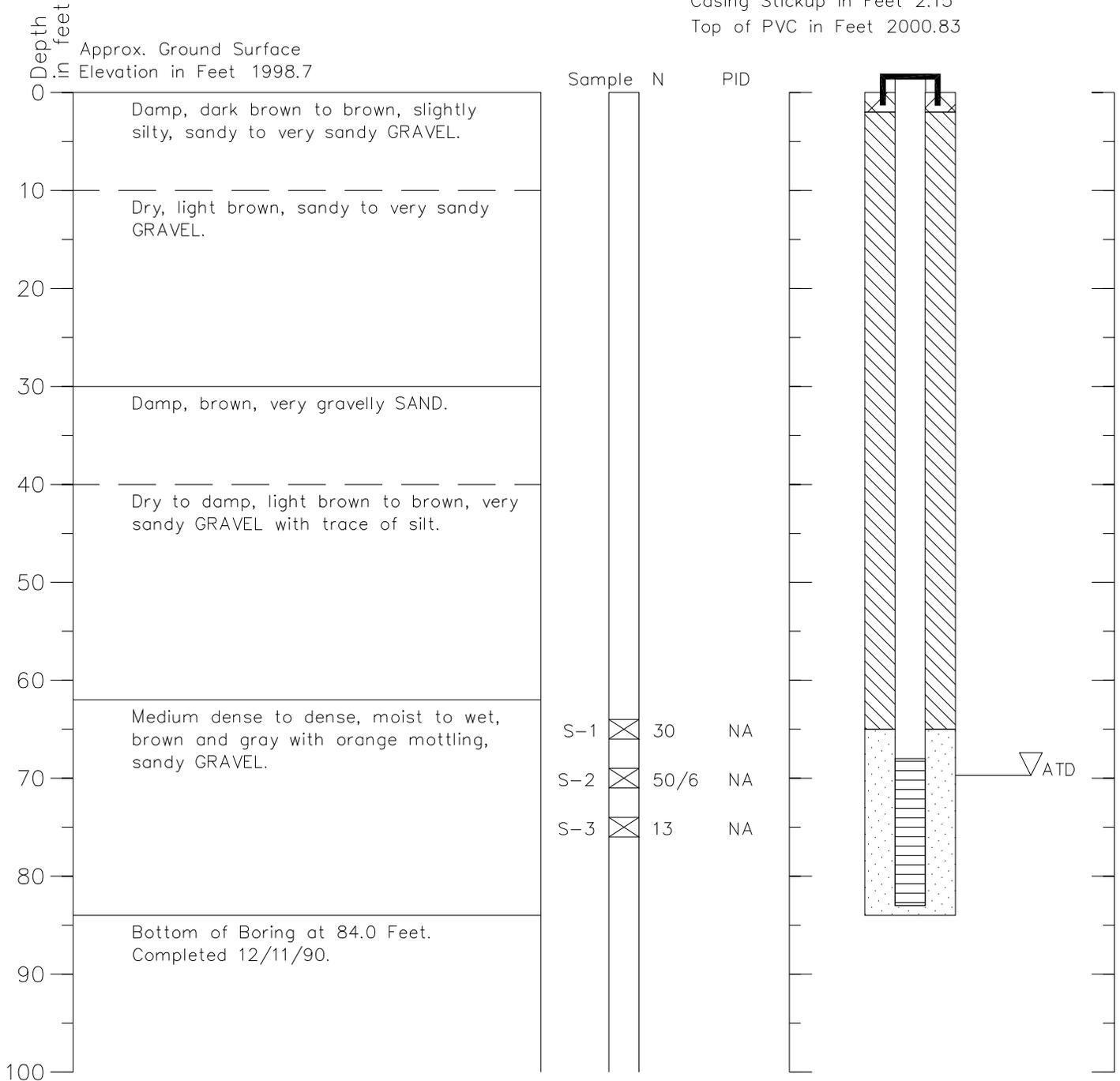
hel 4/14/03i=1
264476 logs 66.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-8

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.15
Top of PVC in Feet 2000.83



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

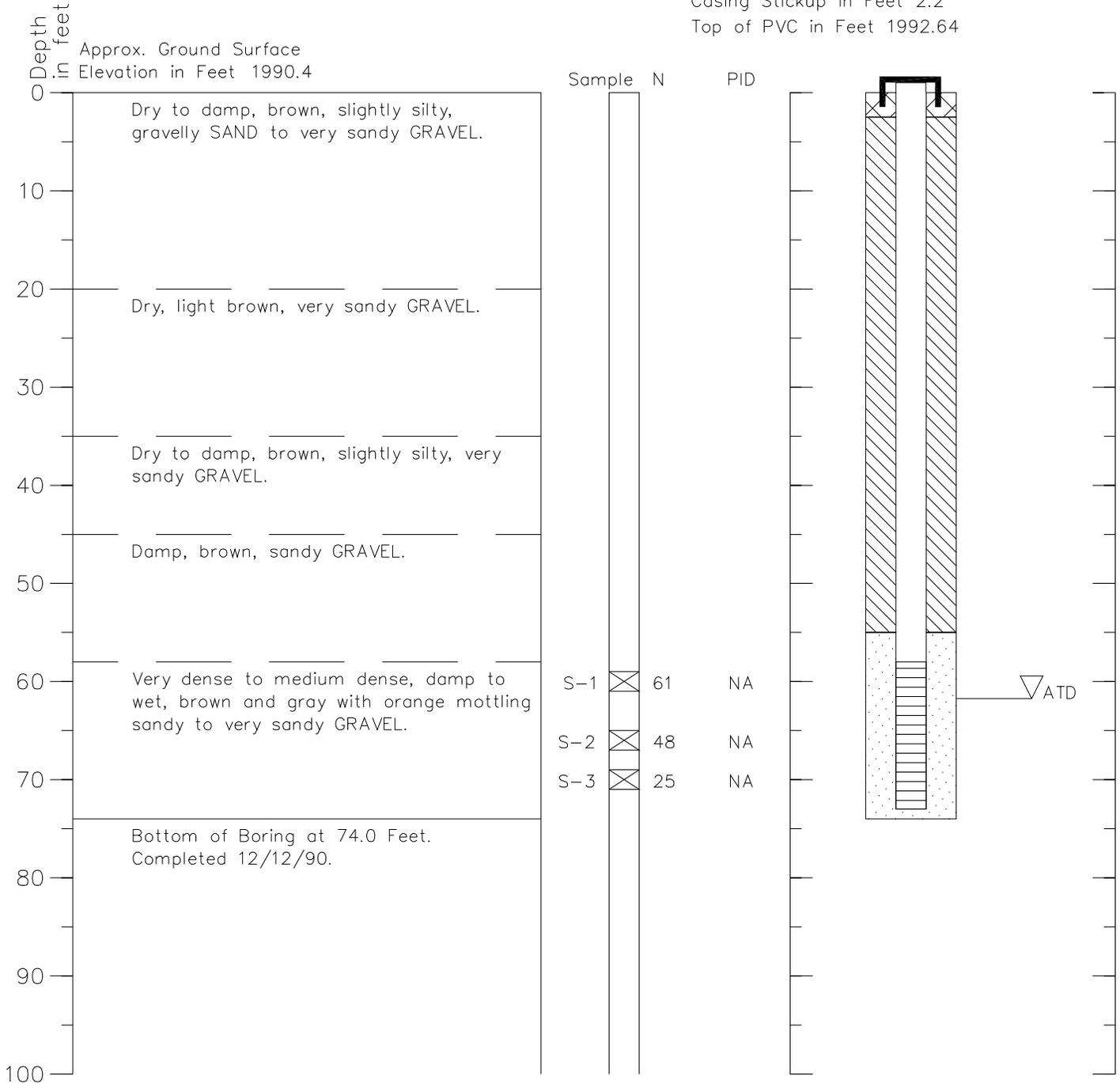
hel 4/14/03i=1
264476 logs 67.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-9

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.2
 Top of PVC in Feet 1992.64



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

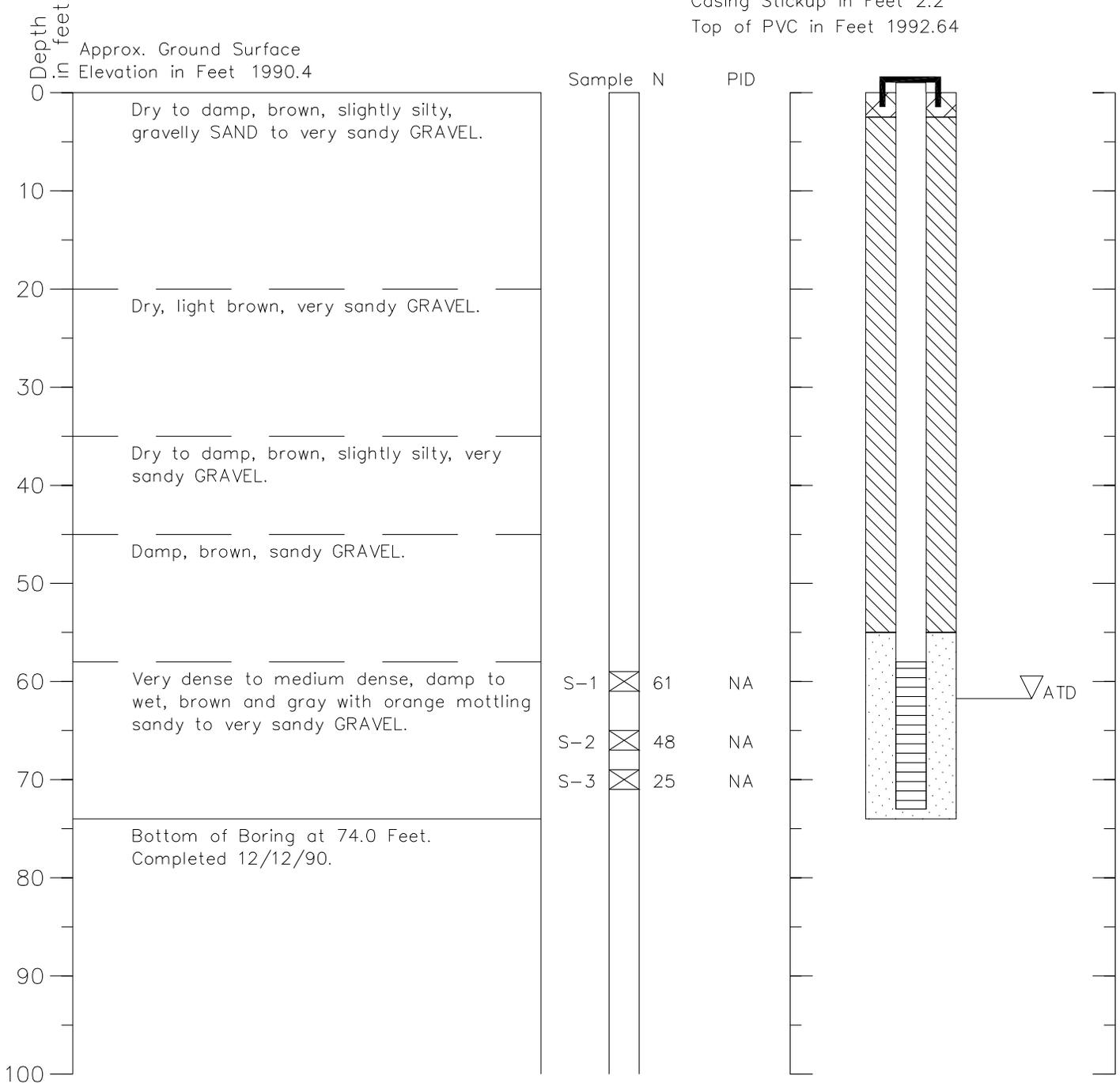
hel 4/14/03i=1
 264476 logs 68.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-9

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.2
 Top of PVC in Feet 1992.64



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

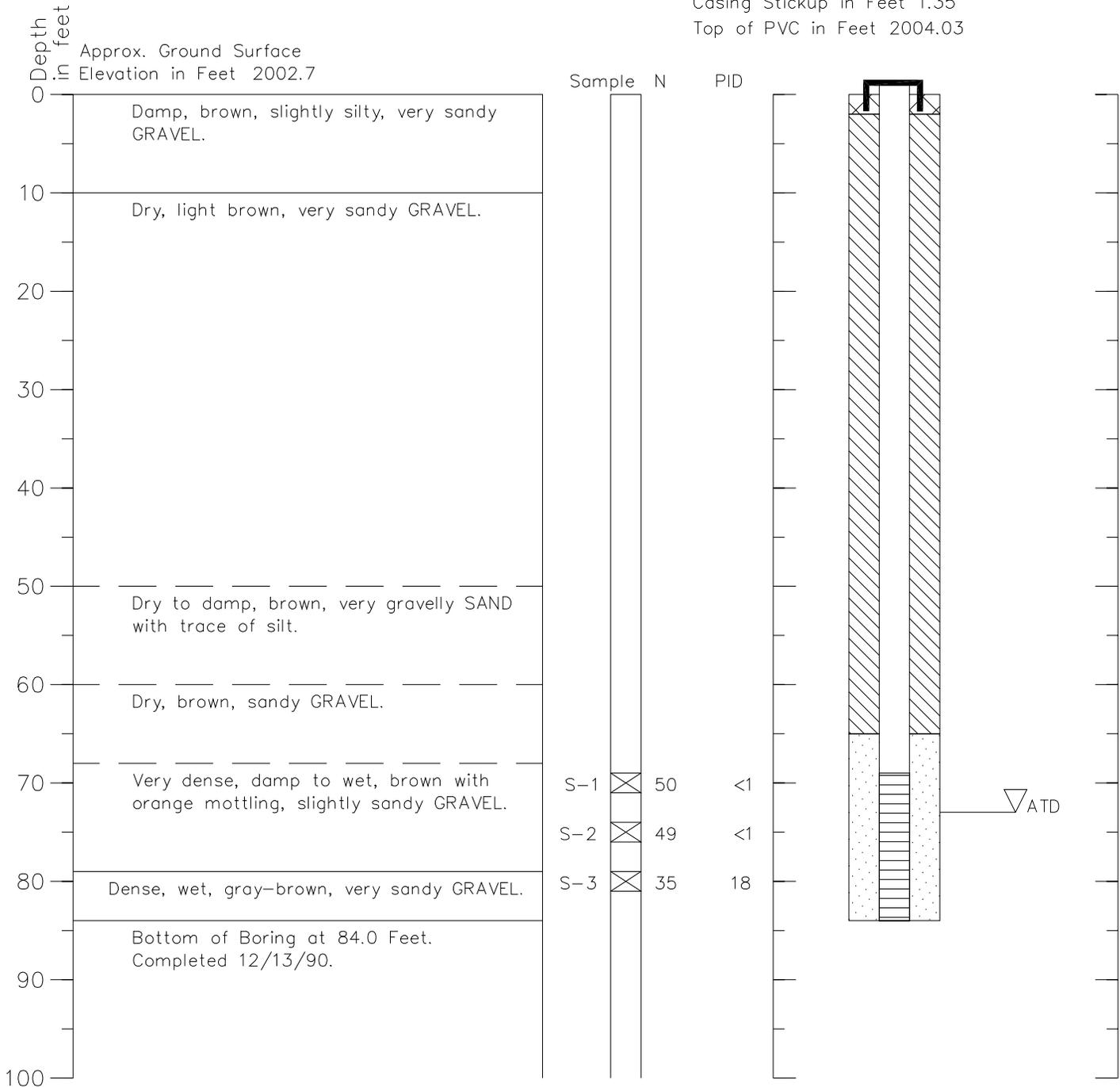
hel 4/14/03i=1
 264476 logs 68.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-10

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.35
 Top of PVC in Feet 2004.03



hel_4/14/03i=1
 264476_logs_69.dwg

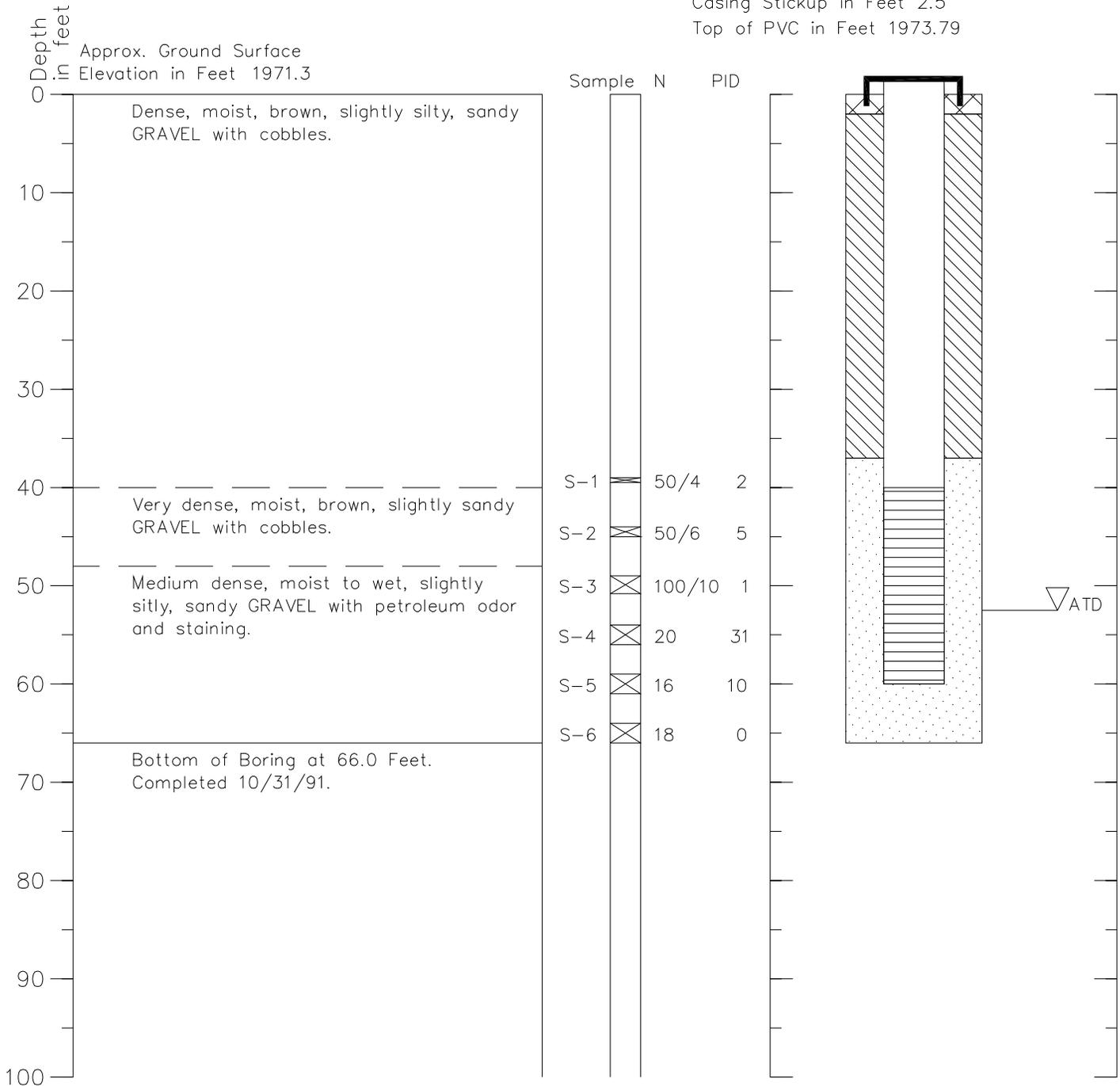
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well WW-MW-11

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.5
Top of PVC in Feet 1973.79



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

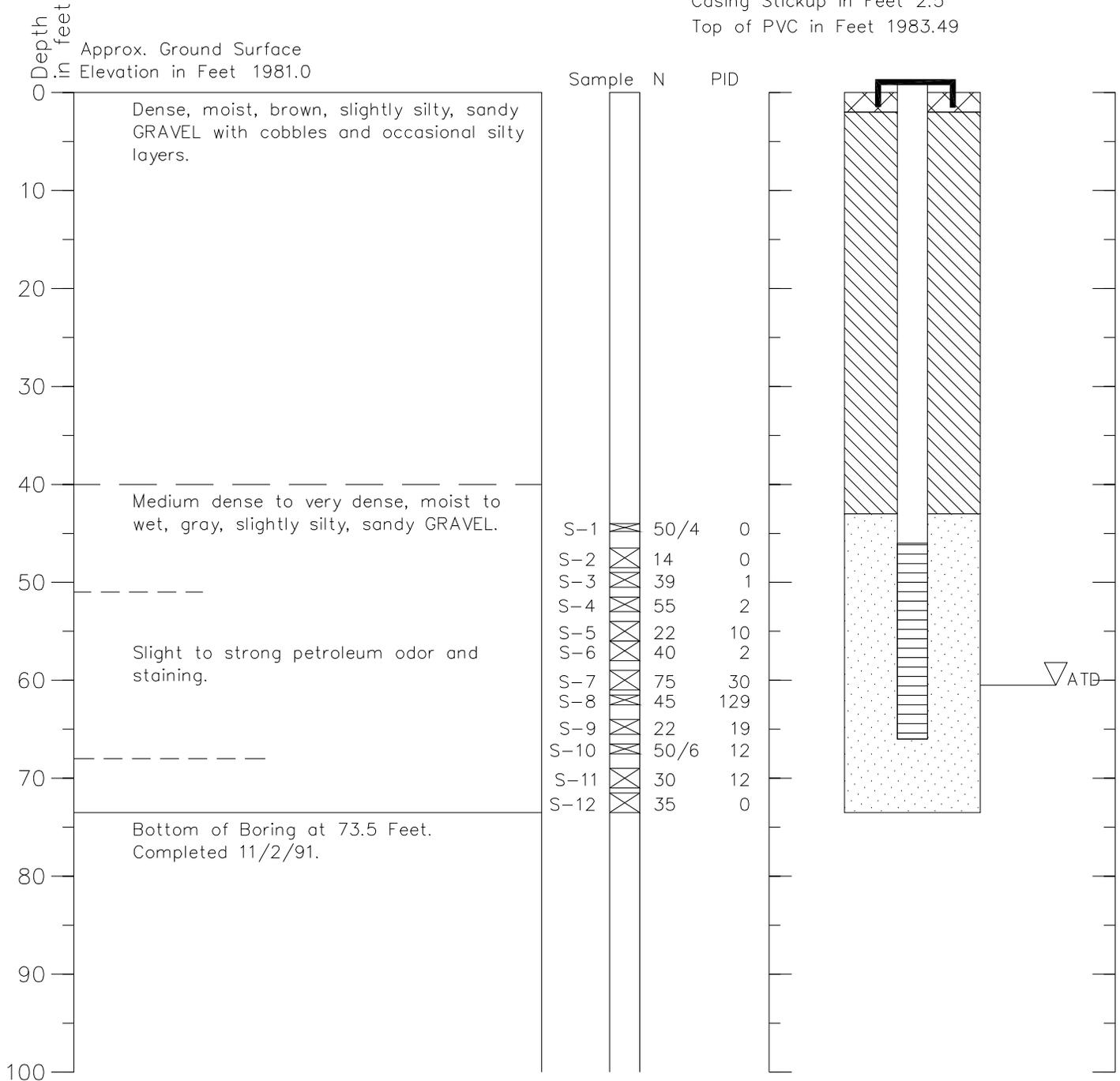
hel 4/14/03i=1
264476 logs 70.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-12

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 2.5
Top of PVC in Feet 1983.49



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

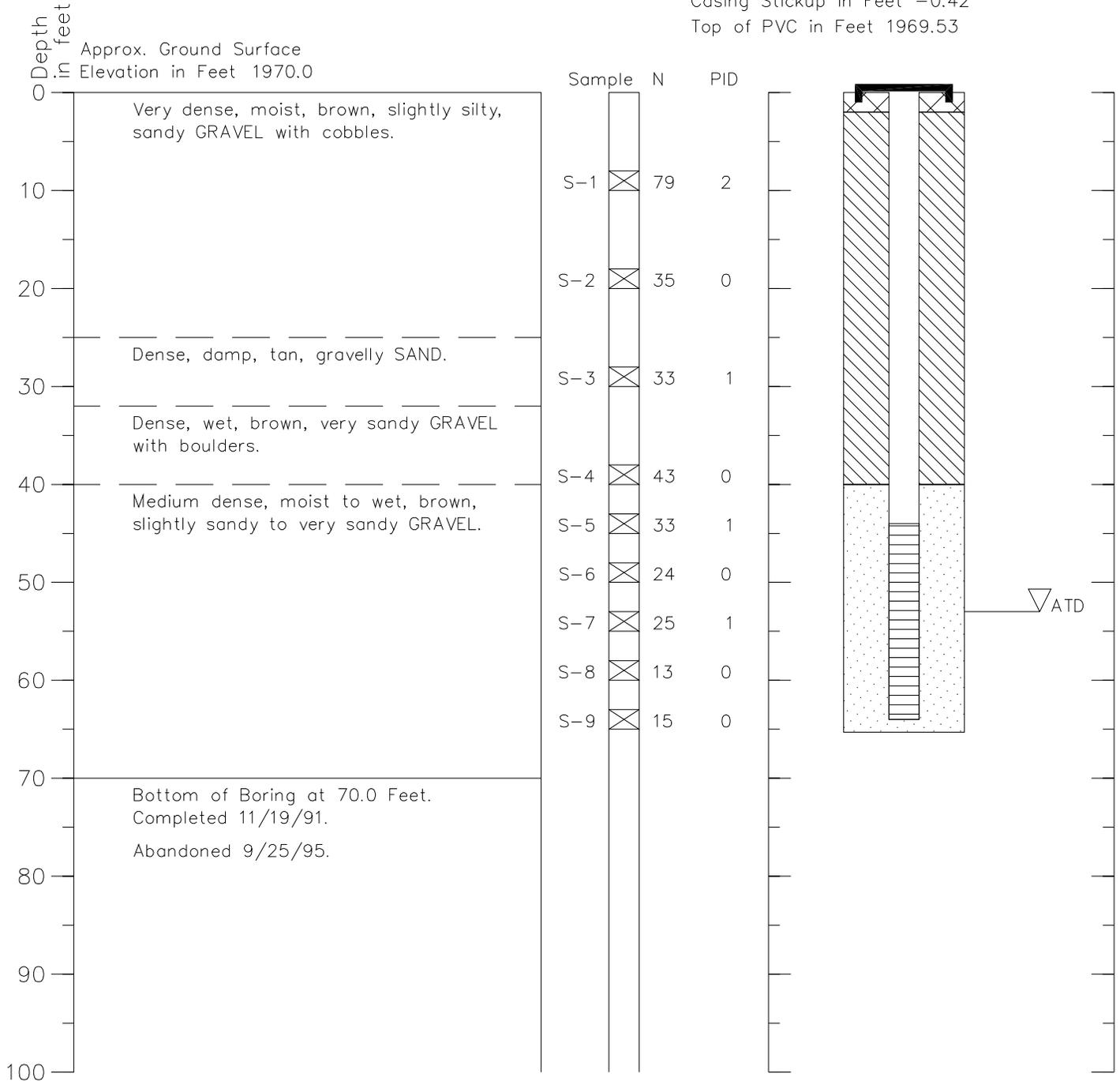
hel 4/14/03i=1
264476 logs 71.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-14

Geologic Log

Monitoring Well Design

Casing Stickup in Feet -0.42
Top of PVC in Feet 1969.53



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

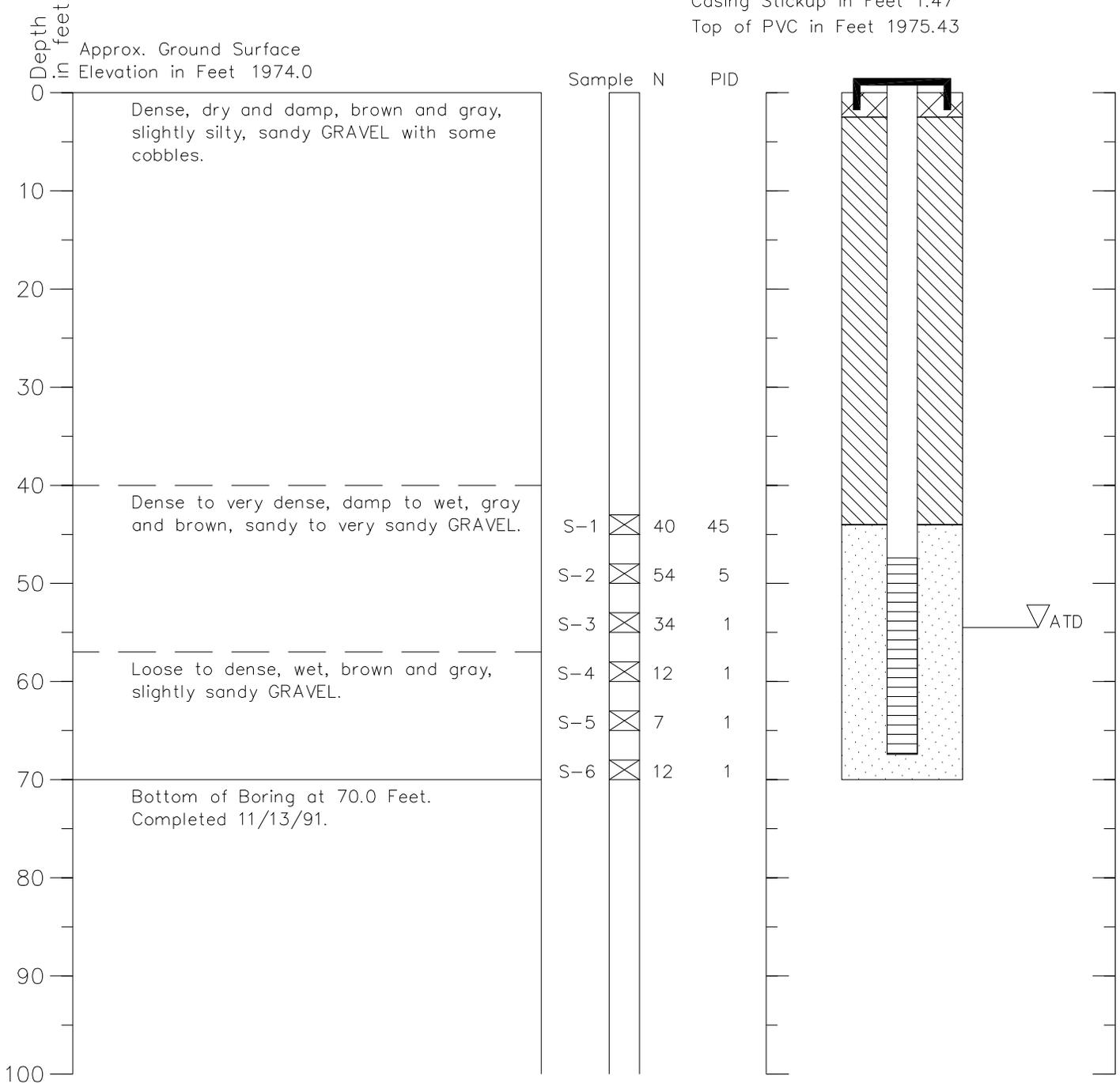
hel 4/14/03i=1
264476 logs 73.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-15

Geologic Log

Monitoring Well Design

Casing Stickup in Feet 1.47
 Top of PVC in Feet 1975.43

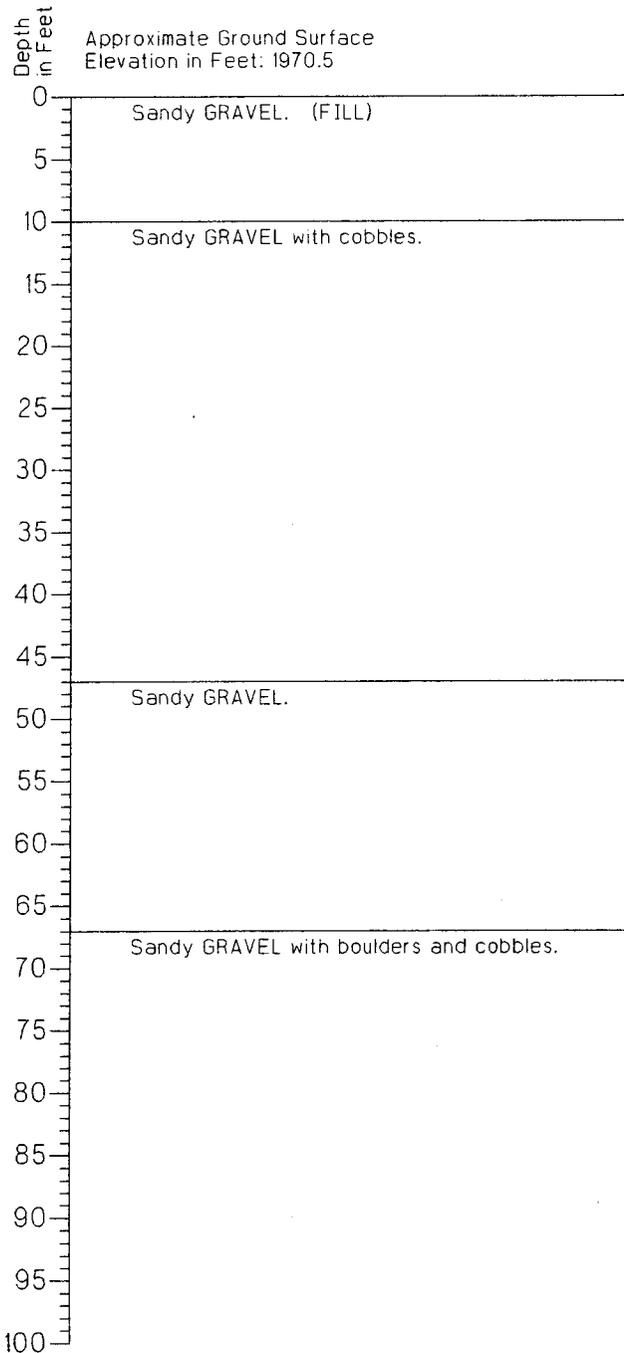


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

hel 4/14/03i=1
264476 logs 74.dwg

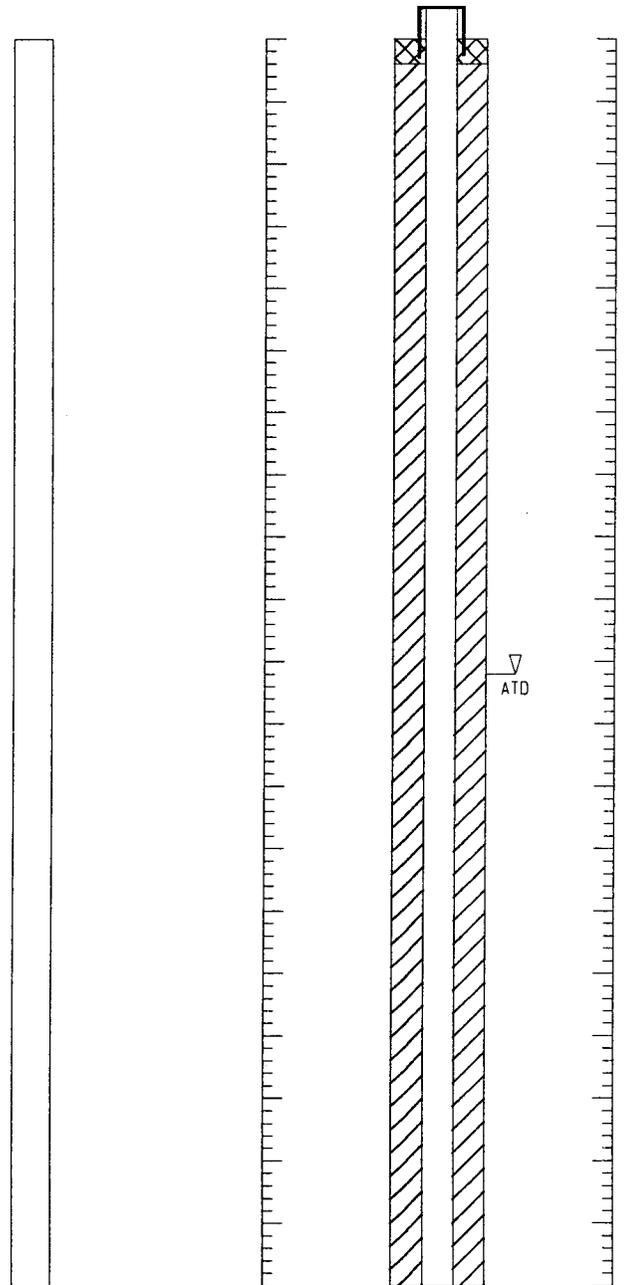
Boring Log and Construction Data for Monitoring Well WW-MW-16

Geologic Log



Monitoring Well Design

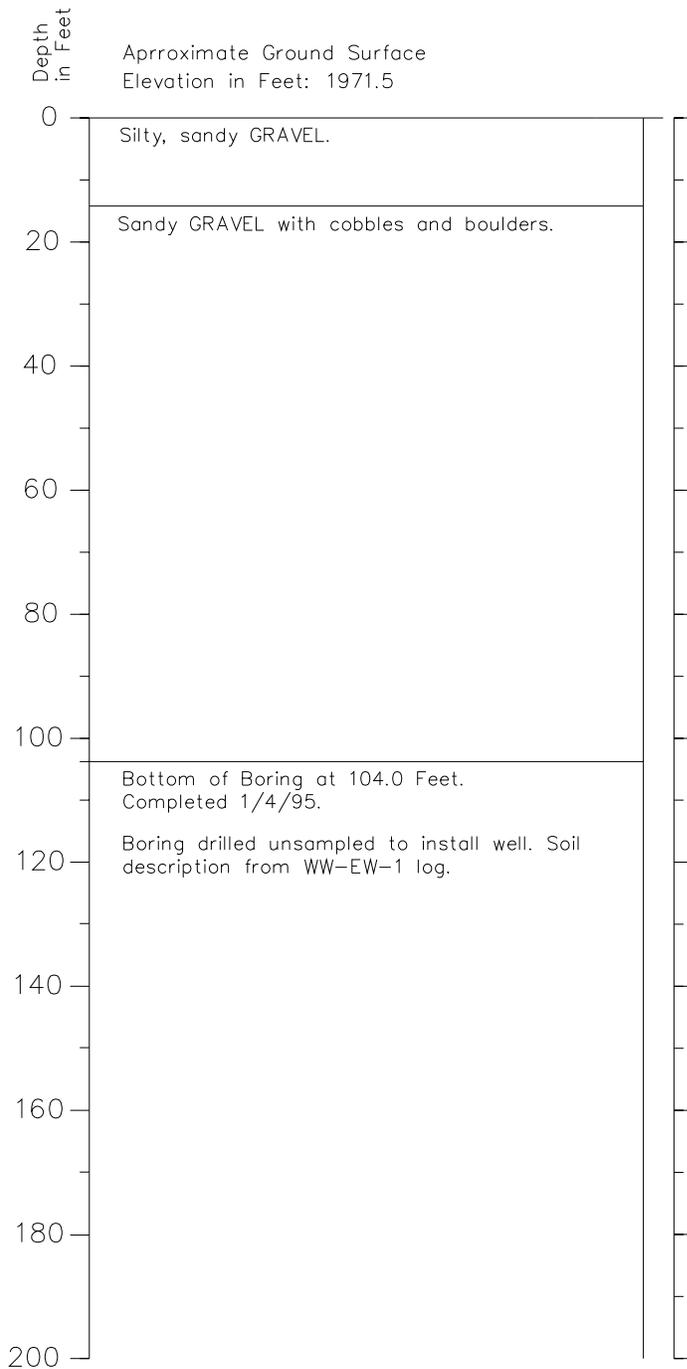
Casing Stickup in Feet: 2.62
Top of PVC in Feet 1973.12



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

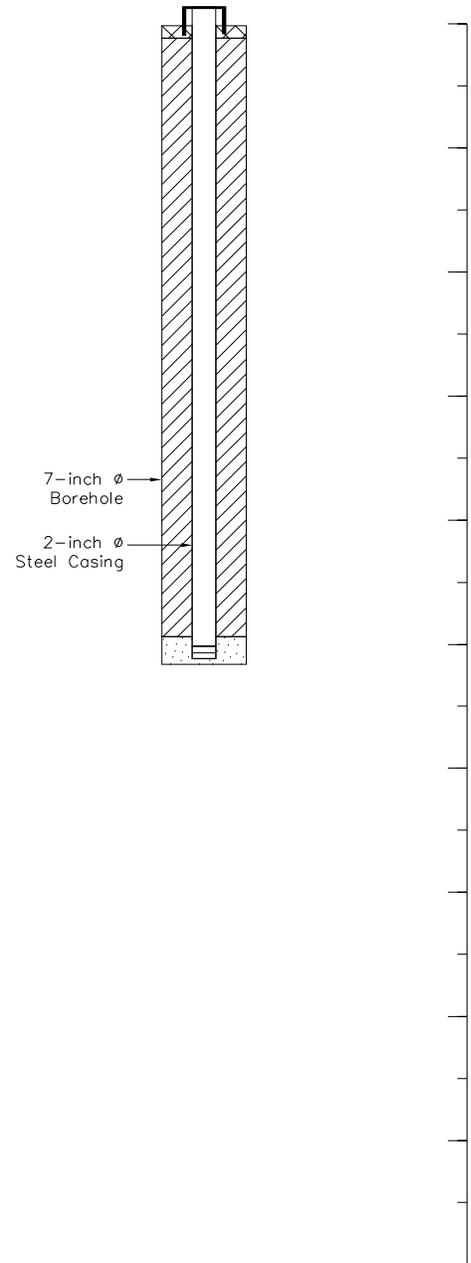
Boring Log and Construction Data for Monitoring Well WW-MW-17

Geologic Log



Well Design

Casing Stickup in Feet: -2.87
Top of Casing in Feet: 1974.37



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

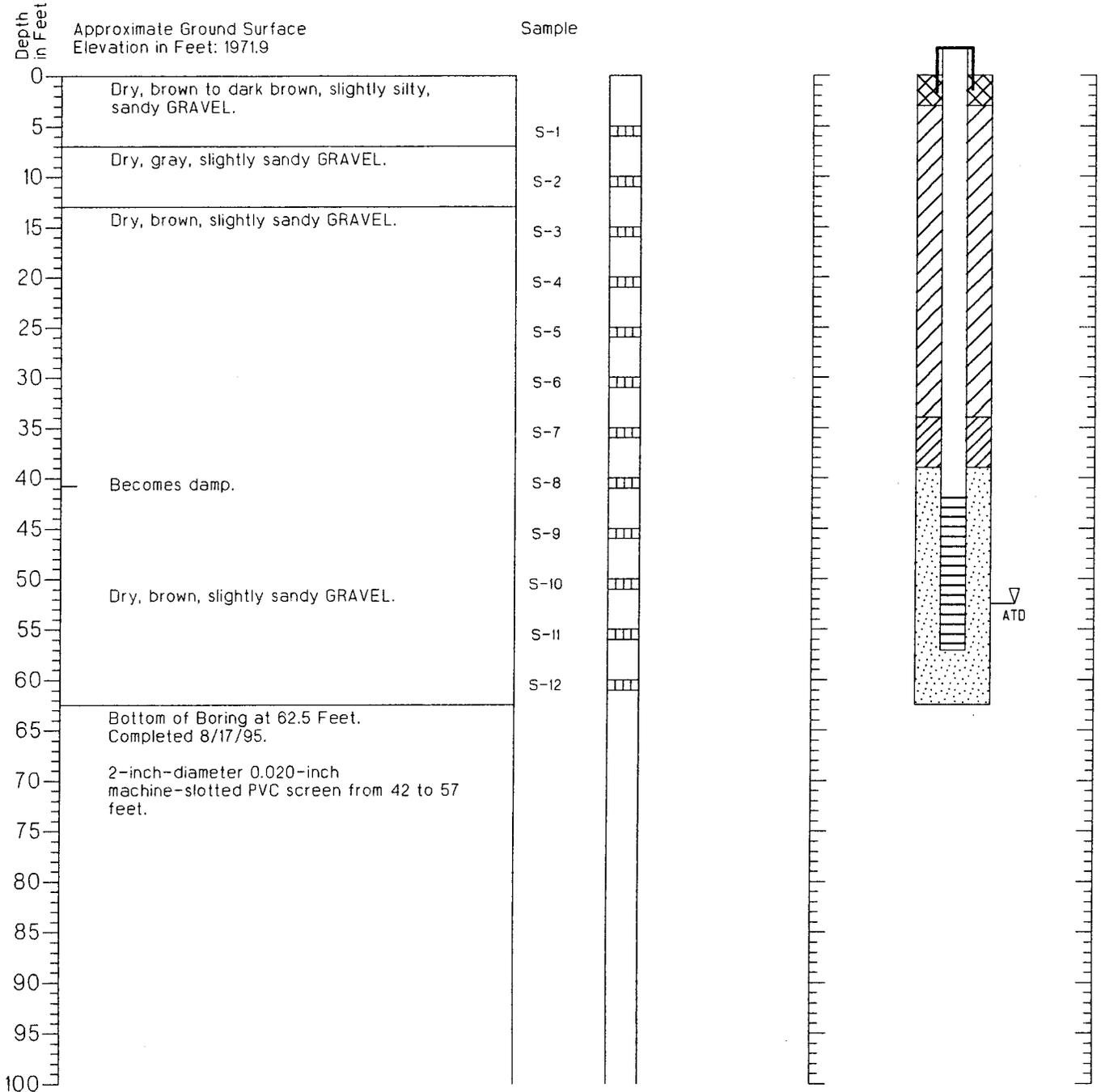
hel_4/14/03_1=1
264476 logs 75.dwg

Boring Log and Construction Data for Monitoring Well WW-MW-18

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 2.84
Top of PVC in Feet 1974.74



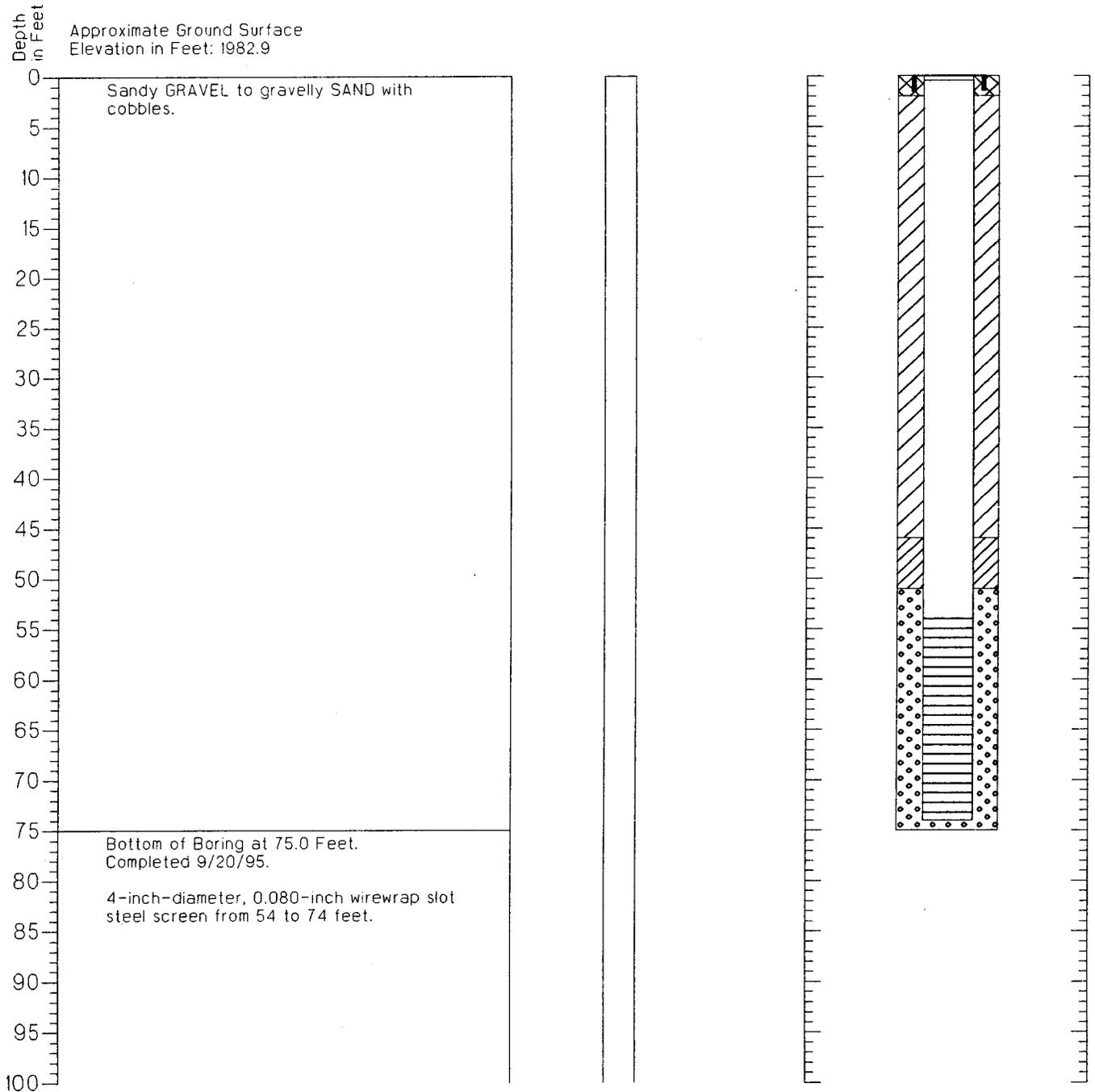
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Monitoring Well WW-MW-19

Geologic Log

Monitoring Well Design

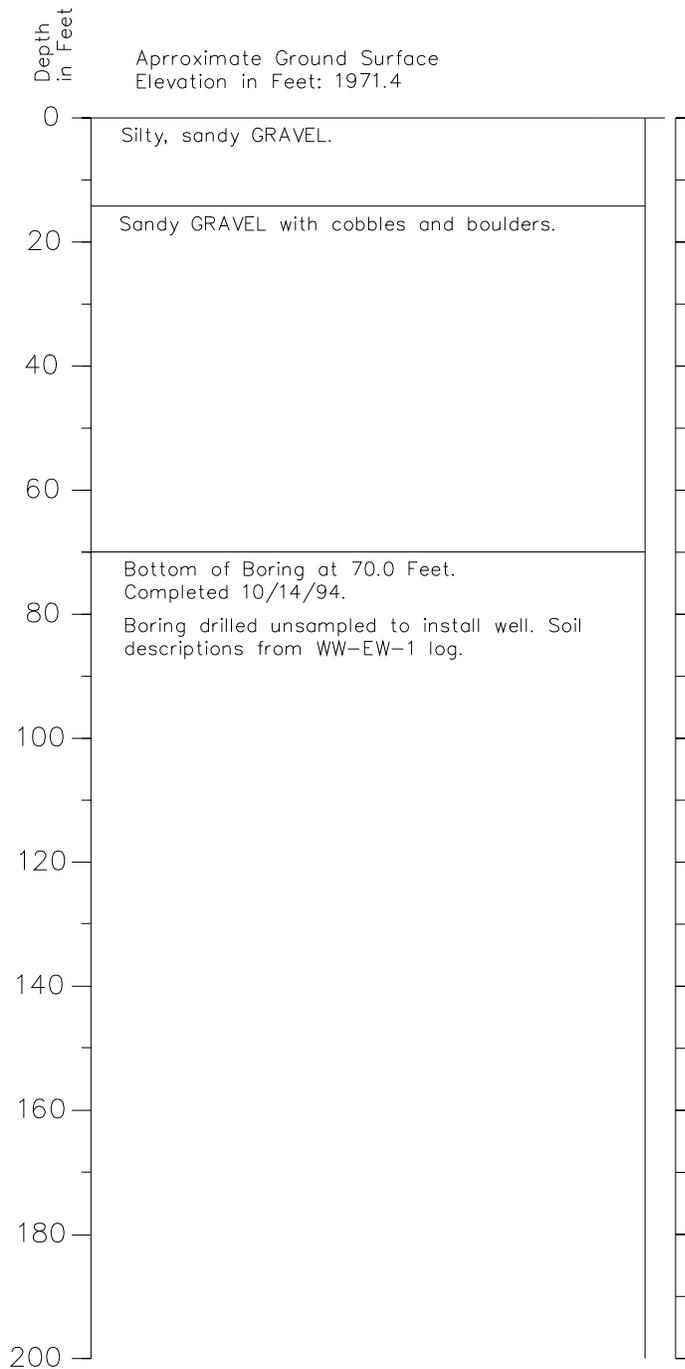
Casing Stickup in Feet: -0.45
Top of PVC in Feet 1982.46



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

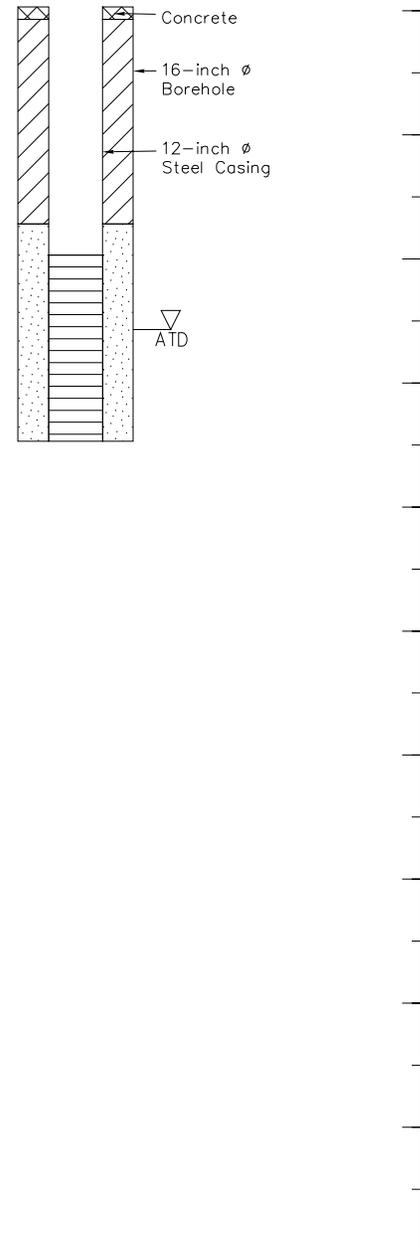
Boring Log and Construction Data for Skimming Well WW-SK-1

Geologic Log



Well Design

Casing Stickup in Feet: -2.97
Top of Casing in Feet: 1974.37



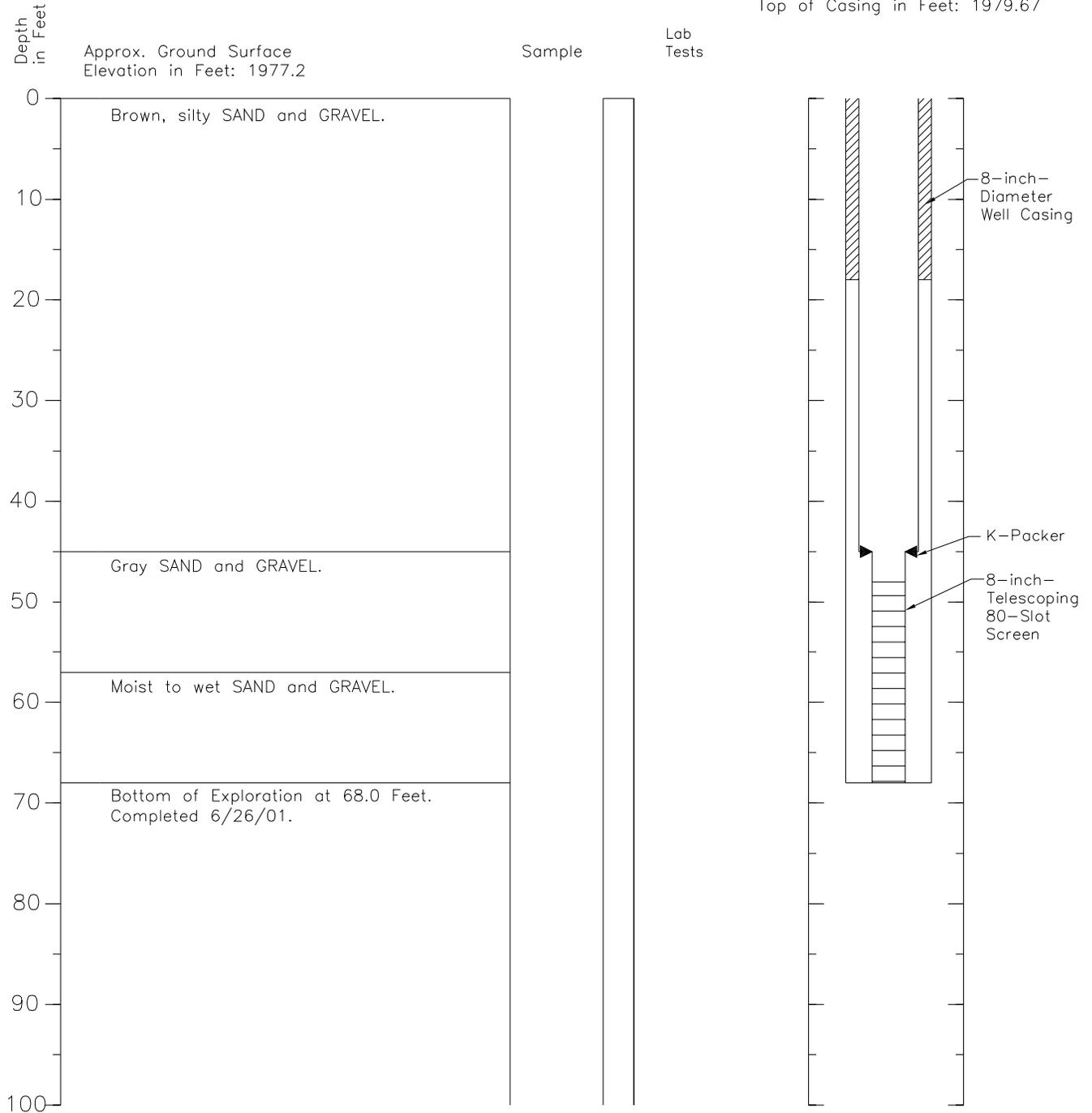
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Well Log WW-SK-2

Geologic Log

Extraction Well Design

Casing Stickup in Feet: 2.47
 Top of Casing in Feet: 1979.67



HEL 4/14/03 1=1
 264476 logs SK-2.dwg

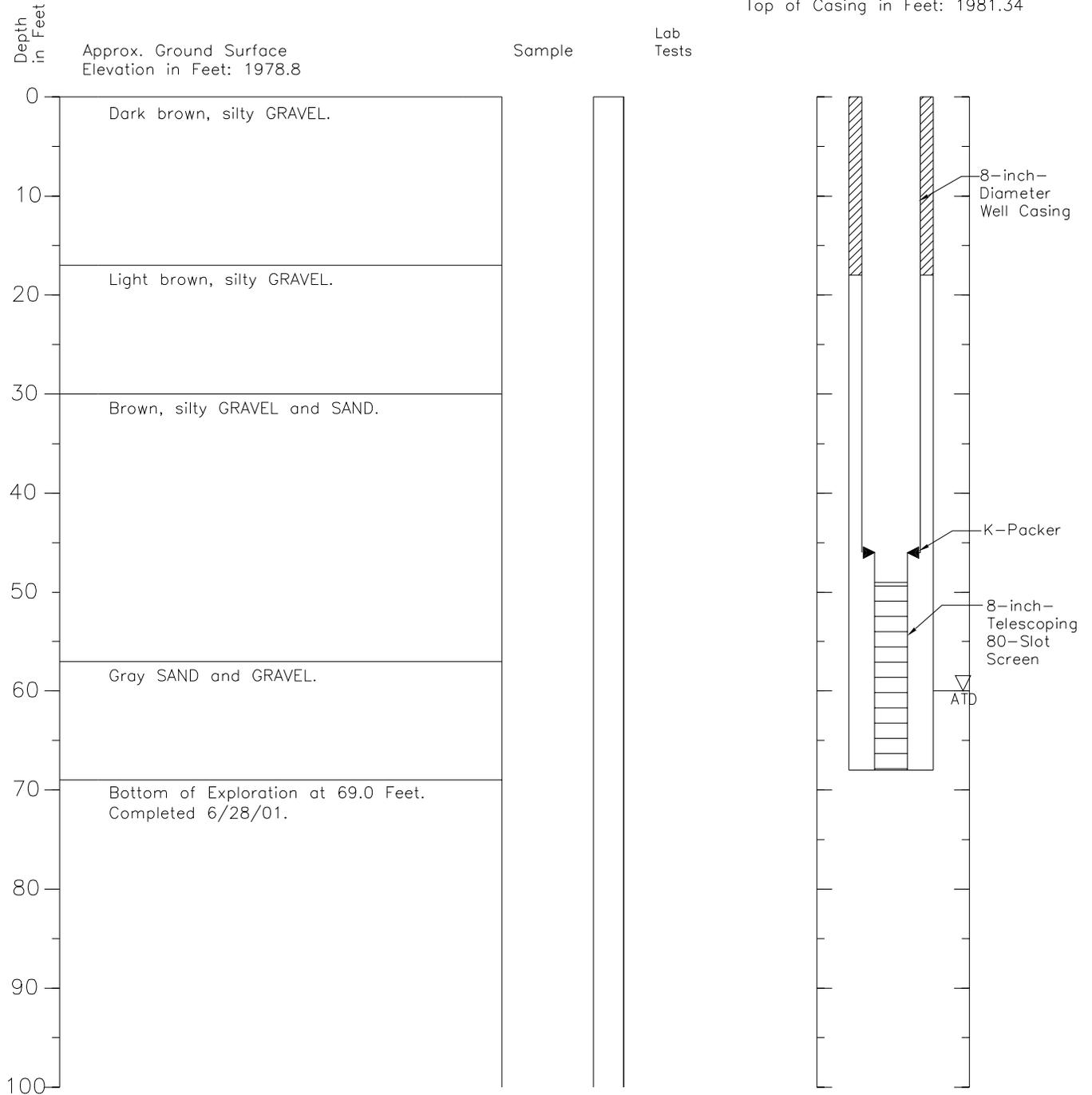
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and stick up reported by Holt Drilling. Actual TOC elevation will be surveyed at a later date.

Well Log WW-SK-3

Geologic Log

Extraction Well Design

Casing Stickup in Feet: 2.54
 Top of Casing in Feet: 1981.34



HEL 4/14/03 1=1
 264476 logs SK-3.dwg

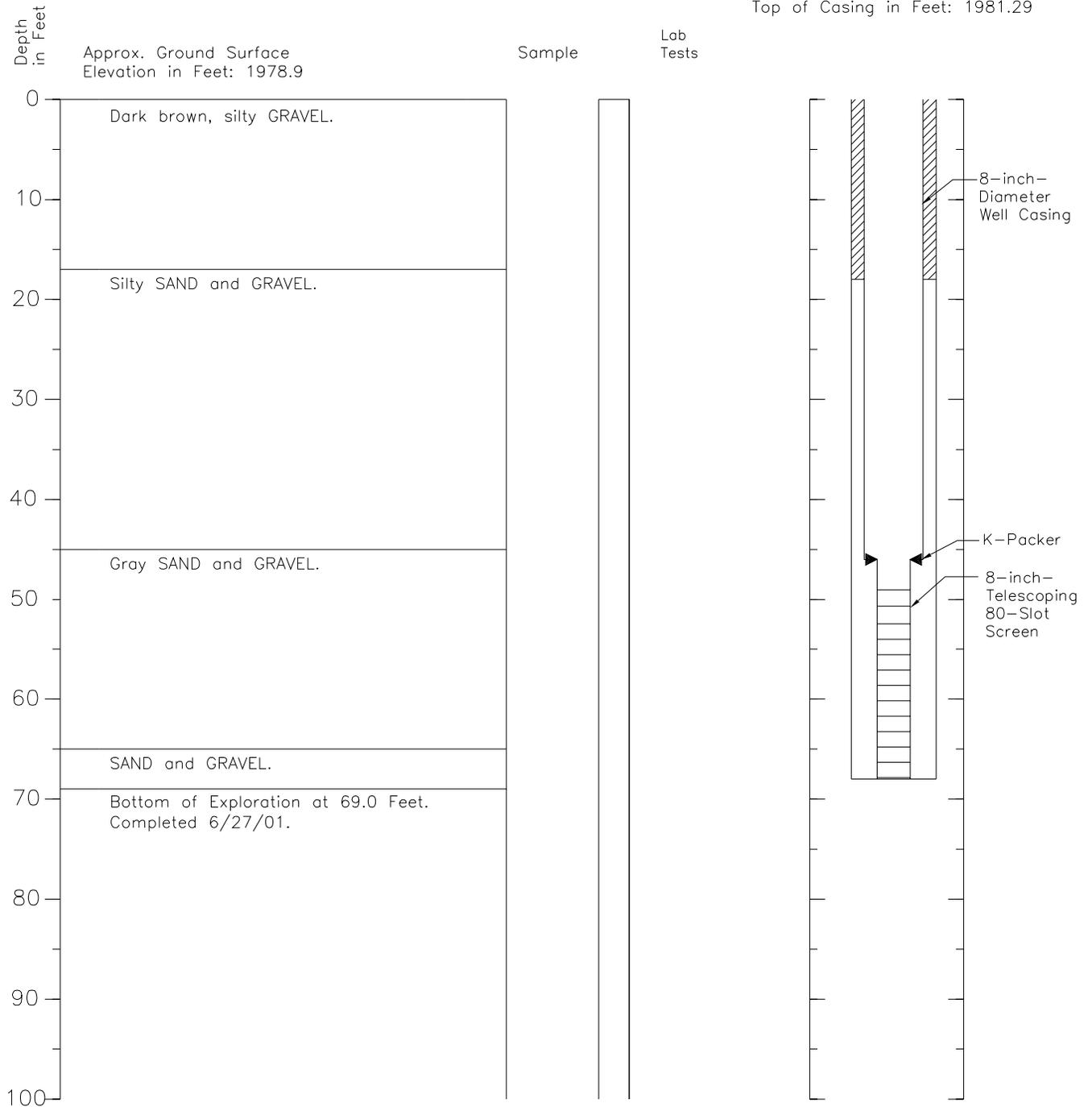
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and stick up reported by Holt Drilling. Actual TOC elevation will be surveyed at a later date.

Well Log WW-SK-4

Geologic Log

Extraction Well Design

Casing Stickup in Feet: 2.39
 Top of Casing in Feet: 1981.29



HEL 4/14/03 1=1
 264476 logs SK-4.dwg

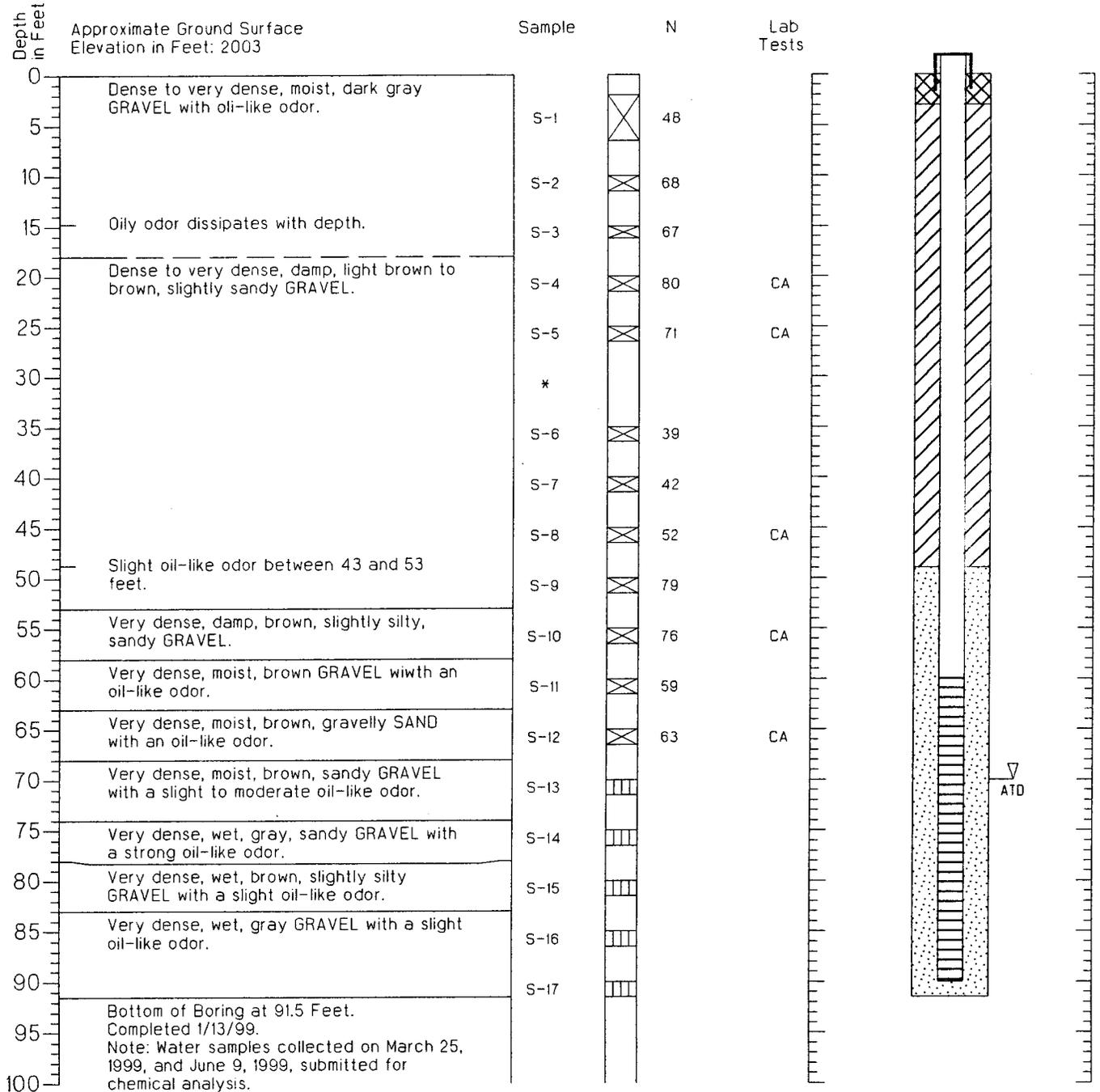
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Top of casing (TOC) elevation was calculated based on surveyed ground surface elevation and stick up reported by Holt Drilling. Actual TOC elevation will be surveyed at a later data.

Boring Log and Construction Data for Monitoring Well WW-TL-MW-01

Geologic Log

Monitoring Well Design

Casing Stickup in Feet: 2.0
Top of Casing in Feet 2005



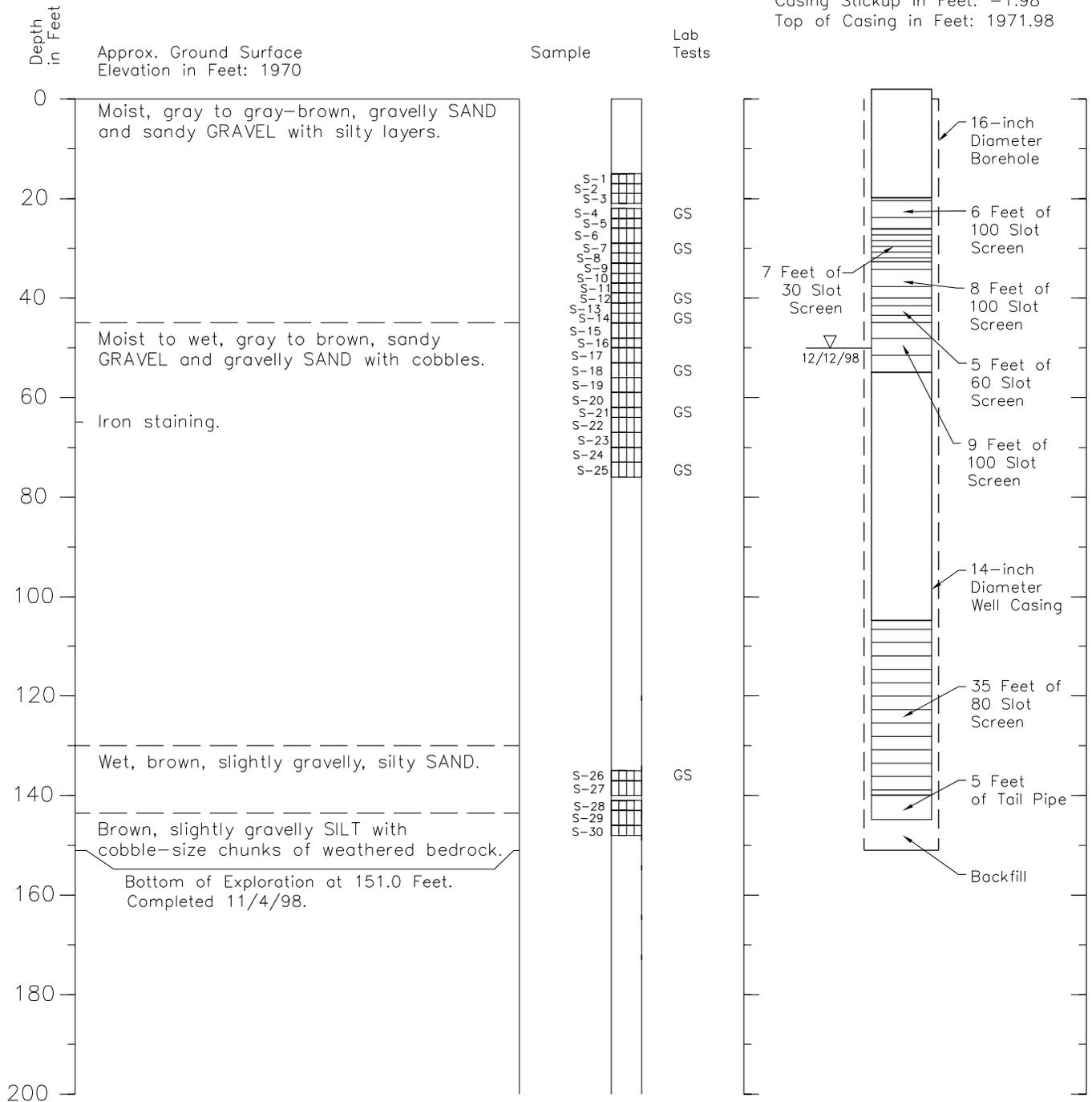
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log and Construction Data for Recirculation Well WW-UVB-1

Geologic Log

Recirculation Well Design

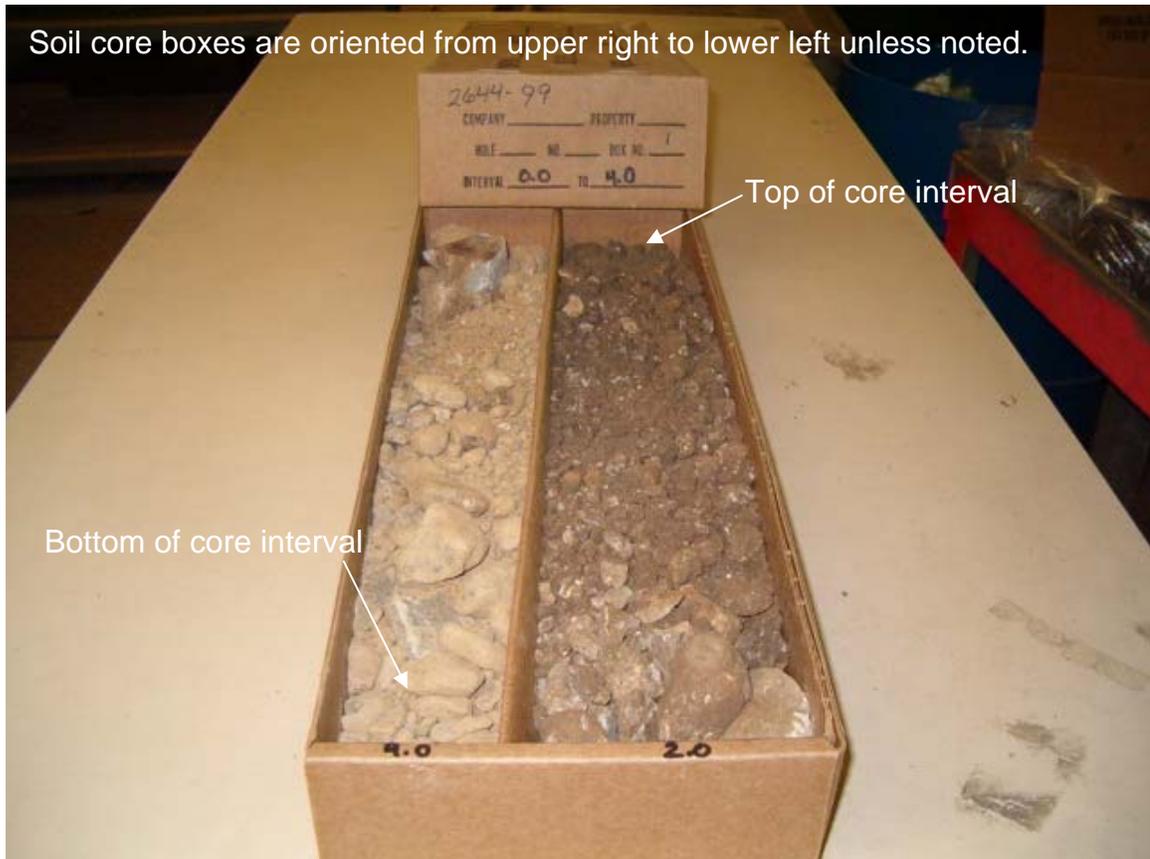
Casing Stickup in Feet: -1.98
Top of Casing in Feet: 1971.98



hel_4/14/03_1=1
264476 logs 77.dwg

1. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
2. Ground water level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Soil core boxes are oriented from upper right to lower left unless noted.



Photograph A-1 - HL-MW-28DD 0 to 4 feet below ground surface.



Photograph A-2 - HL-MW-28DD 4 to 8 feet below ground surface.



Photograph A-3 - HL-MW-28DD 8 to 18 feet below ground surface.



Photograph A-4 - HL-MW-28DD 18 to 26 feet below ground surface.



Photograph A-5 - HL-MW-28DD 26 to 33 feet below ground surface.



Photograph A-6 - HL-MW-28DD 33 to 42 feet below ground surface.



Photograph A-7 - HL-MW-28DD 42 to 46 feet below ground surface.



Photograph A-8 - HL-MW-28DD 46 to 50 feet below ground surface.



Photograph A-9 - HL-MW-28DD 50 to 54 feet below ground surface.



Photograph A-10 - HL-MW-28DD 54 to 57 feet below ground surface.



Photograph A-11 - HL-MW-28DD 57 to 61 feet below ground surface.



Photograph A-12 - HL-MW-28DD 65 to 70 feet below ground surface.



Photograph A-13 - HL-MW-28DD 70 to 74 feet below ground surface.



Photograph A-14 - HL-MW-28DD 74 to 78 feet below ground surface.



Photograph A-15 - HL-MW-28DD 78 to 82 feet below ground surface.



Photograph A-16 - HL-MW-28DD 82 to 98 feet below ground surface.



Photograph A-17 - HL-MW-28DD 98 to 108 feet below ground surface.



Photograph A-18 - HL-MW-28DD 108 to 109 feet below ground surface.



Photograph A-19 - HL-MW-28DD 109 to 118 feet below ground surface.



Photograph A-20 - HL-MW-28DD 118 to 133 feet below ground surface.



Photograph A-21 - HL-MW-28DD 133 to 140 feet below ground surface.



Photograph A-22 - HL-MW-28DD 140 to 144 feet below ground surface.



Photograph A-23 - HL-MW-28DD 144 to 148 feet below ground surface.



Photograph A-24 - HL-MW-28DD 148 to 150 feet below ground surface.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Well #3

WELL LOG

Date June 16, 1963

Appl. #6748 No. /

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Spokane

Area

Map

SE 1/4 SE 1/4 sec. 35 T26 N, R. 44 E, W.

Diagram of Section

Drilling Co. Holman Drilling Corporation

Address E. 3410 Ninth Ave., Spokane 31, Washington

Method of Drilling Cable Date March 6, 1963

Owner Trantwood Irrigation District

Address 1415 Trent Rd., Trantwood, Washington.

Land surface, datum 0 ft. above 511.98 below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
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(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column. If feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Coarse gravel & boulders	0	16
	Coarse gravel	16	70
	Gravel with hardpan & clay	70	86
	Coarse gravel	86	96
	Hardpan & gravel	96	101
	Gravel and sand	101	103
	Fine gravel and clay	103	110
	Fine gravel	110	112
	Coarse gravel	112	132
	Fine gravel	132	134
	Coarse gravel	134	138
	Sand mixed with small gravel	138	142
	Casings: 20" from 0 to 140'		
	Perforated from 112 to 138'		
	No screens.		

Turn up

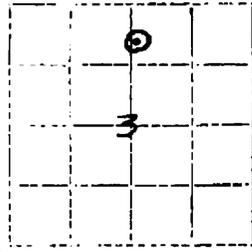
Sheet of sheets

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

WELL LOG

Unrecorded

Record by Driller
 Source Driller's record
 Location: State of WASHINGTON
 County Spokane
 Area.....
 Map.....
 NW 1/4 NE 1/4 sec. 3 T. 25 N., R. 44 E. ~~W~~
 Drilling Co. Holman Drilling Corp.
 Address 3410 E. 9th Spokane, Wash.
 Method of Drilling Cable Date Sept. 15, 1966
 Owner Trentwood Irrigation Dist. #3
 Address E. 14115 Trent Ave., Spokane, Wash.
 Land surface, datum..... (ft. above
 below)
 SWL: 77' Date Sept. 15, 1966 Dims: 16" x 120



CORRELATION	MATERIAL	From (feet)	To (feet)
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(Transcribe driller's terminology literally but emphasize as necessary, in parentheses, if material water-bearing, an static and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Irrigation		
	Topsoil	0	1
	Gravel	1	25
	Gravel, boulders	25	32
	Gravel 3/4 -4"	32	46
	Boulder	46	47
	Gravel 2-4"	47	54
	Gravel, cemented	54	84
	Gravel 1/2-1", loose	84	102
	Gravel 1/2-1", tight	102	108
	Gravel 1/2-1", loose	108	120
	Casing: 16" from 2-122'		
	Perforated from 88-118'		
	Surface sealed with bentonite slurry to 10'		
	Pump: 200 h.p. deep well turbine		
	Layne & Bowler		

Turn up

Sheet.....of..... sheets

TID-96

File Original and First Copy with Department of Ecology
Second Copy - Owner's Copy
Third Copy - Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. _____
Permit No. 63-26592

(1) OWNER: Name TRENTWOOD INC. DIST. #3 Address N 4402 SULLIVAN RD. SPOKANE
(2) LOCATION OF WELL: County SPOKANE 5 1/4 N. W. 1/4 Sec. 2 T5 N. R. 44 W.M.
and distance from section or subdivision corner

PROPOSED USE: Domestic Industrial Municipal
Irrigation Test Well Other

(4) TYPE OF WORK: Owner's number of well (if more than one) 1
New well Method: Dug Bored
Deepened Cable Driven
Reconditioned Rotary Jetted

(5) DIMENSIONS: Diameter of well 20 inches.
Drilled 236 ft. Depth of completed well 177 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 20 " Diam. from ±2 ft. to 128 ft.
Threaded 18 " Diam. from 154 ft. to 177 ft.
Welded " Diam. from _____ ft. to _____ ft.

Perforations: Yes No
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

Screens: Yes No
Manufacturer's Name JOHNSON
Type STAINLESS Model No. STD
Diam. 20 Slot size 150 from 128 ft. to 135 ft.
Diam. 20 Slot size 120 from 135 ft. to 149 ft.
20 Slot size 187 from 170 ft. to 177 ft.

Gravel packed: Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 20 ft.
Material used in seal CEMENT GROUT
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level 2020 ft.
Static level 102.6 ft. below top of well Date 7/15/81
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? DRILLER
Yield: 1500 gal./min. with 4.4 ft. drawdown after 1 hrs.
" 2000 " 4.5 " 2.5 "
" 3000 " 7.4 " 6 "

Recovery data (Time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level Time Water Level
0 10.7 _____ _____ _____
5 MIN 102.6 _____ _____ _____

Test date 7/15/81
Rate of test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water 48° Was a chemical analysis made? Yes No

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
SAND + GRAVEL 3" MIN	0	76
BOULDERS	76	78
SAND + GRAVEL 3" MIN	78	89
GRAVEL 1" MIN	89	108
GRAVEL 3" MIN *	108	137
GRAVEL + SAND 2" MIN *	137	151
GRAVEL + SAND 1" MIN *	151	154
SAND + BROWN CLAY	154	236

* INDICATES WATER BEARING STRATA

REL - VED

DEPARTMENT OF ECOLOGY
SPOKANE, WASHINGTON

PERMIT # 63-26592
2000 GPM
for 6000 feet

Work started 4/10, 1981. Completed 7/20, 1981

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME HOLMAN DRILLING CORP
(Person, firm, or corporation) (Type or print)

Address E 3410 9TH AVE
SPOKANE WA 99202

[Signed] Arnold E. Holman
(Well Driller)

License No. 0189 Date 8/19, 1981

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

8/31/81 (USE ADDITIONAL SHEETS IF NECESSARY)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

LAY HUFFA

Trentwood Irrigation District #3
N. 4402 Sullivan Rd.
Spokane, Washington 99216
922-7532

Well Log: Well #5
Record by: Driller
Source: Engineer's record

Location: NW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 1, T. 25 N., R. 44 E.W.M.
Spokane County, Washington

Drilling Co: E. A. Holman Drilling Co.
S. 601 Pines Rd.
Spokane, Washington 99206

Method of Drilling: Cable
Date: Feb. 15, 1968

Owner: Trentwood Irrigation District #3
N. 4402 Sullivan Rd.
Spokane, Washington 99216

SWL: 104'
Date: Feb. 15, 1968
Dims: 16" x 159'

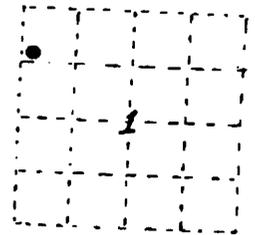


DIAGRAM OF SECTION

Material	From (feet)	To (feet)
Sand & gravel	0	10
Sand, silt & pea gravel	10	18
Sand & gravel	18	59
Sand, silt & pea gravel	59	81
Cemented sand & gravel	81	84
Sand & gravel	84	102
Very hard packed gravel	102	104
Good clean washed gravel up to 1 $\frac{1}{2}$ "	104	110
Gravel, to 2"	110	112
Gravel, to 1 $\frac{1}{2}$ "	112	117
Gravel, to 3"	117	122
Gravel, to 3 $\frac{1}{2}$ "	122	130
Gravel, to 2 $\frac{1}{2}$ "	130	140
Gravel, to 3"	140	150

9' of casing welded on top and back filled around to raise ground level.
Casing: 16" 0' to 159'
Perforated from 110' to 145'
Pump: 200 h.p. deep well turbine, Layne & Bowler.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Well 1-A

Appl. #7171

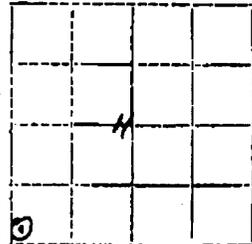
WELL LOG

No. Permit #6784

Date April 15, 1965

Record by Driller

Source Driller's Record



Location: State of WASHINGTON

County Spokane

Area N 72° 27' E, 309.2' from SW

Map Corner Sec. 11

SW ¼ SW ¼ sec. 11 T. 25 N., R. 44 E., E. ¼ W.

Diagram of Section

Drilling Co. Holman Drilling Corporation

Address 3410 E. 9th Ave., Spokane, Washington

Method of Drilling Cable Date July 23, 1964

Owner U.S. Bureau of Reclamation

Address Box 937, Boise, Idaho

Land surface, datum ft. above/below

CONSLATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
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(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Domestic, irrigation, industrial and municipal well		
	Gravel 1½" - 2"	0	25
	Gravel 1½" 2"	25	46
	Gravel 2" - 3½"	46	50
	Gravel 1½" 2"	50	58
	Sand and gravel to 3"	58	87
	Coarse sand, brown	87	103
	Gravel and sand to 2"	103	147
	Casing: 16" from 0 to 116'		
	Screened from 116 to 141'		
	Surface sealed with cement grout		
	SWL: 61' on July 24, 1964		
	Yields 1120 gpm with 0.7' DD after 18 hours		
	1570 gpm with 1.0' DD after 18 hours		
	2500 gpm with 1.8' DD after 18 hours		

Turn up

Sheet of sheets

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

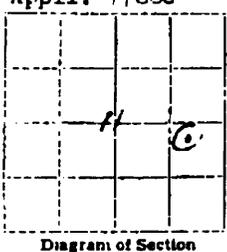
STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

WELL LOG Appli. #7886

Record by Driller
Source Driller's Record

Location: State of WASHINGTON
County Spokane
Area _____
Map _____
Gov't 1/4 Lot 8 sec 11 T 25 N. R. 44 E. 34
Drilling Co. Zinkgraf Well Drilling
Address 1606 East Sharp
Method of Drilling Cable Date Jan. 12, 19 66
Owner The Hillyard Processing Company
Address Box 6055, Spokane, Washington

Land surface, datum _____ ft. above
SWL: 60' Date Jan. 12, 19 66 Dims. 10" x 125'



COMBINATION	MATERIAL	From (feet)	To (feet)
-------------	----------	-------------	-----------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Municipal supply		
	Gravel w/occasional boulders	0	43
	Gravel, 3/4" up to 3"	43	52
	Boulders, large	52	56
	Rocks, large	56	61
	Mixture - pea gravel up to		
	5" round	61	75
	Sand, coarse	75	82
	Gravel, 3/4"	82	86
	Sand, coarse, & gravel	86	103
	Gravel, 3/4" up to 3" round	103	125
	Casing: 10" from 0-125'		
	Perforated from 106-115'		
	Also from 106-120'		
	Pump: 40 h.p. turbine		
	Peerless		

Turn up _____ Sheet _____ of _____ sheets

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Appl. 4309

Date Sept. 20, 19 56

Record by well driller

Source driller's record

Location: State of WASHINGTON

County Spokane

Area

Map

NW 1/4 NE 1/4 sec. 11 T. 25 N. R. 44 E.

Diagram of Section

Drilling Oliver F. Zinkgraf

Address Spokane, Wash.

Method of Drilling Date Sept. 1956

Owner Cominco Products Inc.

Address Spokane, Wash.

Land surface, datum ft. above
below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
-------------	----------	------------------	--------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Top soil	2	2
	Nigger heads, boulders		
	gravel	20	22
	Sand, gravel, few		
	boulders	18	40
	Sand, gravel, boulders	20	60
	" " few boulders	55	115
	Diam. 115'x10"		
	SWL: 74 ft.		
	DD: 1 ft.		
	Yield: 200 g.p.m.		
	Water Temp. 56° F.		
	Type & size of pump: deep well		
	turbine 8"		
	Type & size of engine: vertical shaft		
	25 h.p.		

Turn up

(over)

Sheet of sheets

WATER WELL REPORT

STATE OF WASHINGTON

Application No. G3-21634

Permit No. G3-21634P

(1) OWNER: Name COMINGO AMERICAN INCORPORATED Address Building 101, Spokane Ind'l Park, Spokane
 (2) LOCATION OF WELL: County Spokane NW NE 1/4 NE 1/4 Sec. 11 T. 25 N. R. 44 W.M
 and distance from section or subdivision corner 626 Feet South & 437 Feet West from NE Cor. Sec. 11

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
 New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted

(5) DIMENSIONS: Diameter of well 18 inches
 Drilled 150 ft. Depth of completed well 150 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 18" Diam. from 0 ft. to 150 ft.
 Threaded " Diam. from " ft. to " ft.
 Welded 18" Diam. from 0 ft. to 150 ft.

Perforations: Yes No
 Type of perforator used _____
 SIZE of perforations _____ in. by _____ in.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.

Screens: Yes No
 Manufacturer's Name Edward E. Johnson, Inc.
 Type Stainless Steel Model No. _____
 Diam. 18" Slot size #200 from 120 ft. to 140 ft.
 Diam. 18" Slot size #130 from 140 ft. to 143 ft.
18" #110 143 150

Gravel packed: Yes No Size of gravel: _____
 Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 24 ft.
 Material used in seal concrete
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata _____
 Method of sealing strata off _____

(7) PUMP: Manufacturer's Name Aurora
 Type: Vertical Turbine HP 50

(8) WATER LEVELS: Land-surface elevation above mean sea level 2009 ft.
 Static level 67.8 ft. below top of well Date 3/27/74
 Artesian pressure None lbs. per square inch Date _____
 Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level Holman
 Was a pump test made? Yes No If yes, by whom? Drilling Corp.
 Yield: 3511 gal./min. with 5.1 ft. drawdown after 1/2 hrs.
 " 3511 " " 5.3 " " 1/2 "
 " 3511 " " 5.3 " " 2 "

Recovery data (Time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
0	69.5				
50sec.	67.8				

Date of test March 27, 1974
 Smaller test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Artesian flow None g.p.m. Date _____
 Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand and Gravel	0	15
Boulder	15	19
Coarse Gravel 4"+	19	27
Gravel	27	31
Sand & Gravel	31	143
Coarse Sand	143	150

RECEIVED

AUG 27 1974

DEPT. OF ECOLOGY

STATE OF WASHINGTON

3500

117

IND

Work started _____, 19____. Completed _____, 19____.

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Holman Drilling Corporation
 (Person, firm, or corporation) (Type or print)

Address E. 3410 Ninth Ave. Spokane, Wa. 99202

(Signed) Ronald E. Holman
 (Well Driller)

License No. 189 Date August 13, 19 74

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

a/5/74

(USE ADDITIONAL SHEETS IF NECESSARY)

The Dep. The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with
Department of Ecology
Second Copy - Owner's Copy
Third Copy - Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. G3-26701
Permit No. G3-267001

(1) OWNER: Name COMINCO AMERICAN, INC. Address E. 15128 EUCLID SPOKANE WA. 99216
LOCATION OF WELL: County SPOKANE NE. 1/4 NE. 1/4 Sec. 11 T. 25 N. R. 14 E. W.M.
Location and distance from section or subdivision corner 626' South & 431' West From THE NE. CORNER of SEC. 11

(3) PROPOSED USE: Domestic Industrial Municipal
Irrigation Test Well Other

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
New well Method: Dug Bored
Deepened Cable Driven
Reconditioned Rotary Jetted

(5) DIMENSIONS: Diameter of well 10 inches.
Drilled 130 ft. Depth of completed well 130 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 10" Diam. from + 1 1/2 ft. to 115 1/2 ft.
Threaded Diam. from _____ ft. to _____ ft.
Welded Diam. from _____ ft. to _____ ft.

Perforations: Yes No
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes No
Manufacturer's Name COOK
Type STAINLESS STEEL Model No. _____
Diam. 10" Slot size 70 from 114 ft. to 130 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name JACUZZI
Type SUB. 2.526X-6 HP. 25

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 78 ft. below top of well Date 9/3/87
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? Yes No If yes, by whom? AAA PUMP SERVICE
Yield: 350 gal./min. with 0 ft. drawdown after 2 hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level | Time Water Level | Time Water Level
Date of test 11/3/87
Bailer test: 50 gal./min. with 0 ft. drawdown after 2 hrs.
Artesian flow _____ g.p.m. Date 9/3/87
Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
GRAVEL, SAND, & SILT (GRAY)	0	8'
BOLDERS & GRAVEL (GRAY)	8'	19'
GRAVEL & SAND (GRAY)	19'	60'
BOLDER'S & GRAVEL (GRAY)	60'	67'
GRAVEL & COBBLES (GRAY)	67'	78'
GRAVEL, COBBLES & SAND (GRAY)	78'	130'
AQUIFER (GRAY)		

RECEIVED

NOV - 8 1987

DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started Aug. 14, 1987 Completed Nov. 3, 1987

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
NAME AAA PUMP SERVICE INC.
(Person, firm, or corporation) (Type or print)
Address 5117 Willow SPOKANE WA. 99206
[Signed] James H. Flanigan
(Well Driller)
License No. 0133 Date Nov. 3, 1987

RESOURCE PROTECTION WELL REPORT Notice of Intent No R 53407

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Construction/Decommission (*circle*)
 Construction 118355 MW # 1
 Decommission Original Construction Notice of Intent Number

Type of Well (*circle*)
 Resource Protection
 Geotech Soil Boring

Property Owner General Electric Power systems

Site Address 3919 N Sullivan Rd.

Unique Ecology Well ID Tag No AGS 116

City Spokane County Spokane

Consulting Firm URS

Location NE 1/4 1/4 SE 1/4 Sec 2 Twn 50N R 44E WMM 25 or one

Driller or Trainee Name Dan Claassen

Lat/Long (s t r still REQUIRED) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Driller or Trainee Signature Dan Claassen

Driller or Trainee License No. 1827

Tax Parcel No _____

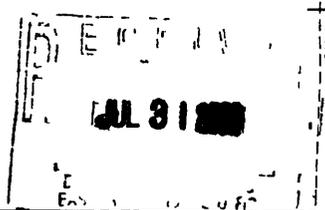
Cased or Uncased Diameter 2" Static Level 78'

If trainee licensed driller's Signature and License no _____

Work/Decommission Start Date 7-24-02

Work/Decommission Completed Date 7-24-02

Construction/Design	Well Data	Formation Description
	<p>89' total depth sand Pac 89' to 67' bentonite chips - 1' to 67'</p>	<p>0-5' silty sand and coarse gravels 5-90' sandy fine to coarse gravels w/ large cobbles saturated @ 80'</p>



Scale 1 = 30'

Page 1 of 1

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report. I Report.

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED) Notice of Intent No. A 65721

Construction/Decommission ("x" in circle)

- Construction
- Decommission Original Construction Notice of Intent Number _____

175548

Type of Well ("x" in circle)

- Resource Protection
- Geotech Soil Boring

Property Owner GENERAL ELECTRIC Power Systems

Site Address 3919 N. Sullivan Rd

Unique Ecology Well ID Tag No. AGS 116

City Spokane Valley County: Spokane

Consulting Firm _____

Location NE 1/4- 1/4 SE 1/4 Sec 2 Twn 25N R 44E WWM or one

Driller or Trainee Name Wendell Hawley

Lat/Long (s, t, r still REQUIRED) Lat Deg _____ Lat Min/Sec _____

Driller or Trainee Signature Wendell Hawley

Long Deg _____ Long Min/Sec _____

Driller or Trainee License No. 1713

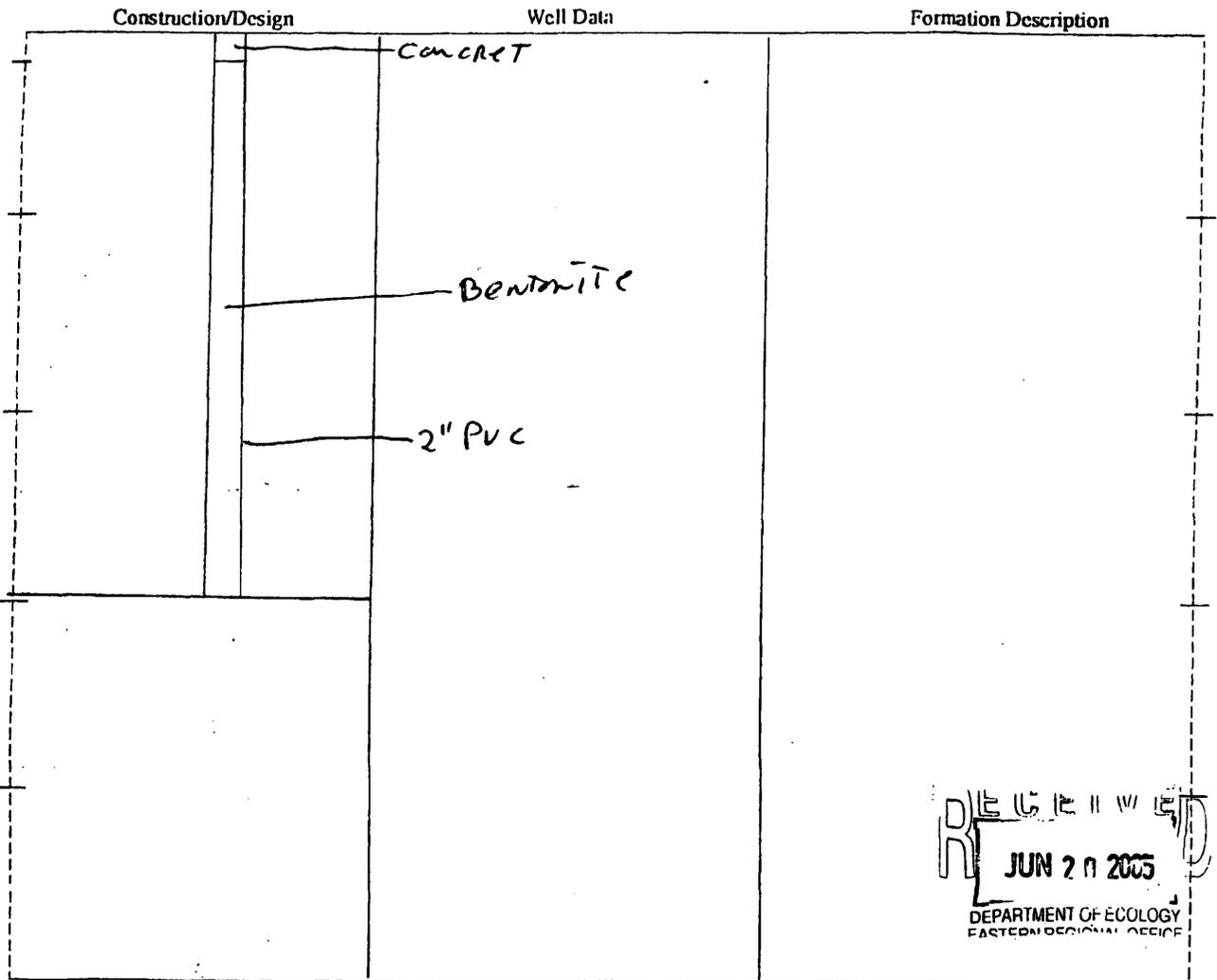
Tax Parcel No. _____

Cased or Uncased Diameter 2 Static Level _____

If trainee, licensed driller's Signature and License no. _____

Work/Decommission Start Date 5-19-05

Work/Decommission Completed Date 5-19-05



JUN 20 2005

 DEPARTMENT OF ECOLOGY

 EASTERN REGIONAL OFFICE

Scale 1" = 30

Page 1 of 1

RESOURCE PROTECTION WELL REPORT Notice of Intent No R 53407

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission (x in circle) 118353
 Construction
 Decommission Original Construction Notice of Intent Number

MW #3

Type of Well (x in circle)
 Resource Protection
 Geotech Soil Boring

Property Owner General Electric Power Systems
 Unique Ecology Well ID Tag No AGS 117
 Consulting Firm URS
 Driller or Trainee Name Dan Claassen
 Driller or Trainee Signature Dan Claassen
 Driller or Trainee License No 1827

Site Address 3919 N. Sullivan Rd
 City Spokane County Spokane
 Location NE 1/4 1/4 SE 1/4 Sec 2 Twp 50N R 44E EW or one WWM
 Lat/Long (s t r) Lat Deg _____ Lat Min/Sec _____
 still REQUIRED) Long Deg _____ Long Min/Sec _____

Tax Parcel No _____
 Cased or Uncased Diameter 2" Static Level 78'
 Work/Decommission Start Date 7-24-02
 Work/Decommission Completed Date 7-25-02

If trainee licensed driller's _____
 Signature and License no _____

Construction/Design	Well Data	Formation Description
<p>70' of Sch 40 2" blank flush main well 20' of 2" O.D.</p>	<p>896 total depth sand Pac 896 to 67' bentonite chips - 1 to 67'</p>	<p>0-5' silty sand and coarse gravels 5-90' sandy, fine to coarse gravels w/ large cobbles saturated @ 80'</p>
		<p>DEPARTMENT OF ECOLOGY JUL 31 2002 JEFFREY</p>

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Scale 1" = 30'

Page 1 of 1

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report. I Report.

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. AG5721

175549

Construction/Decommission ("x" in circle)

- Construction
- Decommission *Original Construction Notice of Intent Number*

Type of Well ("x" in circle)

- Resource Protection
- Geotech Soil Boring

Property Owner General Electric Power Systems

Site Address 3919 N. Sullivan Rd

Unique Ecology Well ID Tag No. AGS 117

City Spokane Valley County: Spokane

Consulting Firm _____

Location NE 1/4- 1/4 SE 1/4 Sec. 2 Twn 25N R. 44E WWM or one

Driller or Trainee Name Wendell Hawley

Lat/Long (s, t, r still REQUIRED) Lat Deg _____ Lat Min/Sec _____

Driller or Trainee Signature Wendell Hawley

Long Deg _____ Long Min/Sec _____

Driller or Trainee License No. 1713

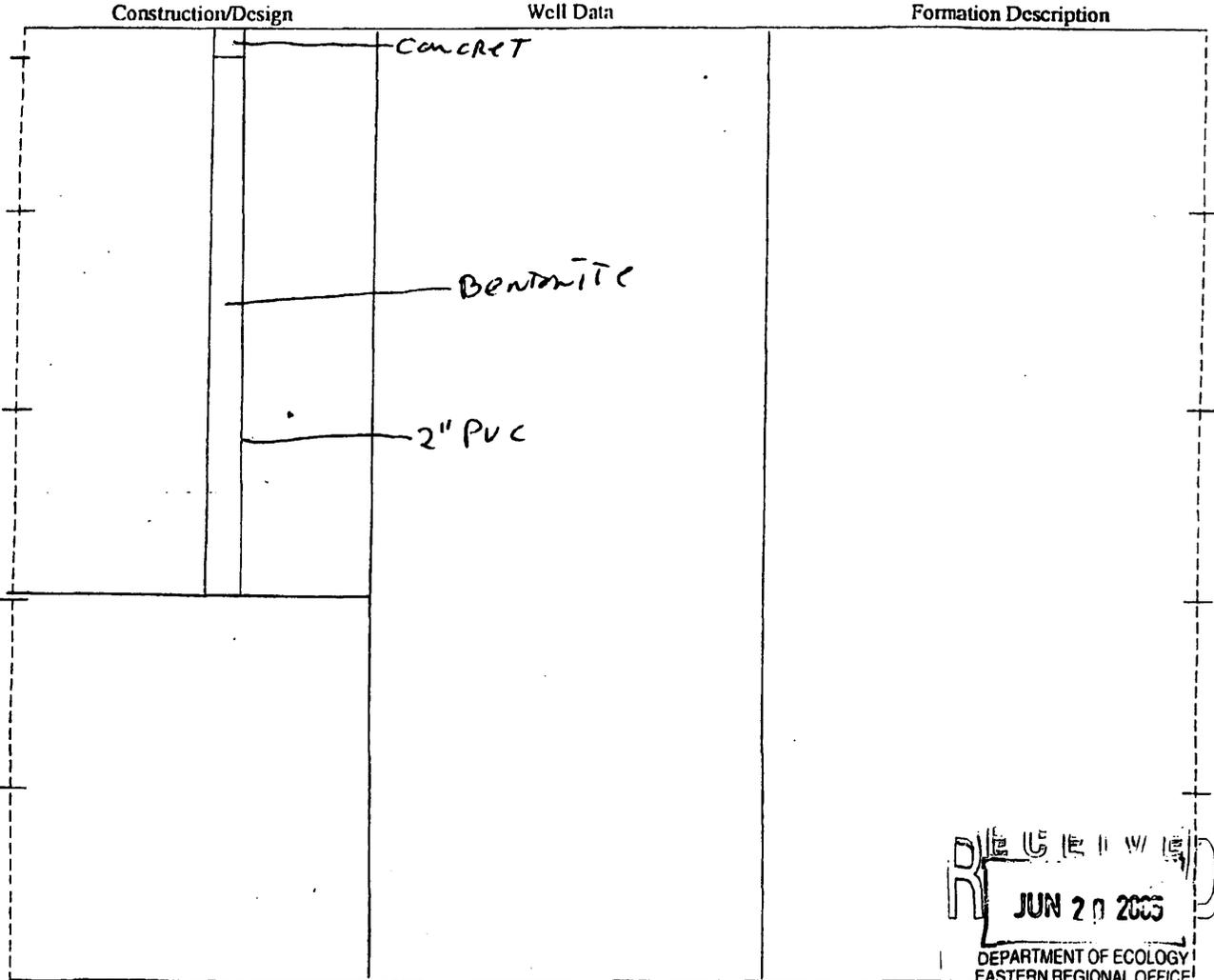
Tax Parcel No. _____

Cased or Uncased Diameter 2 Static Level _____

If trainee, licensed driller's Signature and License no. _____

Work/Decommission Start Date 5-19-05

Work/Decommission Completed Date 5-19-05



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JUN 20 2005

DEPARTMENT OF ECOLOGY
EASTERN REGIONAL OFFICE

Scale 1" = 30

Page _____ of _____

RESOURCE PROTECTION WELL REPORT Notice of Intent No R 53407
 (SUBMIT ONE WELL REPORT PER WELL INSTALLED)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Construction/Decommission (*x* in circle)
 Construction 118354 MW # 2
 Decommission Original Construction Notice of Intent Number _____

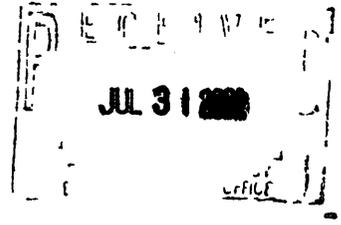
Type of Well (*x* in circle)
 Resource Protection
 Geotech Soil Boring

Property Owner General Electric Power Systems
 Unique Ecology Well ID Tag No AGS 118
 Consulting Firm URS
 Driller or Trainee Name Dan Claassen
 Driller or Trainee Signature Dan Claassen
 Driller or Trainee License No. 1827

Site Address 3919 N Sullivan Rd.
 City Spokane County Spokane
 Location NE 1/4 1/4 SE 1/4 Sec 2 Twp 44N R 44W of one WWM
 Lat/Long (s t r) Lat Deg _____ Lat Min/Sec _____
 still REQUIRED) Long Deg _____ Long Min/Sec _____
 Tax Parcel No _____
 Cased or Uncased Diameter 2" Static Level 78'
 Work/Decommission Start Date 7-25-02
 Work/Decommission Completed Date 7-25-02

If trainee licensed driller's Signature and License no _____

Construction/Design	Well Data	Formation Description
<p>70' of sch 40 2" blank flush mount well 2" 0606,06</p>	<p>89' total depth sand Pac 89' to 67' bentonite chips - 1 to 67'</p>	<p>0-5' silty sand and coarse gravels 5-90' sandy, fine to coarse gravels w/ large cobbles saturated @ 80'</p>



Scale 1" = 30

Page 1 of 1

The Department of Ecology does NOT Warrant the Data and/or the Information on this Well Report. I Report.

RESOURCE PROTECTION WELL REPORT' Notice of Intent No. AG5721

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle)

- Construction
- Decommission Original Construction Notice of Intent Number _____

175550

Type of Well ("x" in circle)

- Resource Protection
- Geotech Soil Boring

Property Owner GENERAL ELECTRIC POWER SYSTEMS

Site Address 3919 N. SULLIVAN RD

Unique Ecology Well ID Tag No. AGS 118

City SPokane Valley County: Spokane

Consulting Firm _____

Location NE 1/4-1/4 SE 1/4 Sec 2 Twp 25N R 44E WWM or WWM circle

Driller or Trainee Name Wendell Hawley

Lat/Long (s, t, r still REQUIRED) Lat Deg _____ Lat Min/Sec _____

Driller or Trainee Signature Wendell Hawley

Long Deg _____ Long Min/Sec _____

Driller or Trainee License No. 1713

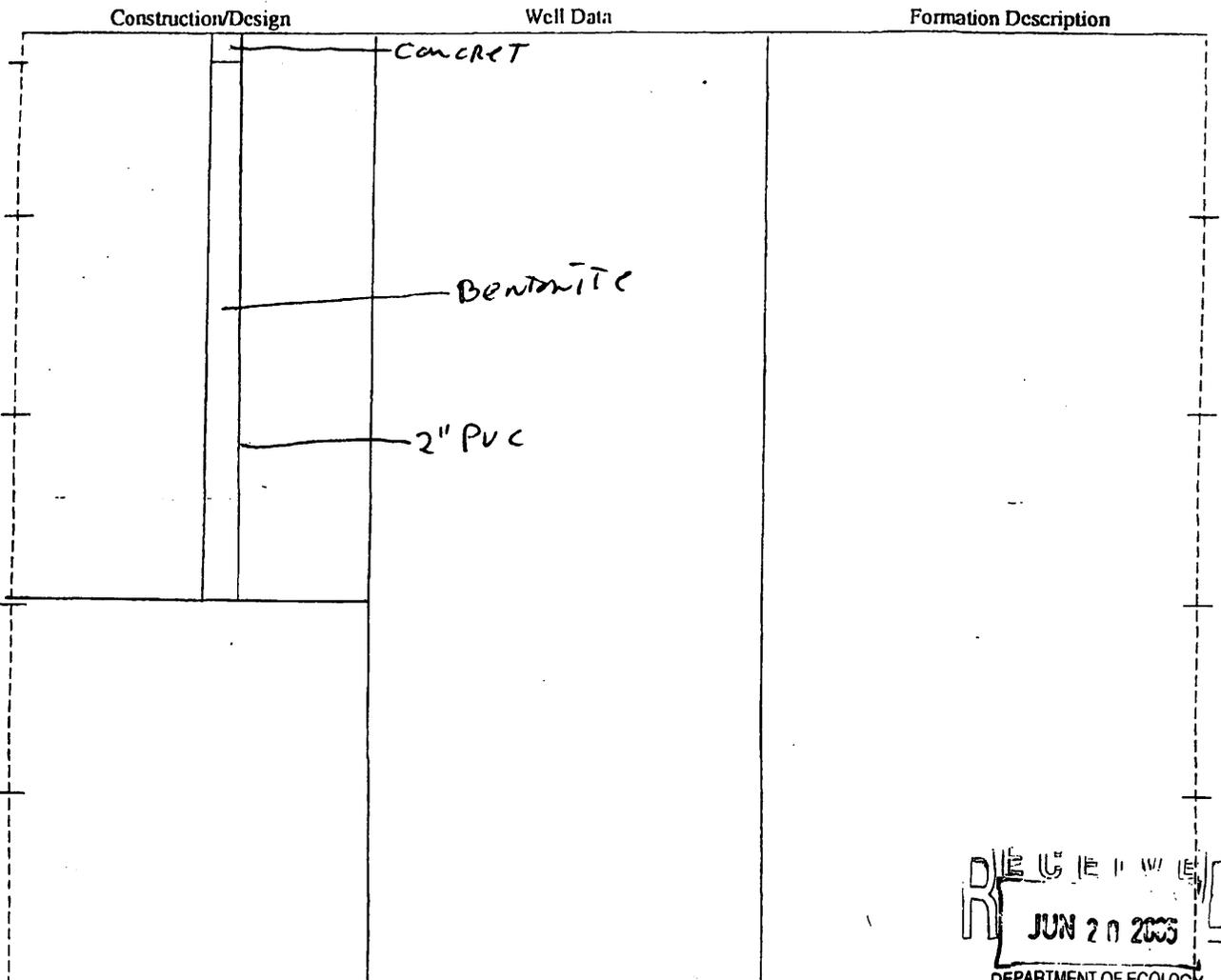
Tax Parcel No. _____

If trainee, licensed driller's Signature and License no. _____

Cased or Uncased Diameter 2 Static Level _____

Work/Decommission Start Date 5-19-05

Work/Decommission Completed Date 5-19-05



Scale 1" = 30

Page _____ of _____

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 DEPARTMENT OF ECOLOGY
 EASTERN REGIONAL OFFICE

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

AGF 868
108552

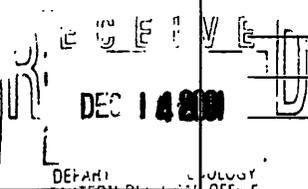
HOLT DRILLING, INC.

Resource Protection Well Report

Project Name Index 10/13919 E. Trent
 Well Identification # VP-1
 Drilling Method 4" HSA
 Driller Michael Reynolds
 License # 2442

Date 8-29-01
 County Spokane, NE 1/4 SE 1/4
 Section 3 T. 25N R. 44E
 Street Address 13919 E. Trent / Spokane
 Start Card R55146
 Consulting Firm CDM

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE <u>Flush</u>	<u>0 - 1.3 ft.</u> <u>Asphalt</u>
	CONCRETE SURFACE SEAL <u>1.5 ft.</u>	<u>.3 - 2 ft.</u> <u>Lt Brn. Fine Sand</u>
	PVC BLANK <u>2" x 9.8'</u>	<u>2 - 20 ft.</u> <u>Brn. Slightly Silty Sand w/ Sm-Lg Gravel & Cobbles</u>
	BACKFILL <u>5.5 ft.</u> TYPE <u>Bentonite</u>	<u>- ft.</u>
	PVC SCREEN <u>2" x 10'</u> SLOT SIZE <u>.020</u> TYPE: <u>PVC</u>	<u>- ft.</u>
	GRAVEL PACK <u>13 ft.</u> MATERIAL: <u>100% Silica</u>	<u>- ft.</u>
	WELL DEPTH <u>20.0'</u>	
		REMARKS



Signature Michael Reynolds

AGF 869

HOLT DRILLING, INC.

Resource Protection Well Report

108550

Project Name Index 10 / 13919 E. Trent

Date 8-29-01

Well Identification # VP-2 + VP-3

County Spokane, NE 1/4 SE 1/4

Drilling Method 4" HSA

Section 3 T. 25N R. 44E

Driller Michael Reynolds

Street Address 13919 E. Trent / Spokane

License # 2442

Start Card R55146

Consulting Firm CDM

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: <u>Flush</u>	
	CONCRETE SURFACE SEAL <u>1.5 ft.</u>	<u>0 - .3 ft.</u> <u>Asphalt</u>
	PVC BLANK <u>2" x 9.8'</u>	<u>.3 - 2 ft.</u> <u>Lt. Brn. Fine Sand</u>
	BACKFILL <u>5.5 ft.</u> TYPE <u>Bentonite</u>	
	PVC SCREEN <u>2" x 10'</u> SLOT SIZE <u>.020</u> TYPE <u>PVC</u>	<u>2 - 20 ft.</u> <u>Brn. Slightly Silty Sand w/</u> <u>Sm. Lg. Gravels + Cobbles</u>
	GRAVEL PACK <u>13 ft.</u> MATERIAL <u>10/20 Silica</u>	
	WELL DEPTH <u>20'</u>	
REMARKS		

Signature Michael Reynolds

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

HOLT DRILLING, INC.

Resource Protection Well Report

AGF 870
108551

Project Name Index 10 / 13919 E. Trent
 Well Identification # VP-2 + VP-3
 Drilling Method 4" HSA
 Driller Michael Reynolds
 License # 2442

Date 8-29-01
 County Spokane NE 1/4 SE 1/4
 Section 3 T. 25N R. 44E
 Street Address 13919 E. Trent / Spokane
 Start Card R55146
 Consulting Firm CDM

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: <u>Flush</u>	
	CONCRETE SURFACE SEAL <u>1.5 ft.</u>	<u>0 - .3 ft.</u> <u>Asphalt</u>
	PVC BLANK <u>2" x 9.8'</u>	<u>.3 - 2 ft.</u> <u>Lt. Brn. Fine Sand</u>
	BACKFILL <u>5.5 ft.</u> TYPE: <u>Bentonite</u>	
	PVC SCREEN <u>2" x 10'</u> SLOT SIZE: <u>.020</u> TYPE: <u>PVC</u>	<u>2 - 20 ft.</u> <u>Brn. Slightly Silty Sand w/</u> <u>Sm-Lg Gravel & Cobbles</u>
	GRAVEL PACK <u>13 ft.</u> MATERIAL <u>10/20 Silica</u>	_____ ft.
	WELL DEPTH <u>20'</u>	REMARKS _____ _____ _____ _____ _____

Signature Michael Reynolds

**APPENDIX A
WELL CONSTRUCTION DATA,
WELL LOGS,
WELL REPORTS, AND
CORE PHOTOGRAPHS**

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	CC-MW-01	CL-MW-01	CM-MW-01S	CM-MW-02S	CM-MW-03S	CM-MW-04S	CM-MW-05S	CM-MW-06S
Comment	Lost							
Date Installed		11/27/91	09/22/04	09/24/04	09/23/04	09/27/04	09/27/04	10/11/04
Total Boring Depth in Feet		92	90.7	90.9	90.3	86.5	90.0	85.3
Depth to Top of 1st Screen in Feet		68	64.7	65	64.8	60.7	65.3	59.8
Depth to Bottom of 1st Screen in Feet		88	89.5	90	89.8	85.7	90.3	84.8
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet		1940.6	1943.9	1943.7	1943.8	1948	1943.4	1949
Bottom of 1st Screen Elevation in Feet		1920.6	1918.9	1918.7	1918.8	1923	1918.4	1924
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches		2	2	2	2	2	2	2
Screen Casing Material		PVC	PVC	PVC	PVC	PVC	PVC	PVC
Screen Slot Size in Inches		0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet		2008.6	2008.6	2008.7	2008.6	2008.7	2008.7	2008.8
TOC Elevation in Feet		2008.54	2011.09	2008.24	2008.14	2007.96	2008.28	2008.18
Stickup in Feet		-0.02	2.5	-0.5	-0.5	-0.75	-0.41	-0.6
Northing		270521.86	270970.07	271105.96	271182.6	271087.04	271157.98	271009.83
Easting		2532439.1	2533106.03	2533021.87	2533018.15	2532478.69	2532475.39	2532578.12

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	CM-MW-07S	CM-MW-08S	DW-MW-01	FO-MW-01S	HL-MW-01	HL-MW-02	HL-MW-03	HL-MW-04
Comment								
Date Installed	10/12/04	10/13/04	2/29/91	2/22/06	12/14/90	12/16/90	6/9/91	6/7/91
Total Boring Depth in Feet	85.5	85.0	74	90.9	84	86	84	84
Depth to Top of 1st Screen in Feet	60	58.9	58.2	64.5	68.5	69	65.4	66.3
Depth to Bottom of 1st Screen in Feet	85	83.9	73.2	89.5	83.5	84	80.4	81.3
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1948.7	1952.3	1945.6	1943.4	1938.0	1939.1	1941.6	1940.9
Bottom of 1st Screen Elevation in Feet	1924.7	1927.3	1930.6	1918.4	1913.0	1914.1	1926.6	1925.9
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	2	2	2	2	2	2
Screen Casing Material	PVC							
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2008.7	2011.2	2003.8	2007.9	2006.5	2008.1	2007	2007.2
TOC Elevation in Feet	2007.97	2010.56	2003.42	2009.39	2008.14	2009.73	2009.98	2009.8
Stickup in Feet	-0.7	-0.6	-0.38	2.9	1.68	1.64	2.98	2.6
Northing	271190.81	271218.95	270298.05	271151.6	271286.86	271871.2	271551.82	272172.07
Easting	2533095.07	2533159.41	2533112.66	2531056.88	2531166.37	2530947.69	2530962.64	2530782.43

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	HL-MW-05	HL-MW-06	HL-MW-06A	HL-MW-07S	HL-MW-08D	HL-MW-09D	HL-MW-10S	HL-MW-11D
Comment		Abandoned	Replaced HL-MW-06					
Date Installed	8/23/95	11/26/96	2/26/99	7/19/01	7/18/01	7/21/01	7/20/01	7/20/01
Total Boring Depth in Feet	96	78	88	85	105	120	78	98
Depth to Top of 1st Screen in Feet	93	63	63	59	83	99.4	52.8	77.2
Depth to Bottom of 1st Screen in Feet	95	78	88	84	103	119.4	77.8	97.2
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1914.3	1940.2	1939.9	1946.1	1922.3	1903.5	1945.9	1921.5
Bottom of 1st Screen Elevation in Feet	1912.3	1925.2	1914.9	1921.1	1902.3	1883.5	1920.9	1901.5
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	2	2	2	2	2	2
Screen Casing Material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2007.3	2003.2	2002.9	2005.1	2005.3	2002.9	1998.7	1998.7
TOC Elevation in Feet	2009.69	2003.04	2005.68	2007.32	2007.2	2004.8	2000.55	2000.49
Stickup in Feet	2.39	-0.16	2.78	2.22	1.9	1.9	1.85	1.79
Northing	272169.66	271941.35	271932.14	272262.35	272246.49	271932.54	271670.92	271677.45
Easting	2530750.38	2530515.93	2530519.46	2530498.27	2530502.26	2530510.45	2530539.55	2530538.16

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	HL-MW-12S	HL-MW-13DD	HL-MW-14S	HL-MW-15DD	HL-MW-16S	HL-MW-17S	HL-MW-18S	HL-MW-19S
Comment								
Date Installed	10/7/03	9/28/03	10/7/03	10/3/03	10/8/03	9/26/03	1/4/05	1/3/05
Total Boring Depth in Feet	90	150.5	90	151	90.5	91.7	89	90
Depth to Top of 1st Screen in Feet	65	140	63	140	65.0	65	63.4	64
Depth to Bottom of 1st Screen in Feet	90	150	88	150	90.0	90	88.4	89
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1943	1865.4	1940.8	1867.8	1941.4	1943.5	1944.4	1944.3
Bottom of 1st Screen Elevation in Feet	1918	1855.4	1915.8	1857.8	1916.4	1918.5	1919.4	1919.3
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	2	2	2	2	2	2
Screen Casing Material	PVC							
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2008	2005.4	2003.8	2007.8	2006.4	2008.5	2007.8	2008.3
TOC Elevation in Feet	2010.23	2007.91	2006.01	2009.9	2008.58	2011.35	2007.4	2011.26
Stickup in Feet	2.23	2.51	2.21	2.1	2.16	2.85	-0.4	2.96
Northing	272371.19	272253.37	272027.87	272172.31	271976.29	272291.98	272140.72	271910.96
Easting	2530536.44	2530513.01	2530280.67	2530766.88	2530834.17	2531186.98	2531177.59	2531222.18

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	HL-MW-20S	HL-MW-21S	HL-MW-22S	HL-MW-23S	HL-MW-24DD	HL-MW-25S	HL-MW-26S	HL-MW-27D
Comment								
Date Installed	1/5/05	1/28/05	1/4/05	2/13/06	2/9/06	2/15/06	2/16/06	2/21/06
Total Boring Depth in Feet	91	81	90	94	150	91.5	91	130.9
Depth to Top of 1st Screen in Feet	65	53.5	64.9	68.5	144	63.9	64.3	123.3
Depth to Bottom of 1st Screen in Feet	90	78.5	89.9	93.5	149	88.9	89.3	128.3
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1944.1	1954.2	1943.4	1935.5	1859.3	1940.8	1944	1885.3
Bottom of 1st Screen Elevation in Feet	1919.1	1929.2	1918.4	1910.5	1854.3	1915.8	1919	1880.3
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	2	2	2	2	2	2
Screen Casing Material	PVC							
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2009.1	2007.7	2008.3	2004.0	2003.3	2004.7	2008.3	2008.6
TOC Elevation in Feet	2011.93	2011.19	2010.77	2006.82	2006.11	2004.27	2007.64	2008.05
Stickup in Feet	2.83	3.49	2.49	2.82	2.81	-0.43	-0.66	-0.55
Northing	271827.31	271760.05	271522.2	271481.85	272014.54	272121.69	272323.27	272336.45
Easting	2531096.87	2530951.39	2531325.39	2529685.21	2530270.92	2530392.95	2530698.15	2530697.91

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	HL-MW-28DD	HL-MW-29S	HL-MW-30S	MW-01	MW-02	MW-03	MW-04	MW-05
Comment				Abandoned				
Date Installed	9/6/06	6/7/07	6/8/07	9/24/79	9/28/79	10/5/79	10/10/79	10/13/79
Total Boring Depth in Feet	150	92	90	115	90	120	120	120
Depth to Top of 1st Screen in Feet	140.9	65	60	75	38	75	75	75
Depth to Bottom of 1st Screen in Feet	149.9	90	90	85	48	85	85	85
Depth to Top of 2nd Screen in Feet				90	58	94	95	95
Depth to Bottom of 2nd Screen in Feet				115	68	104	105	105
Depth to Top of 3rd Screen in Feet					75	114	115	115
Depth to Bottom of 3rd Screen in Feet					85	120	120	120
Top of 1st Screen Elevation in Feet	1864.8	1942.8	1942.7	1902.8	1926.8	1919.8	1943.2	1936.9
Bottom of 1st Screen Elevation in Feet	1873.8	1917.8	1912.7	1892.8	1916.8	1909.8	1933.2	1926.9
Top of 2nd Screen Elevation in Feet				1887.8	1906.8	1900.8	1923.2	1916.9
Bottom of 2nd Screen Elevation in Feet				1862.8	1896.8	1890.8	1913.2	1906.9
Top of 3rd Screen Elevation in Feet					1889.8	1880.8	1903.2	1896.9
Bottom of 3rd Screen Elevation in Feet					1879.8	1874.8	1898.2	1891.9
Screen Diameter Casing Size in Inches	2	2	2	2	6	6	6	6
Screen Casing Material	PVC	PVC	PVC	PVC	Steel	Steel	Steel	Steel
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	Perf	Perf	Perf	Perf
Ground Surface Elevation in Feet	2005.7	2007.8	2002.7	1977.8	1964.8	1994.8	2018.2	2011.9
TOC Elevation in Feet	2008.22	2010.18	2005	1978.68	1966.17	1996.96	2020.08	2013.48
Stickup in Feet	2.5	2.43	2.3	0.88	1.37	2.16	1.92	1.55
Northing	272250.37	272237.4	271728.3	270963.54	271528.91	272089.72	272536.06	269653.11
Easting	2530530.47	2530733	2529894	2529644.47	2529169.75	2529152.49	2534448.53	2534267.92

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	MW-06	MW-07	MW-08	MW-09	MW-10	MW-11	MW-12	MW-12A
Comment							Abandoned	Replaced MW-12
Date Installed	2/2/81		6/21/90	6/21/90	6/14/90	6/6/91	9/25/95	2/25/99
Total Boring Depth in Feet	112		64	64	84	80.5	52	60.5
Depth to Top of 1st Screen in Feet	70		40.5	44.0	64	63.4	32	30
Depth to Bottom of 1st Screen in Feet	90		55.5	59.0	79	78.4	52	60
Depth to Top of 2nd Screen in Feet	99							
Depth to Bottom of 2nd Screen in Feet	101							
Depth to Top of 3rd Screen in Feet	109							
Depth to Bottom of 3rd Screen in Feet	111							
Top of 1st Screen Elevation in Feet	1951.8		1937.3	1935	1949.5	1941.9	1937.4	1938.4
Bottom of 1st Screen Elevation in Feet	1931.8		1922.3	1920	1934.5	1926.9	1917.4	1908.4
Top of 2nd Screen Elevation in Feet	1922.8							
Bottom of 2nd Screen Elevation in Feet	1920.8							
Top of 3rd Screen Elevation in Feet	1912.8							
Bottom of 3rd Screen Elevation in Feet	1910.8							
Screen Diameter Casing Size in Inches	6	6	2	2	2	2	2	2
Screen Casing Material	Steel	Steel	PVC	PVC	PVC	PVC	PVC	PVC
Screen Slot Size in Inches	Perf	Perf	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2021.8	2007.8	1977.8	1979.2	2013.5	2005.3	1969.4	1968.4
TOC Elevation in Feet	2023.46	2008.7	1980.03	1981.14	2013.27	2005.01	1972.28	1970.76
Stickup in Feet	1.66	0.9	2.25	1.98	-0.23	-0.29	2.88	2.33
Northing	272498.78	272463.92	269988.72	270234.31	270877.63	271566.4	271430.39	271405.43
Easting	2534786.52	2530494.45	2530510.76	2530182.68	2534458.02	2534372.7	2529302.01	2529298.76

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	MW-13	MW-14	MW-15	MW-16	MW-17S	MW-18D	MW-19S	MW-20D
Comment								
Date Installed	1/24/98	1/24/98	1/28/98	1/28/98	6/26/01	6/27/01	7/11/01	7/12/01
Total Boring Depth in Feet	56.5	49	51.5	83	90	100	58	78
Depth to Top of 1st Screen in Feet	26	18	22	53	51	78.5	32	57
Depth to Bottom of 1st Screen in Feet	56	48	51.5	83	76	98.5	57	77
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1944.5	1935.5	1938.6	1942.4	1943.7	1916.1	1941.8	1917.6
Bottom of 1st Screen Elevation in Feet	1914.5	1905.5	1909.1	1912.4	1918.7	1896.1	1916.8	1897.6
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	2	2	2	2	2	2
Screen Casing Material	PVC							
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	1970.5	1953.5	1960.6	1995.4	1994.7	1994.6	1973.8	1974.6
TOC Elevation in Feet	1973.3	1956.14	1962.75	1997.85	1996.61	1996.53	1975.93	1976.15
Stickup in Feet	2.8	2.64	2.15	2.43	1.91	1.93	2.12	1.55
Northing	270399.61	270812.62	271138.45	272087.99	271617.86	271614.68	270548.68	270542.49
Easting	2530023.58	2529551.33	2529350.44	2529149.71	2529478.73	2529487.79	2529895.75	2529901.11

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	MW-21S	MW-22D	MW-23S	MW-24D	MW-25S	MW-26D	OH-EW-01	OH-EW-02
Comment								
Date Installed	7/3/01	7/9/01	7/13/01	7/13/01	6/28/01	7/2/01	11/14/93	11/3/95
Total Boring Depth in Feet	44	63.4	47	67	70	90	133	195
Depth to Top of 1st Screen in Feet	18	43	20	46.0	43	69.5	98.5	108
Depth to Bottom of 1st Screen in Feet	43	63	45	66.0	68	89.5	129.0	140
Depth to Top of 2nd Screen in Feet								166
Depth to Bottom of 2nd Screen in Feet								186
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1940.3	1915.1	1941.7	1915.9	1942.8	1916.7	1910.1	1901.1
Bottom of 1st Screen Elevation in Feet	1915.3	1895.1	1916.7	1895.9	1917.8	1896.7	1879.6	1869.1
Top of 2nd Screen Elevation in Feet								1843.1
Bottom of 2nd Screen Elevation in Feet								1823.1
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	2	2	2	2	20	24
Screen Casing Material	PVC	PVC	PVC	PVC	PVC	PVC	Steel	Steel
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	Various	Various
Ground Surface Elevation in Feet	1958.3	1958.1	1961.7	1961.9	1985.8	1986.2	2008.6	2009.1
TOC Elevation in Feet	1959.89	1960.15	1963.46	1963.84	1987.9	1988.14	2011.75	2004.56
Stickup in Feet	1.59	2.05	1.76	1.94	2.1	1.94	3.15	-4.54
Northing	270973.63	270967.44	271392.11	271391.41	271789.27	271796.03	271652.55	271508.66
Easting	2529460.28	2529464.3	2529187.1	2529193.79	2529192.47	2529189.12	2532000.49	2531793.57

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	OH-EW-02-US	OH-MW-01	OH-MW-02	OH-MW-03	OH-MW-04	OH-MW-05	OH-MW-06	OH-MW-07
Comment		Abandoned	Abandoned					
Date Installed	4/18/00	10/28/89	10/27/89	11/1/89	11/10/89	11/17/89	11/19/89	12/5/90
Total Boring Depth in Feet	60	82.5	82.5	83.5	88	88.5	83.5	83.5
Depth to Top of 1st Screen in Feet	23	70.7	70	70.5	71	67	67	67.5
Depth to Bottom of 1st Screen in Feet	59	80.7	80	80.5	81	82	82	82.5
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1985	1937.8	1938.5	1938.1	1937.5	1941.8	1941.6	1940.8
Bottom of 1st Screen Elevation in Feet	1949	1927.8	1928.5	1928.1	1927.5	1926.8	1926.6	1925.8
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	7	2	2	4	4	4	4	2
Screen Casing Material	Steel	PVC						
Screen Slot Size in Inches	0.10	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2008	2008.5	2008.5	2008.6	2008.5	2008.8	2008.6	2008.3
TOC Elevation in Feet	2010.88	2010.4	2008.3	2008.01	2010.81	2008.31	2010.76	2010.93
Stickup in Feet	2.88	1.9	-0.2	-0.61	2.31	-0.49	2.16	2.63
Northing	271498.2	271683.28	271703.54	271713.72	271620.04	271714.8	271672.41	271432.59
Easting	2531784.05	2532016.65	2532085.78	2532055.97	2531975.47	2531984.14	2531998.14	2531987.58

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	OH-MW-08	OH-MW-09	OH-MW-10	OH-MW-11	OH-MW-12	OH-MW-13	OH-MW-14	OH-MW-15
Comment				Lost			Abandoned	
Date Installed	12/8/90	12/10/90	12/6/90	12/9/90	12/16/90	12/18/90	1/4/91	6/8/91
Total Boring Depth in Feet	83	84	84	86	83	84	130	80
Depth to Top of 1st Screen in Feet	67	67.5	67	69	67	68	124	64
Depth to Bottom of 1st Screen in Feet	82	82.5	82	84	82	83	129	79
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1940.3	1940.7	1941.6	1939.4	1940.8	1940.1	1886	1944.4
Bottom of 1st Screen Elevation in Feet	1925.3	1925.7	1926.6	1924.4	1925.8	1925.1	1881	1929.4
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	2	2	2	2	2	2
Screen Casing Material	PVC							
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2007.3	2008.2	2008.6	2008.4	2007.8	2008.1	2010	2008.4
TOC Elevation in Feet	2009.75	2007.85	2010.36	2008.14	2007.56	2010.29	2010.89	2008.17
Stickup in Feet	2.45	-0.35	1.76	-0.26	-0.24	2.19	0.89	-0.23
Northing	271862.01	271950.33	271838.77	271810.2	272113.76	271292.46	271650.01	271349.48
Easting	2532412.72	2532054.19	2531959.31	2531691.35	2532059.55	2532050.97	2531990.18	2532562.86

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	OH-MW-16	OH-MW-17	OH-MW-18	OH-MW-19	OH-MW-20	OH-MW-21	OH-MW-22	OH-MW-23
Comment						Lost	Lost	
Date Installed	10/29/91	11/7/91	11/8/91	11/4/91	11/5/91	11/20/91	11/21/91	11/24/91
Total Boring Depth in Feet	85	86	90	86	89	85.4	90	90
Depth to Top of 1st Screen in Feet	64	64	65	64	64	64	67	68.6
Depth to Bottom of 1st Screen in Feet	84	84	85	84	84	84	87	88.6
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1943.4	1944	1943.6	1944.4	1944.4	1944	1941.9	1939.9
Bottom of 1st Screen Elevation in Feet	1923.4	1924	1923.6	1924.4	1924.4	1924	1921.9	1919.9
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	2	2	4	4	4	4
Screen Casing Material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2007.4	2008	2008.7	2008.4	2008.4	2008	2008.9	2008.5
TOC Elevation in Feet	2007.37	2007.96	2008.41	2008.13	2008.01	2007.86	2008.37	2008.18
Stickup in Feet	-0.03	-0.04	-0.27	-0.27	-0.39	-0.14	-0.53	-0.32
Northing	271512.91	271528.58	271636.65	271508.27	271615.09	271620.05	271635.72	271298.34
Easting	2531785.6	2532197.99	2531664.79	2531977.79	2532056.88	2532290.91	2532134	2532326

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	OH-MW-24	OH-MW-25	OH-MW-26	OH-MW-27	OH-MW-28	OH-MW-29	OH-SK-01	OH-SK-02
Comment						Abandoned		
Date Installed	11/25/91	12/3/91	11/5/93	8/23/95	9/10/95	11/3/95	11/3/93	1/6/95
Total Boring Depth in Feet	90	90	98	97.5	97	105	88	95
Depth to Top of 1st Screen in Feet	69	69	94	74.7	75	100	68	65
Depth to Bottom of 1st Screen in Feet	89	89	96	94.7	95	105	88	90
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1939.8	1939.5	1914.6	1929.8	1933.4	1907.8	1940.6	1943.5
Bottom of 1st Screen Elevation in Feet	1919.8	1919.5	1912.6	1909.8	1913.4	1902.8	1920.6	1918.5
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	4	4	2	4	4	2	4	12
Screen Casing Material	PVC	PVC	PVC	Steel	Steel	PVC	Steel	Steel
Screen Slot Size in Inches	0.02	0.02	0.02	0.08	0.08	0.02	0.08	0.08
Ground Surface Elevation in Feet	2008.8	2008.5	2008.6	2004.5	2008.4	2007.8	2008.6	2008.5
TOC Elevation in Feet	2008.43	2008.13	2008.3	2004.28	2007.9	2008.75	2006.81	2011.72
Stickup in Feet	-0.38	-0.33	-0.3	-0.22	-0.5	0.95	-1.79	3.22
Northing	271724.03	271795.01	271656.8	271378.52	271523.38	271517.22	271644.74	271667.92
Easting	2531900.72	2531901.29	2532010.25	2531746.36	2531856.8	2531784.16	2532008.6	2532001.81

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	OH-SK-02	OH-SK-03	OH-SK-04	RM-MW-01S	RM-MW-02D	RM-MW-03S	RM-MW-04D	RM-MW-05S
Comment	Modified 9/96							
Date Installed		11/3/95	6/30/01	10/6/03	10/5/03	9/27/03	10/5/03	10/14/03
Total Boring Depth in Feet	95	95	91	90	155	91.5	151	91
Depth to Top of 1st Screen in Feet		70	71.0	63.5	141.2	65.7	140	66
Depth to Bottom of 1st Screen in Feet		95	91.0	88.5	151.2	90.7	150	91
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet		1936.6	1937.7	1944.9	1867.2	1940.9	1867.7	1938.8
Bottom of 1st Screen Elevation in Feet		1911.6	1917.7	1919.9	1857.2	1915.9	1857.7	1913.8
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	4.5	12	8	2	2	2	2	2
Screen Casing Material	PVC	Steel	Steel	PVC	PVC	PVC	PVC	PVC
Screen Slot Size in Inches	--	0.08	0.08	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2008.5	2006.6	2008.7	2008.4	2008.4	2006.6	2007.7	2004.8
TOC Elevation in Feet	2011.72	2009.32	2011.18	2008.19	2008.23	2006.05	2007.11	2006.94
Stickup in Feet	3.22	2.72	2.48	-0.21	-0.17	-0.55	-0.59	2.14
Northing	271667.92	271508.28	271615.26	272397.11	272409.87	272512.57	272501.48	272648.04
Easting	2532001.81	2531785.58	2531976.57	2530946.48	2530946.21	2531368.53	2531369.6	2531844.04

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	RM-MW-08S	RM-MW-09S	RM-MW-10S	RMSW-MW-11S	RM-MW-12S	RM-MW-13S	RM-MW-14S	RM-MW-15S
Comment								
Date Installed	03/01/05	03/03/05	09/20/04	04/23/05	04/26/05	04/28/05	09/20/06	02/19/06
Total Boring Depth in Feet	90	90.6	90	91	85.9	90.9	91.5	91.5
Depth to Top of 1st Screen in Feet	64	65	63.8	63.0	58.4	65.4	62.9	62.8
Depth to Bottom of 1st Screen in Feet	89	90	88.8	90.0	83.4	90.4	87.9	87.8
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1941.4	1941.8	1943.1	*	1948.2	1943.2	1945.7	1945.9
Bottom of 1st Screen Elevation in Feet	1916.4	1916.8	1918.1	*	1923.2	1918.2	1920.7	1920.9
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	2	2	2	2	2	2
Screen Casing Material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2005.4	2006.8	2006.9	2005.6	2006.6	2008.6	2008.6	2008.7
TOC Elevation in Feet	2005.01	2008.2	2006.67	2004.39	2005.93	2008.07	2008.02	2008.11
Stickup in Feet	-0.4	1.42	-0.2	-1.25	-0.7	-0.5	-0.57	-0.57
Northing	272507.5	272594.88	272501.69	272513.23	272521.07	272483.1	272293.32	272448.57
Easting	2531645.36	2532167.07	2531448.43	2531641.02	2531686.97	2531515.66	2531466.25	2531337.97

*Measured along slope of well, actual elevations not determined.

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	RM-MW-16S	RM-MW-17S	TF-EW-01	TF-EW-01	TF-EW-01-US	TF-MW-01	TF-MW-02	TF-MW-03
Comment								
Date Installed	09/18/06	09/14/06	4/29/91	4/29/00	4/19/00	2/22/91	2/23/91	2/25/91
Total Boring Depth in Feet	91.5	91.5	98	178	50	81	79.5	79.5
Depth to Top of 1st Screen in Feet	63	63.3	60	60	19	63.1	62.5	62.6
Depth to Bottom of 1st Screen in Feet	88	88.3	95	95	49	78.1	77.5	77.6
Depth to Top of 2nd Screen in Feet				123				
Depth to Bottom of 2nd Screen in Feet				171				
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1945.7	1945.3	1948.4	1948.4	1988.9	1944.2	1945	1945.7
Bottom of 1st Screen Elevation in Feet	1920.7	1920.3	1913.4	1913.4	1958.9	1929.2	1930	1930.7
Top of 2nd Screen Elevation in Feet				1885.4				
Bottom of 2nd Screen Elevation in Feet				1837.4				
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches			16	10	10	4	4	4
Screen Casing Material			Steel	Steel	Steel	PVC	PVC	PVC
Screen Slot Size in Inches			0.07	0.10	0.10	0.02	0.02	0.02
Ground Surface Elevation in Feet	2008.7	2008.6	2008.4	2008.4	2007.9	2007.3	2007.5	2008.3
TOC Elevation in Feet	2008.23	2007.89	2007.35	2007.35	2010.34	2009.21	2009.4	2009.2
Stickup in Feet	-0.48	-0.66	-1.05	-1.05	2.44	1.91	1.9	0.9
Northing	272466.78	272461.78	271805.29	271805.29	271841.57	271841.72	271804.47	271860
Easting	2531224.65	2531133.92	2532281.57	2532281.57	2532318.3	2532321.57	2532274.26	2532305.7

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	TF-MW-04	TF-MW-05	TL-MW-01	TL-MW-01A	TL-MW-02	TL-MW-03	TL-MW-04	TS-MW-01S
Comment			Abandoned	Replaced TL-MW-01		Destroyed		
Date Installed	2/26/91	2/27/91	6/18/90	9/27/95	6/19/90	6/22/90	6/20/90	5/19/05
Total Boring Depth in Feet	79.5	79.5	79	83	79.5	84	88	85.8
Depth to Top of 1st Screen in Feet	63.1	63	63.5	60	64	67.5	66.5	60
Depth to Bottom of 1st Screen in Feet	78.1	78	78.5	83	79	82.5	81.5	85
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1945.3	1944.4	1944.4	1948.2	1943.7	1938.2	1937.6	1948.5
Bottom of 1st Screen Elevation in Feet	1930.3	1929.4	1929.4	1925.2	1928.7	1923.2	1922.6	1923.5
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	4	4	2	2	2	2	2	2
Screen Casing Material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2008.4	2007.4	2007.9	2008.2	2007.7	2005.7	2004.1	2008.5
TOC Elevation in Feet	2010.19	2008.59	2009.89	2010.21	2009.74	2007.39	2006.04	2010.25
Stickup in Feet	1.77	1.19	1.99	2.01	2.04	1.69	1.94	1.8
Northing	271743.22	271812.59	270783.92	270783.92	270854.25	270836.34	270759.32	271965.09
Easting	2532216.49	2532297.91	2531837.53	2531837.53	2531864.27	2531211.34	2530372.08	2531537.03

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	TS-MW-02S	WW-EW-01	WW-EW-02	WW-EW-03	WW-EW-03	WW-MW-01	WW-MW-02	WW-MW-03
Comment					Modified	Abandoned	Abandoned	
Date Installed	5/20/05	12/19/94	12/3/96	11/26/98	04/00	11/13/89	11/9/89	11/6/89
Total Boring Depth in Feet	85.8	190	198	196	196	58	57.5	63
Depth to Top of 1st Screen in Feet	59.9	115	120	95.0	10	44.8	44.5	49.8
Depth to Bottom of 1st Screen in Feet	84.9	180	177	145.0	30	54.8	54.5	59.8
Depth to Top of 2nd Screen in Feet				152	95			
Depth to Bottom of 2nd Screen in Feet				186	145			
Depth to Top of 3rd Screen in Feet					152			
Depth to Bottom of 3rd Screen in Feet					186			
Top of 1st Screen Elevation in Feet	1948.7	1860.5	1864.2	1881	1966	1929.9	1930	1930.8
Bottom of 1st Screen Elevation in Feet	1923.7	1795.5	1807.2	1831	1946	1919.9	1920	1920.8
Top of 2nd Screen Elevation in Feet				1824	1881			
Bottom of 2nd Screen Elevation in Feet				1790	1831			
Top of 3rd Screen Elevation in Feet					1824			
Bottom of 3rd Screen Elevation in Feet					1790			
Screen Diameter Casing Size in Inches	2	24	24	20	20	2	2	2
Screen Casing Material	PVC	Steel	Steel	Steel	Steel	PVC	PVC	PVC
Screen Slot Size in Inches	0.02	Various	Various	Various	Various	0.02	0.02	0.02
Ground Surface Elevation in Feet	2008.6	1975.5	1984.2	1976	1976	1974.7	1974.5	1980.6
TOC Elevation in Feet	2008.22	1975.91	1985.57	1970.55	1970.55	1974.27	1973.81	1983.14
Stickup in Feet	-0.38	0.41	1.37	2.05	-5.45	-0.43	-0.69	2.54
Northing	271962.06	270925.04	270930.8	271162.28	271162.28	270768.85	270723.9	270746.66
Easting	2531489.93	2530019.16	2530057.71	2529720.51	2529720.51	2530038.88	2530043.38	2530144.42

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	WW-MW-04	WW-MW-05	WW-MW-06	WW-MW-07	WW-MW-08	WW-MW-09	WW-MW-10	WW-MW-11
Comment	Abandoned	Abandoned						
Date Installed	11/14/89	11/8/89	11/7/89	11/3/89	12/11/90	12/12/90	12/13/90	10/31/91
Total Boring Depth in Feet	93.5	73.5	73.5	84	84	74	84	66
Depth to Top of 1st Screen in Feet	76	56.8	62	68	68	58	69.0	40
Depth to Bottom of 1st Screen in Feet	86	66.8	72	78	83	73	84.0	60
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1932.7	1931.4	1931.9	1933.3	1934.5	1936.2	1937.5	1935.1
Bottom of 1st Screen Elevation in Feet	1922.7	1921.4	1921.9	1923.3	1919.5	1921.2	1922.5	1915.1
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	2	4	4	2	2	2	4
Screen Casing Material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ground Surface Elevation in Feet	2008.7	1988.2	1993.9	2001.3	2002.5	1994.2	2006.5	1974.5
TOC Elevation in Feet	2011.02	1990.47	1996.56	2003.15	2004.63	1996.44	2007.83	1976.94
Stickup in Feet	2.32	2.27	2.66	1.85	2.13	2.24	1.33	2.49
Northing	270898.27	271153.21	271210.11	271413.66	271196.77	271404.98	271231.47	271127.42
Easting	2530303.5	2530061.31	2530292.9	2530449.55	2530445.91	2530242.73	2530599.24	2529727.03

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	WW-MW-12	WW-MW-13	WW-MW-14	WW-MW-15	WW-MW-16	WW-MW-17	WW-MW-18	WW-MW-19
Comment			Abandoned					
Date Installed	11/2/91	11/14/91	11/19/91	11/13/91	4/15/94	1/4/95	8/17/95	9/20/95
Total Boring Depth in Feet	73.5	70	70	70	192	104	62.5	75
Depth to Top of 1st Screen in Feet	46	48.0	44	47.5	177	100	42	54
Depth to Bottom of 1st Screen in Feet	66	68.0	64	67.5	187	102	57	74
Depth to Top of 2nd Screen in Feet								
Depth to Bottom of 2nd Screen in Feet								
Depth to Top of 3rd Screen in Feet								
Depth to Bottom of 3rd Screen in Feet								
Top of 1st Screen Elevation in Feet	1938.8	1937.1	1929.8	1930.3	1797.3	1875.3	1933.7	1932.7
Bottom of 1st Screen Elevation in Feet	1918.8	1917.1	1909.8	1910.3	1787.3	1873.3	1918.7	1912.7
Top of 2nd Screen Elevation in Feet								
Bottom of 2nd Screen Elevation in Feet								
Top of 3rd Screen Elevation in Feet								
Bottom of 3rd Screen Elevation in Feet								
Screen Diameter Casing Size in Inches	2	4	2	2	2	2	2	4
Screen Casing Material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	Steel
Screen Slot Size in Inches	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.08
Ground Surface Elevation in Feet	1984.8	1985.1	1973.8	1977.8	1974.4	1974.9	1975.7	1986.7
TOC Elevation in Feet	1987.29	1984.11	1973.33	1979.23	1976.98	1977.75	1978.54	1986.26
Stickup in Feet	2.49	-0.99	-0.47	1.43	2.62	2.87	2.84	-0.44
Northing	271262.62	271120.78	270758.08	271021.58	270884.81	270923.87	270830.94	271042.15
Easting	2529874.98	2529988.75	2529775.67	2529587.34	2530029.7	2530022.61	2529672.83	2530128.78

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	WW-SK-01	WW-SK-02	WW-SK-03	WW-SK-04	WW-TL-MW-1	WW-UVB-01	E Supply
Comment					Abandoned		
Date Installed	10/14/94	6/26/01	6/28/01	6/27/01	1/13/99	11/4/98	
Total Boring Depth in Feet	70	68	69	69	91.5	151	120
Depth to Top of 1st Screen in Feet	40	48	49.0	49	60	20.0	
Depth to Bottom of 1st Screen in Feet	70	68	69.0	69	90	55.0	
Depth to Top of 2nd Screen in Feet						105	
Depth to Bottom of 2nd Screen in Feet						140	
Depth to Top of 3rd Screen in Feet							
Depth to Bottom of 3rd Screen in Feet							
Top of 1st Screen Elevation in Feet	1935.2	1933	1933.6	1933.7	1946.8	1953.8	
Bottom of 1st Screen Elevation in Feet	1905.2	1913	1913.6	1913.7	1916.8	1918.8	
Top of 2nd Screen Elevation in Feet						1868.8	
Bottom of 2nd Screen Elevation in Feet						1833.8	
Top of 3rd Screen Elevation in Feet							
Bottom of 3rd Screen Elevation in Feet							
Screen Diameter Casing Size in Inches	12	8	8	8	2	14	
Screen Casing Material	Steel	Steel	Steel	Steel	PVC	Steel	
Screen Slot Size in Inches	0.08	0.08	0.08	0.08	0.02	Various	
Ground Surface Elevation in Feet	1975.2	1981	1982.6	1982.7	2006.8	1973.8	
TOC Elevation in Feet	1978.17	1983.47	1985.14	1985.09	2008.8	1975.78	
Stickup in Feet	2.97	2.47	2.54	2.39	2	1.98	
Northing	270932.85	270755.42	271039.43	271128.62	271012.9	270744.86	272300.22
Easting	2530018.17	2530142.93	2529997.88	2529989.96	2530840.87	2529764.09	2533390.89

Table A-1 - Summary of Well Installation Data (Post-2008 Survey)

Well Data	N Supply	W Supply	River Staff Gage
Comment			
Date Installed	11/21/95		
Total Boring Depth in Feet	222	120	
Depth to Top of 1st Screen in Feet	188		
Depth to Bottom of 1st Screen in Feet	203		
Depth to Top of 2nd Screen in Feet			
Depth to Bottom of 2nd Screen in Feet			
Depth to Top of 3rd Screen in Feet			
Depth to Bottom of 3rd Screen in Feet			
Top of 1st Screen Elevation in Feet			
Bottom of 1st Screen Elevation in Feet			
Top of 2nd Screen Elevation in Feet			
Bottom of 2nd Screen Elevation in Feet			
Top of 3rd Screen Elevation in Feet			
Bottom of 3rd Screen Elevation in Feet			
Screen Diameter Casing Size in Inches			
Screen Casing Material	Steel		
Screen Slot Size in Inches	Various		
Ground Surface Elevation in Feet			1938.97 (a)
TOC Elevation in Feet			
Stickup in Feet			
Northing	272342.04	272297.09	270179.81
Easting	2533395.57	2533368.2	2529927.16

Elevations are in NAVD88 datum.

Horizontal XY coordinates are in NAD83 datum

(a) Represents +15.00 feet on the staff gage.

Note: Some of the elevations shown on the monitoring well logs were surveyed to a different datum and may be different than the post-2008 survey elevations shown in this table. Refer to Table A-1 of the 2003 Groundwater RI/FS (see enclosed CD) for monitoring well elevations based on the old survey datum.

Table A-2 - Construction Details for Surrounding Area Wells

Well ID	Well Owner Name	Section	Drilling Method	Well Depth in Feet	Well Diameter in Inches	Depth to Top of Screen in Feet	Depth to Bottom of Screen in Feet	Depth to Water Level in Feet	Completion Date	Comments
Water Supply Wells										
Well #4	Trentwood Irrigation District #3	2	Cable	174	18	128	154	103	7/20/1981	
Well #5	Trentwood Irrigation District #3	1	Cable	159	16	110	145	104	2/15/1968	Perforated Screen
Well #1	Spokane Industrial Park	1	Cable	160	12	--	--	76	9/10/1970	
Well #2	Spokane Industrial Park	1	Cable	120	16	--	--	--	9/10/1970	
Well #3	Spokane Industrial Park	12	Cable	98	10	--	--	68	9/10/1970	Perforated Screen
WRC 10215	Spokane Industrial Park	11	Cable	138	8	131	137	50	4/22/1971	Perforated Screen
--	Hillyard Processing Company	11	Cable	125	10	106	115	60	1/12/1966	Perforated Screen
--	Comico Products Inc.	11	--	115	10	80	108	74	9/1956	Perforated Screen
--	Comico Products Inc.	11	Cable	150	18	120	150	68	3/27/1974	
Well #2	Comico Products Inc.	11	Cable	130	10	114	130	78	11/3/1987	
Resource Protection Wells										
--	Washington Water Power	2	Rotary	295	6	--	--	--	12/9/1986	Not intended as a water well
AGS 116	General Electric Power Systems	2	--	90	2	70	90	80	7/24/2002	Abandoned
AGS 117	General Electric Power Systems	2	--	90	2	70	90	80	7/25/2002	Abandoned
AGS 118	General Electric Power Systems	2	--	90	2	70	90	80	7/25/2002	Abandoned
AGF 868	--	3	4" HSA	20	2	10	20	--	8/29/2001	Consultant is CDM
AGF 869	--	3	4" HSA	20	2	10	20	--	8/29/2001	Consultant is CDM
AGF 870	--	3	4" HSA	20	2	10	20	--	8/29/2001	Consultant is CDM

Notes:

-- = Not reported on Driller's Well Log.

Township and Range are 25N and 44E, respectively.

Reference: Washington State Department of Ecology - <http://apps.ecy.wa.gov/wellog/>

Key to Exploration Logs

Sample Description

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:

Density/consistency, moisture, color, minor constituents, MAJOR CONSTITUENT, additional remarks.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance. Soil density/consistency in test pits is estimated based on visual observation and is presented parenthetically on the test pit logs.

SAND or GRAVEL Density	Standard Penetration Resistance (N) in Blows/Foot	SILT or CLAY Consistency	Standard Penetration Resistance(N) in Blows/Foot	Approximate Shear Strength in TSF
Very loose	0 - 4	Very soft	0 - 2	<0.125
Loose	4 - 10	Soft	2 - 4	0.125 - 0.25
Medium dense	10 - 30	Medium stiff	4 - 8	0.25 - 0.5
Dense	30 - 50	Stiff	8 - 15	0.5 - 1.0
Very dense	>50	Very stiff	15 - 30	1.0 - 2.0
		Hard	>30	>2.0

Moisture

Dry	Little perceptible moisture
Damp	Some perceptible moisture, probably below optimum
Moist	Probably near optimum moisture content
Wet	Much perceptible moisture, probably above optimum

Minor Constituents

Estimated Percentage

Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Legends

Sampling Test Symbols

Boring Samples



Split Spoon



Shelby Tube



Cuttings



Core Run

*

No Sample Recovery

P

Tube Pushed, Not Driven

Test Pit Samples



Grab (Jar)



Bag

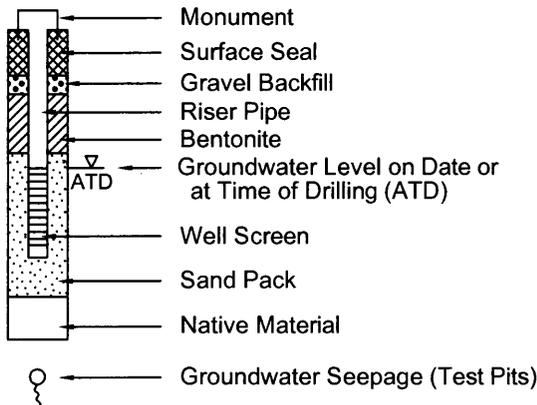


Shelby Tube

Test Symbols

GS	Grain Size Classification
CN	Consolidation
UU	Unconsolidated Undrained Triaxial
CU	Consolidated Undrained Triaxial
CD	Consolidated Drained Triaxial
QU	Unconfined Compression
DS	Direct Shear
K	Permeability
PP	Pocket Penetrometer
	Approximate Compressive Strength in TSF
TV	Torvane
	Approximate Shear Strength in TSF
CBR	California Bearing Ratio
MD	Moisture Density Relationship
AL	Atterberg Limits
	Water Content in Percent
PID	Photoionization Detector Reading
CA	Chemical Analysis
DT	In Situ Density Test

Groundwater Observation Wells



12/05 (HC Standards\SRF\A-1.dwg)



HARTCROWSER

2644-114

5/09

Figure A-1

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Key to Exploration Logs

Sample Description

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:

Density/consistency, moisture, color, minor constituents, MAJOR CONSTITUENT, additional remarks.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance.

Soil density/consistency in test pits is estimated based on visual observation and is presented parenthetically on the test pit logs.

SAND or GRAVEL	Standard Penetration Resistance (N) in Blows/Foot	SILT or CLAY	Standard Penetration Resistance (N) in Blows/Foot	Approximate Shear Strength in TSF
Density		Consistency		
Very loose	0 - 4	Very soft	0 - 2	<0.125
Loose	4 - 10	Soft	2 - 4	0.125 - 0.25
Medium dense	10 - 30	Medium stiff	4 - 8	0.25 - 0.5
Dense	30 - 50	Stiff	8 - 15	0.5 - 1.0
Very dense	>50	Very stiff	15 - 30	1.0 - 2.0
		Hard	>30	>2.0

Moisture

Dry	Little perceptible moisture
Damp	Some perceptible moisture, probably below optimum
Moist	Probably near optimum moisture content
Wet	Much perceptible moisture, probably above optimum

Minor Constituents

Estimated Percentage

Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Legends

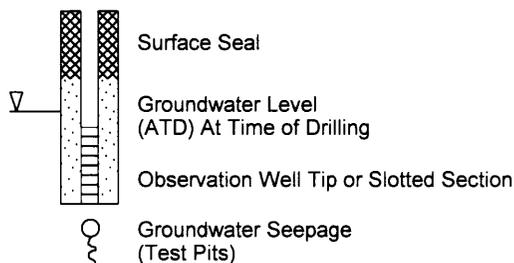
Sampling Test Symbols

BORING SAMPLES	TEST PIT SAMPLES
Split Spoon	Grab (Jar)
Shelby Tube	Bag
Cuttings	Shelby Tube
Core Run	
* No Sample Recovery	
P Tube Pushed, Not Driven	

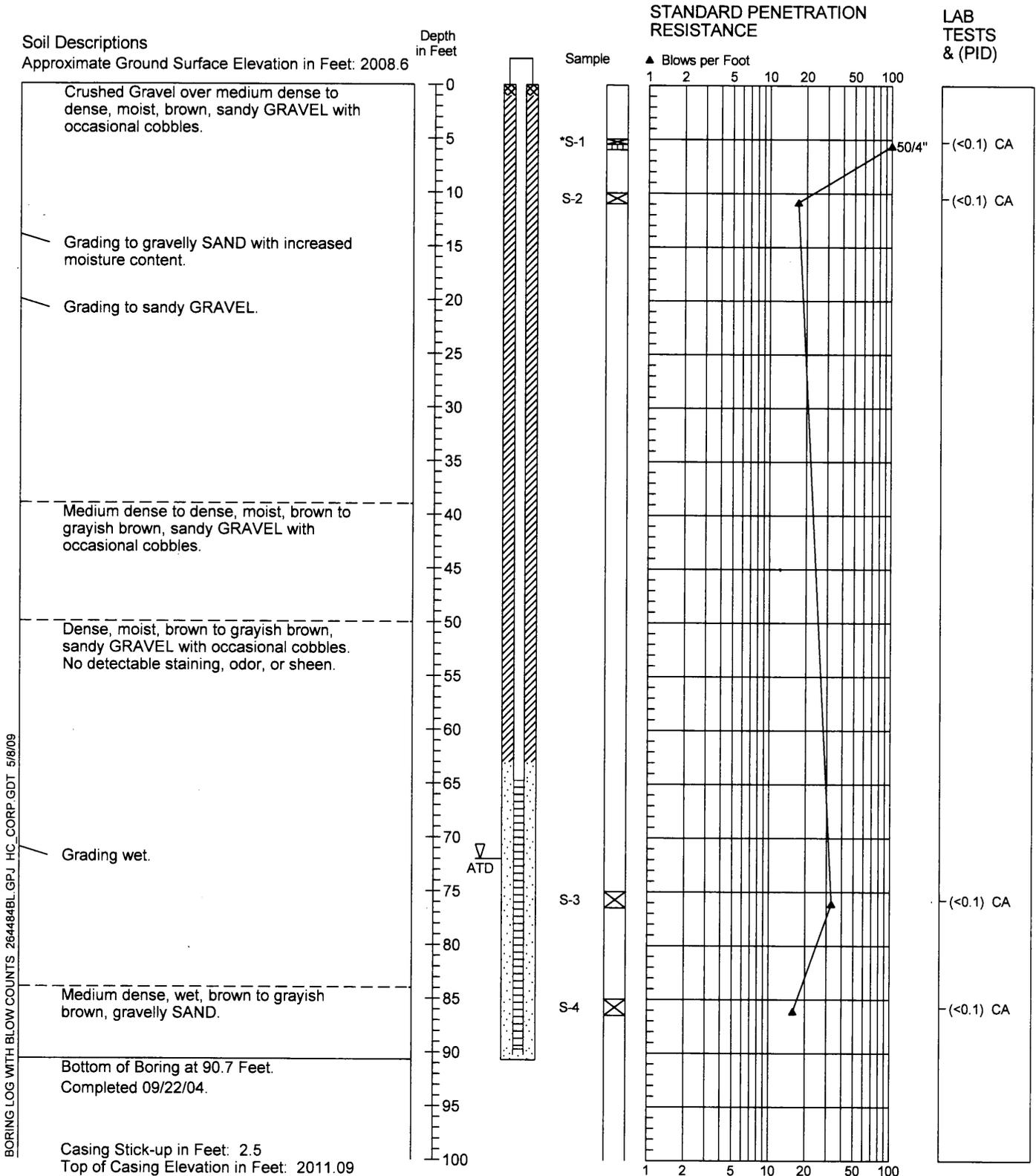
Test Symbols

NS	No Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
TCD	Triaxial Consolidated Drained
QU	Unconfined Compression
DS	Direct Shear
K	Permeability
PP	Pocket Penetrometer Approximate Compressive Strength in TSF
TV	Torvane Approximate Shear Strength in TSF
CBR	California Bearing Ratio
MD	Moisture Density Relationship
AL	Atterberg Limits
	Water Content in Percent
	Liquid Limit Natural Plastic Limit
PID	Photoionization Detector Reading
CA	Chemical Analysis
DT	In Situ Density Test

Exploration and Completion Details



Boring Log & Construction Data for Monitoring Well CM-MW-1S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

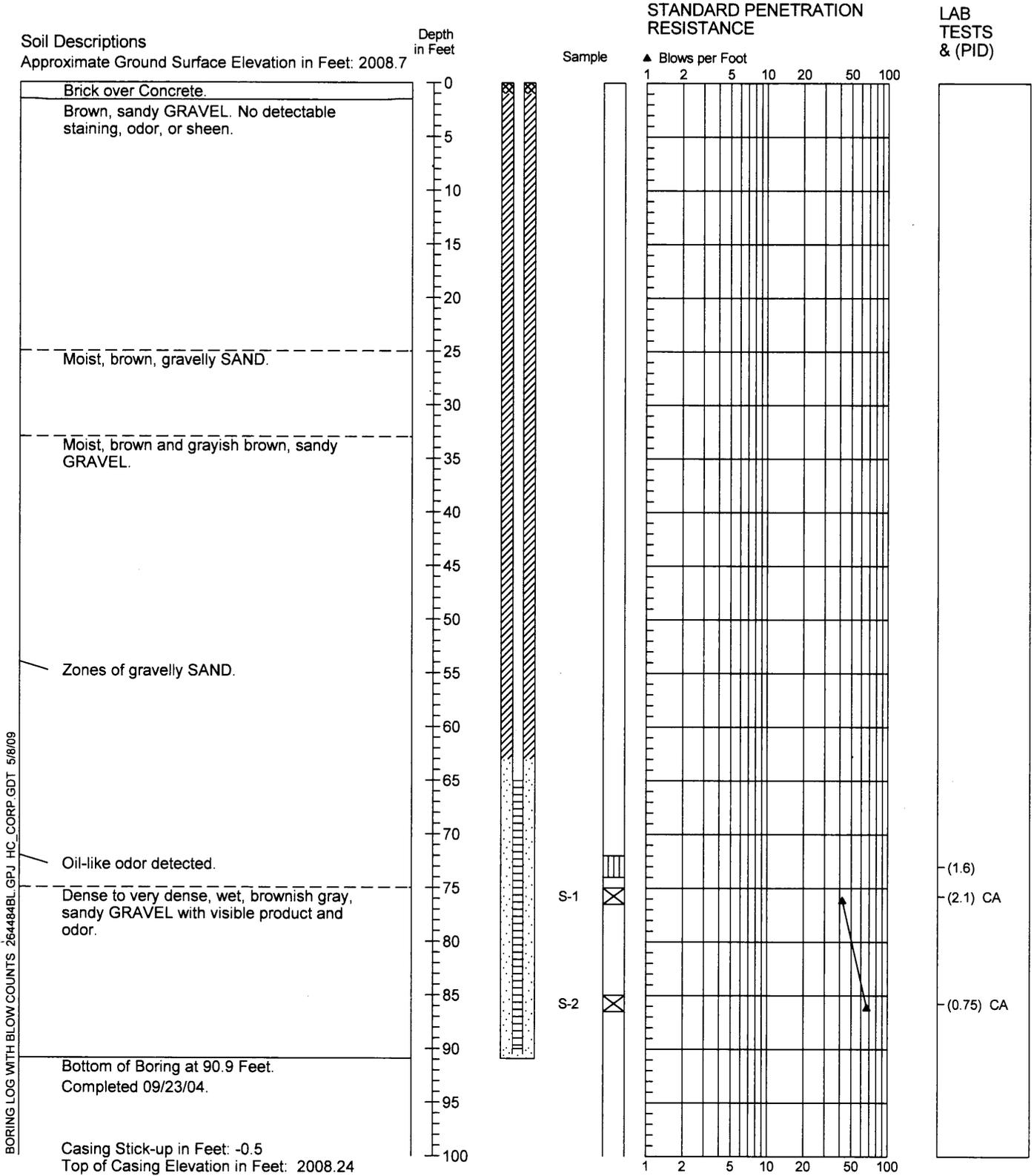


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9/04

Figure A-2

Boring Log & Construction Data for Monitoring Well CM-MW-2S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

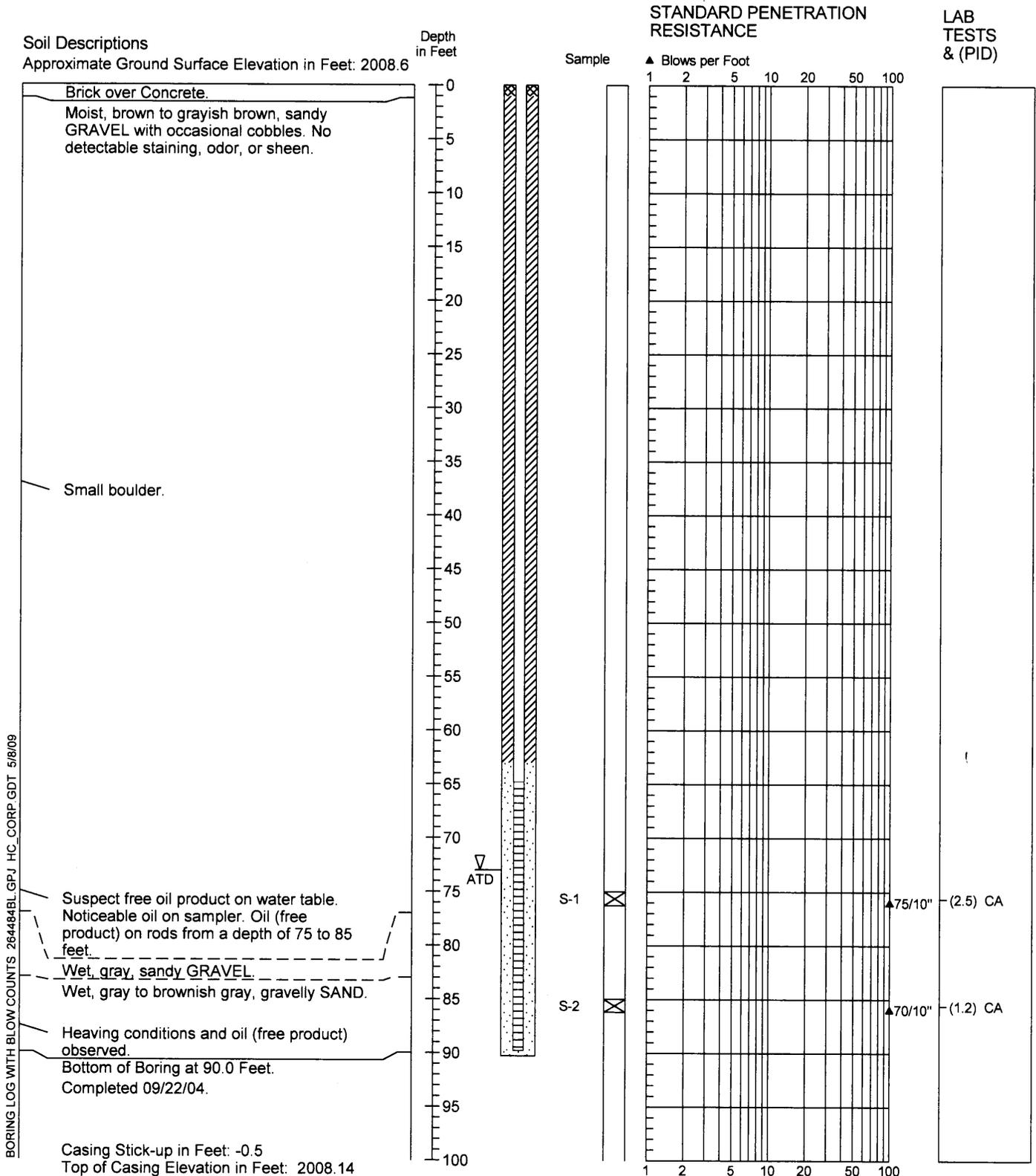


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9/04

Figure A-3

Boring Log & Construction Data for Monitoring Well CM-MW-3S



BORING LOG WITH BLOW COUNTS 264484BL GPJ HC_CORP.GDT 5/18/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

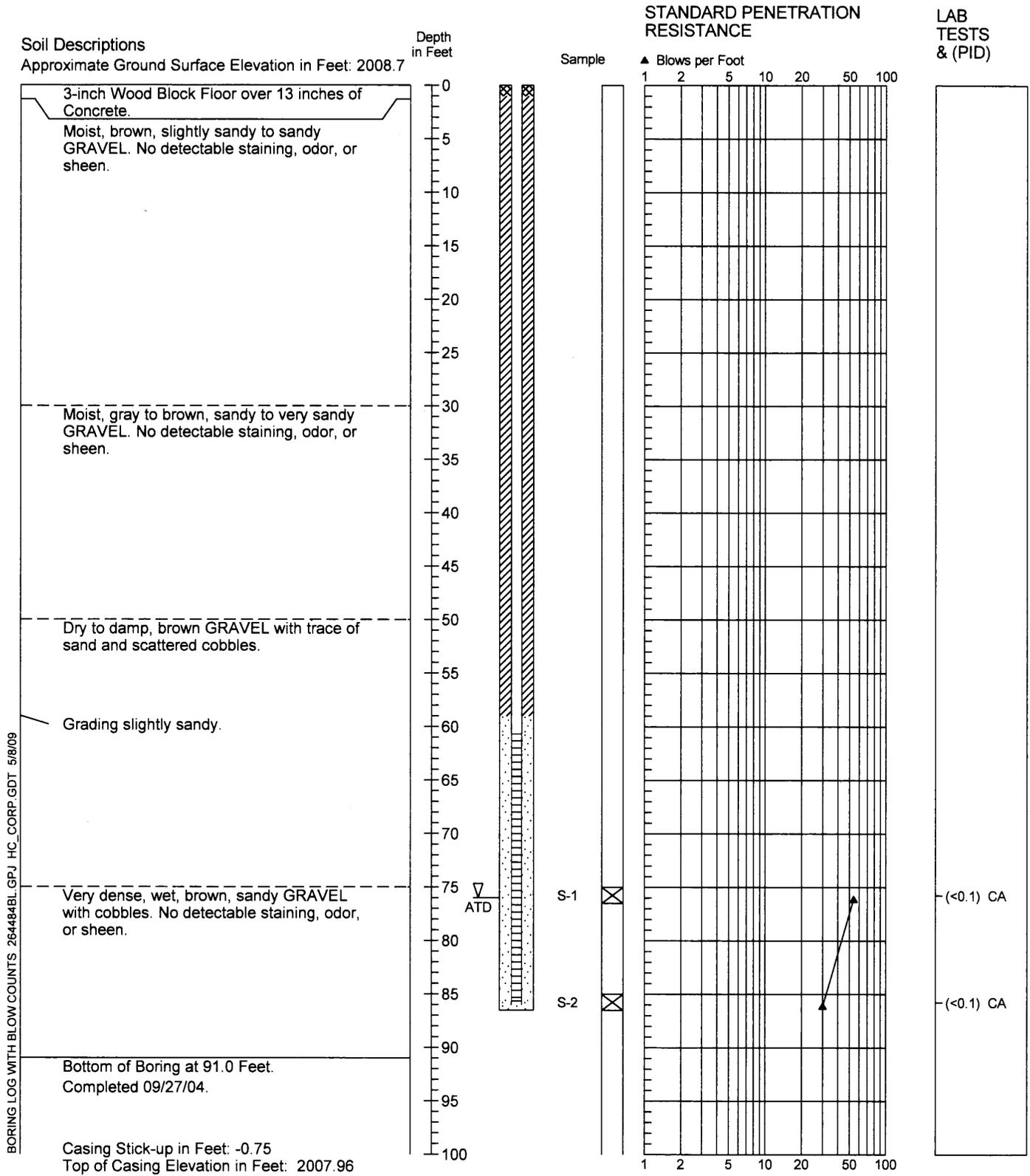


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9/04

Figure A-4

Boring Log & Construction Data for Monitoring Well CM-MW-4S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

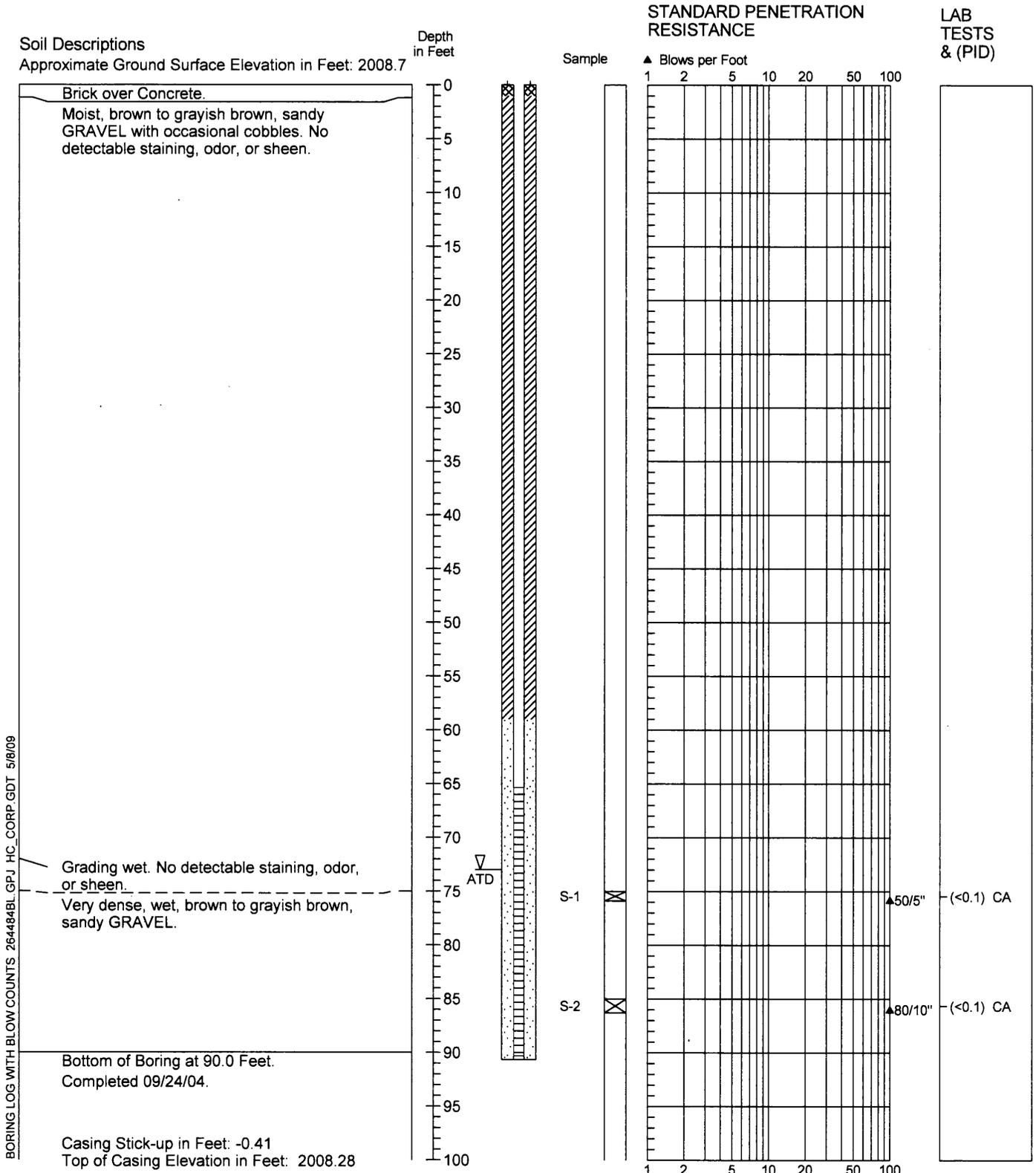


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9/04

Figure A-5

Boring Log & Construction Data for Monitoring Well CM-MW-5S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

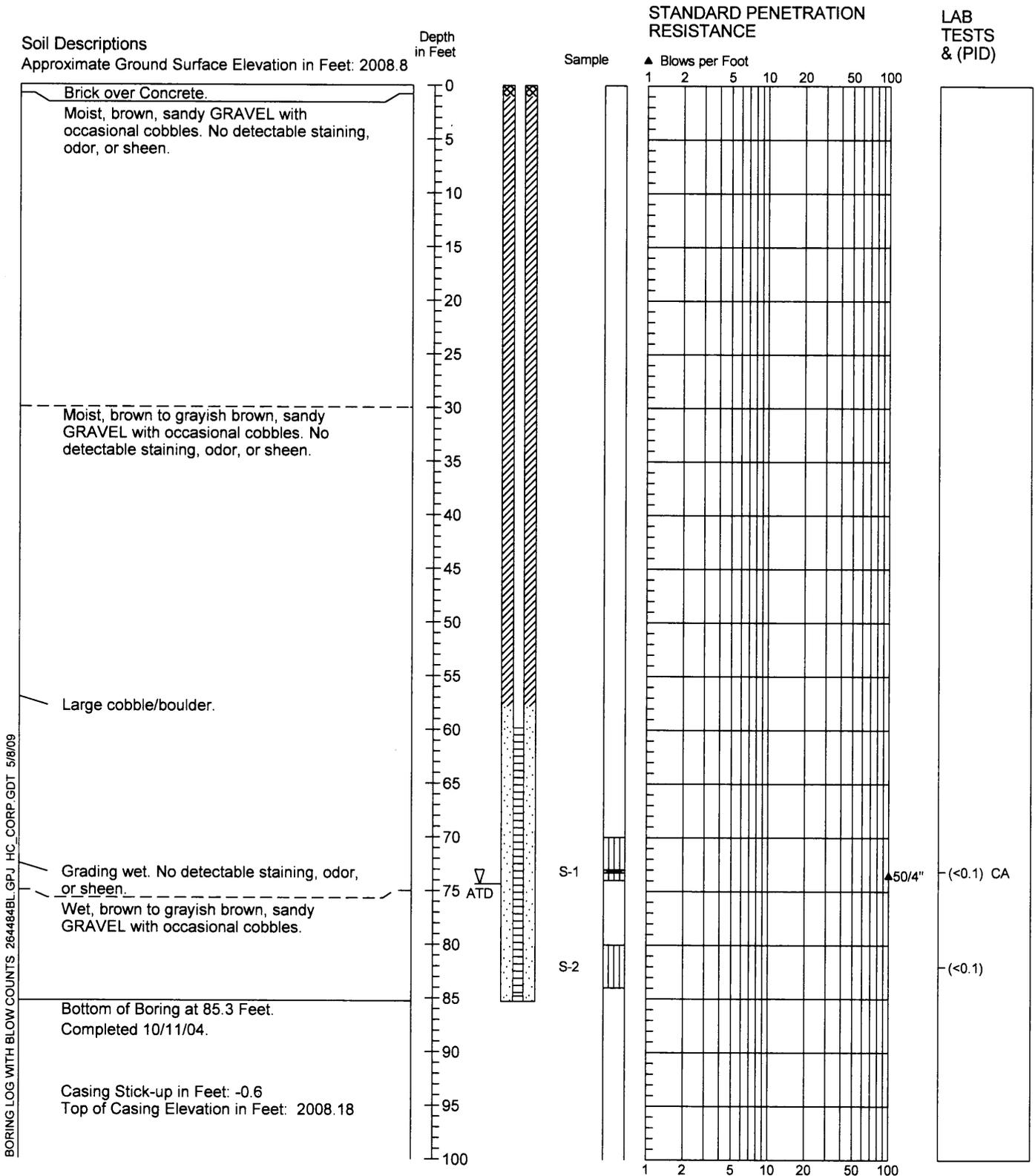


2644-84

9/04

Figure A-6

Boring Log & Construction Data for Monitoring Well CM-MW-6S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

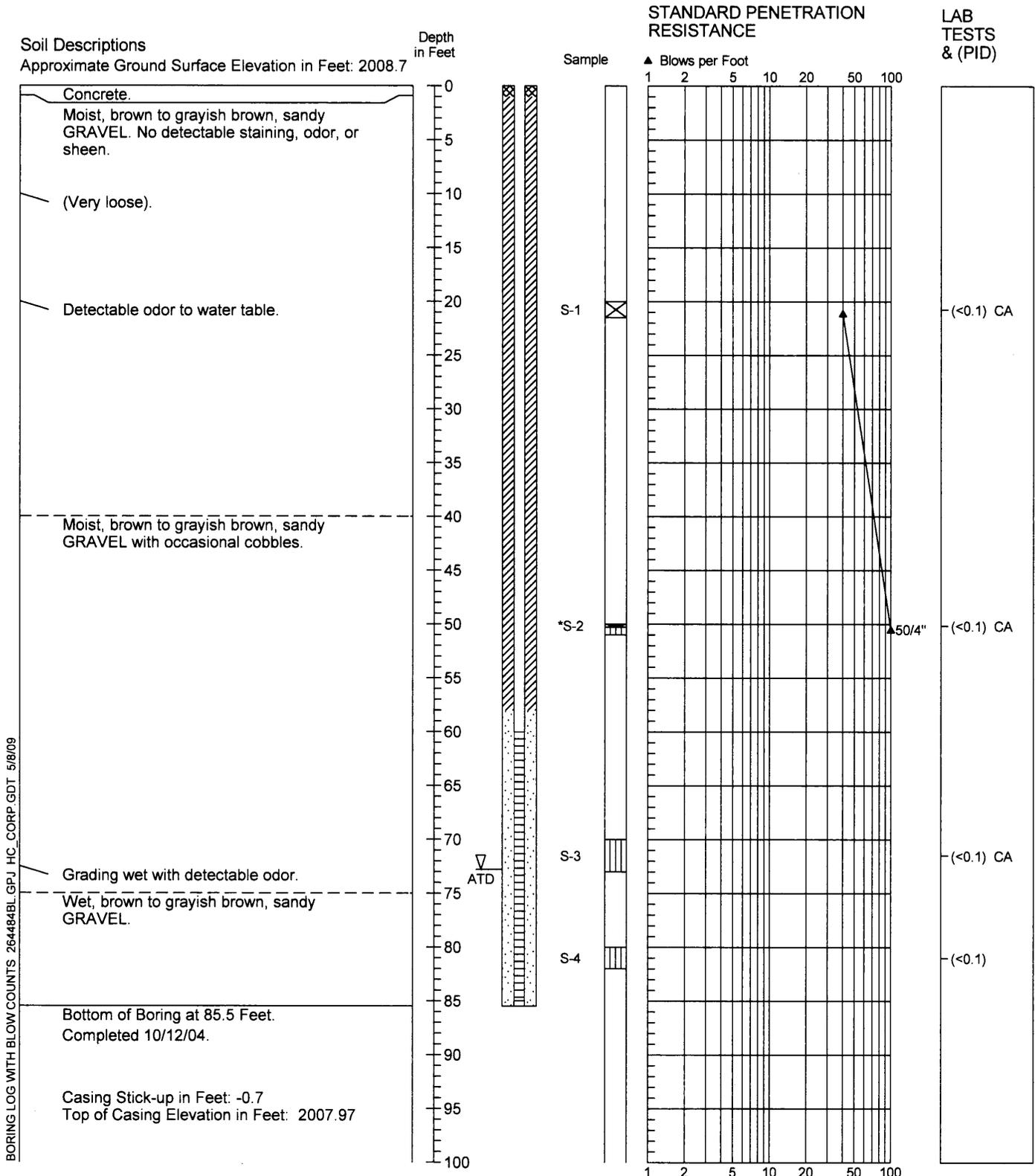


2644-84

10/04

Figure A-7

Boring Log & Construction Data for Monitoring Well CM-MW-7S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

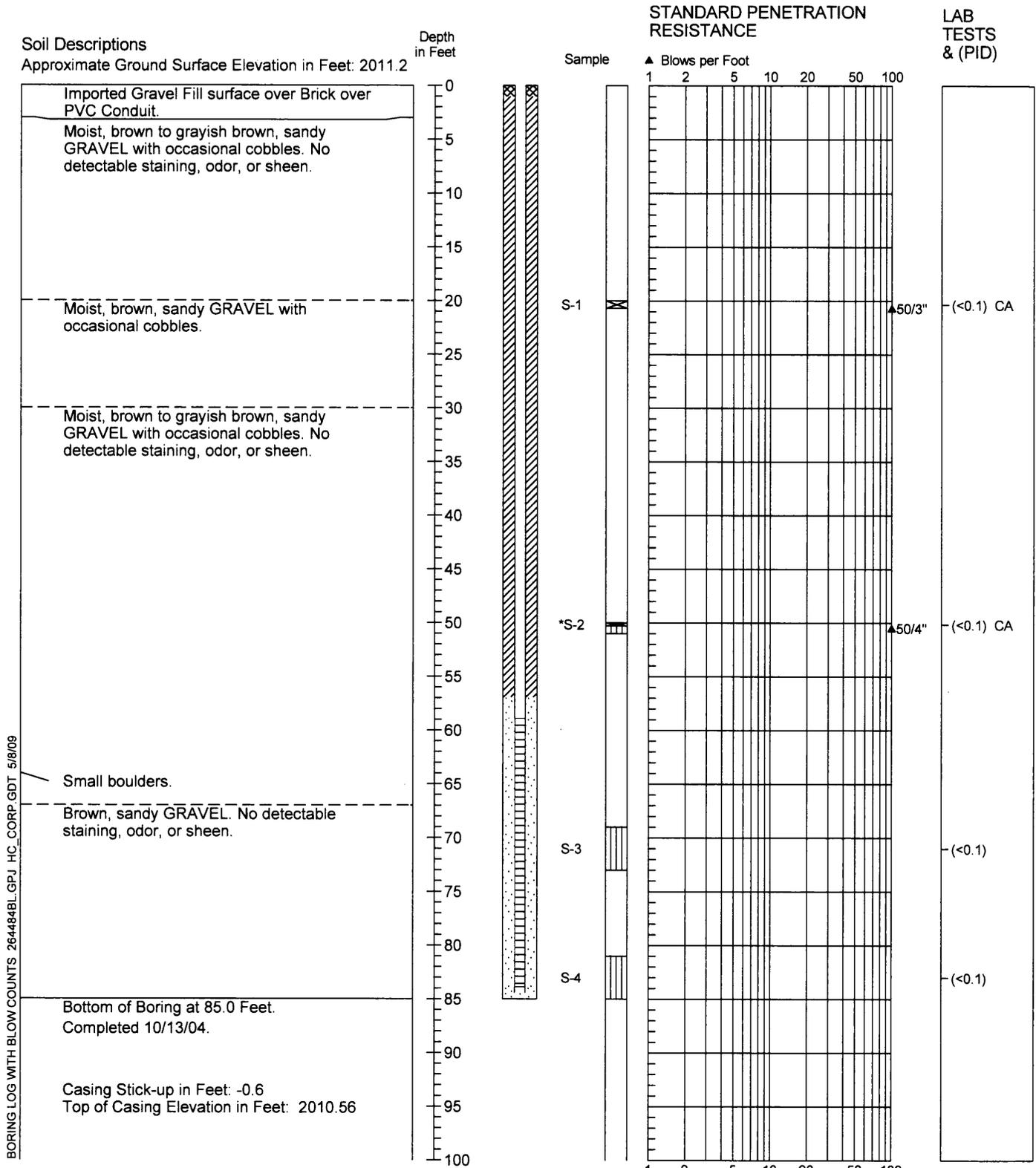


2644-84

10/04

Figure A-8

Boring Log & Construction Data for Monitoring Well CM-MW-8S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

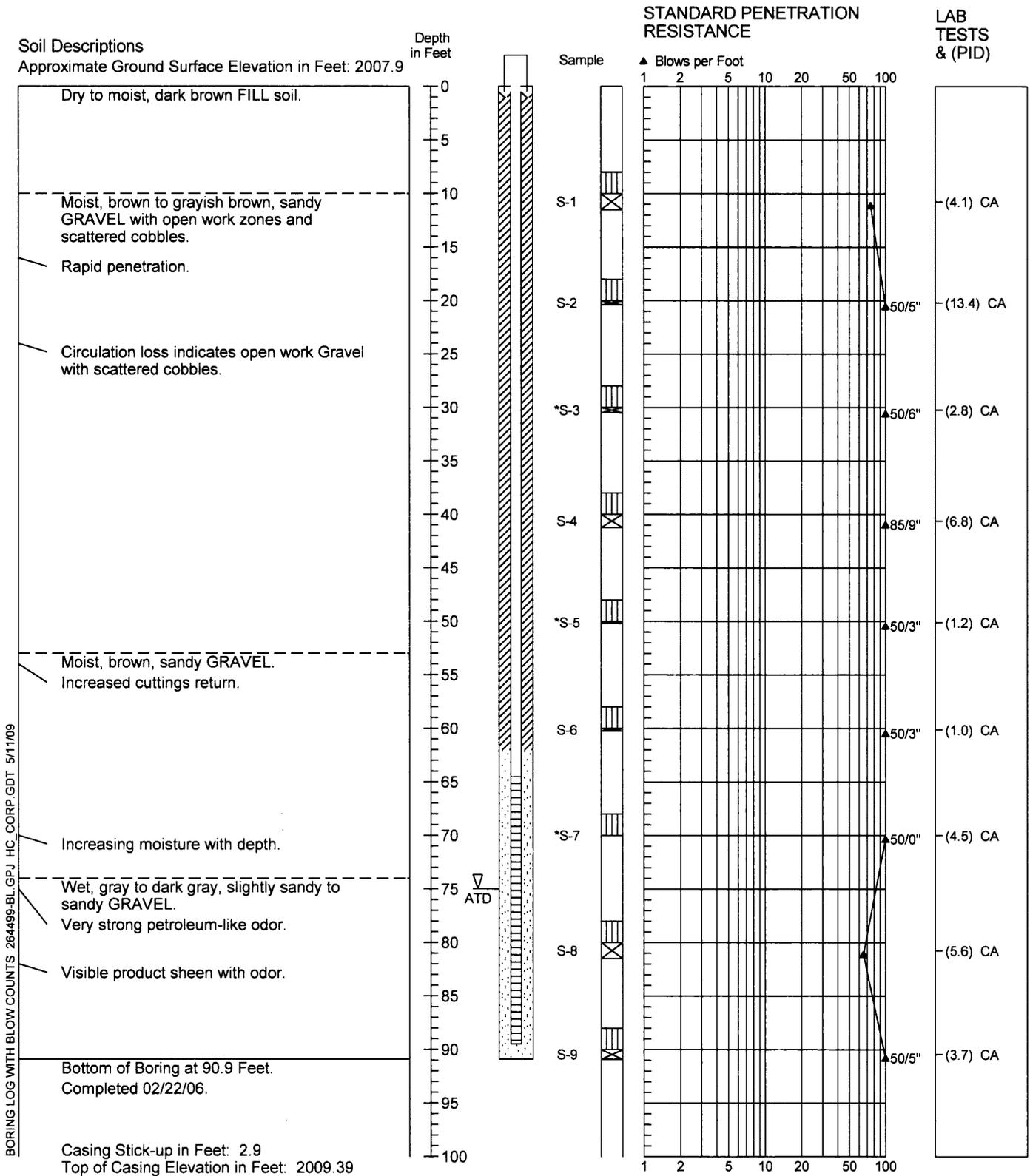


2644-84

10/04

Figure A-9

Boring Log/Construction Data for Monitoring Well FO-MW-1S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



2644-99

2/06

Figure A-10

Monitoring Well Log HL-MW-12S

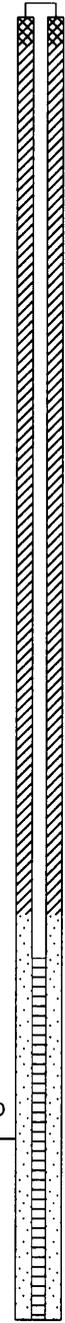
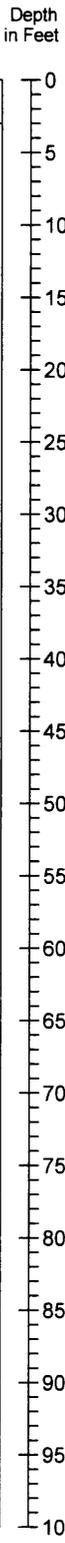
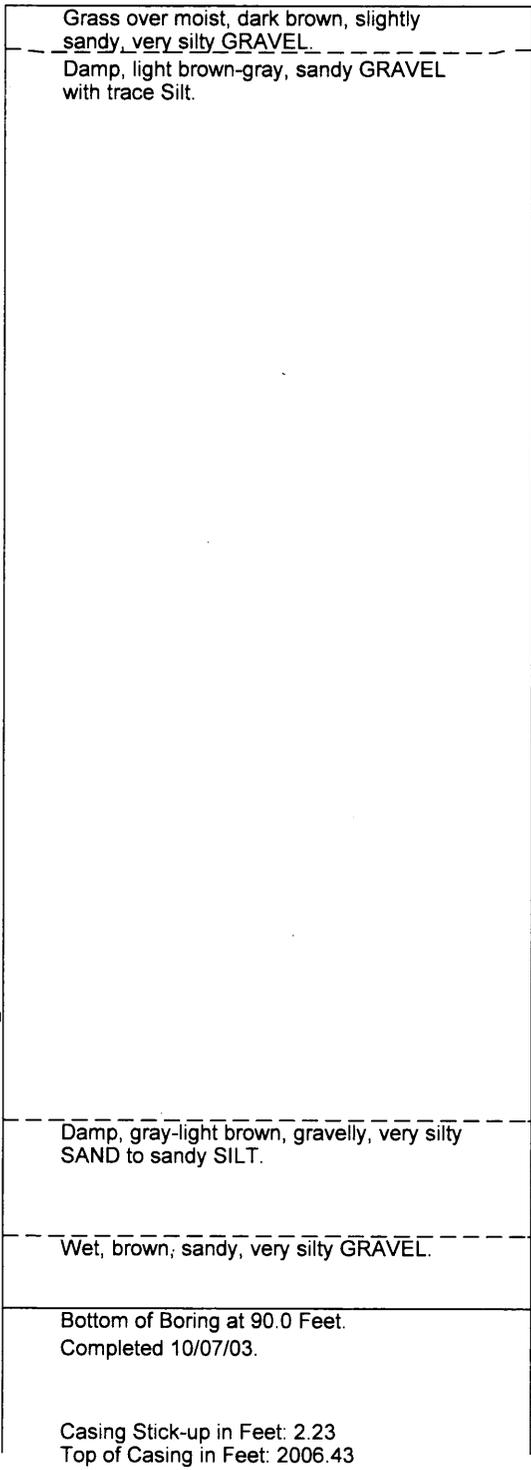
Northing (ft): 11199.4

Easting (ft): 10086.6

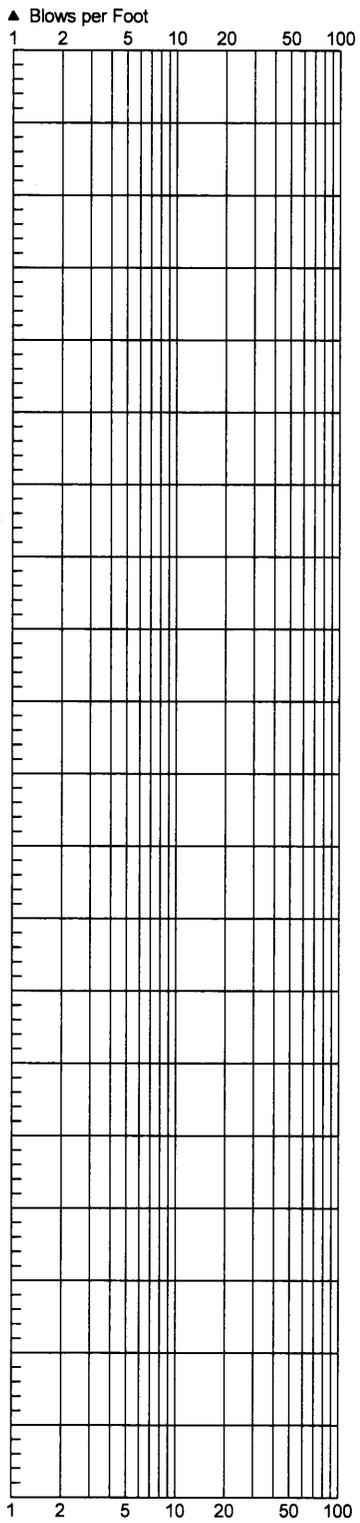
Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2004.2

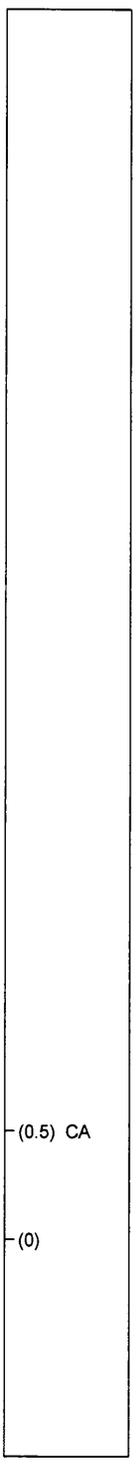
BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/8/09



STANDARD PENETRATION RESISTANCE



LAB TESTS & (PID)

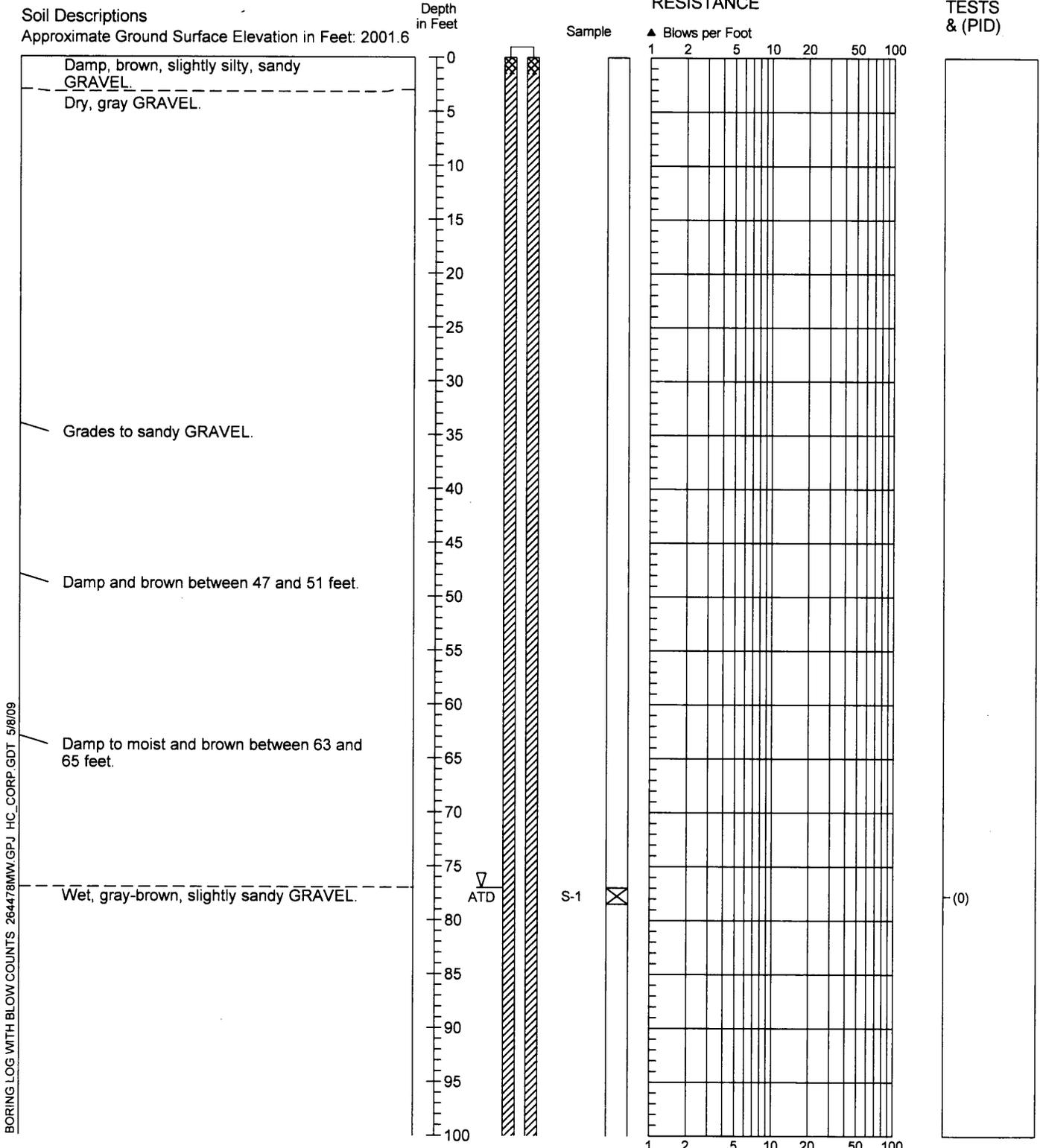


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Monitoring Well Log HL-MW-13DD

Northing (ft): 11082.8
 Easting (ft): 10057.7

Soil Descriptions
 Approximate Ground Surface Elevation in Feet: 2001.6



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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Figure A-12

1/2

Monitoring Well Log HL-MW-13DD

Northing (ft): 11082.8

Easting (ft): 10057.7

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2001.6

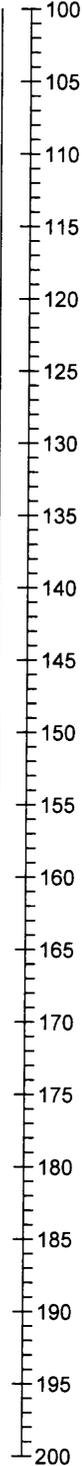
Wet, gray-brown, slightly sandy GRAVEL.

Grades to brown, non-silty to slightly silty, sandy GRAVEL and gravelly SAND.

Bottom of Boring at 150.5 Feet.
Completed 09/28/03.

Casing Stick-up in Feet: 2.51
Top of Casing in Feet: 2004.11

Depth
in Feet

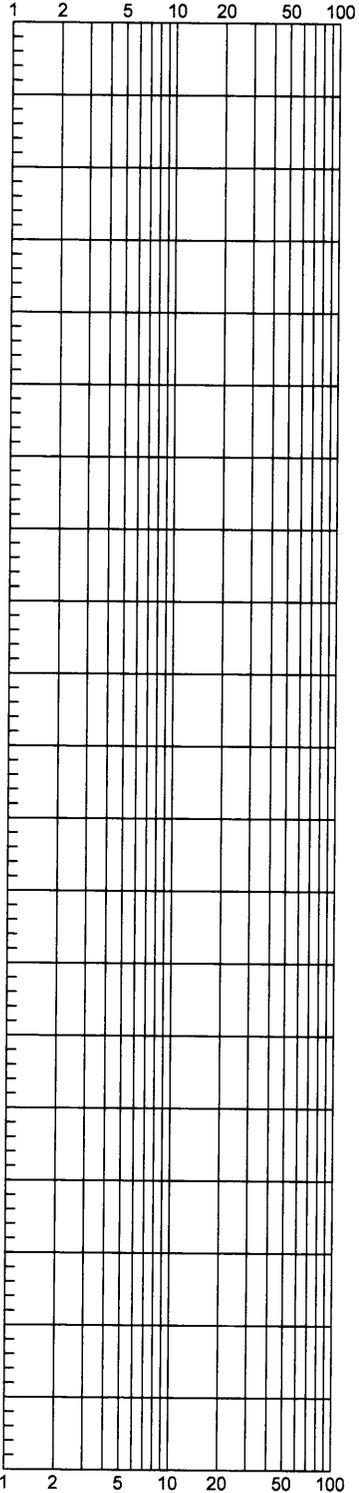


Sample

S-2

STANDARD PENETRATION RESISTANCE

▲ Blows per Foot



LAB
TESTS
& (PID)

(0)

BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/8/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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9/03

Figure A-12

2/2

Monitoring Well Log HL-MW-14S

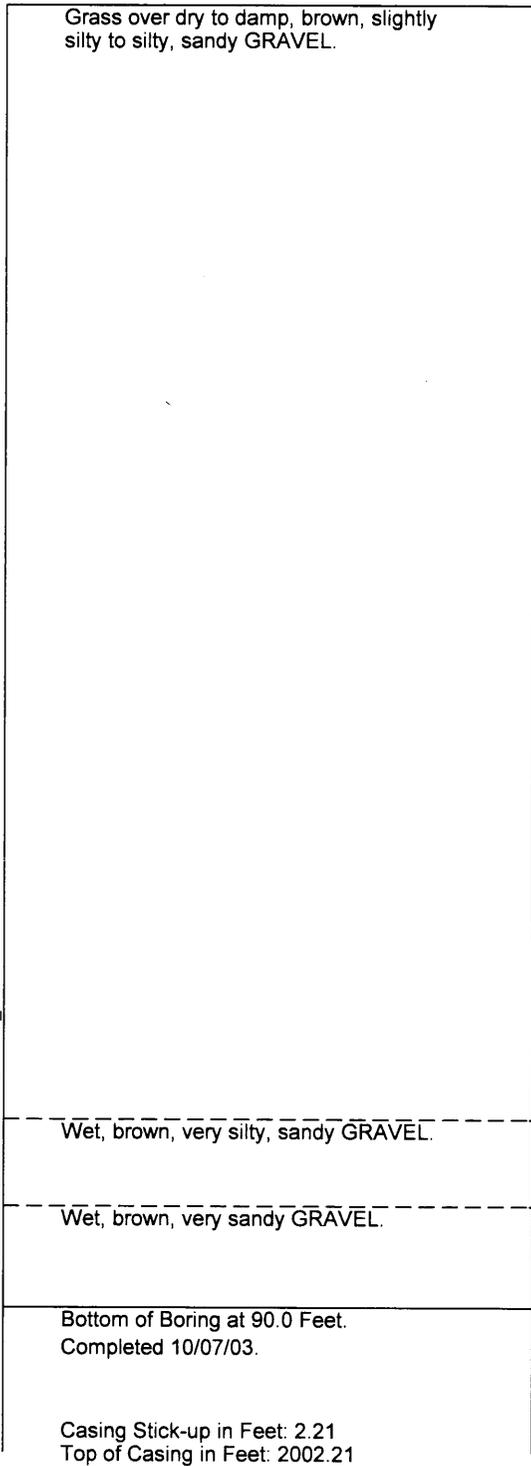
Northing (ft): 10868.4

Easting (ft): 9815.1

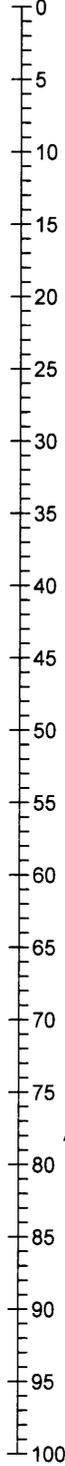
Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2000

BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/6/09



Depth
in Feet



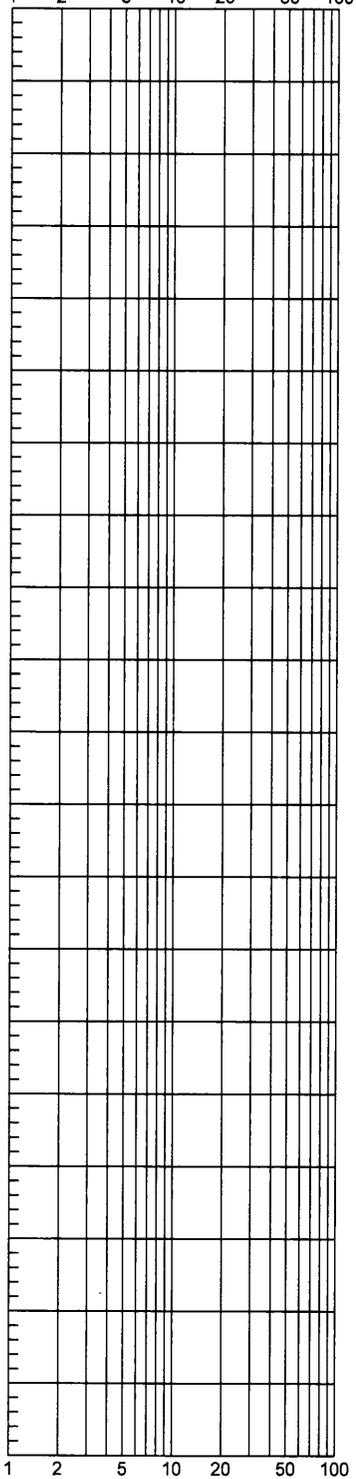
▽
ATD

Sample

S-1
S-2

STANDARD PENETRATION RESISTANCE

▲ Blows per Foot



LAB
TESTS
& (PID)

(0) CA
(0) CA

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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10/03

Figure A-13

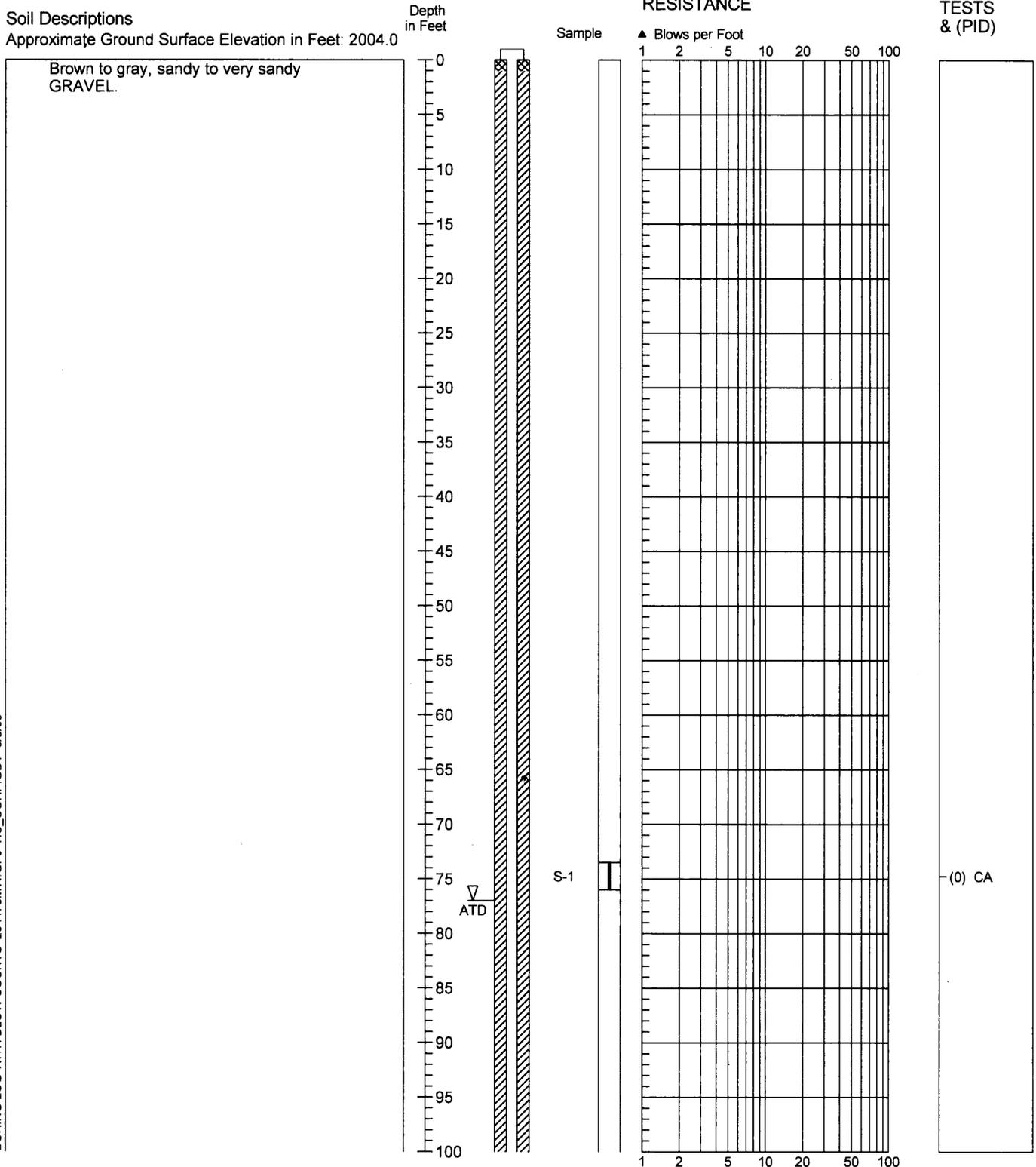
Monitoring Well Log HL-MW-15DD

Northing (ft): 10990
 Easting (ft): 10307.5

Soil Descriptions
 Approximate Ground Surface Elevation in Feet: 2004.0

LAB
 TESTS
 & (PID)

BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/8/09



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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Figure A-14

1/2

Monitoring Well Log HL-MW-15DD

Northing (ft): 10990
 Easting (ft): 10307.5

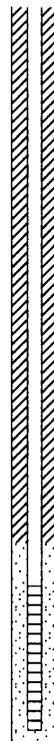
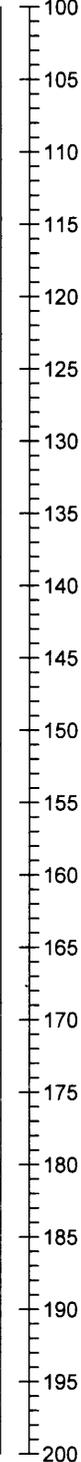
Soil Descriptions
 Approximate Ground Surface Elevation in Feet: 2004.0

Brown to gray, sandy to very sandy GRAVEL.

Wet, brown to gray, very silty, non-sandy to sandy GRAVEL.

Wet, brownish gray SAND with scattered Gravel.

Depth in Feet

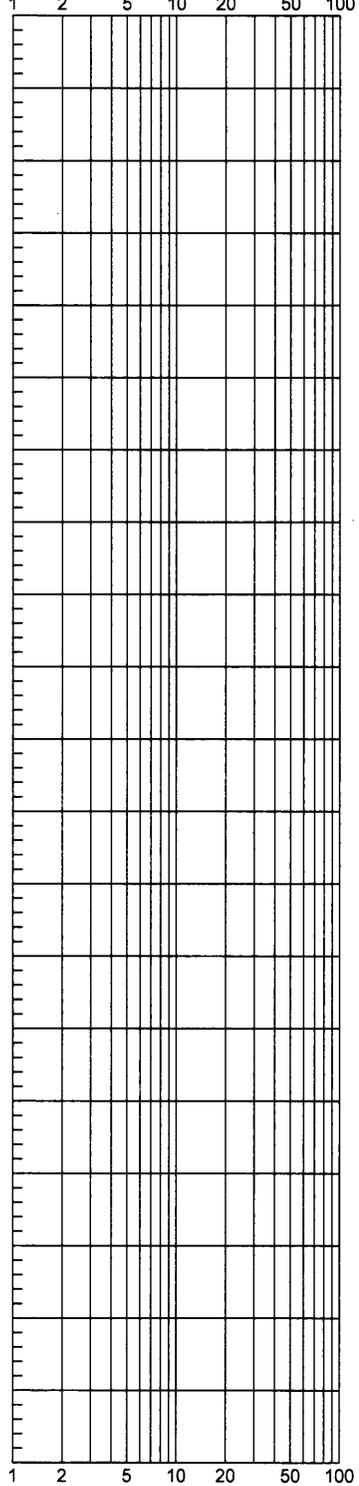


Sample

S-2

STANDARD PENETRATION RESISTANCE

▲ Blows per Foot



LAB TESTS & (PID)

(0)

BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/6/09

Bottom of Boring at 151.0 Feet.
 Completed 10/03/03.

Casing Stick-up in Feet: 2.1
 Top of Casing in Feet: 2006.10

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



2644-78

10/03

Figure A-14

2/2

Monitoring Well Log HL-MW-16S

Northing (ft): 10800.7

Easting (ft): 10366.7

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2002.6

Depth
in Feet

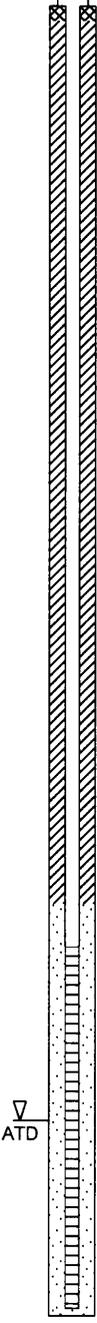
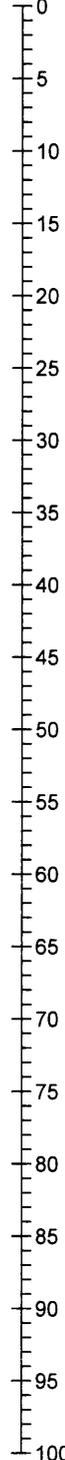
Damp to moist, dark to light brown, silty to non-silty, sandy GRAVEL.

Dry, gray, slightly sandy, very silty GRAVEL.

Damp to wet, brown, silty, very sandy to sandy GRAVEL.

Bottom of Boring at 90.5 Feet.
Completed 10/08/03.

Casing Stick-up in Feet: 2.16
Top of Casing in Feet: 2004.76



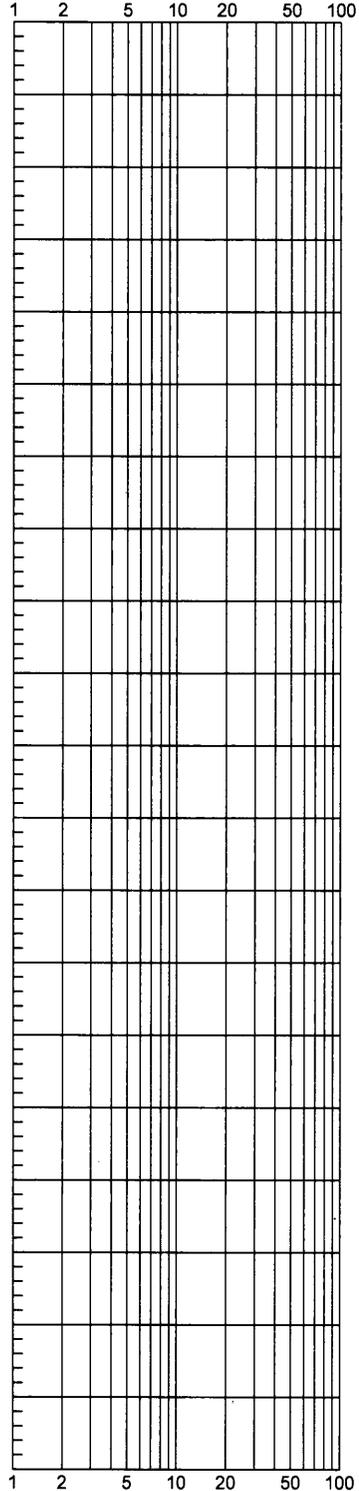
Sample

S-1

S-2

STANDARD PENETRATION RESISTANCE

▲ Blows per Foot



LAB TESTS & (PID)

(0)

(0)

BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/8/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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10/03

Figure A-15

Monitoring Well Log HL-MW-17S

Northing (ft): 11084.4
 Easting (ft): 10727.9

Soil Descriptions
 Approximate Ground Surface Elevation in Feet: 2004.7

BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/8/09

2 inches of Asphalt over damp to dry, brown, silty, sandy GRAVEL.

 Dry, gray-brown, sandy GRAVEL.

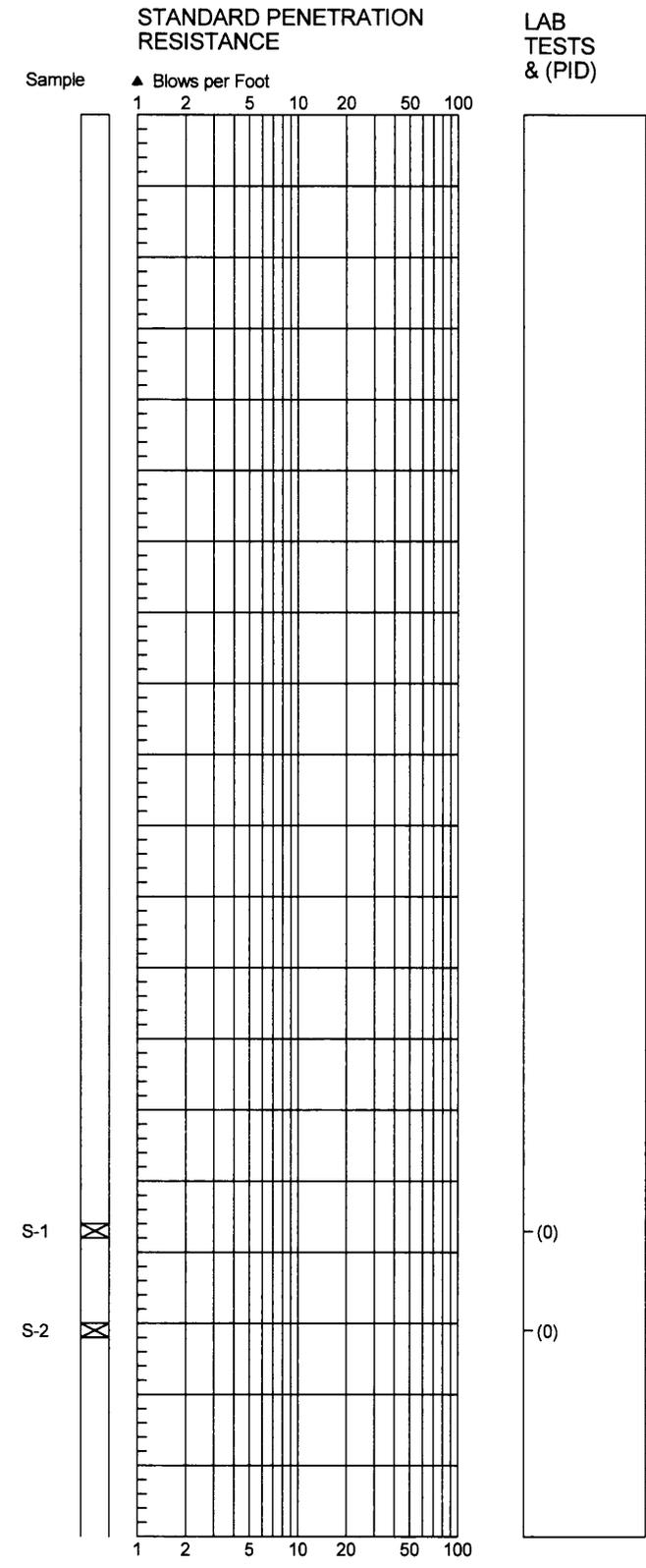
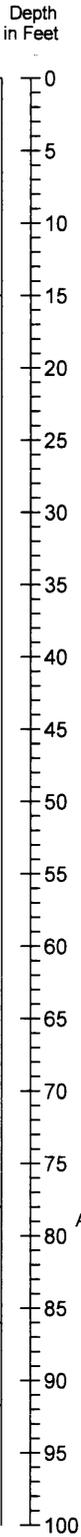
 Becomes damp.

 Wet, gray-brown GRAVEL.

 Wet, gray-brown, sandy GRAVEL grading to very sandy GRAVEL to very gravelly SAND.

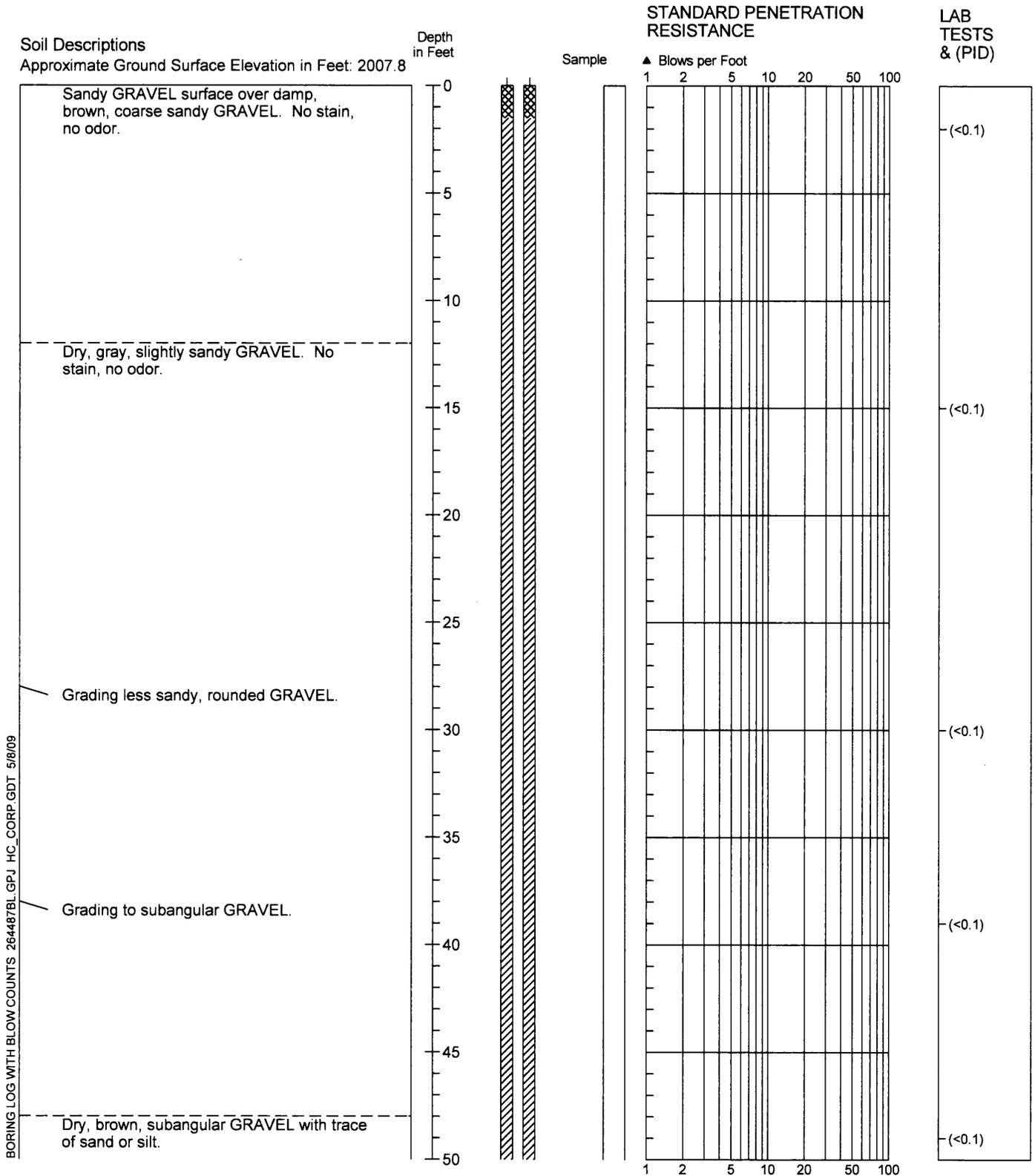
 Bottom of Boring at 91.7 Feet.
 Completed 09/26/03.

Casing Stick-up in Feet: 2.85
 Top of Casing in Feet: 2007.55



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

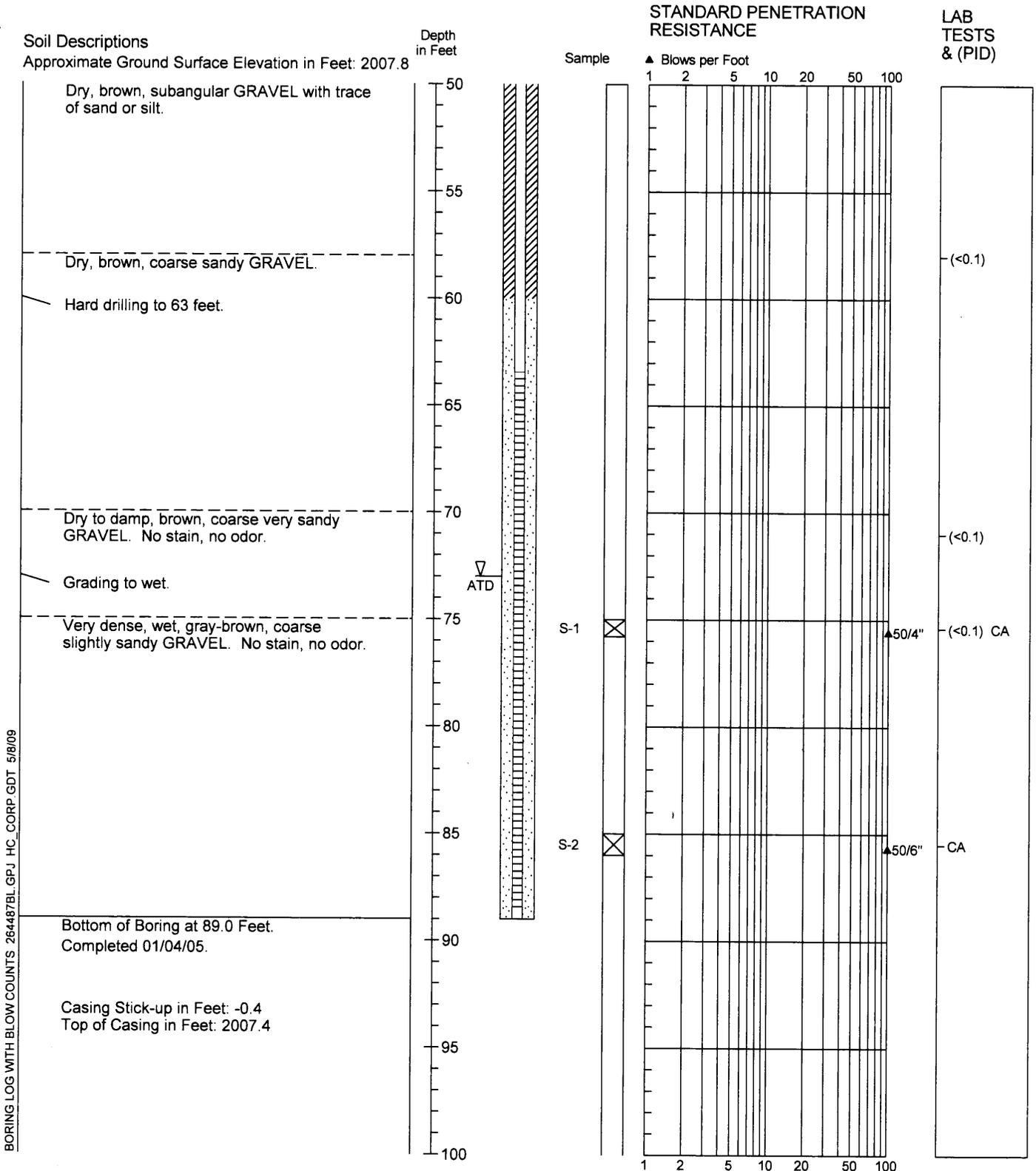
Boring Log/Construction Data for Monitoring Well HL-MW-18S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

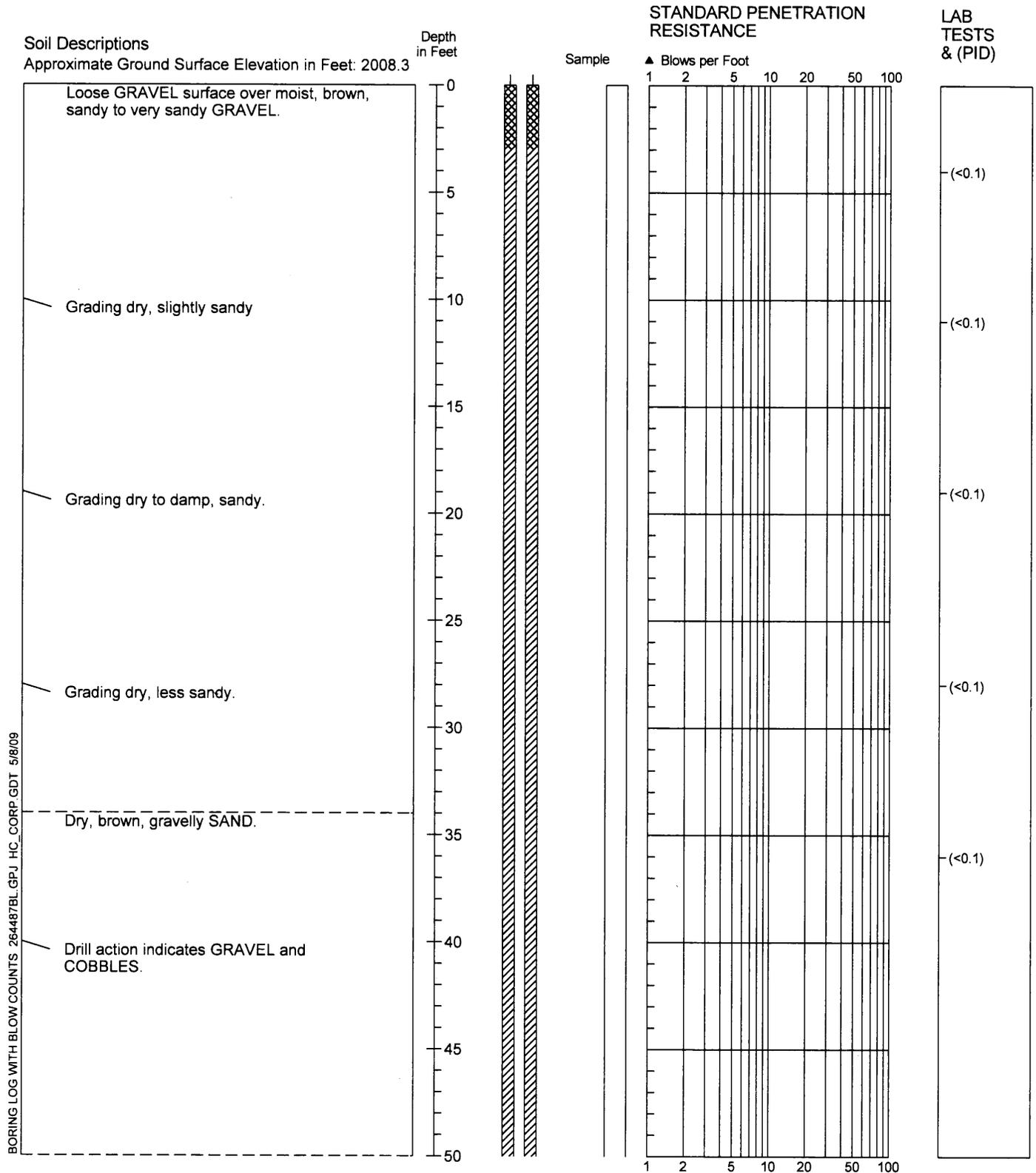


Boring Log/Construction Data for Monitoring Well HL-MW-18S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log/Construction Data for Monitoring Well HL-MW-19S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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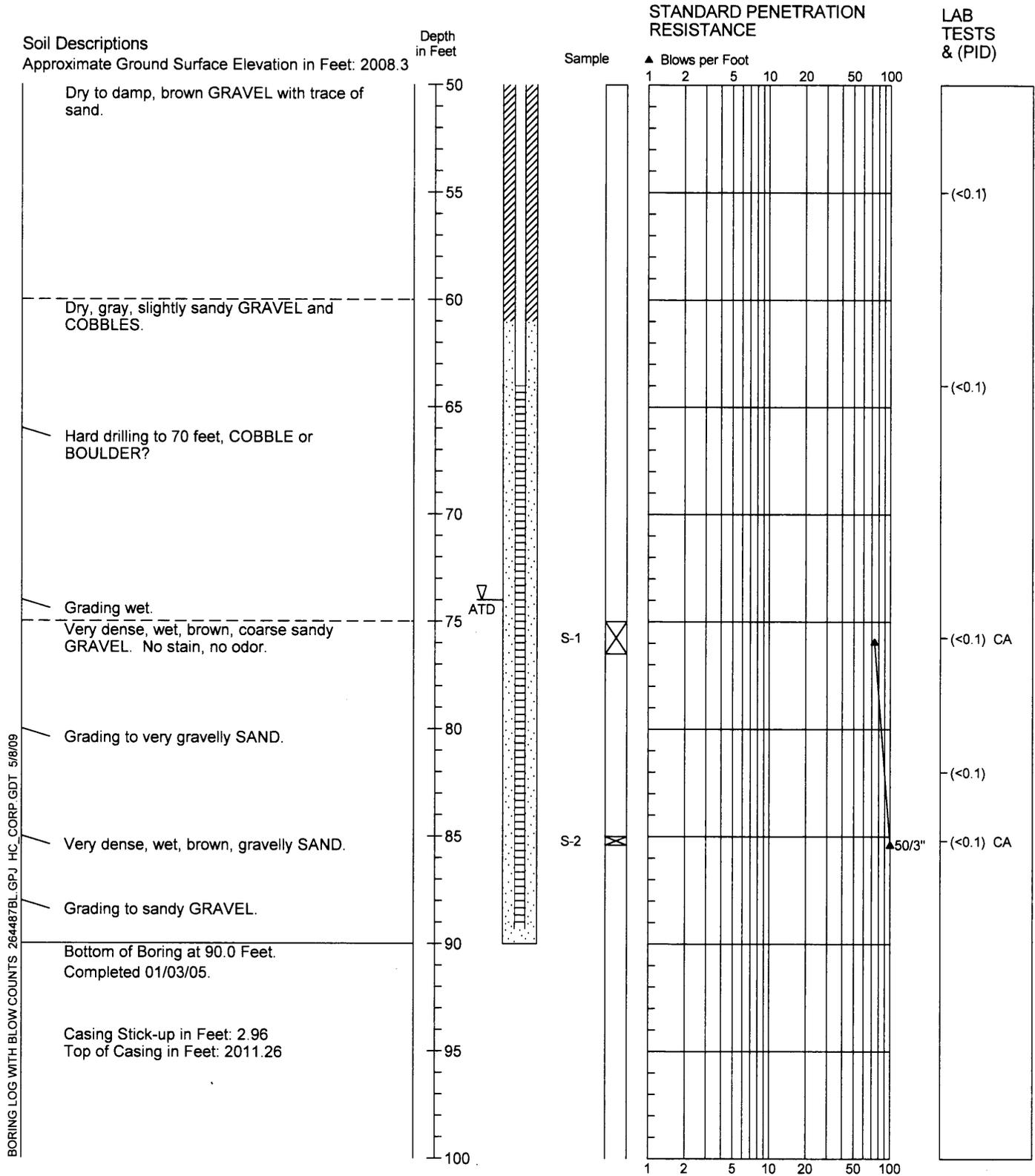
2644-87

1/05

Figure A-18

1/2

Boring Log/Construction Data for Monitoring Well HL-MW-19S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



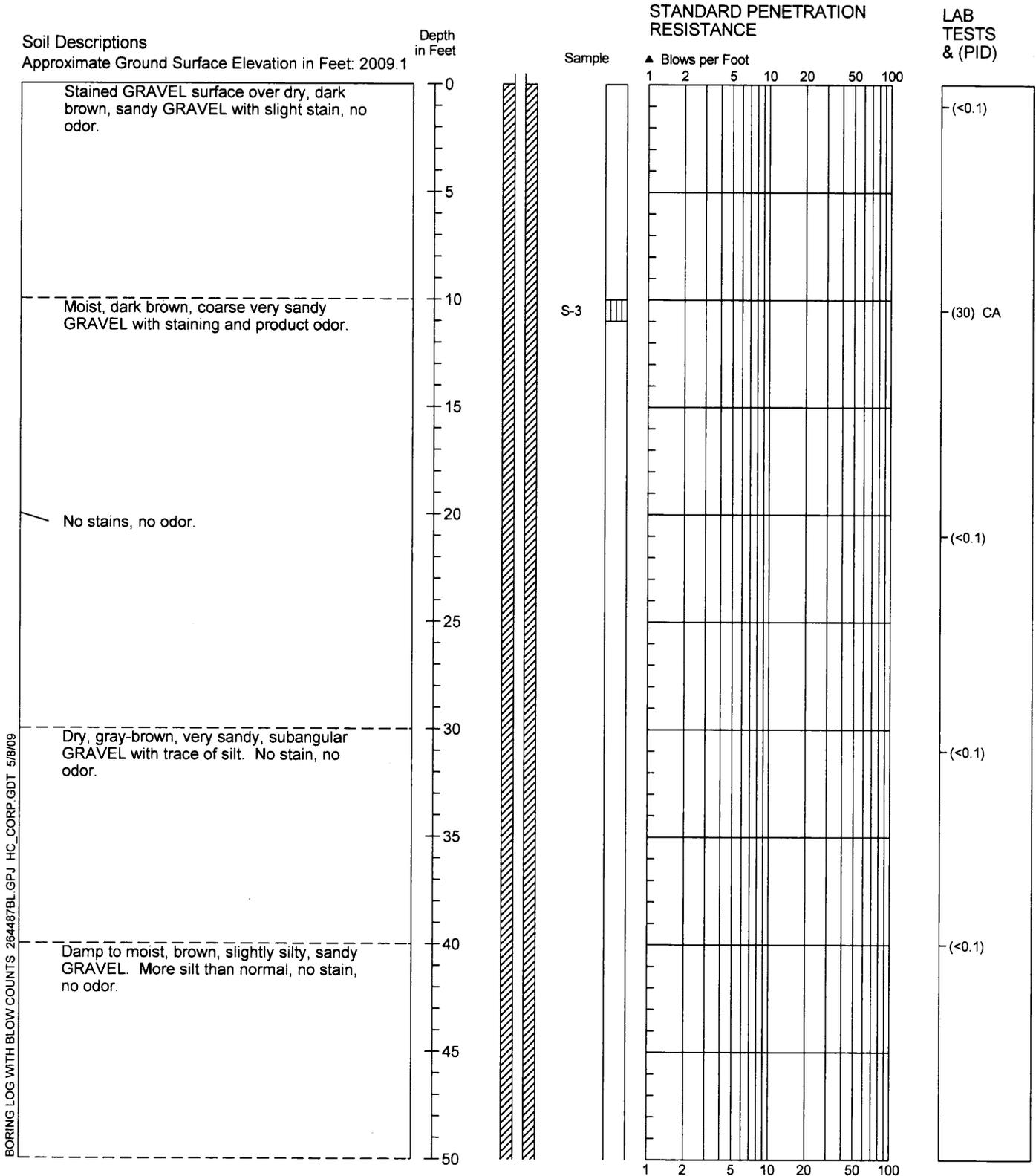
2644-87

1/05

Figure A-18

2/2

Boring Log/Construction Data for Monitoring Well HL-MW-20S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

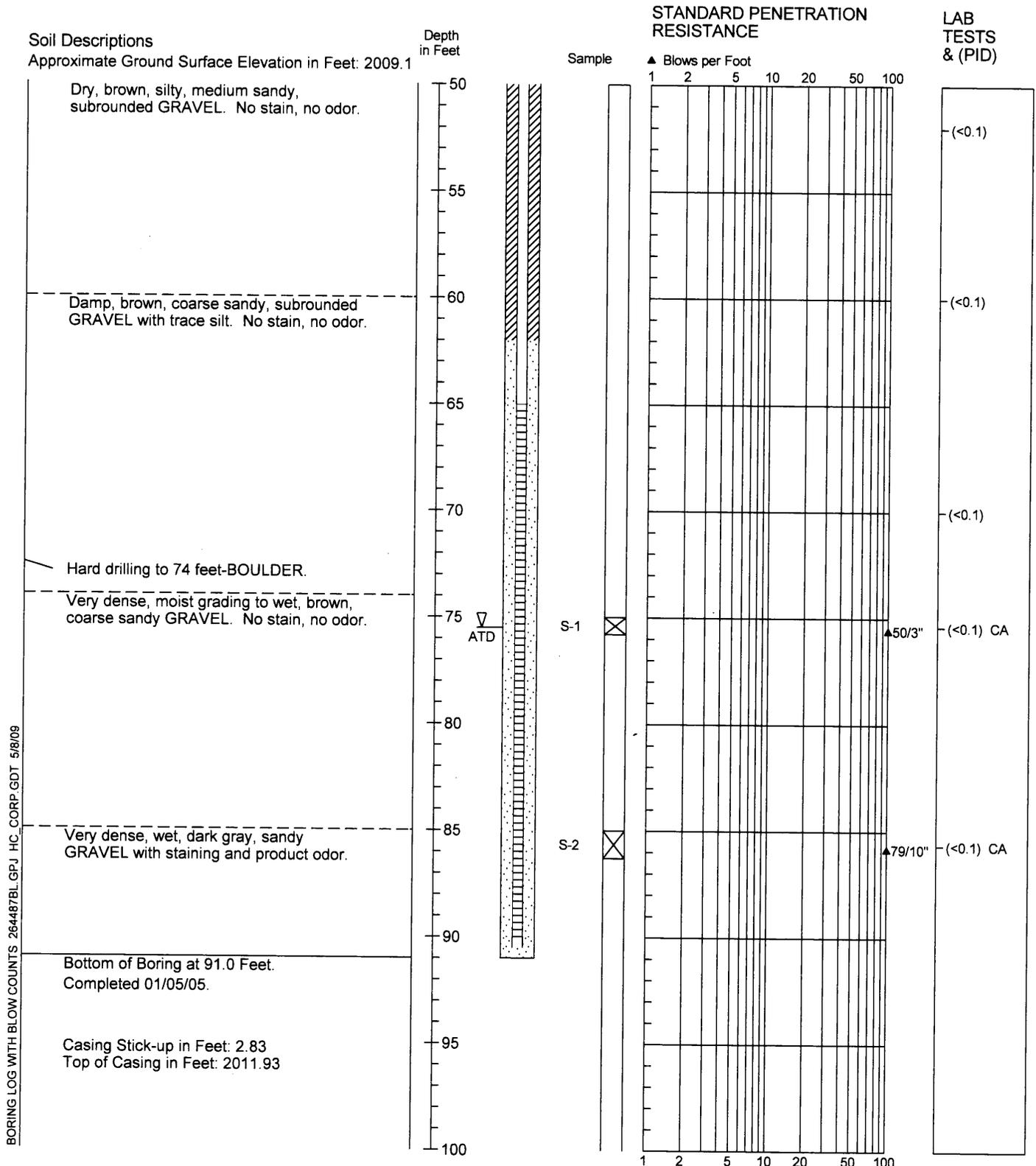
2644-87

1/05

Figure A-19

1/2

Boring Log/Construction Data for Monitoring Well HL-MW-20S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



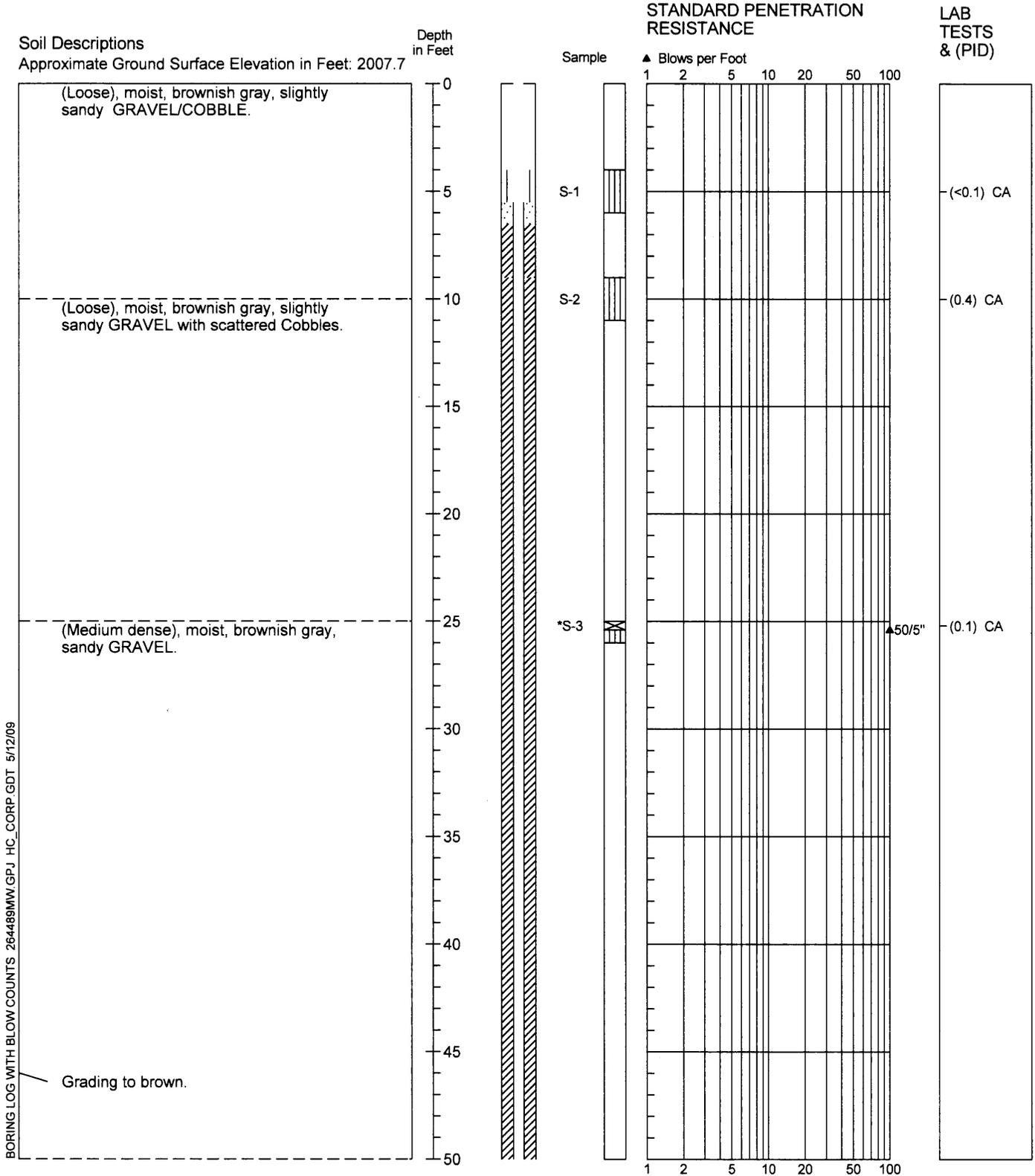
2644-87

1/05

Figure A-19

2/2

Boring Log/Construction Data for Monitoring Well HL-MW-21S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



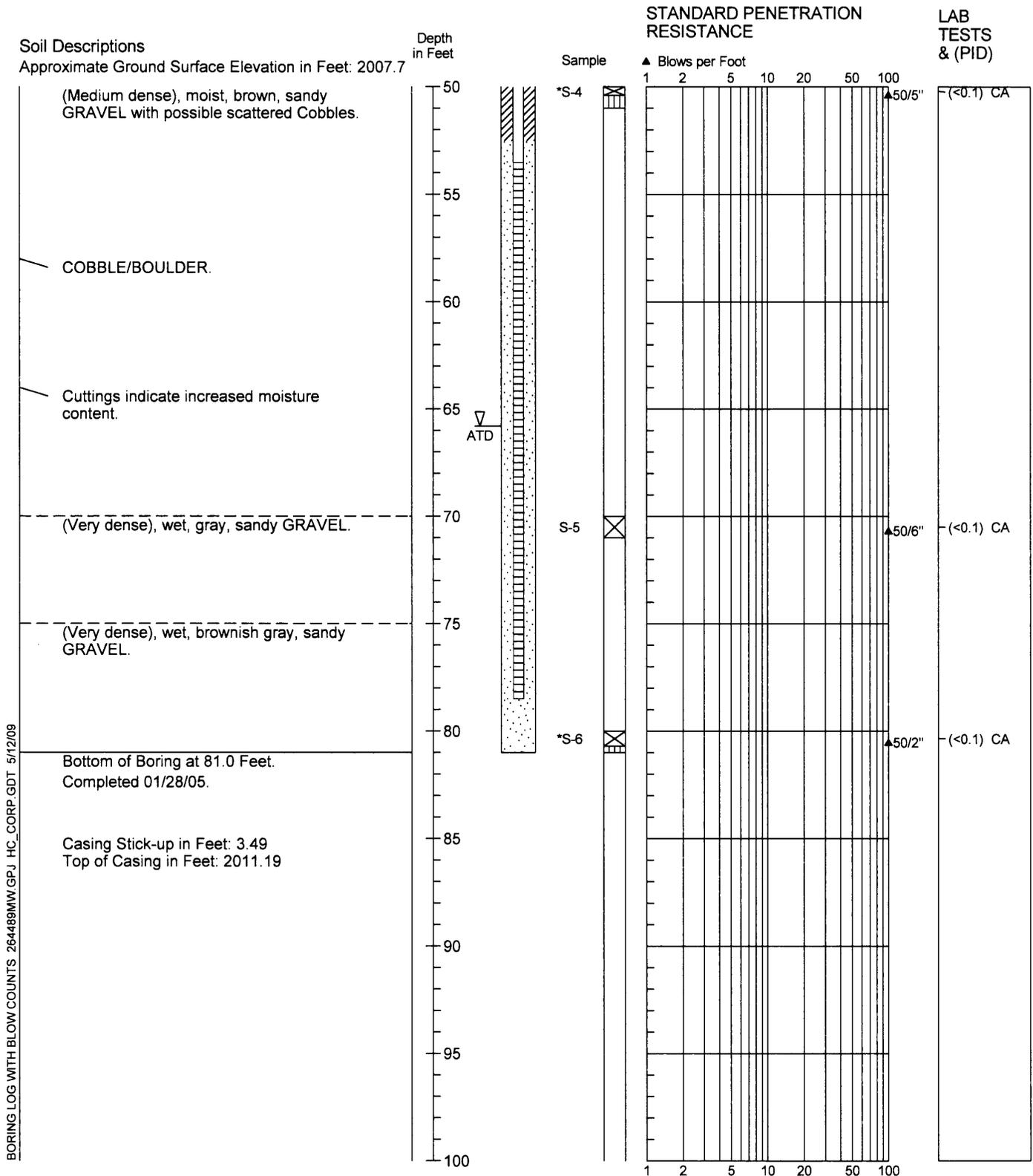
2644-89

Figure A-20

1/05

1/2

Boring Log/Construction Data for Monitoring Well HL-MW-21S



BORING LOG WITH BLOW COUNTS 264489MW/GPJ HC_CORP.GDT 5/12/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



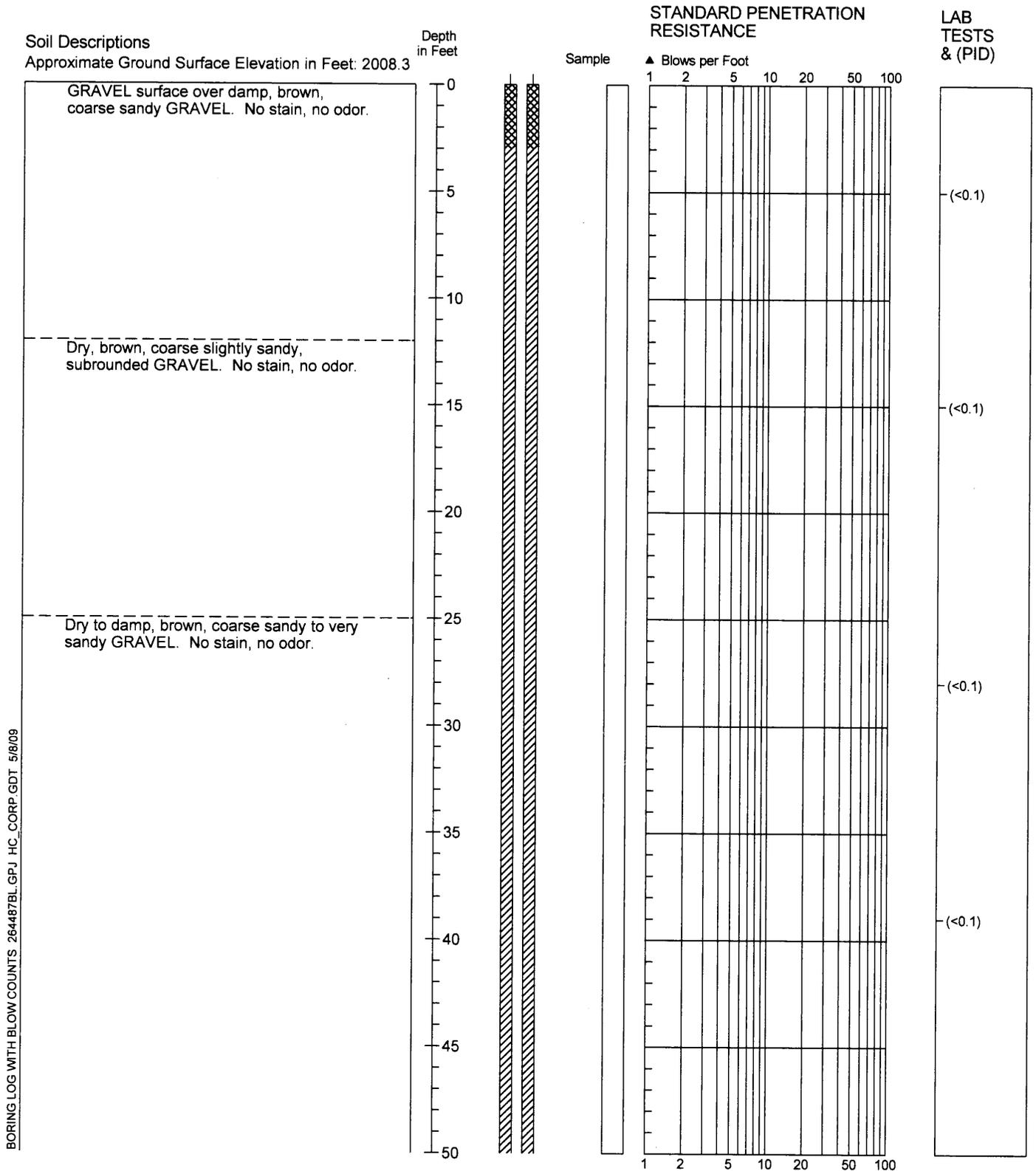
2644-89

Figure A-20

1/05

2/2

Boring Log/Construction Data for Monitoring Well HL-MW-22S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



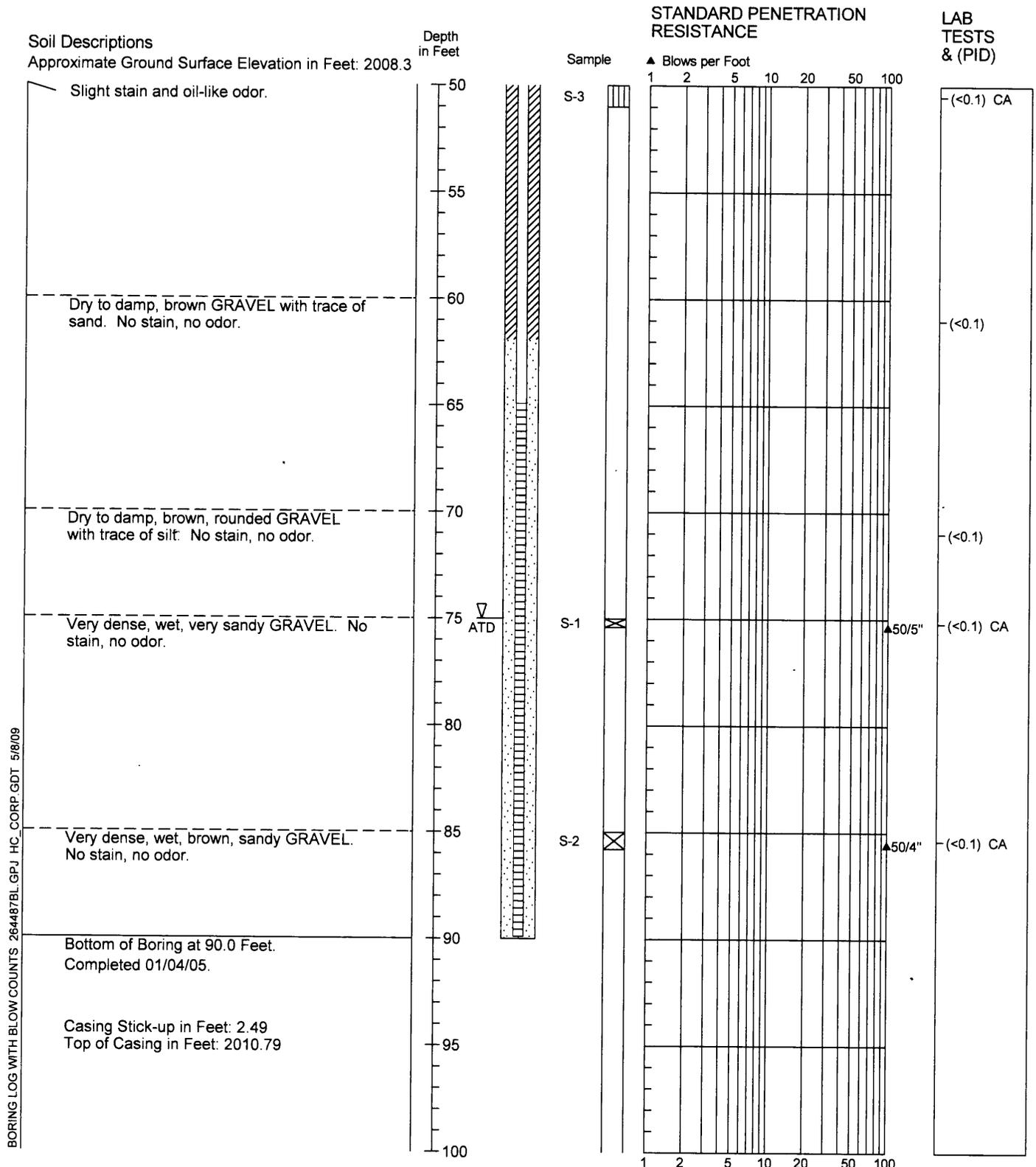
2644-87

1/05

Figure A-21

1/2

Boring Log/Construction Data for Monitoring Well HL-MW-22S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



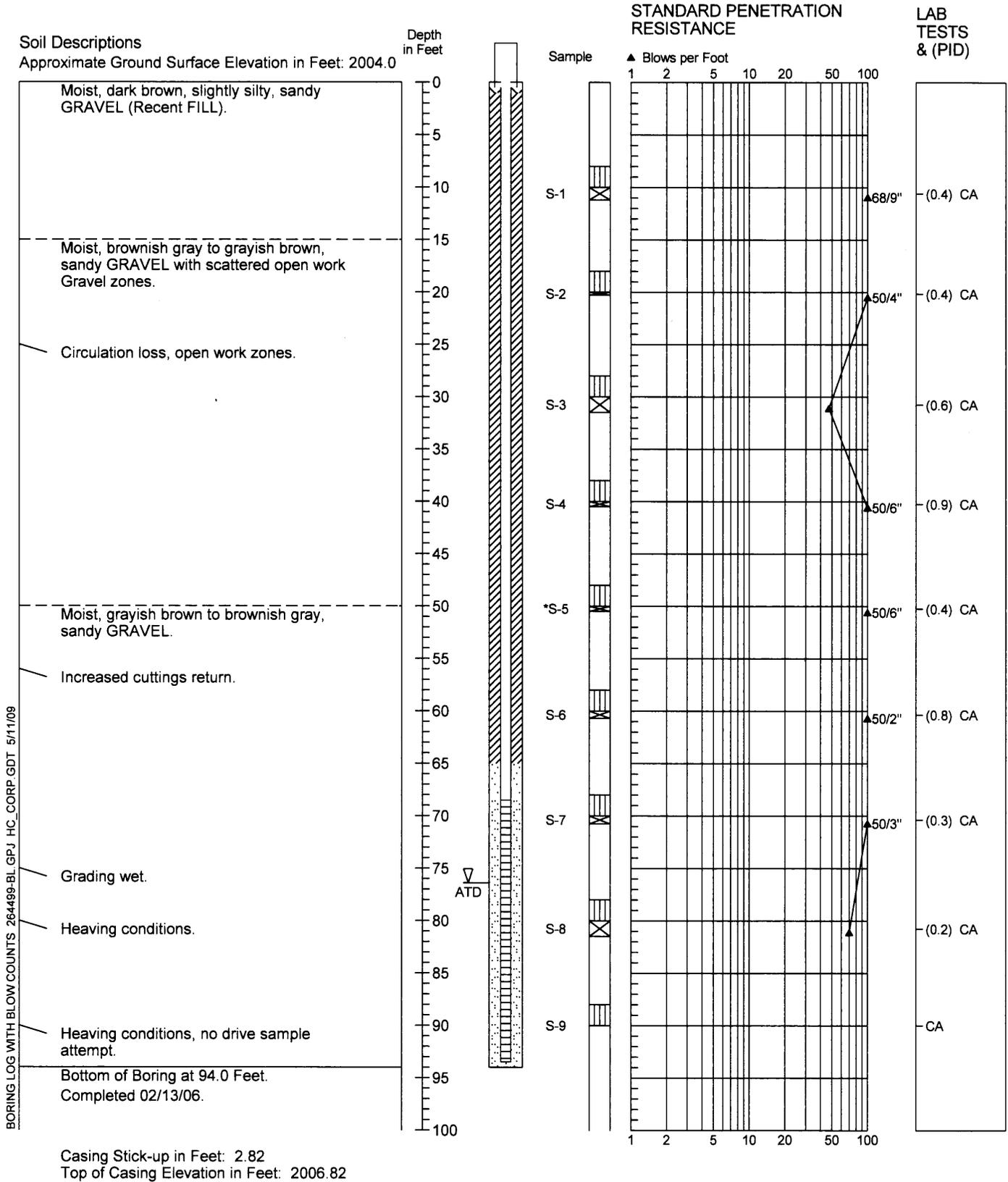
2644-87

1/05

Figure A-21

2/2

Boring Log/Construction Data for Monitoring Well HL-MW-23S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

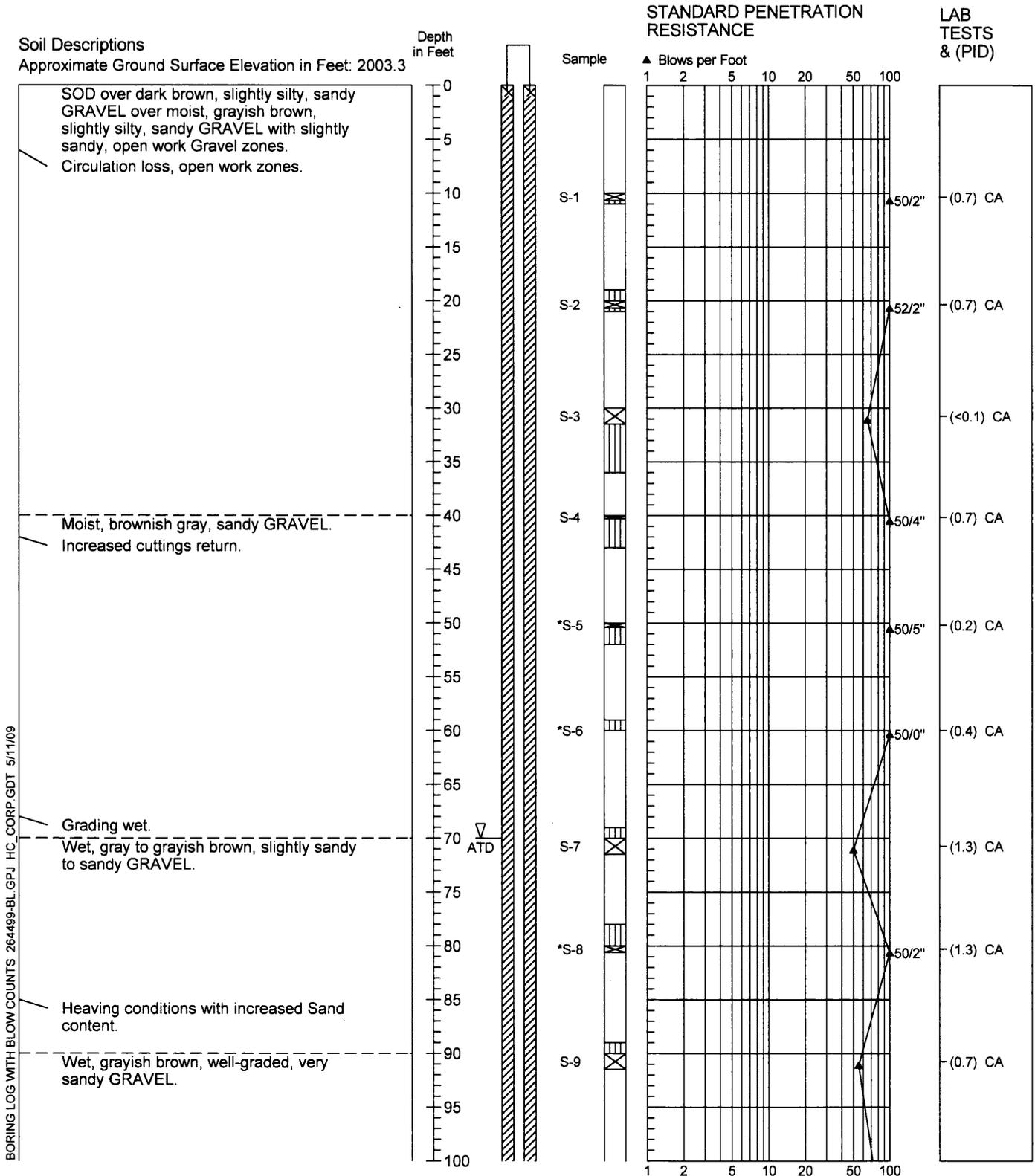


2644-99

2/06

Figure A-22

Boring Log/Construction Data for Monitoring Well HL-MW-24DD



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



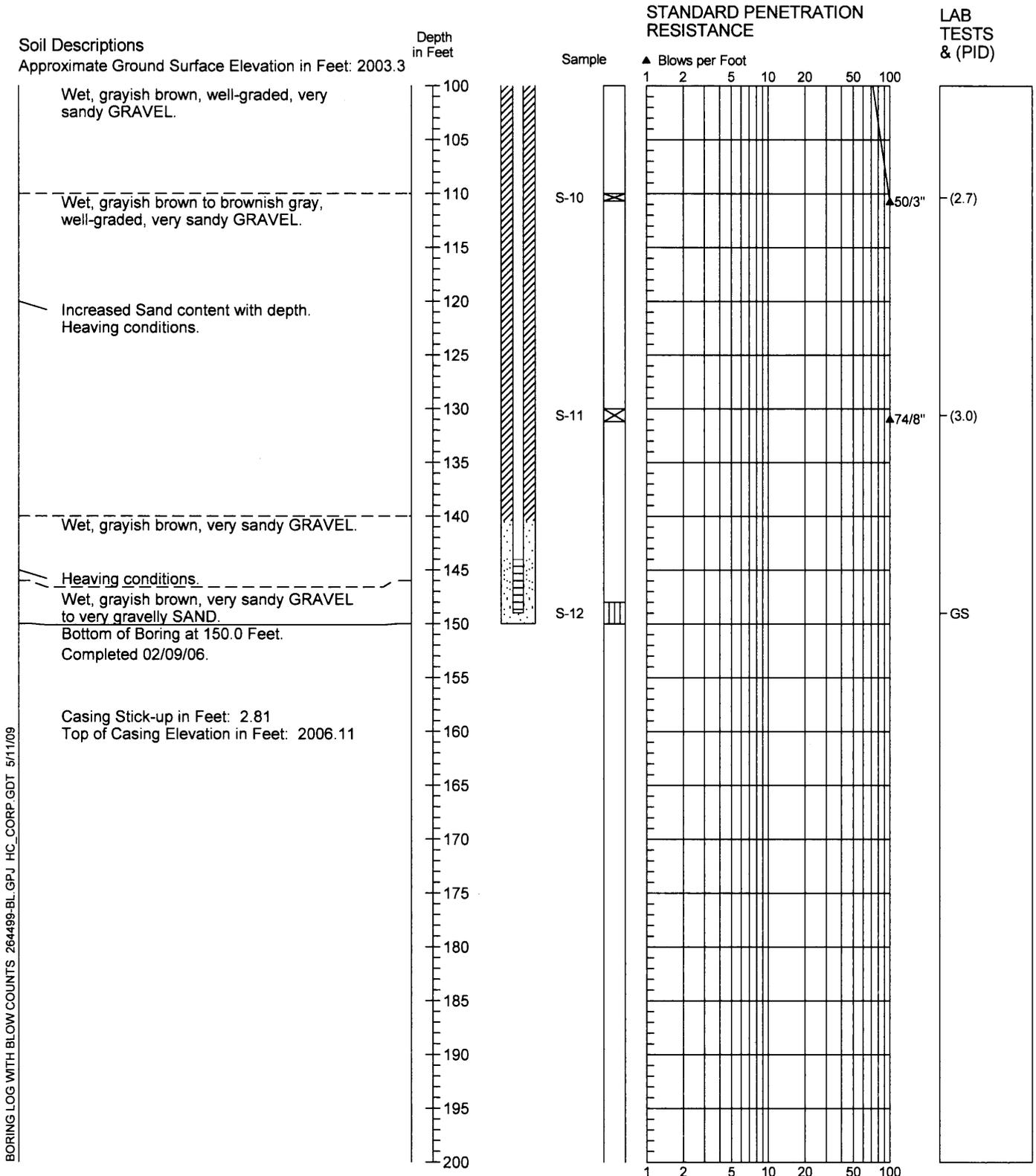
2644-99

2/06

Figure A-23

1/2

Boring Log/Construction Data for Monitoring Well HL-MW-24DD



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



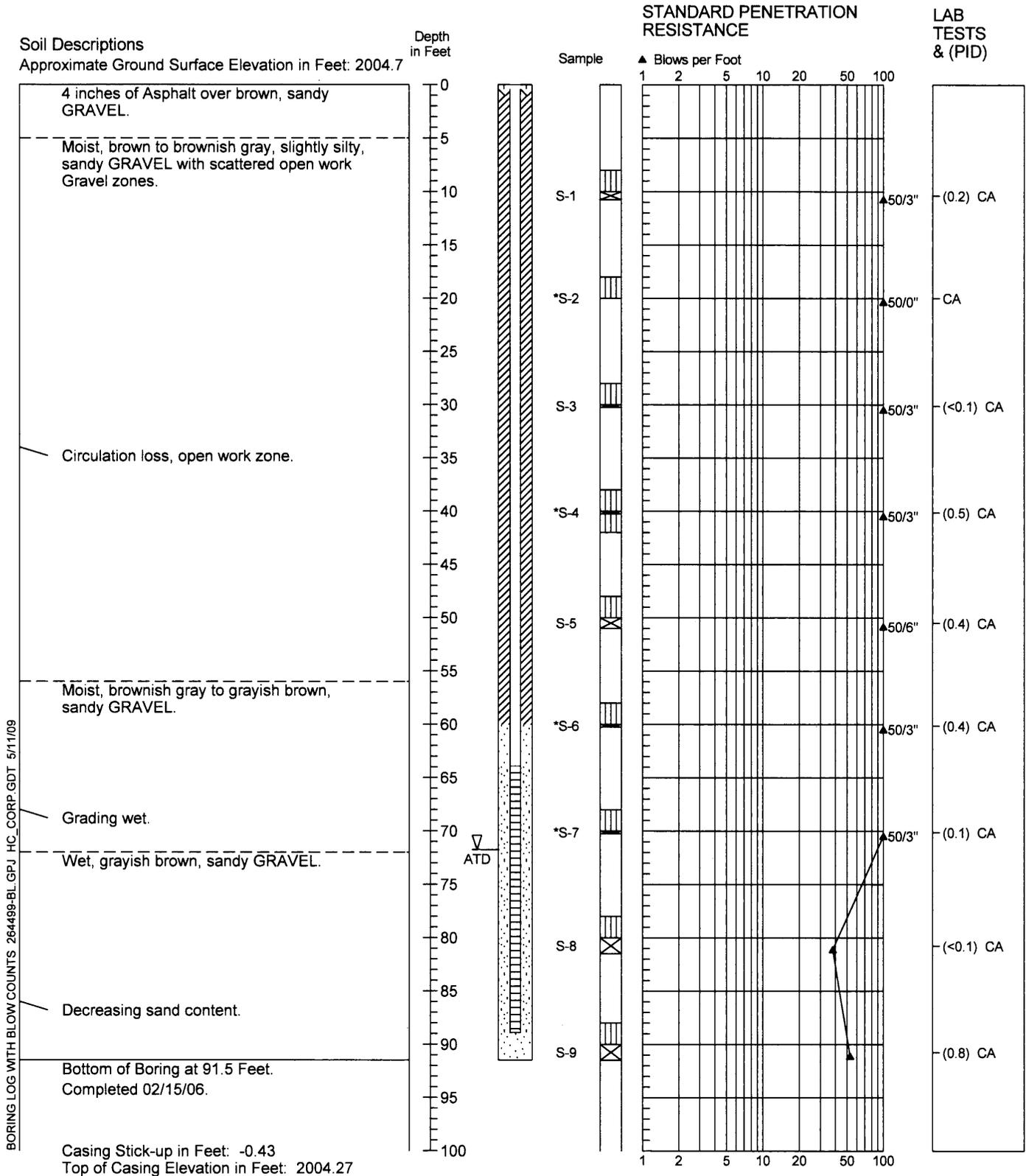
2644-99

2/06

Figure A-23

2/2

Boring Log/Construction Data for Monitoring Well HL-MW-25S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

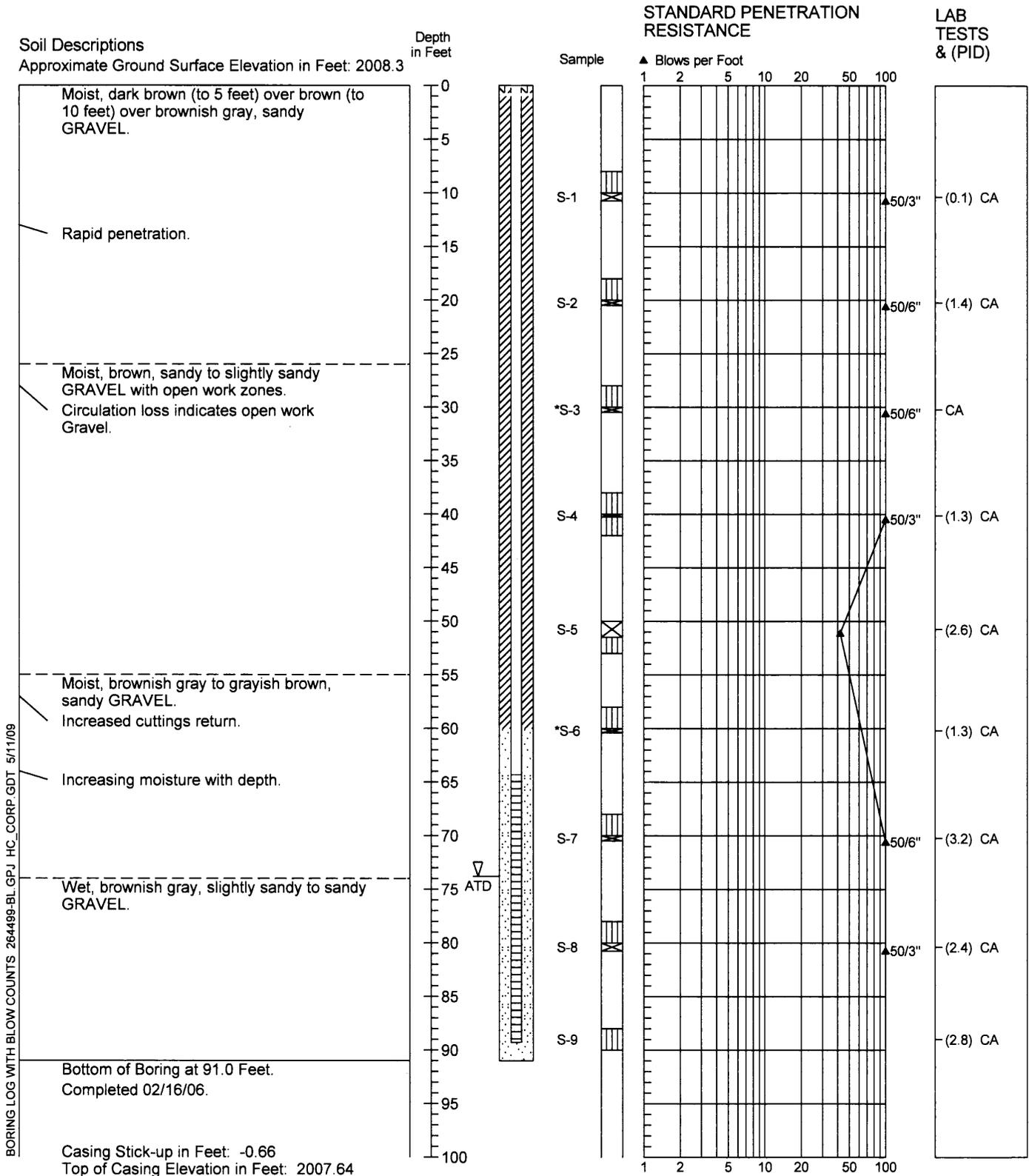


2644-99

2/06

Figure A-24

Boring Log/Construction Data for Monitoring Well HL-MW-26S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

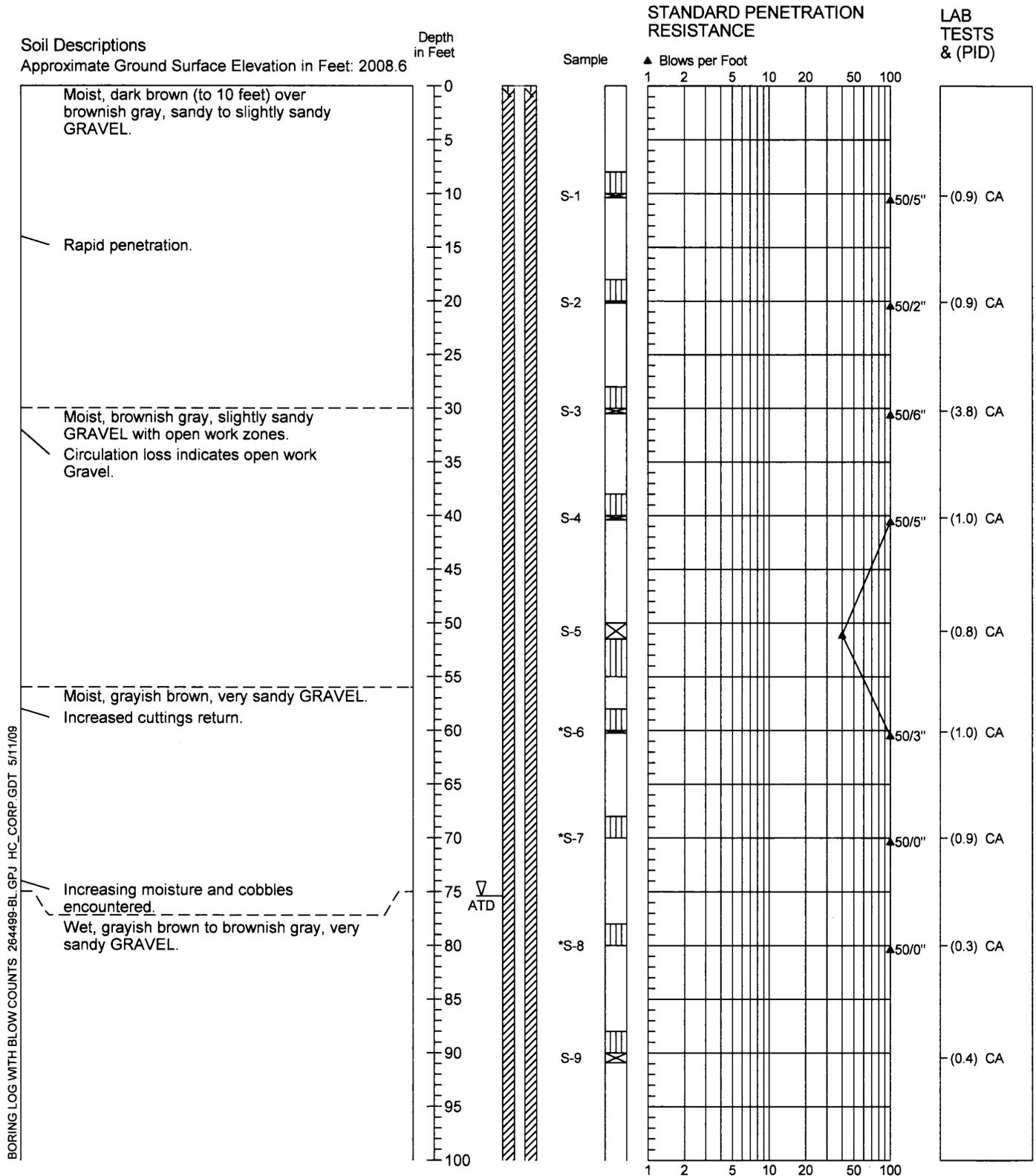


2644-99

2/06

Figure A-25

Boring Log/Construction Data for Monitoring Well HL-MW-27D



BORING LOG WITH BLOW COUNTS 264499-BL.GPJ HC_CORP.GDT 5/11/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



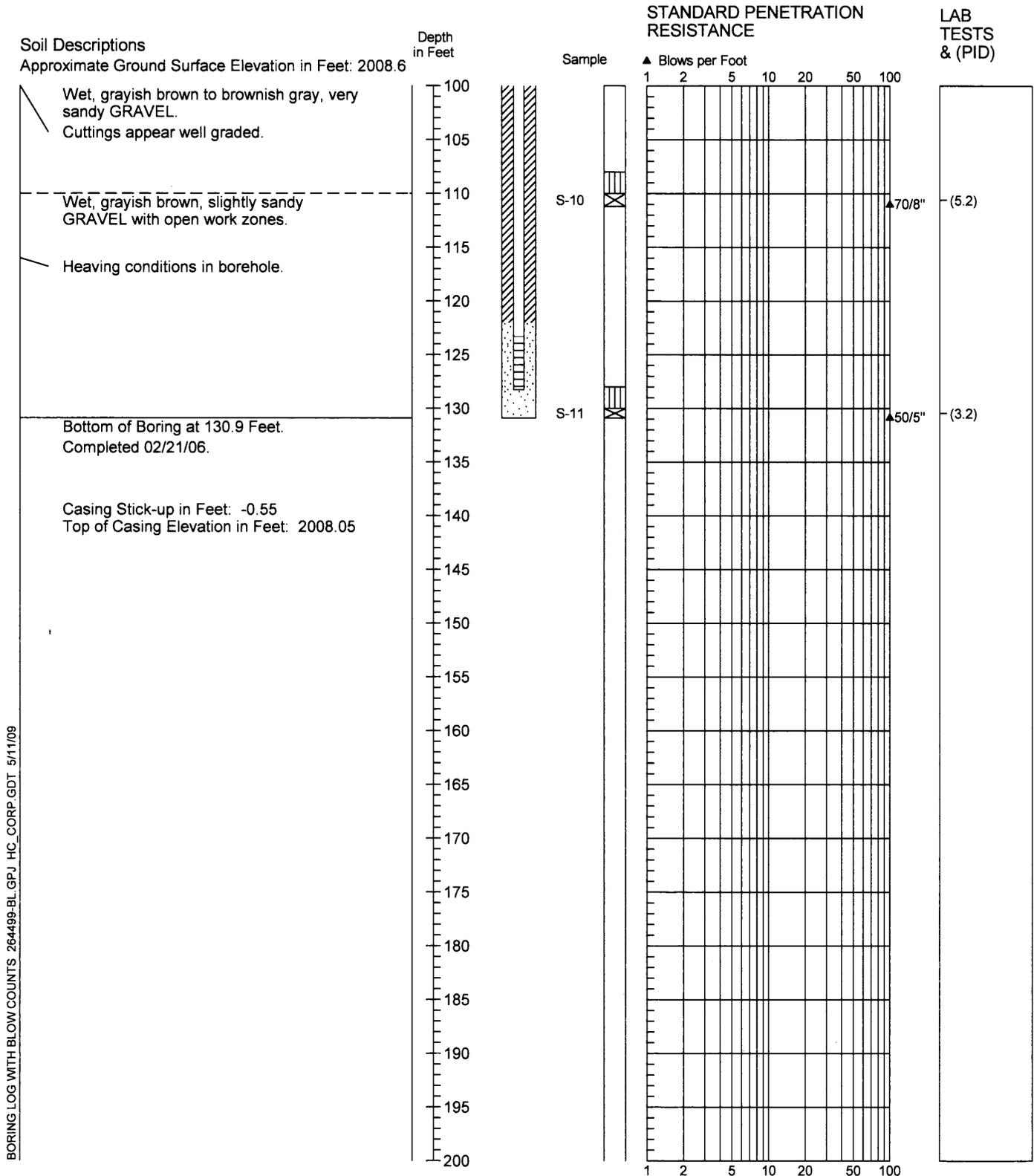
2644-99

2/06

Figure A-26

1/2

Boring Log/Construction Data for Monitoring Well HL-MW-27D



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



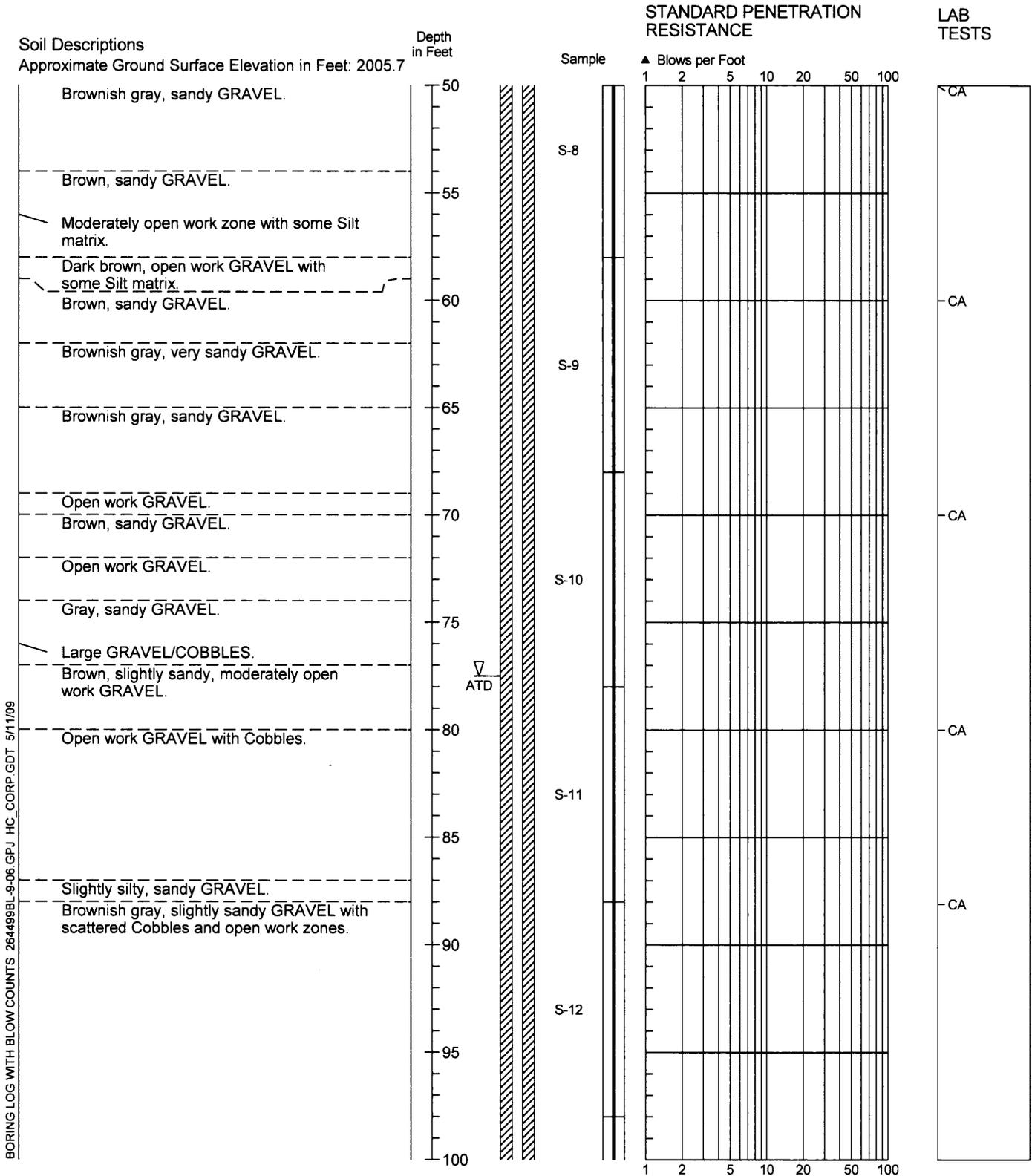
2644-99

2/06

Figure A-26

2/2

Boring Log/Construction Data for Monitoring Well HL-MW-28DD



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Note: Boring by Sonic Rig.



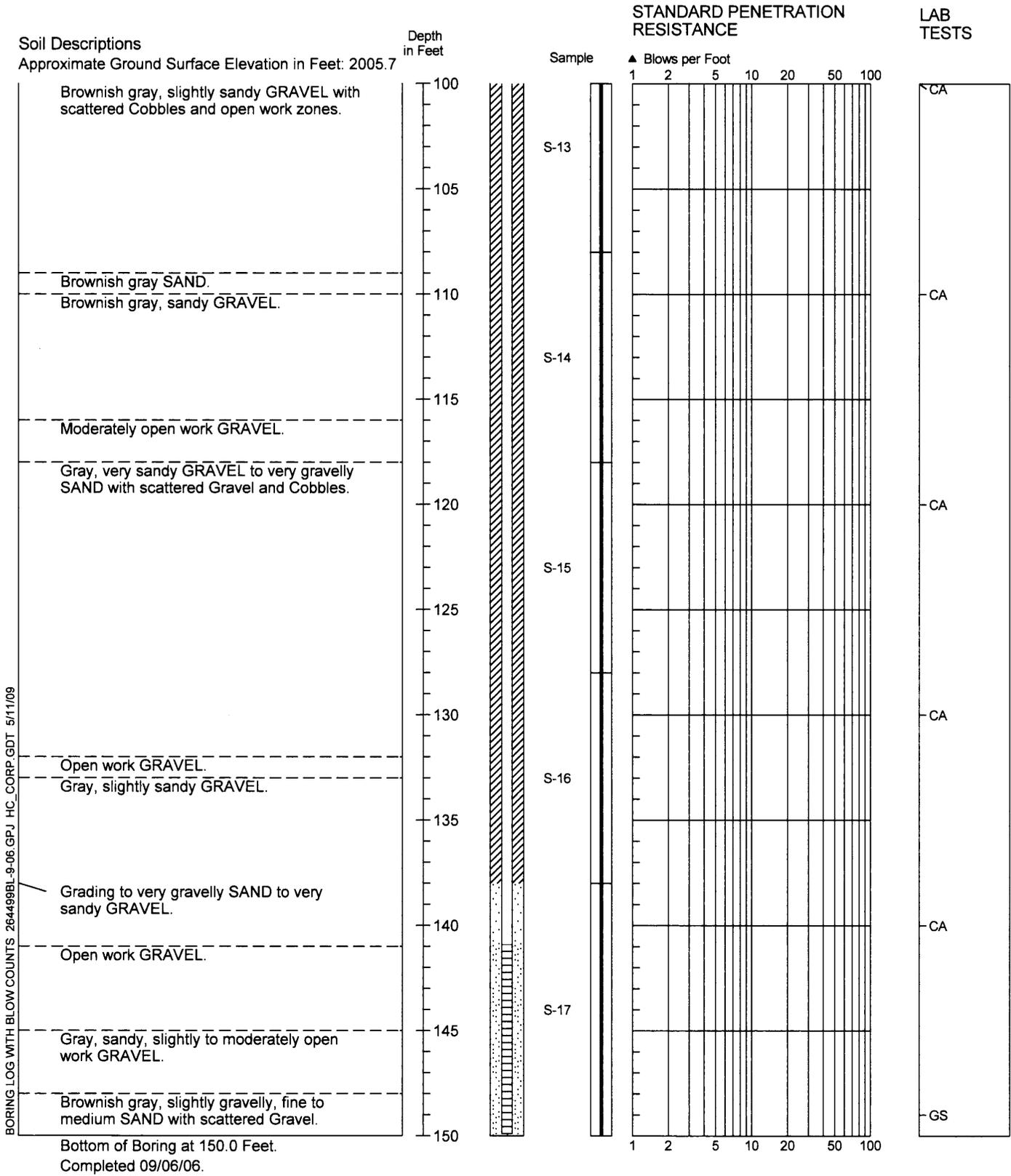
2644-99

9/06

Figure A-27

2/3

Boring Log/Construction Data for Monitoring Well HL-MW-28DD



Casing Stick-up in Feet: 2.5
Top of Casing Elevation in Feet: 2008.22

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Note: Boring by Sonic Rig.



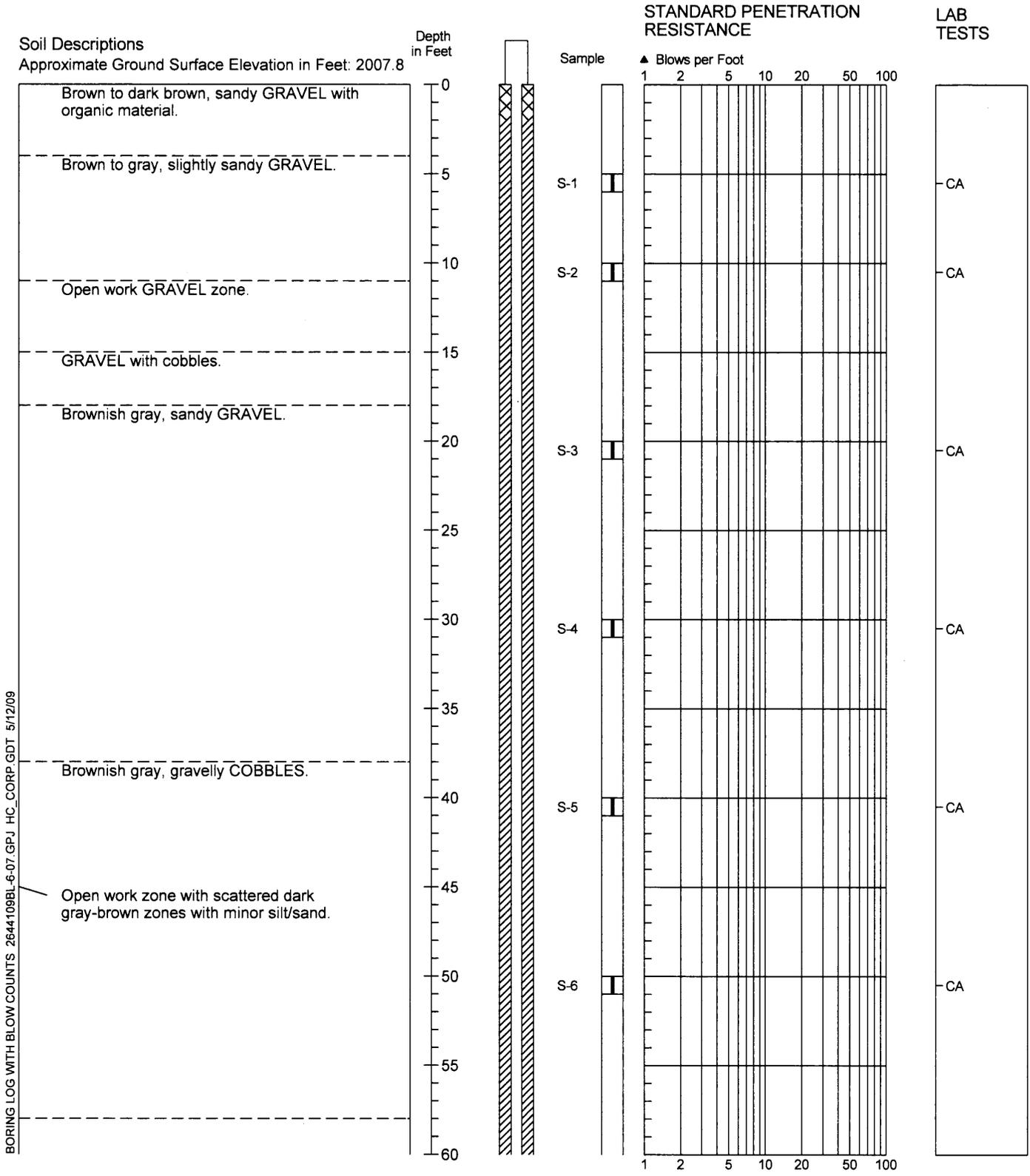
2644-99

9/06

Figure A-27

3/3

Boring Log/Construction Data for Monitoring Well HL-MW-29S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Note: Boring continuously cored by Sonic Rig with composite samples collected as indicated.



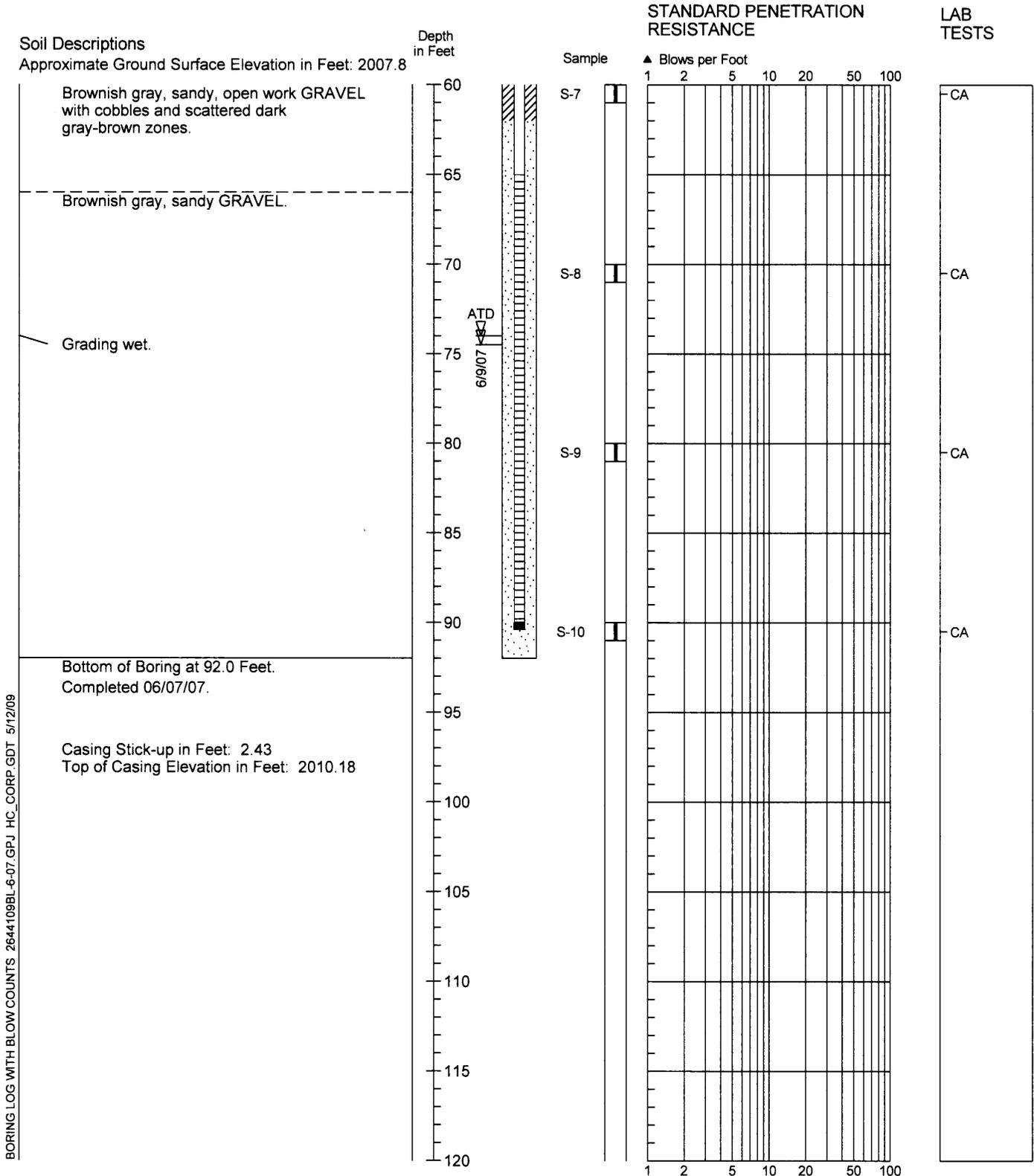
2644-109

6/07

Figure A-28

1/2

Boring Log/Construction Data for Monitoring Well HL-MW-29S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Note: Boring continuously cored by Sonic Rig with composite samples collected as indicated.



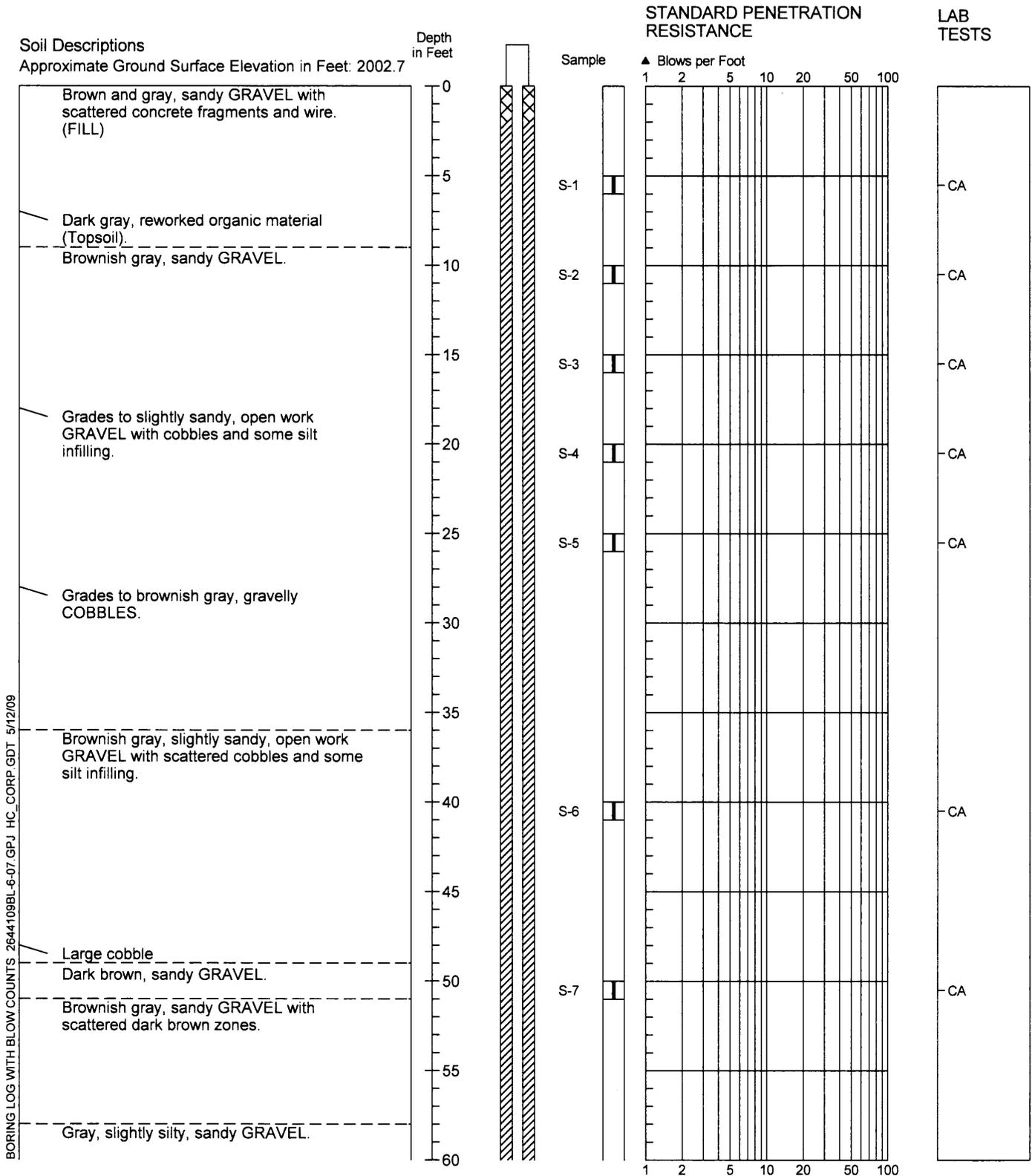
2644-109

6/07

Figure A-28

2/2

Boring Log/Construction Data for Monitoring Well HL-MW-30S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Note: Boring continuously cored by Sonic Rig with composite samples collected as indicated.



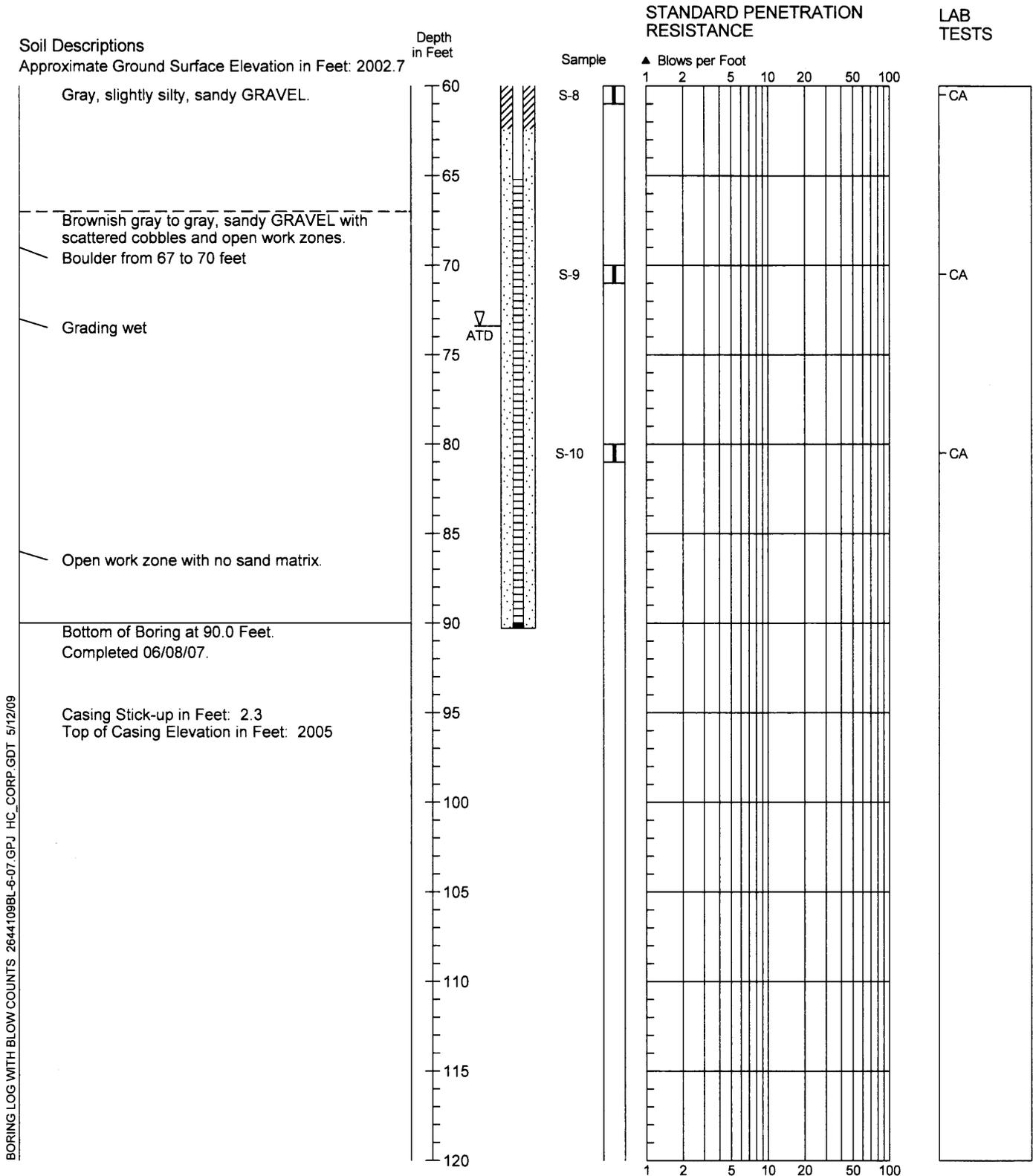
2644-109

Figure A-29

6/07

1/2

Boring Log/Construction Data for Monitoring Well HL-MW-30S



BORING LOG WITH BLOW COUNTS 2644109BL-6-07.GPJ HC_CORP.GDT: 5/12/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Note: Boring continuously cored by Sonic Rig with composite samples collected as indicated.



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6/07

Figure A-29

2/2

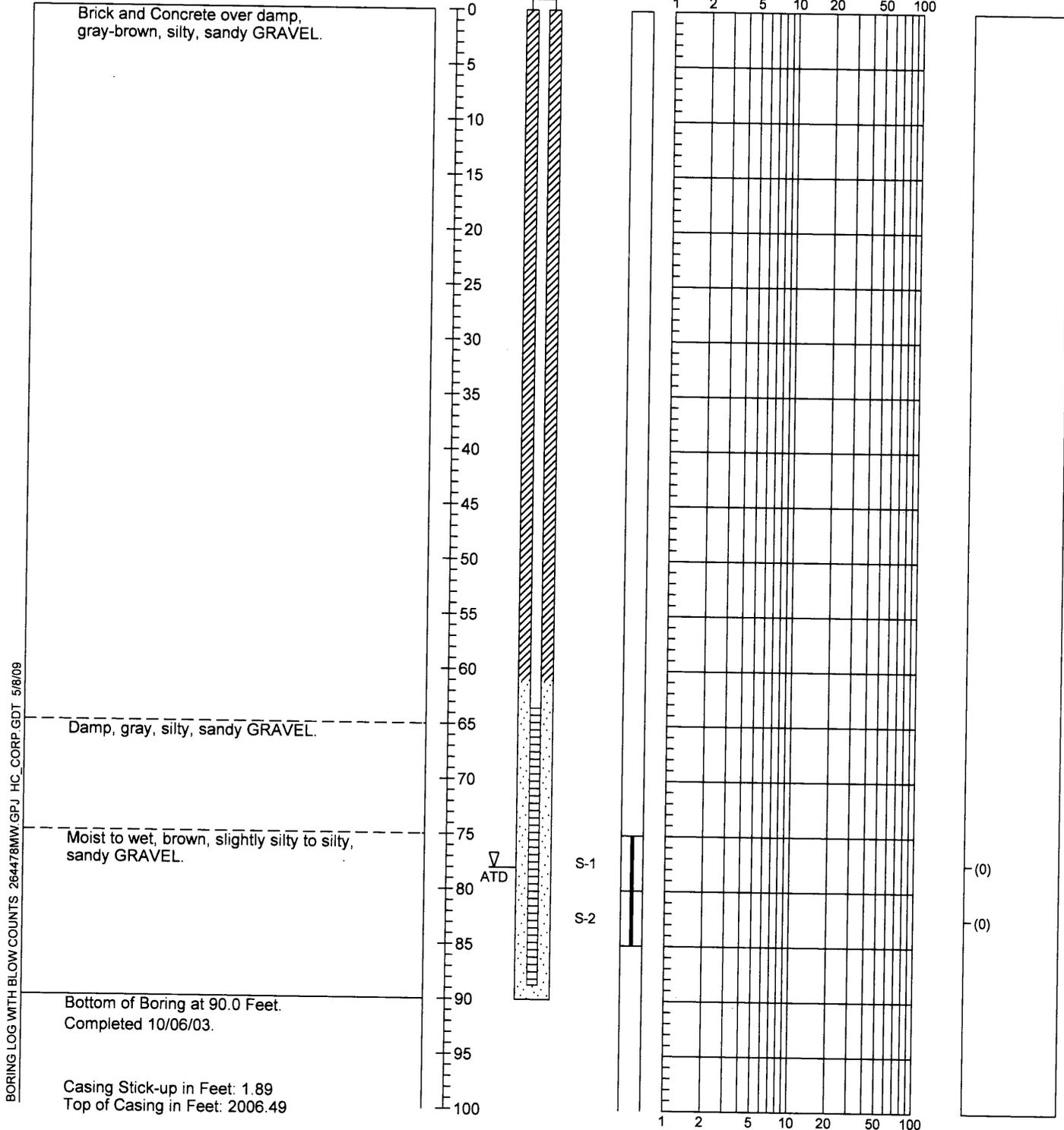
Monitoring Well Log RM-MW-1S

Northing (ft): 11216
 Easting (ft): 10498.9

Soil Descriptions
 Approximate Ground Surface Elevation in Feet: 2004.6

STANDARD PENETRATION RESISTANCE

LAB TESTS & (PID)



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



2644-78

10/03

Figure A-30

Monitoring Well Log RM-MW-2D

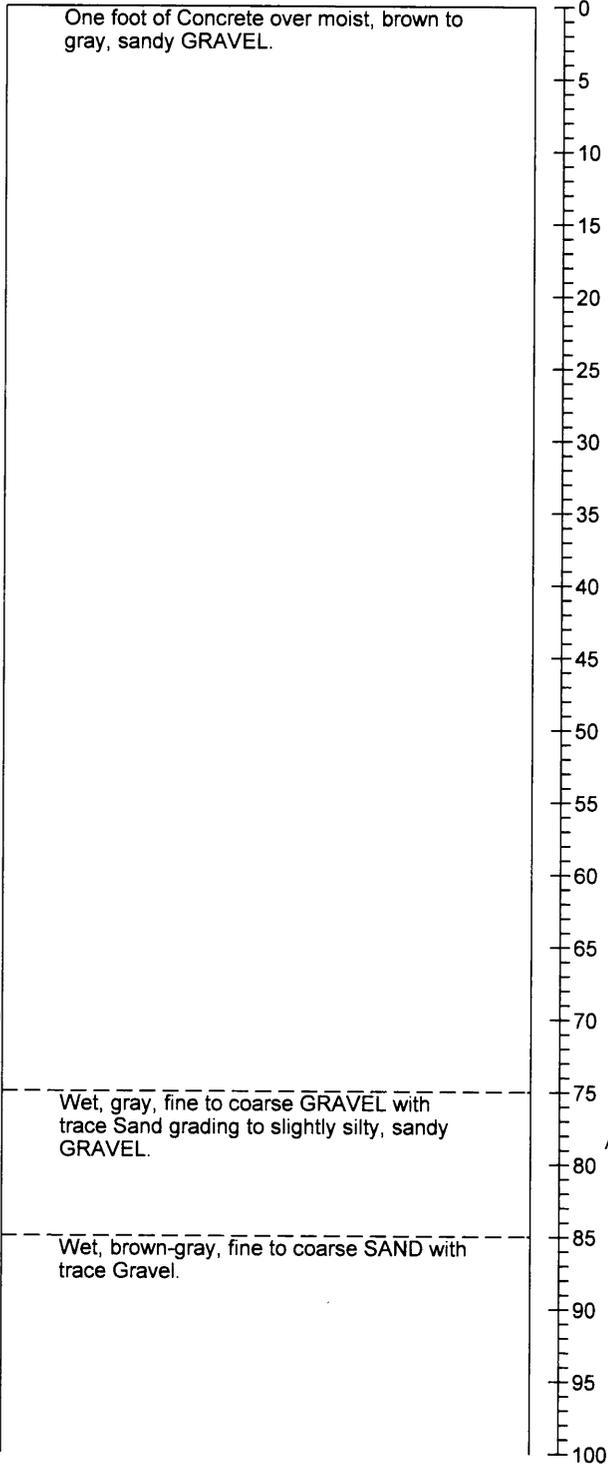
Northing (ft): 11228.8

Easting (ft): 10499.2

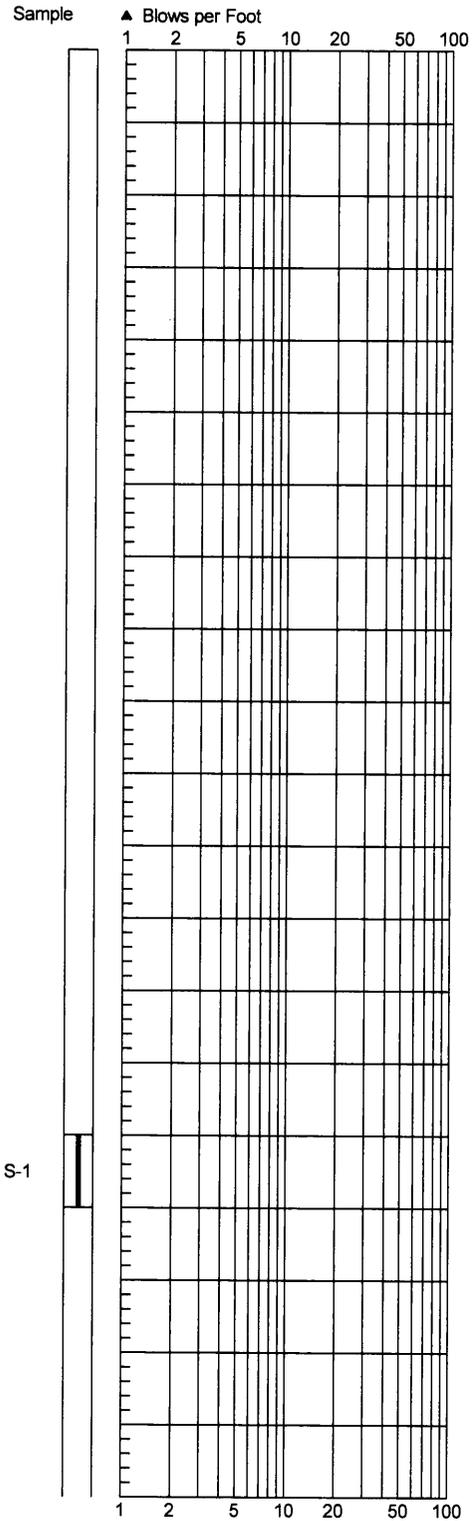
Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2004.6

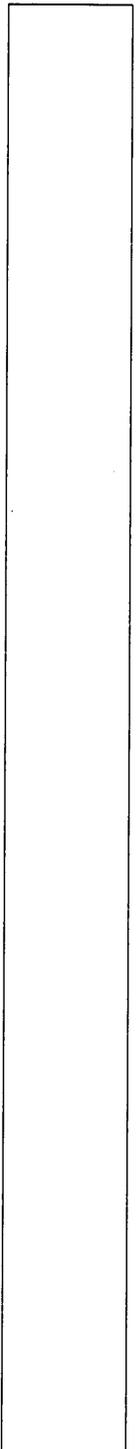
BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/8/09



STANDARD PENETRATION RESISTANCE



LAB TESTS & (PID)



HARTCROWSER

2644-78

10/03

Figure A-31

1/2

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Monitoring Well Log RM-MW-2D

Northing (ft): 11228.8

Easting (ft): 10499.2

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2004.6

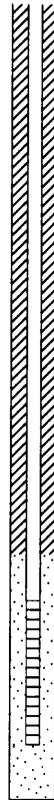
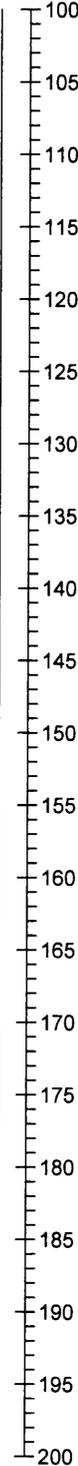
Wet, brown-gray, fine to coarse SAND with trace Gravel.

Wet, brown-gray, fine to coarse SAND with silty SAND lenses.

Bottom of Boring at 155.0 Feet.
Completed 10/04/03.

Casing Stick-up in Feet: 1.91
Top of Casing in Feet: 2006.51

Depth
in Feet

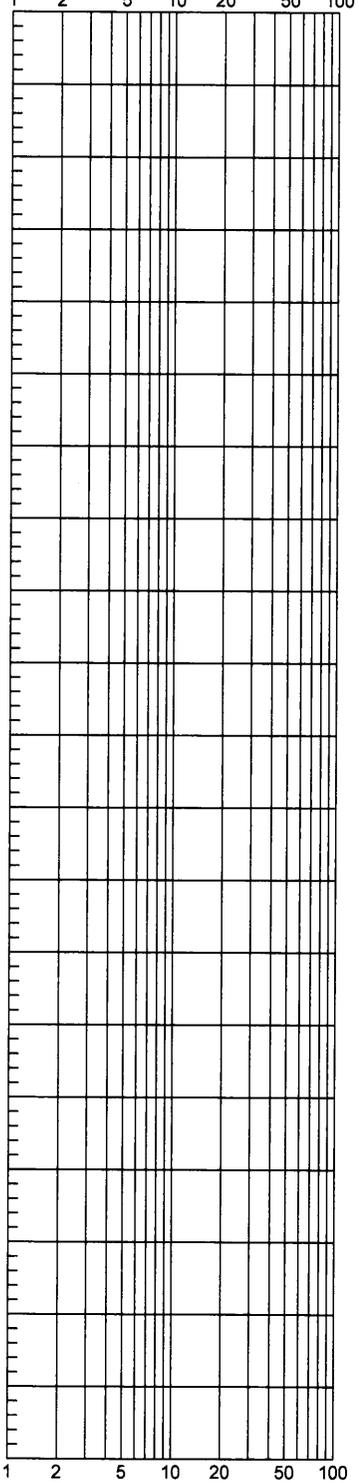


Sample

S-2

STANDARD PENETRATION RESISTANCE

▲ Blows per Foot



LAB
TESTS
& (PID)

(0)

BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP_GDT 5/8/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

2644-78

10/03

Figure A-31

2/2

Monitoring Well Log RM-MW-3S

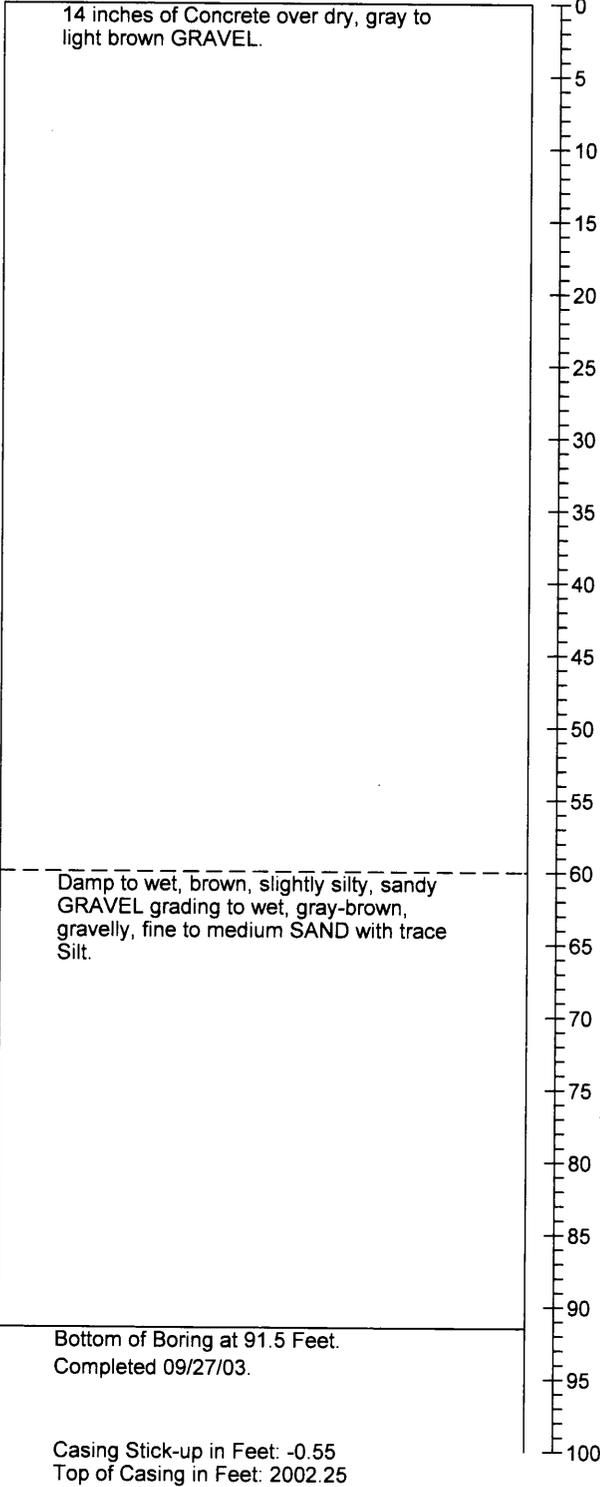
Northing (ft): 11301.7

Easting (ft): 10924.4

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2002.8

BORING LOG WITH BLOW COUNTS_264478MW.GPJ_HC_CORP.GDT_5/8/09

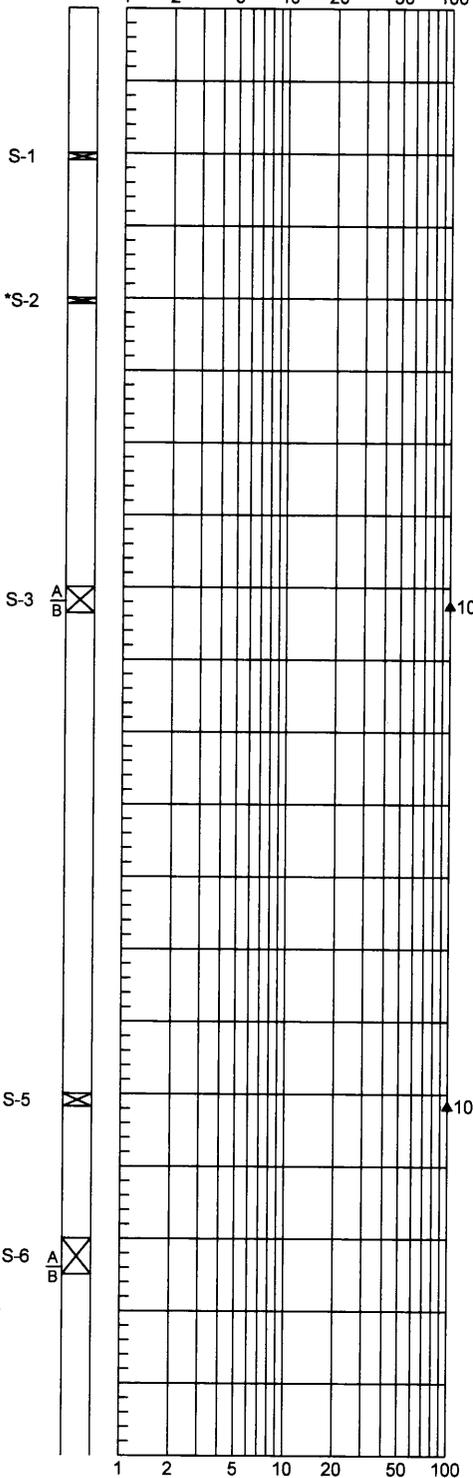


Depth
in Feet

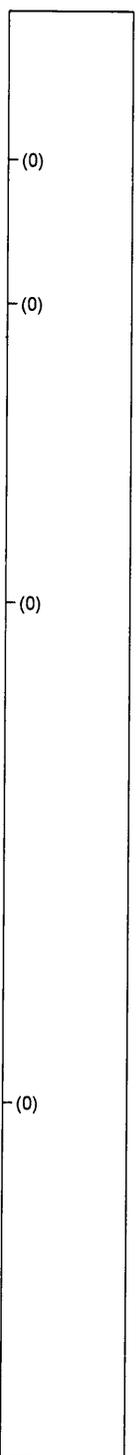
STANDARD PENETRATION RESISTANCE

▲ Blows per Foot

Sample



LAB
TESTS
& (PID)



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



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9/03

Figure A-32

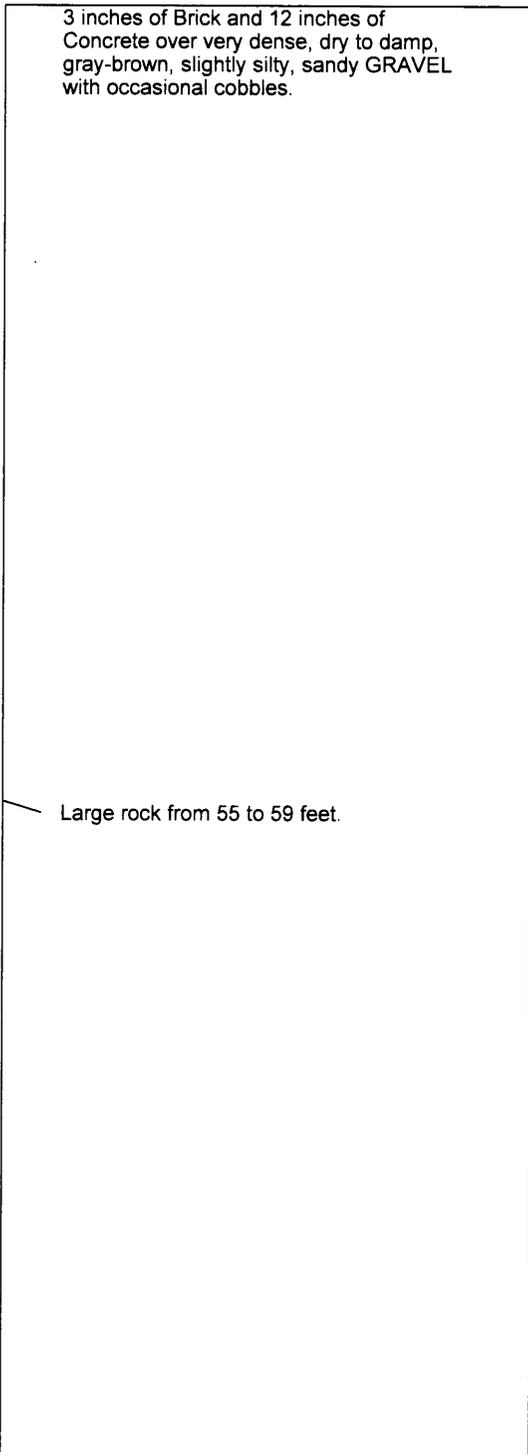
Monitoring Well Log RM-MW-4D

Northing (ft): 11290.6

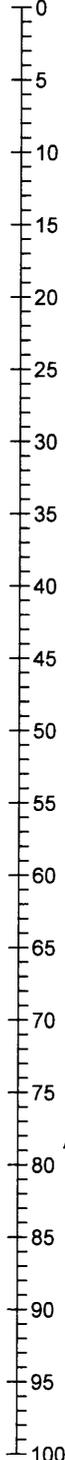
Easting (ft): 10924.9

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2003.9



Depth in Feet

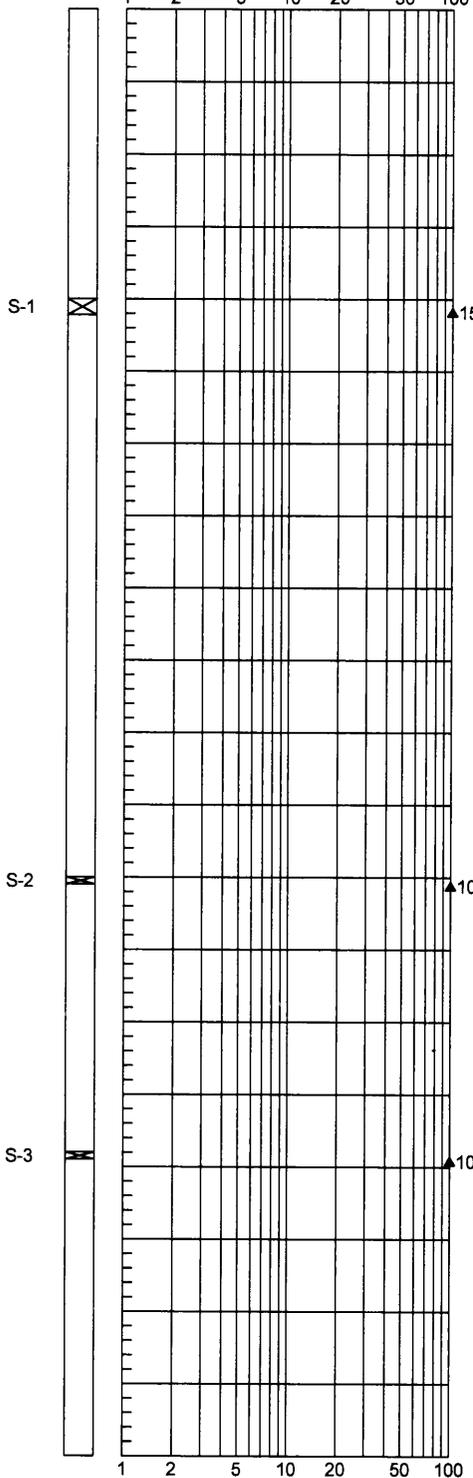


STANDARD PENETRATION RESISTANCE

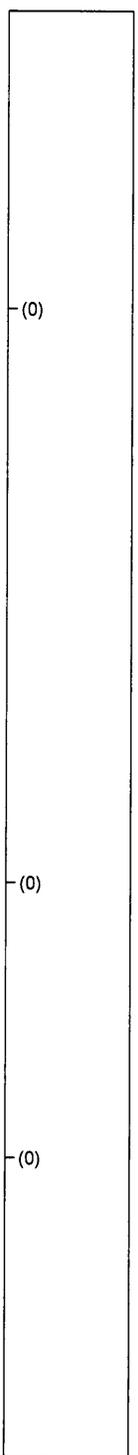
Sample

▲ Blows per Foot

1 2 5 10 20 50 100



LAB TESTS & (PID)



BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/8/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER

2644-78

10/03

Figure A-33

1/2

Monitoring Well Log RM-MW-4D

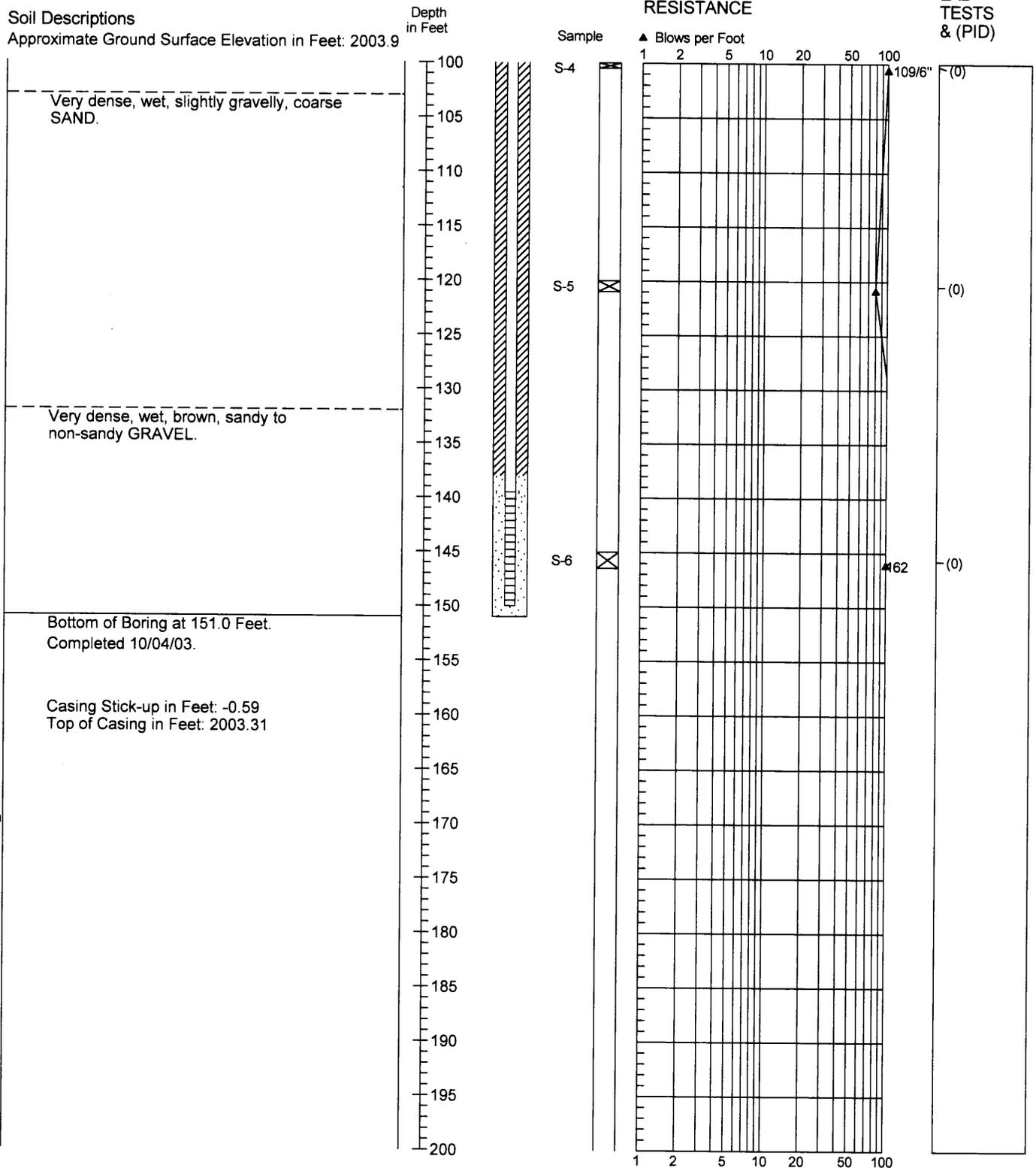
Northing (ft): 11290.6

Easting (ft): 10924.9

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2003.9

BORING LOG WITH BLOW COUNTS 264478MW/GPJ HC_CORP.GDT 5/8/09



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



2644-78

10/03

Figure A-33

2/2

Monitoring Well Log RM-MW-5S

Northing (ft): 11414.8

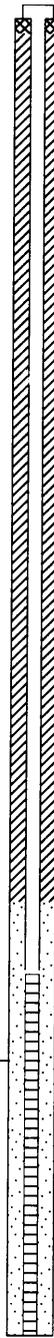
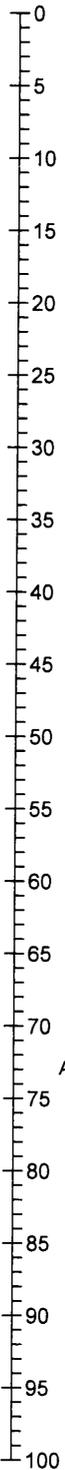
Easting (ft): 11405.7

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2001.0

2 inches of Asphalt over damp to dry, gray-brown, silty to slightly silty, sandy GRAVEL.

Depth
in Feet

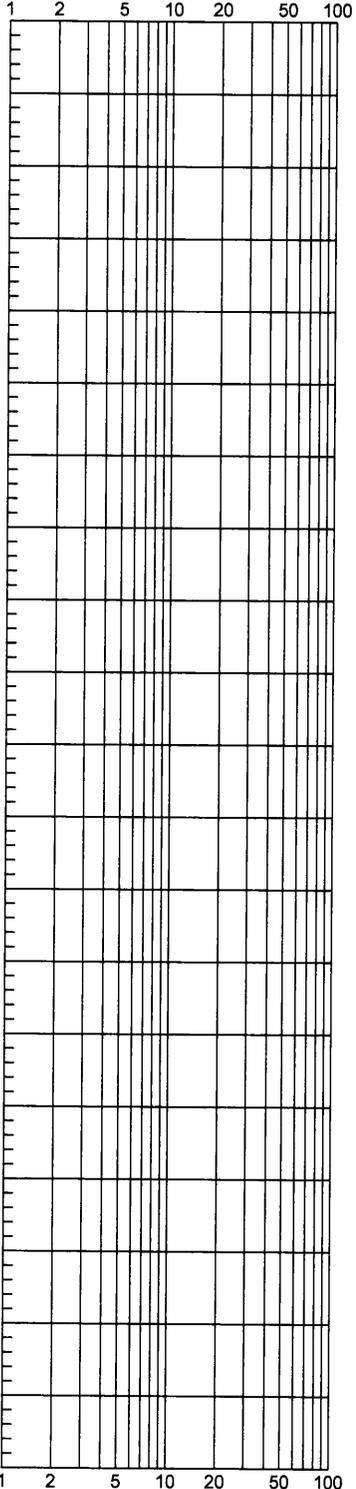


Sample

S-1
S-2

STANDARD PENETRATION RESISTANCE

▲ Blows per Foot



LAB
TESTS
& (PID)



Bottom of Boring at 91.0 Feet.
Completed 10/14/03.

Casing Stick-up in Feet: 2.14
Top of Casing in Feet: 2003.14

BORING LOG WITH BLOW COUNTS 264478MW.GPJ HC_CORP.GDT 5/8/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

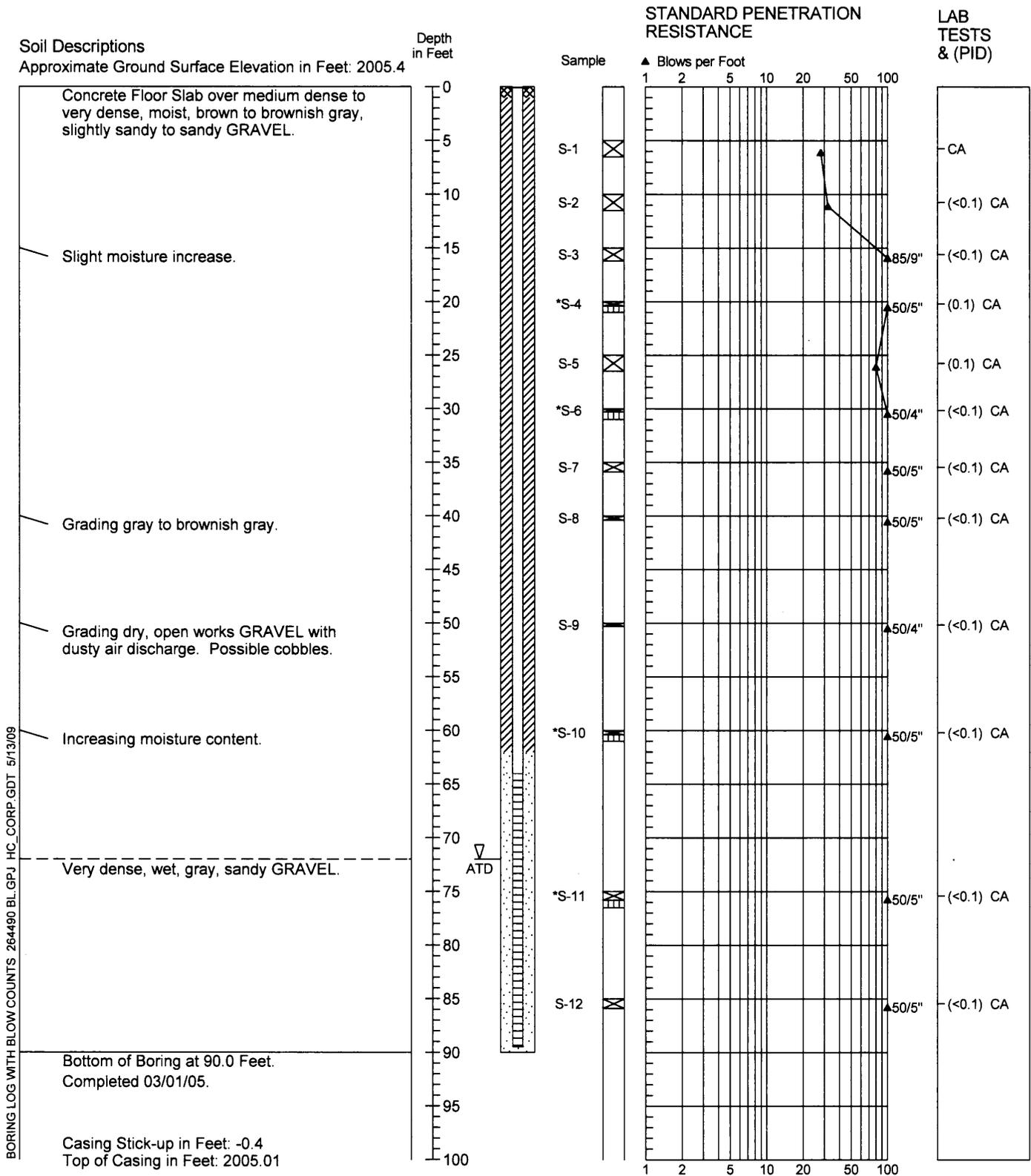


2644-78

10/03

Figure A-34

Boring Log/Construction Data for Monitoring Well RM-MW-8S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

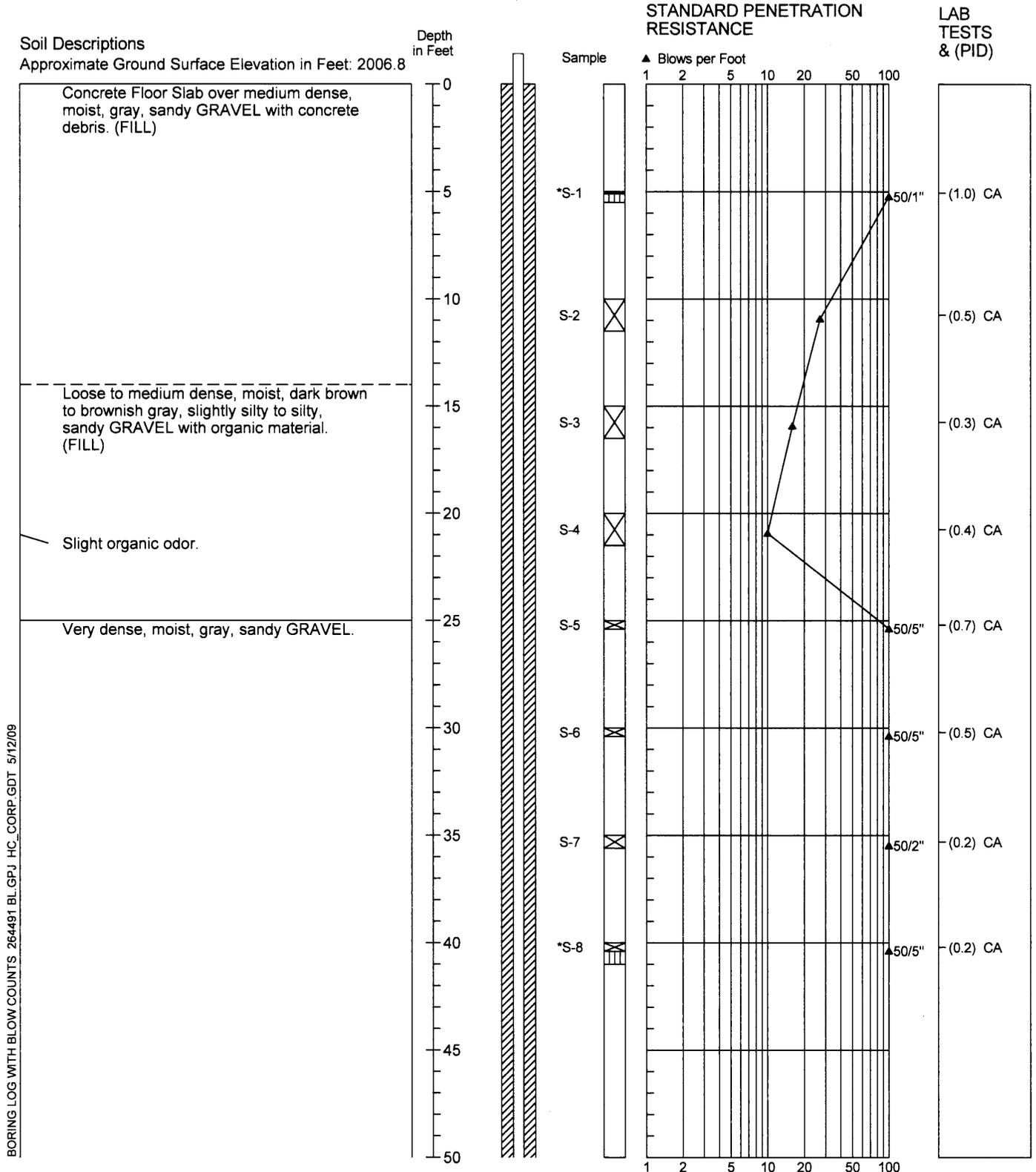


2644-90

3/05

Figure A-35

Boring Log/Construction Data for Monitoring Well RM-MW-9S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



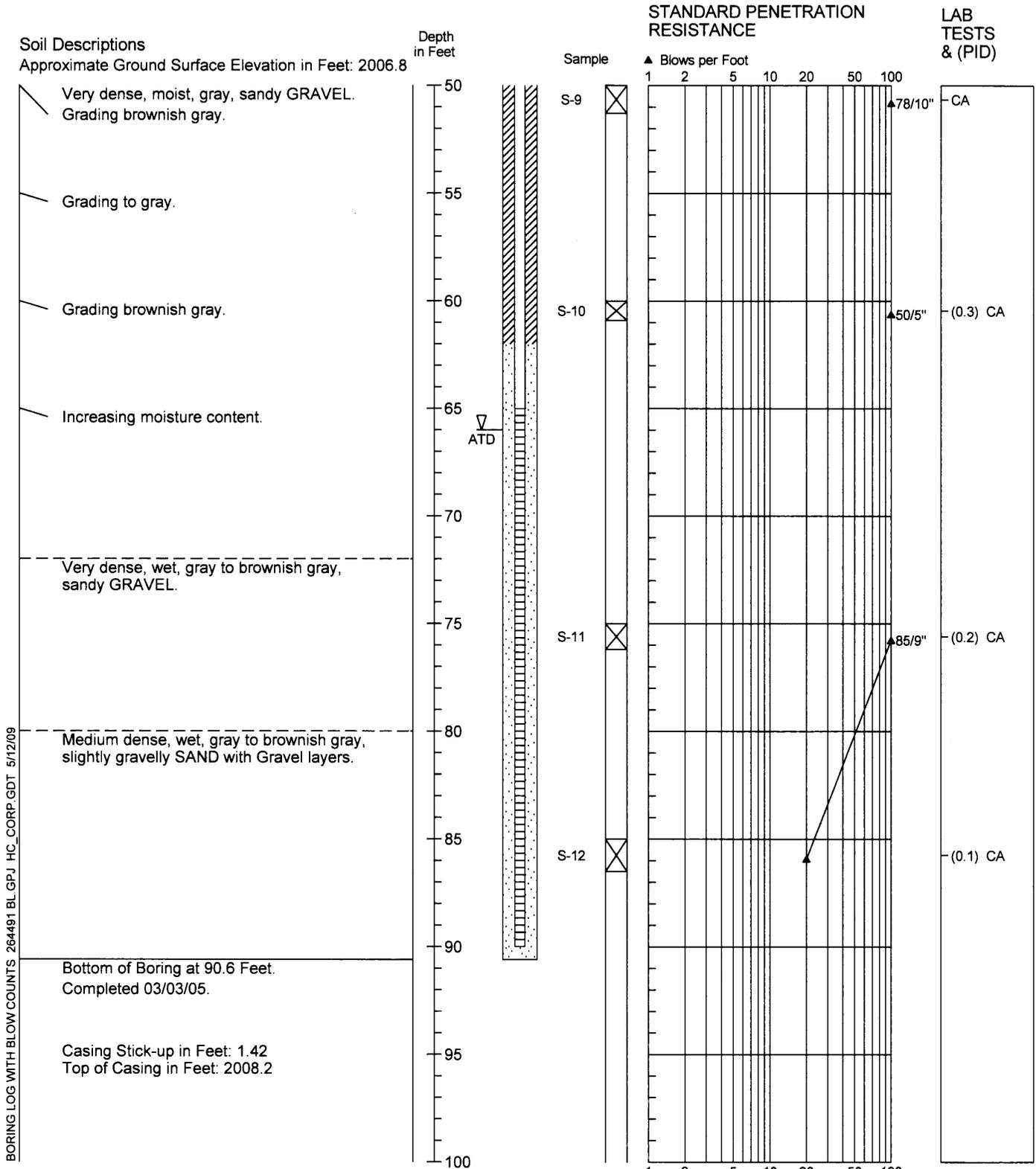
2644-91

Figure A-36

3/05

1/2

Boring Log/Construction Data for Monitoring Well RM-MW-9S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



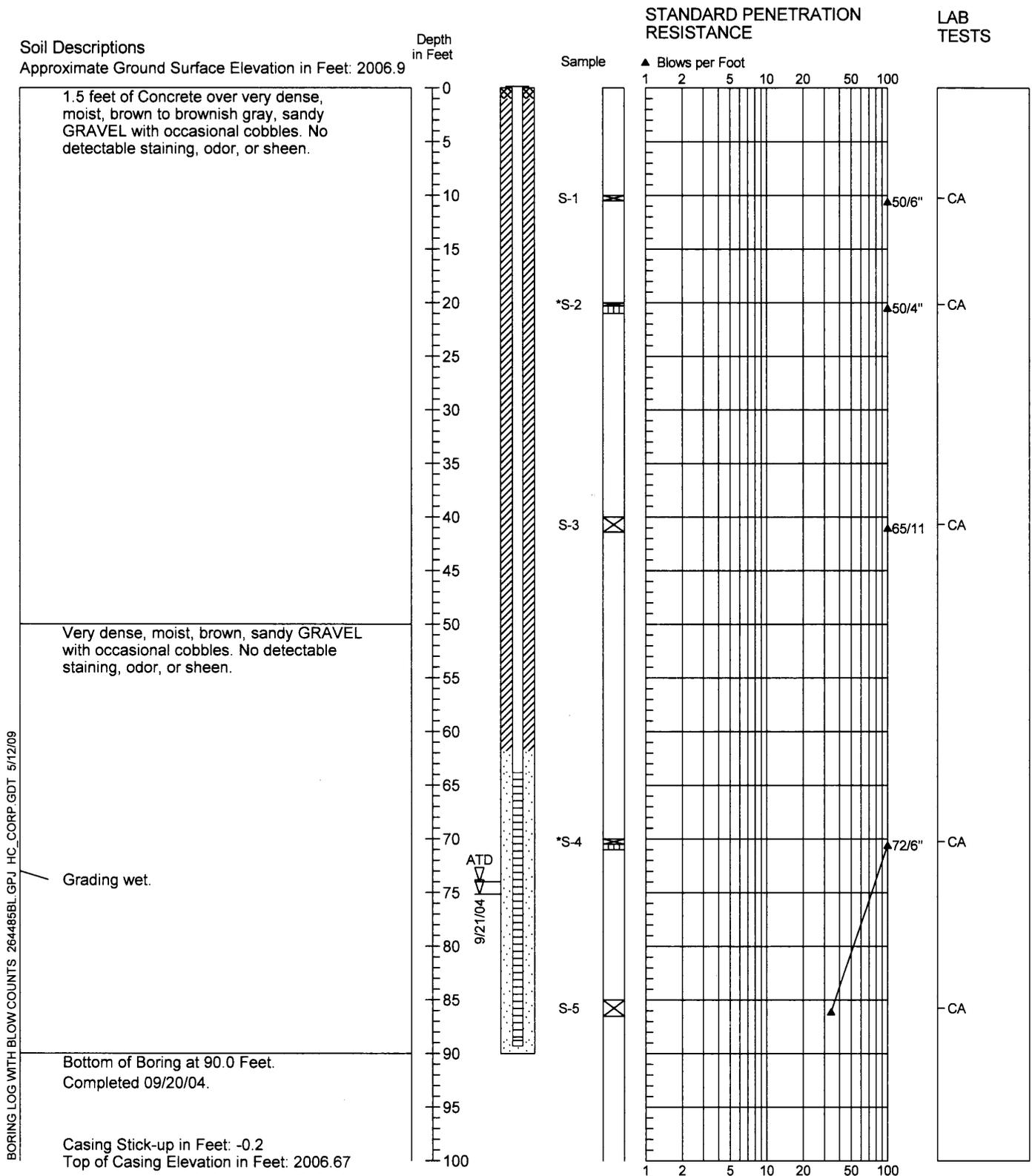
2644-91

3/05

Figure A-36

2/2

Boring Log /Construction Data for Monitoring Well RM-MW-10S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

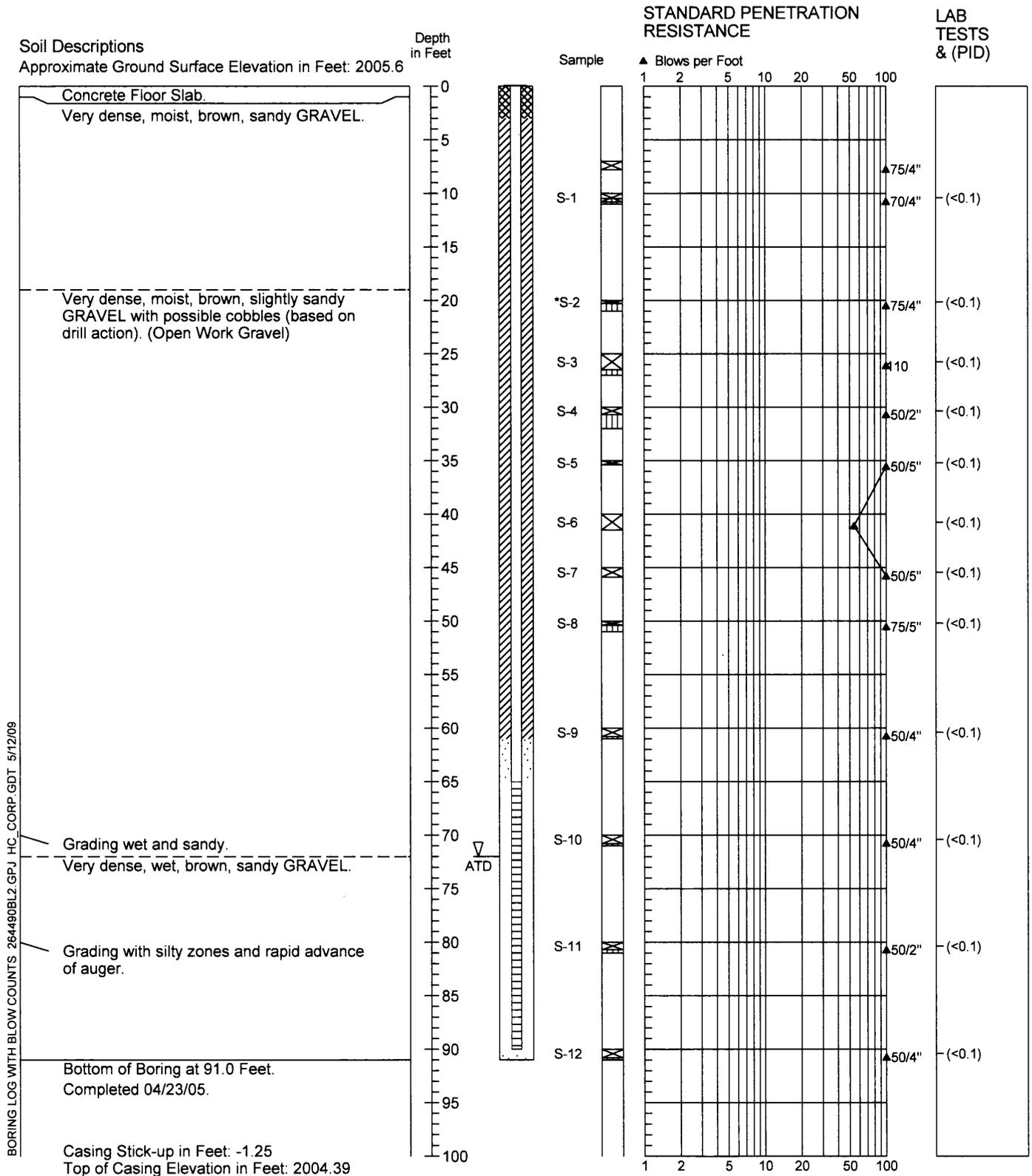


2644-85

9/04

Figure A-37

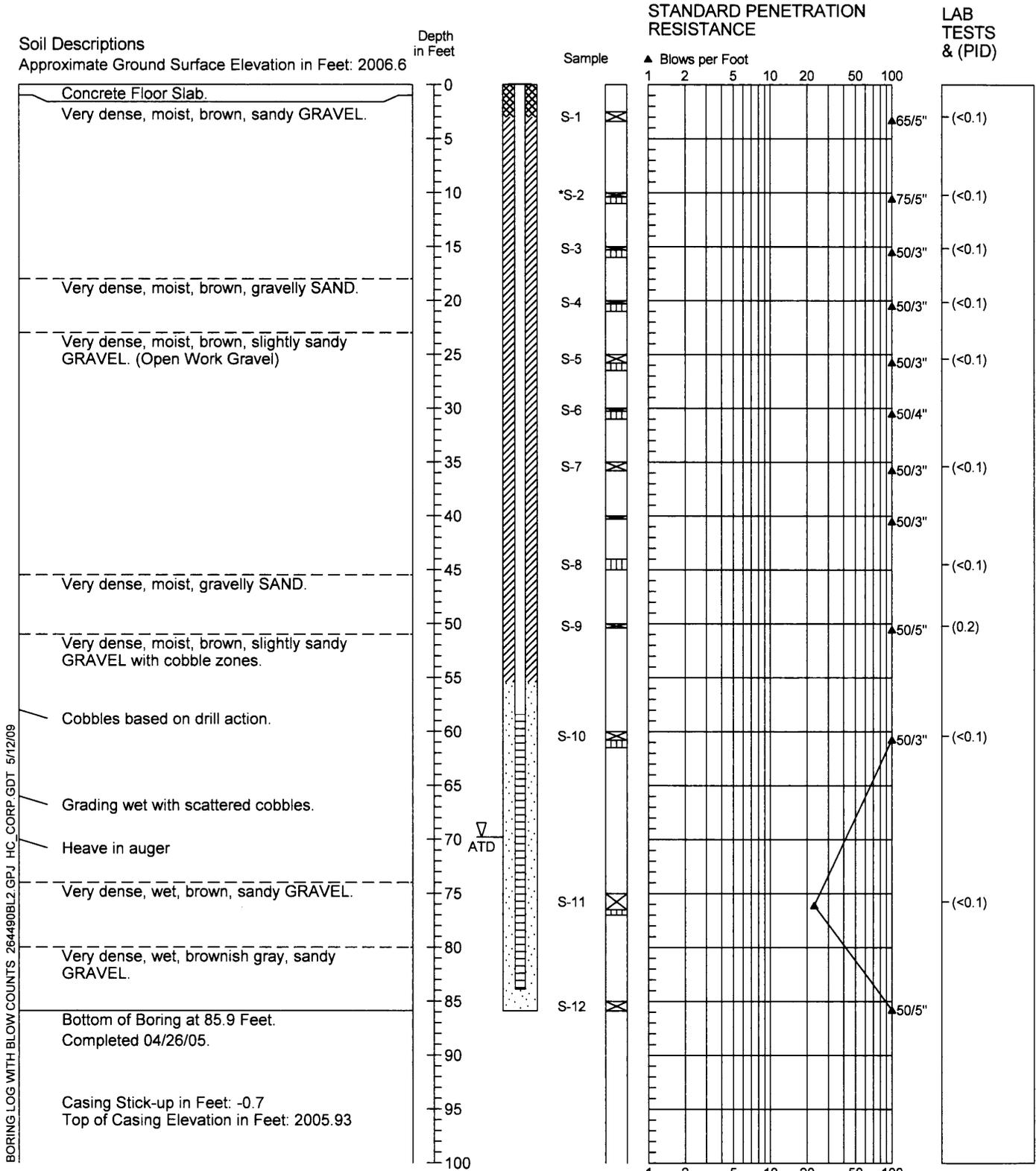
Boring Log/Construction Data Monitoring Well RMSW-MW-11S



BORING LOG WITH BLOW COUNTS 264490BL2.GPJ HC_CORP.GDT 5/12/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Boring drilled on 73° slant relative to horizontal. Depths indicated are dimensions along slope, not vertical depths. Prepacked well screen installed and casing withdrawn allowing native material to collapse around screen below depth of 65 feet.

Boring Log/Construction Data for Monitoring Well RM-MW-12S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

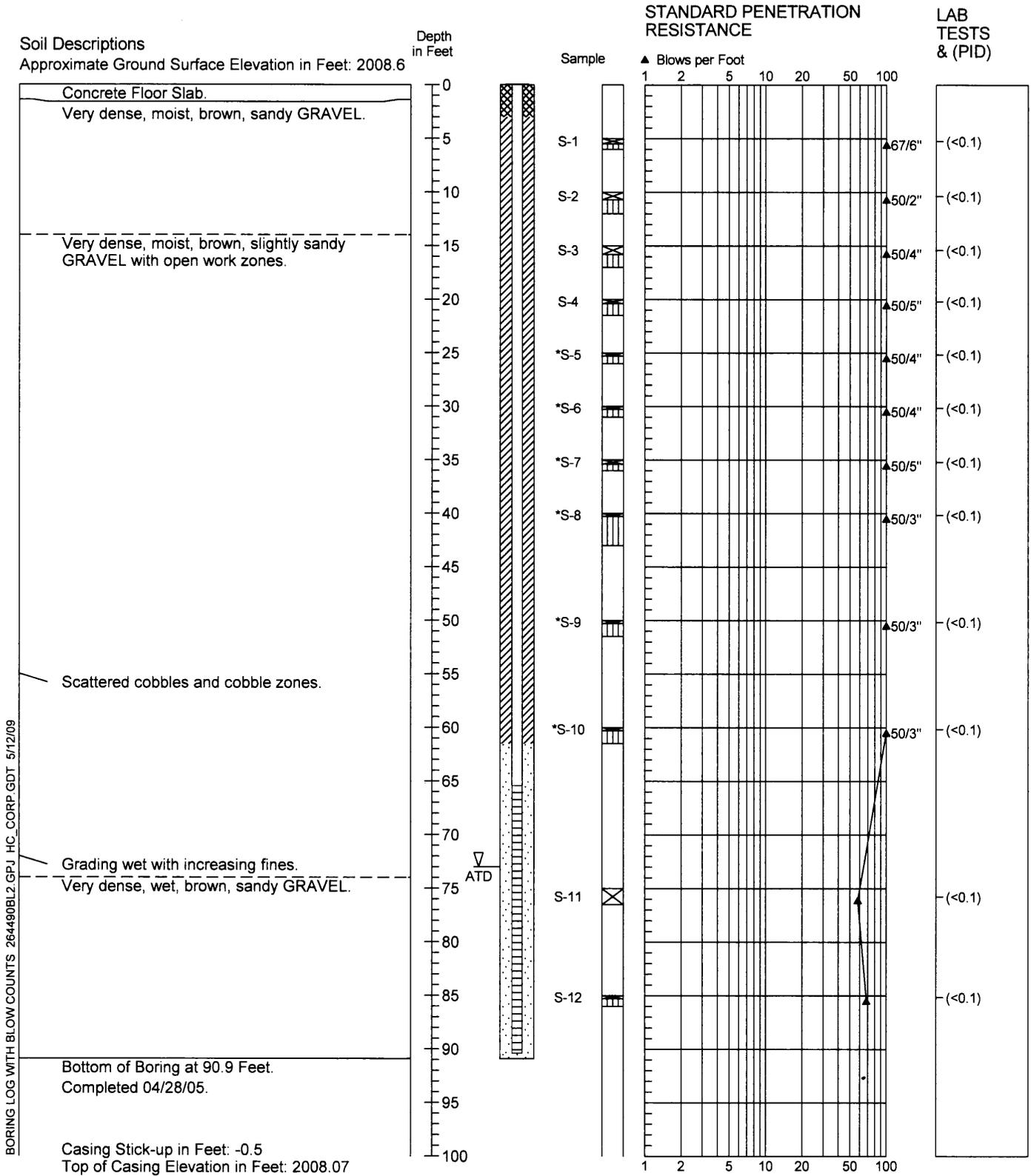


2644-90

4/05

Figure A-39

Boring Log/Construction Data for Monitoring Well RM-MW-13S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

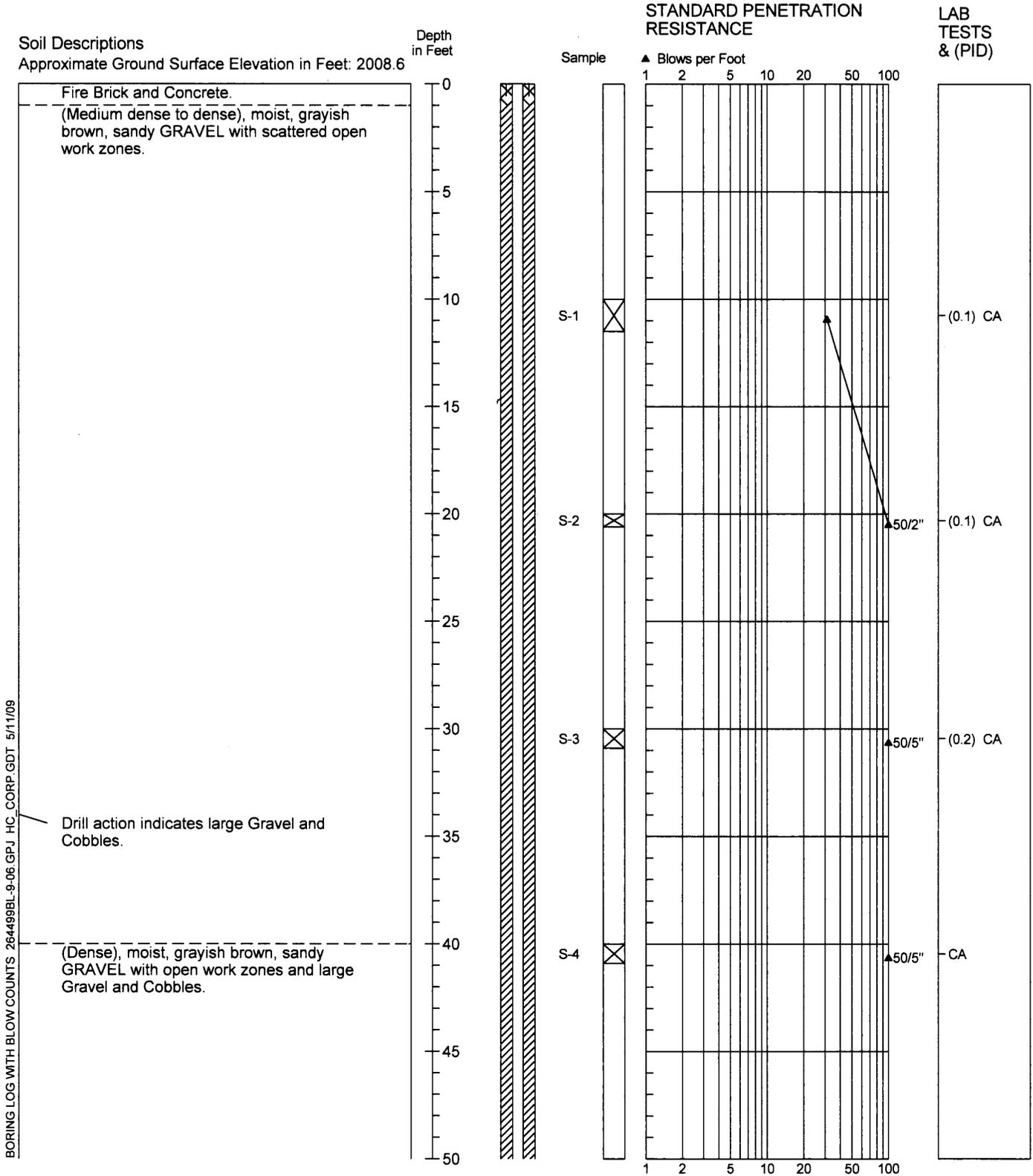


2644-90

4/05

Figure A-40

Boring Log/Construction Data for Monitoring Well RM-MW-14S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



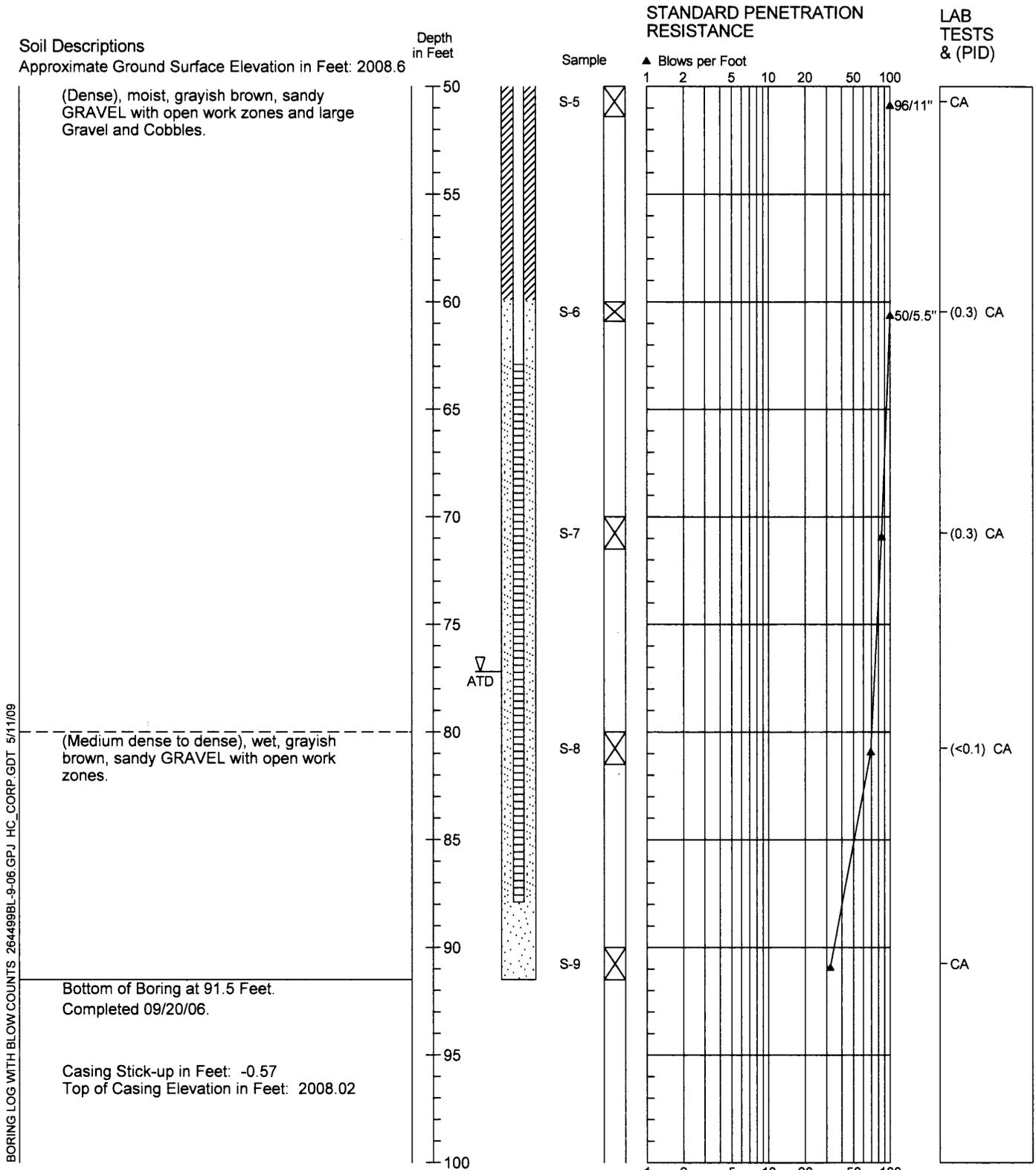
2644-99

9/06

Figure A-41

1/2

Boring Log/Construction Data for Monitoring Well RM-MW-14S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



2644-99

9/06

Figure A-41

2/2

Boring Log/Construction Data for Monitoring Well RM-MW-15S

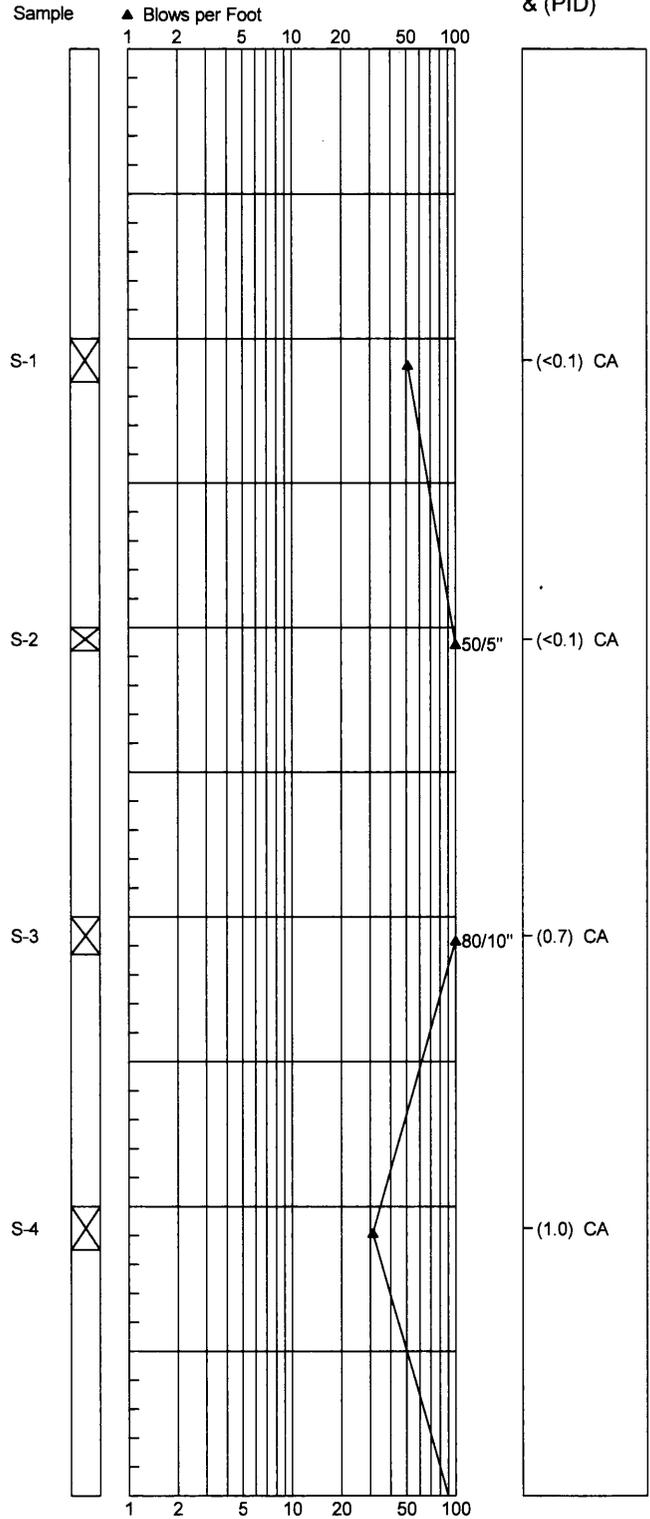
Soil Descriptions
 Approximate Ground Surface Elevation in Feet: 2008.7

Depth
 in Feet



STANDARD PENETRATION RESISTANCE

LAB TESTS & (PID)



BORING LOG WITH BLOW COUNTS 264499BL-9.06.GPJ HC_CORP.GDT 5/11/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



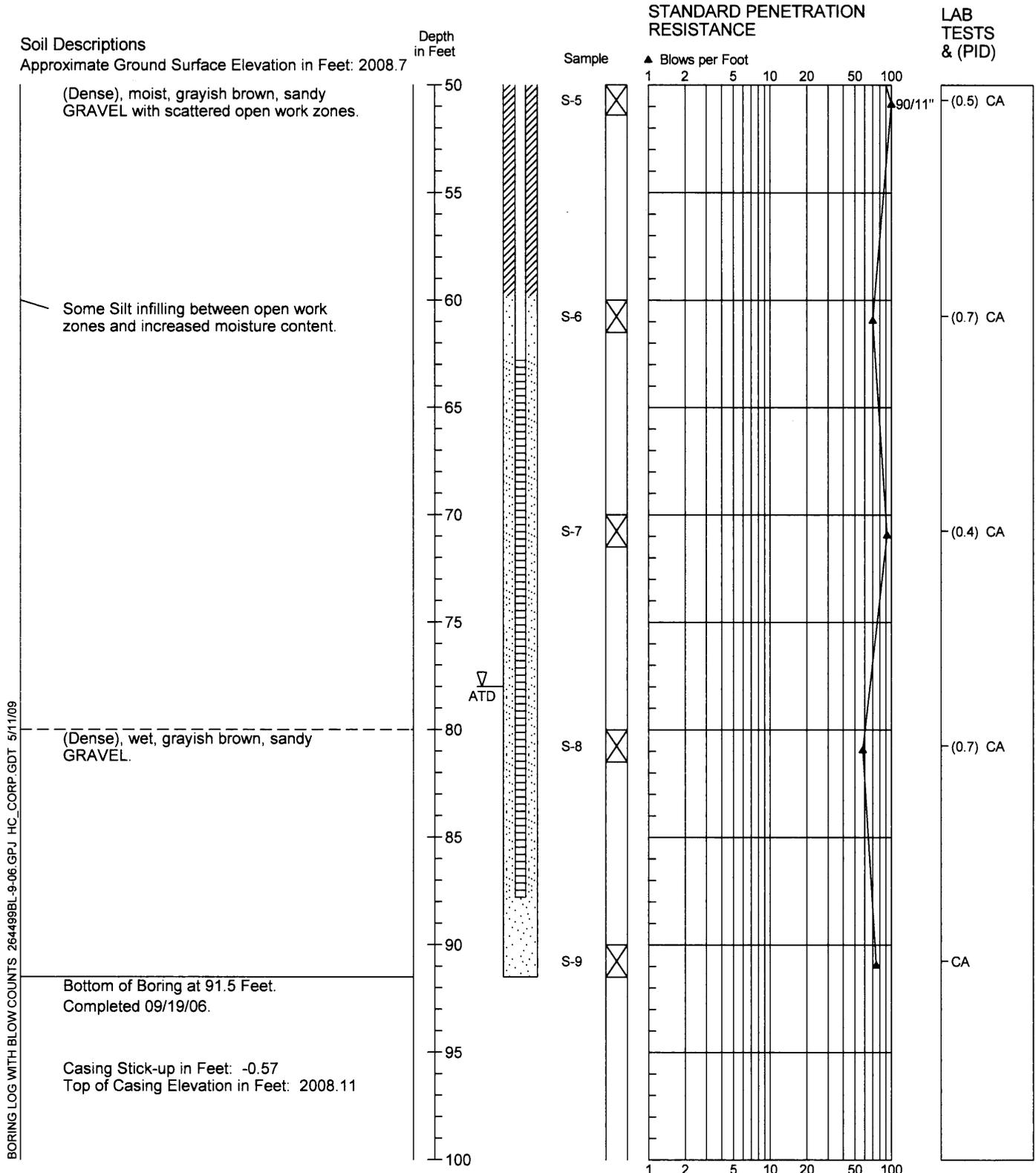
2644-99

9/06

Figure A-42

1/2

Boring Log/Construction Data for Monitoring Well RM-MW-15S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



2644-99

9/06

Figure A-42

2/2

Boring Log/Construction Data for Monitoring Well RM-MW-16S

Soil Descriptions

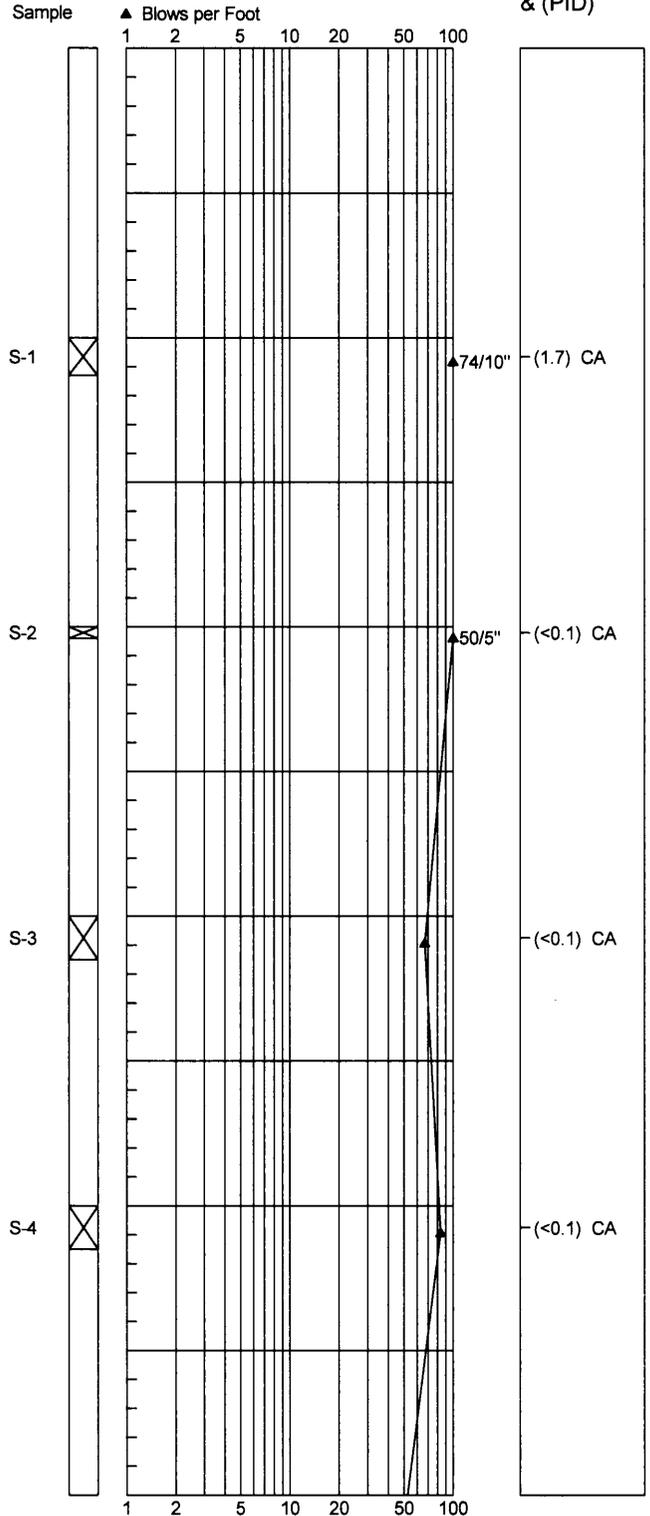
Approximate Ground Surface Elevation in Feet: 2008.7

Depth
in Feet



STANDARD PENETRATION RESISTANCE

LAB TESTS & (PID)



BORING LOG WITH BLOW COUNTS 264499BL-9-06.GPJ HC_CORP.GDT 5/11/09



2644-99

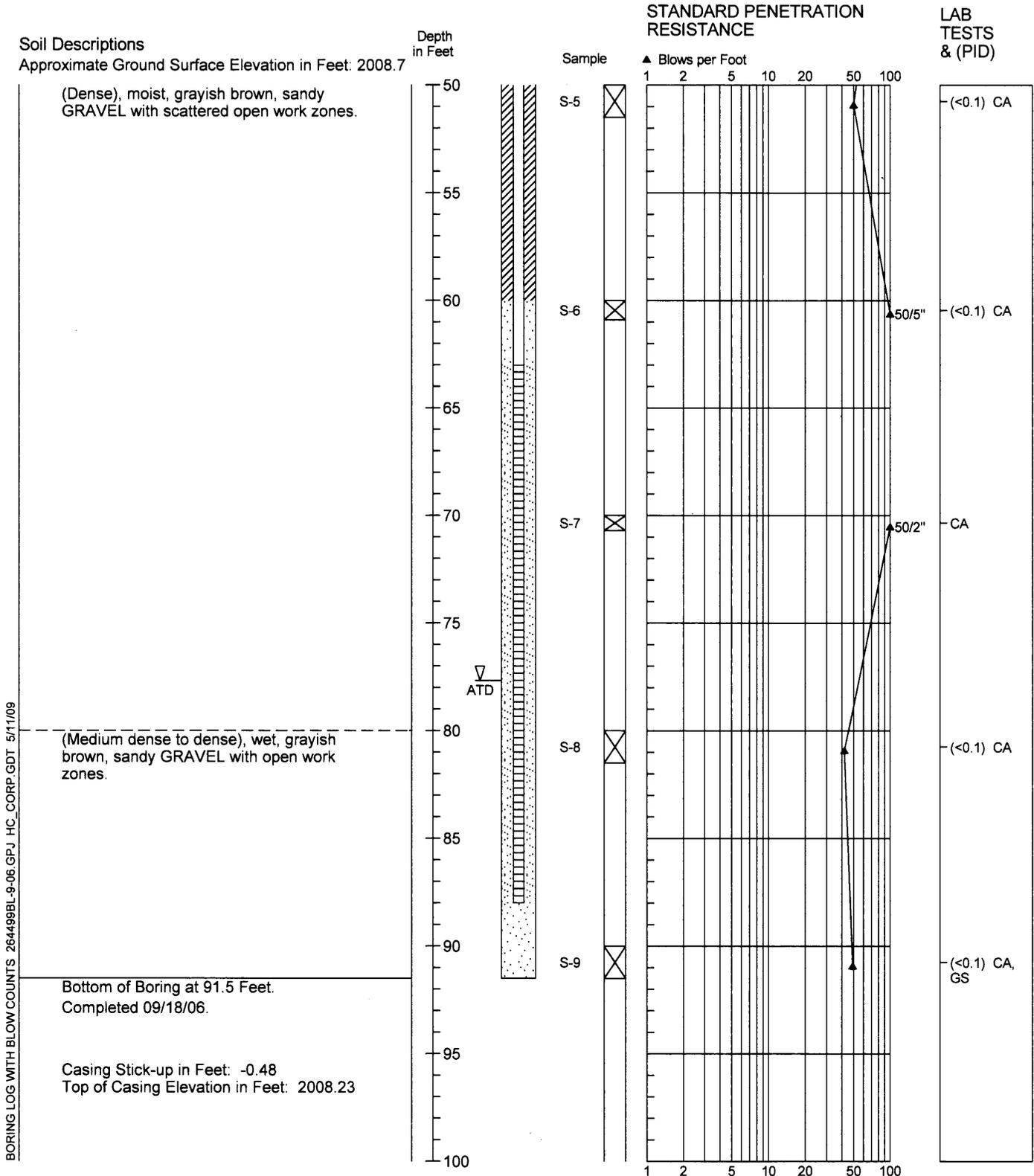
9/06

Figure A-43

1/2

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log/Construction Data for Monitoring Well RM-MW-16S



BORING LOG WITH BLOW COUNTS 264499BL-9-06.GPJ HC_CORP.GDT 5/11/09

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



2644-99

9/06

Figure A-43

2/2

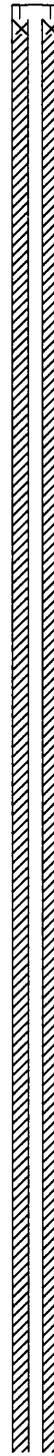
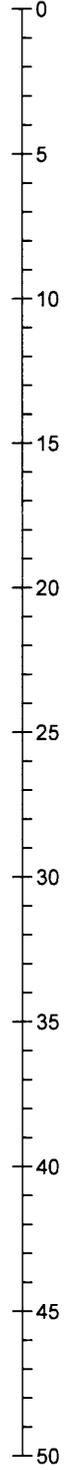
Boring Log/Construction Data for Monitoring Well RM-MW-17S

Soil Descriptions

Approximate Ground Surface Elevation in Feet: 2008.6



Depth
in Feet

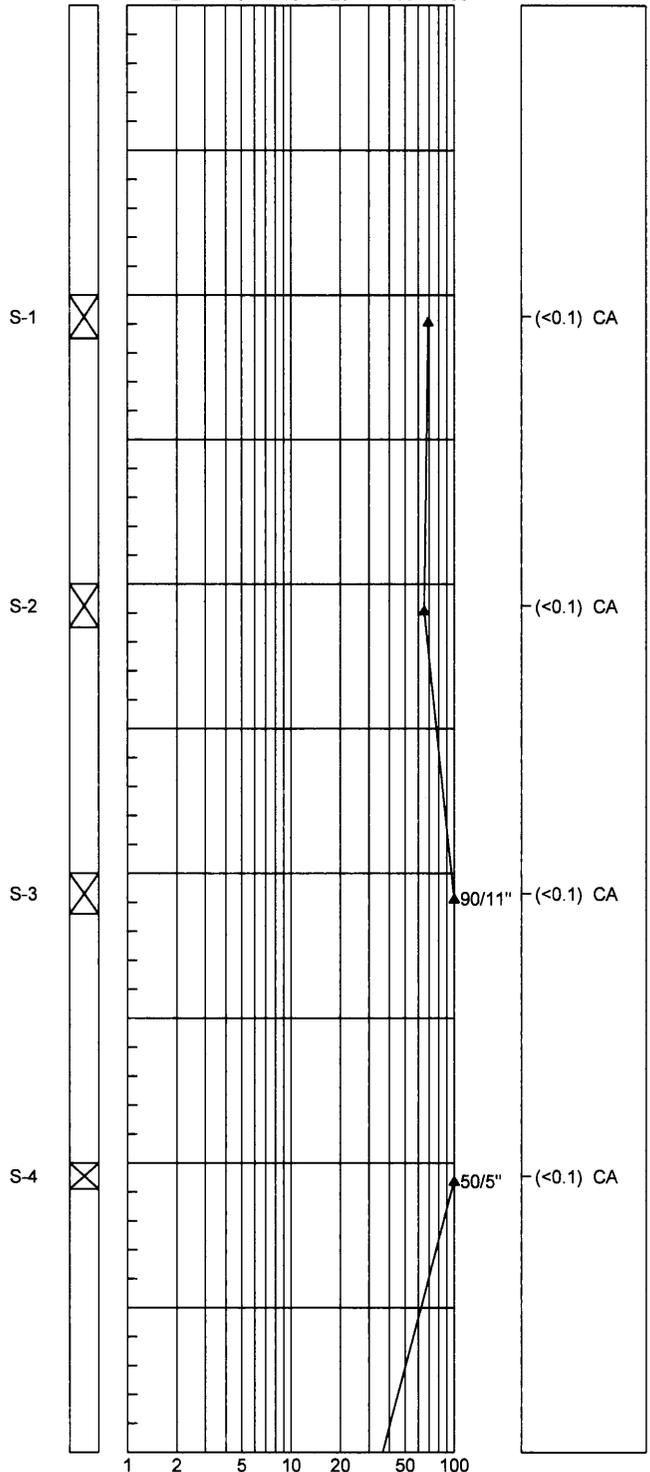


STANDARD PENETRATION RESISTANCE

Sample

▲ Blows per Foot
1 2 5 10 20 50 100

LAB
TESTS
& (PID)



BORING LOG WITH BLOW COUNTS 264499BL-9-06.GPJ HC_CORP.GDT 5/11/09



2644-99

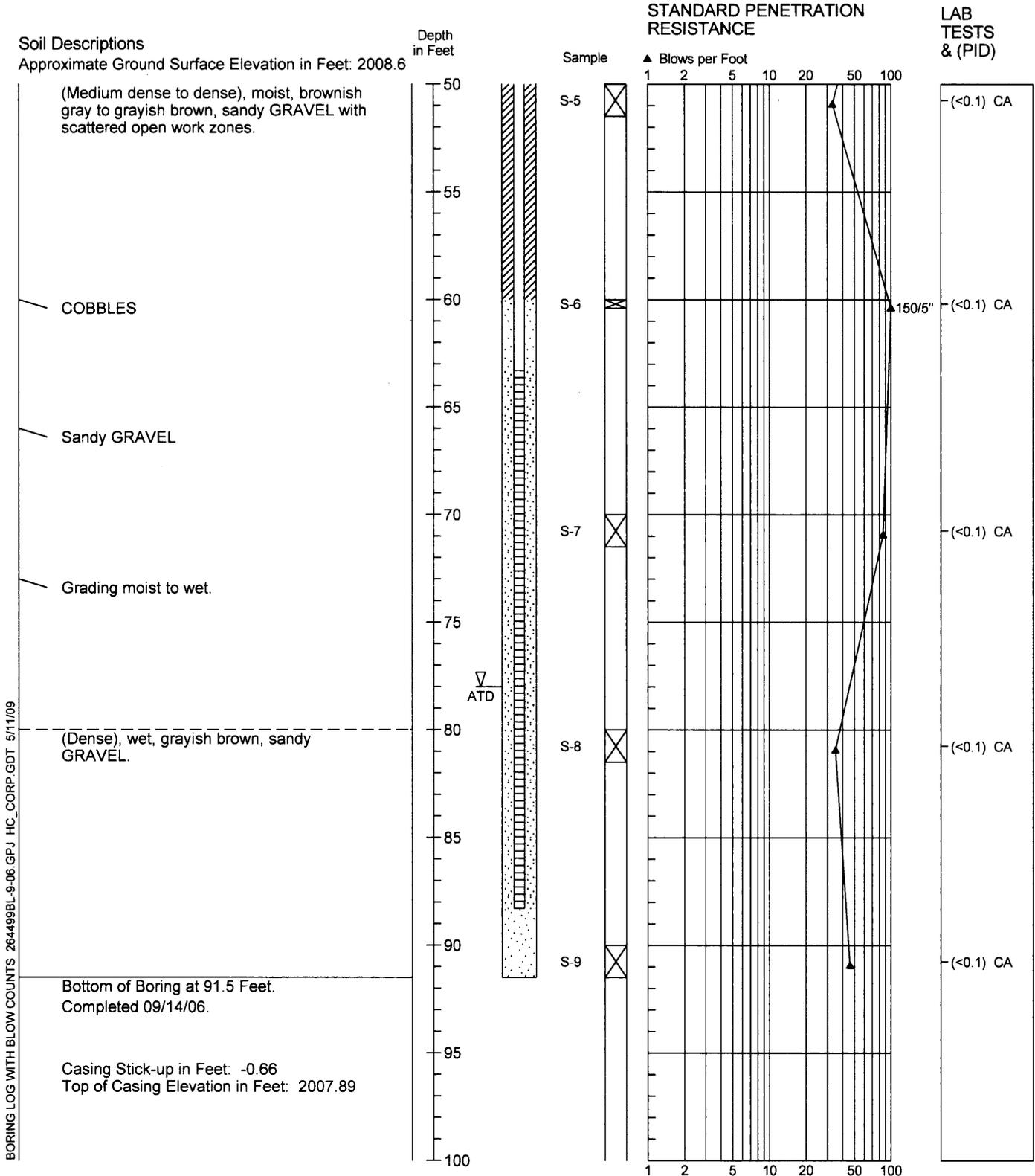
9/06

Figure A-44

1/2

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

Boring Log/Construction Data for Monitoring Well RM-MW-17S



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



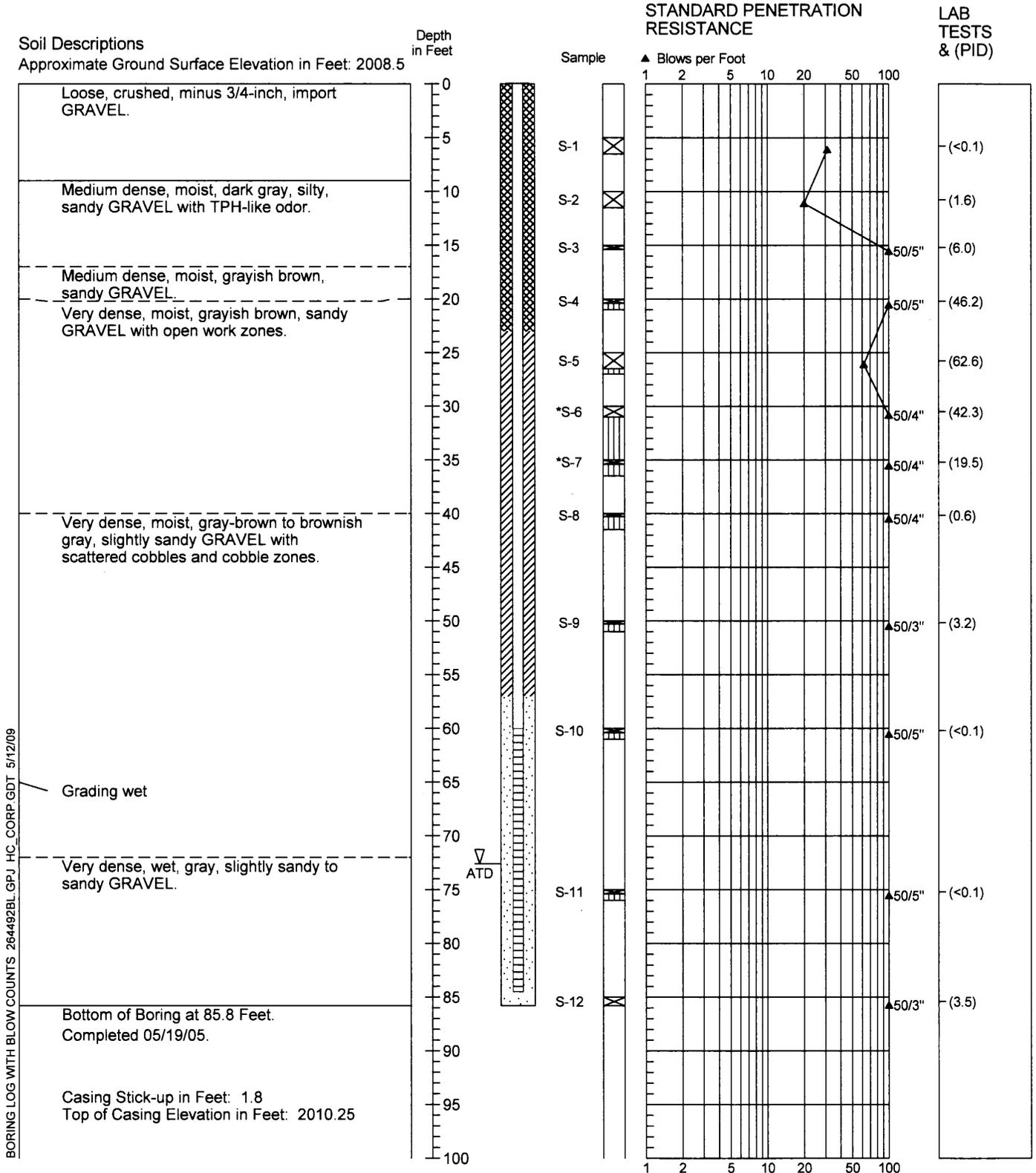
2644-99

9/06

Figure A-44

2/2

Boring Log/Construction Data for Monitoring Well TS-MW-1S



1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. Boring drilled to depth of 17 feet and abandoned with second boring drilled 4.5 feet to the south. Second boring drilled unsampled to depth of 15 feet with no recovery at that depth. Samples S-4 on are from second boring.

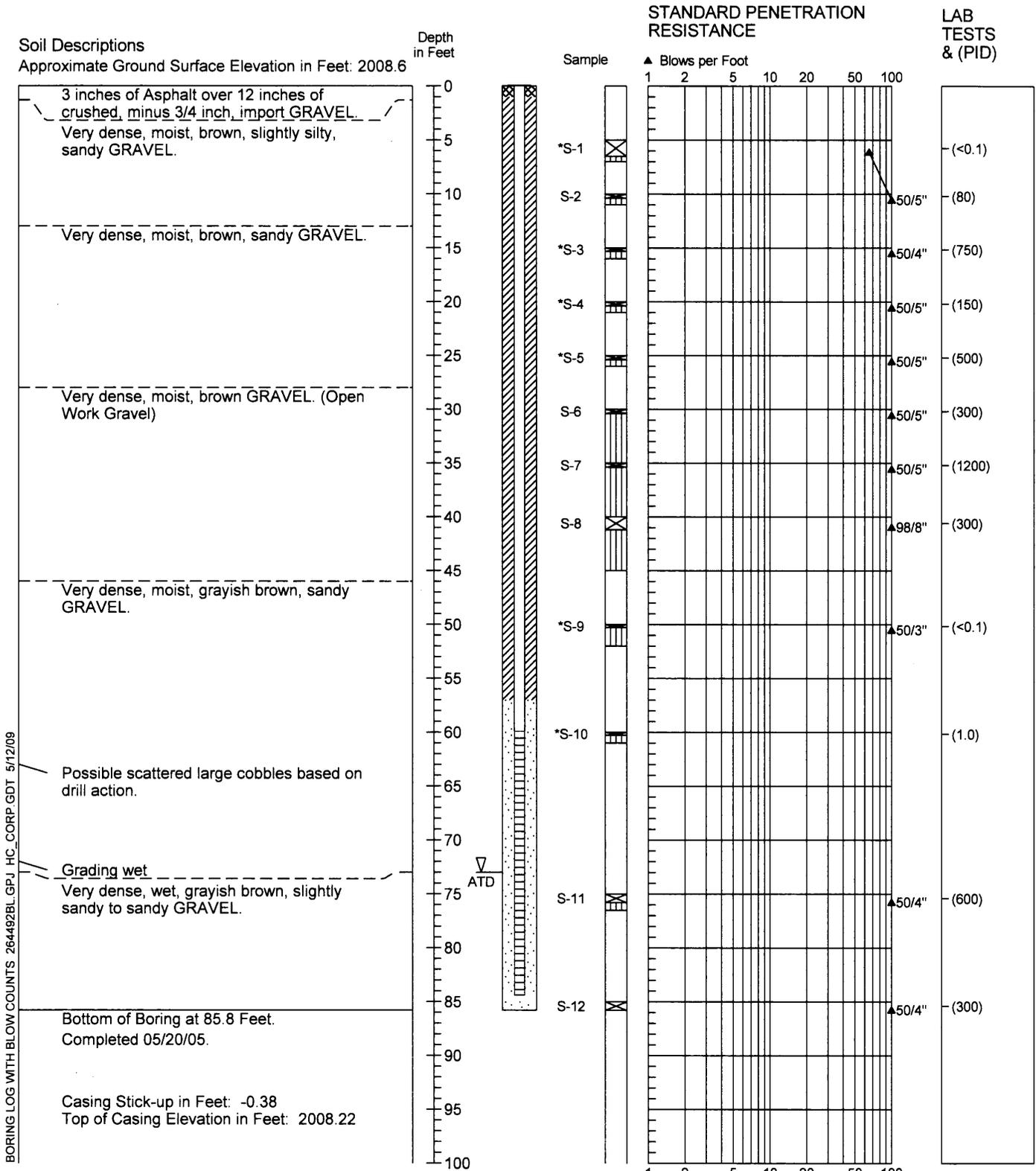


2644-92

5/05

Figure A-45

Boring Log/Construction Data for Monitoring Well TS-MW-2S



BORING LOG WITH BLOW COUNTS 264492BL.GPJ HC_CORP.GDT 5/12/09

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
4. PID readings not consistent with field observations and laboratory data.



2644-92

5/05

Figure A-46