

PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 17 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/27/2003

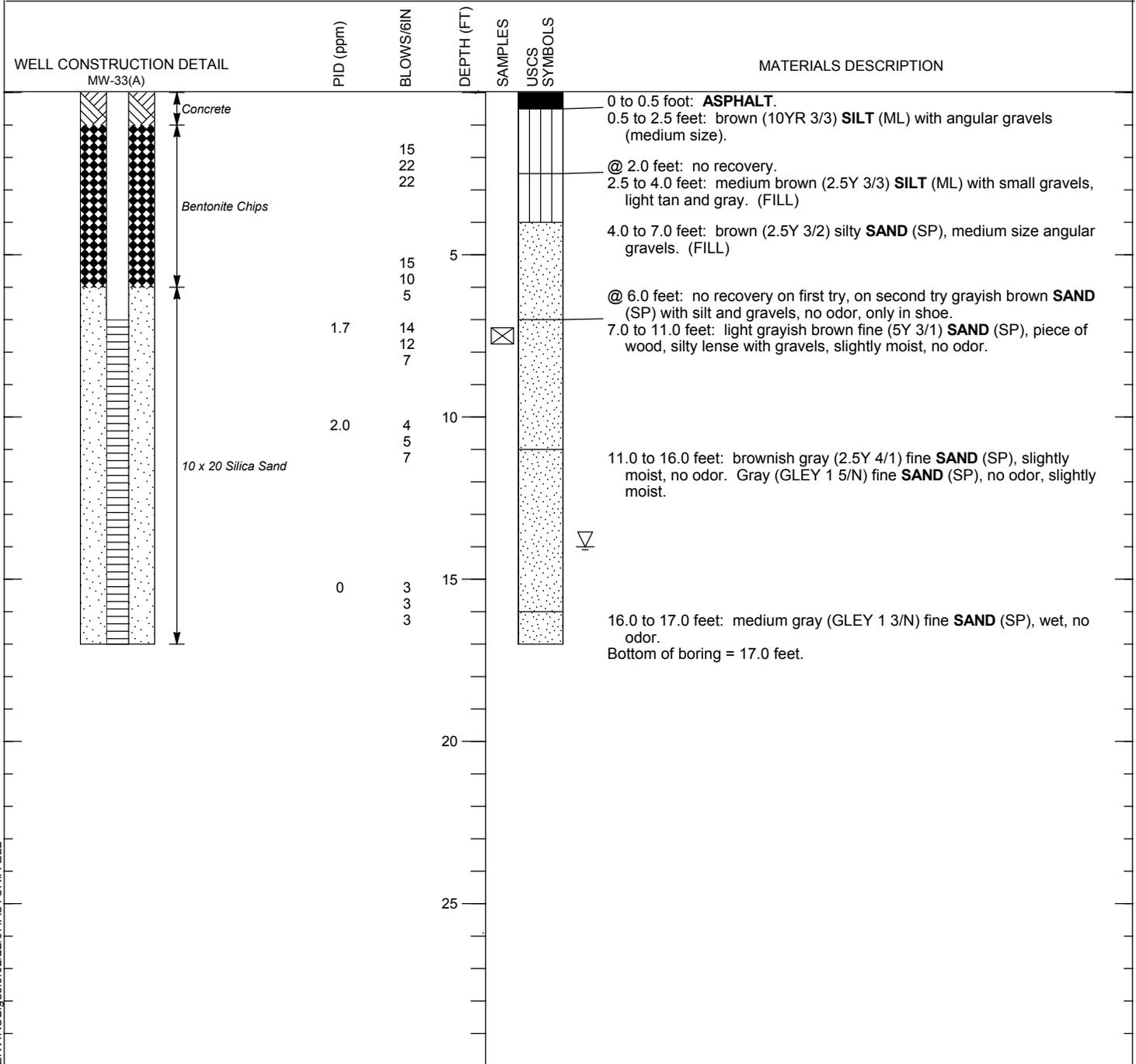


FIGURE B-1
LOG OF
SOIL BORING SB-001(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2003

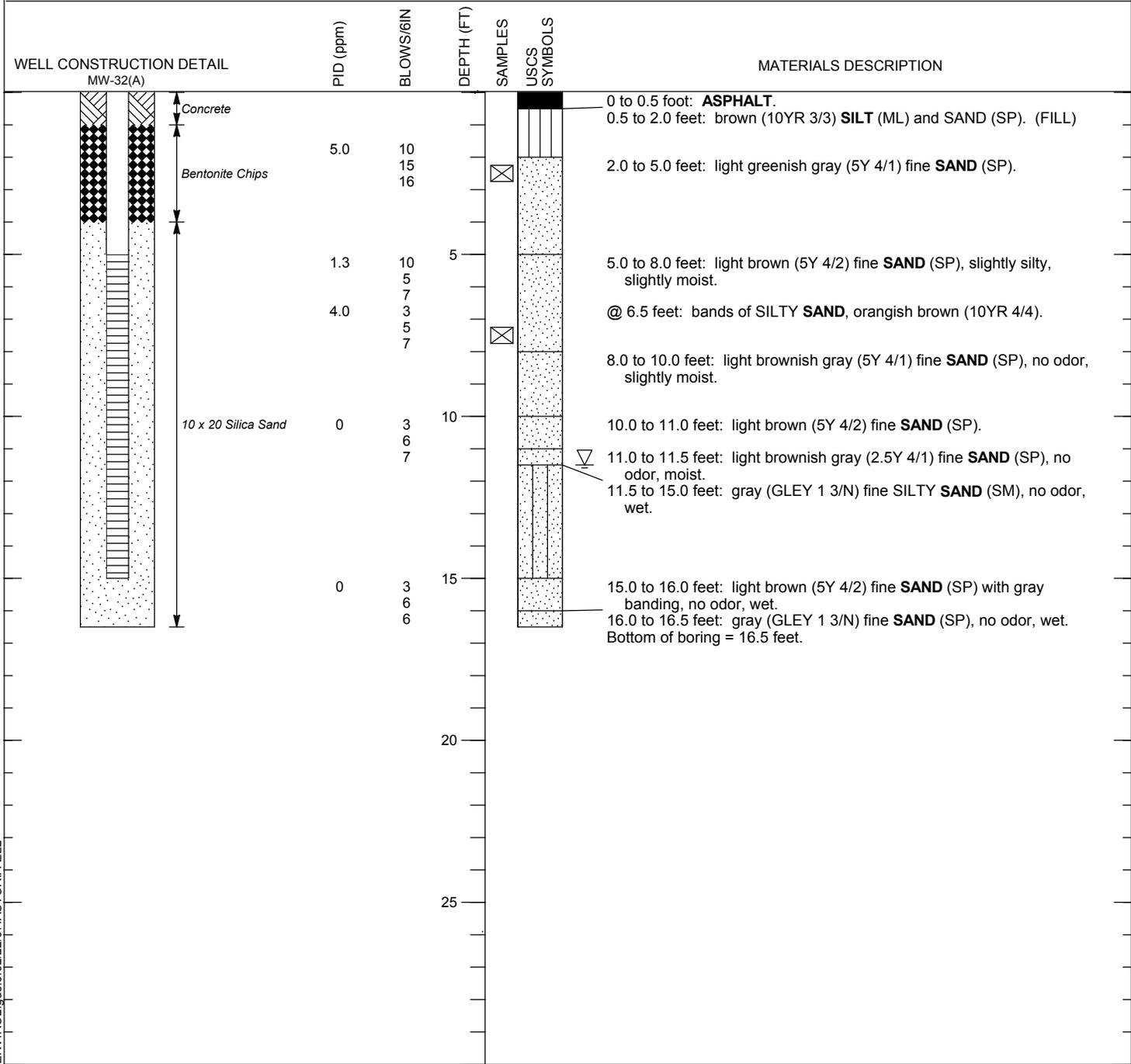


FIGURE B-2
LOG OF
SOIL BORING SB-002(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/4/2003

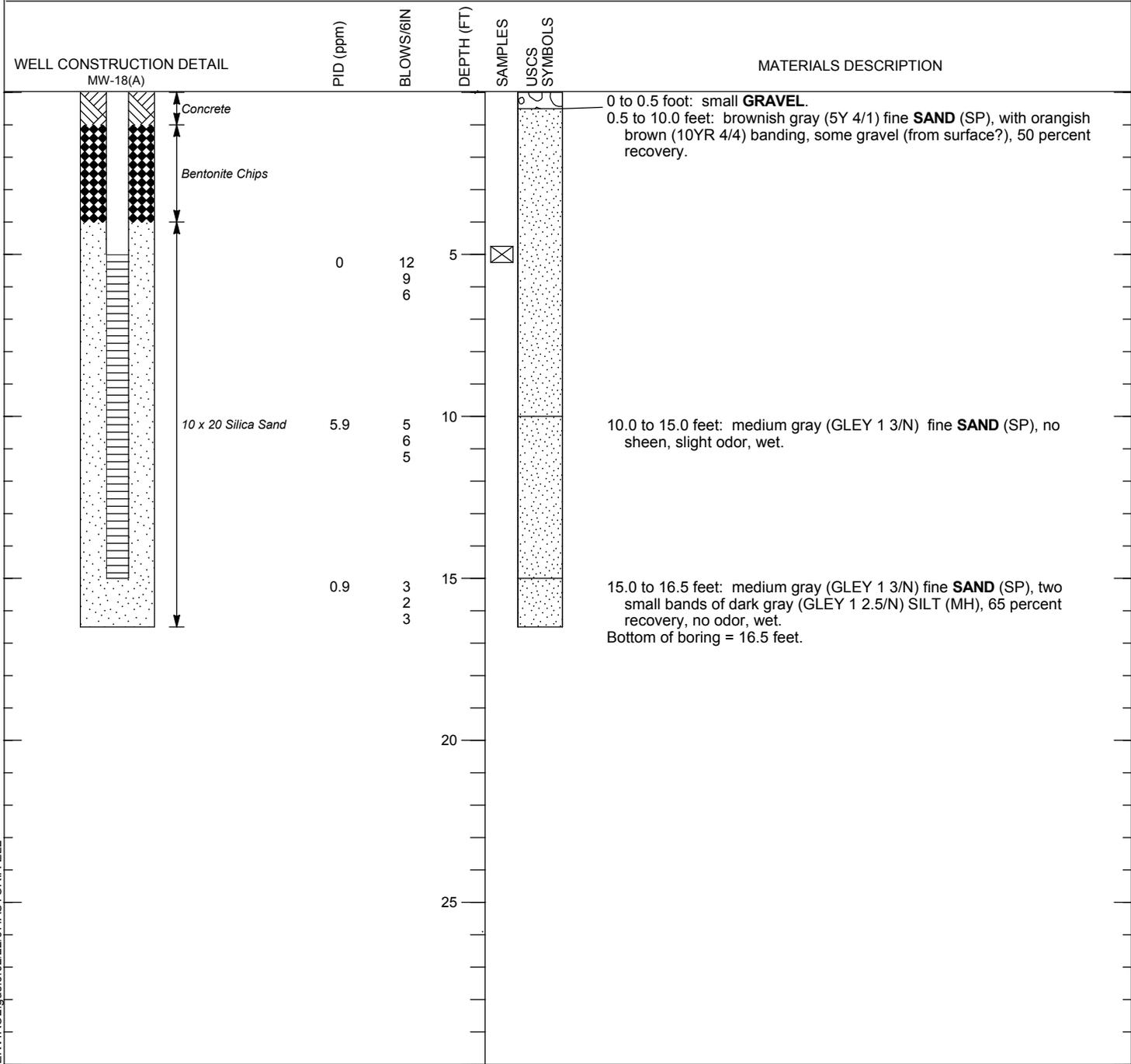


FIGURE B-3
LOG OF
SOIL BORING SB-003(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	25 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/11/2003

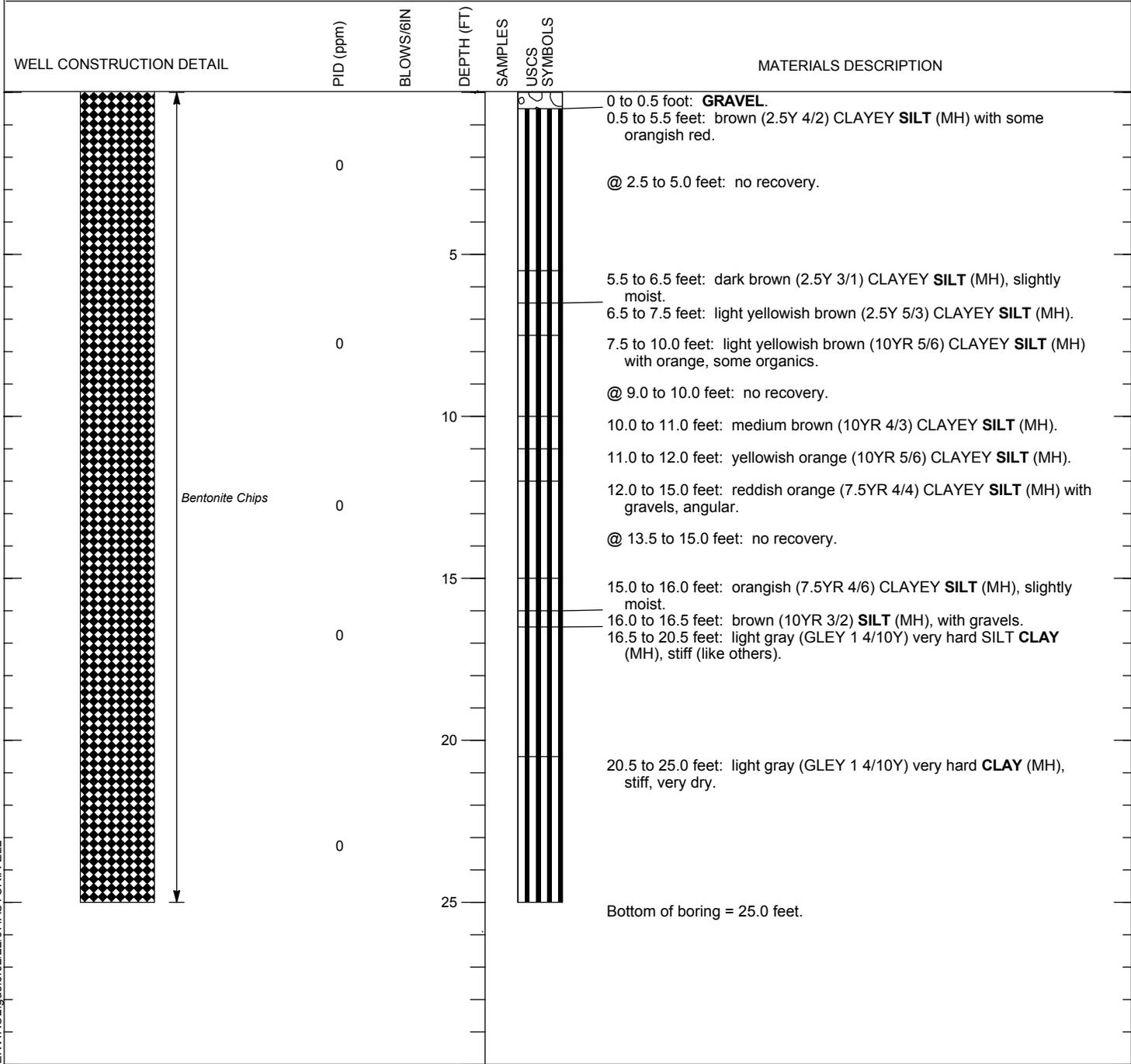


FIGURE B-4

LOG OF
SOIL BORING SB-004(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16.5 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 9/5/2003

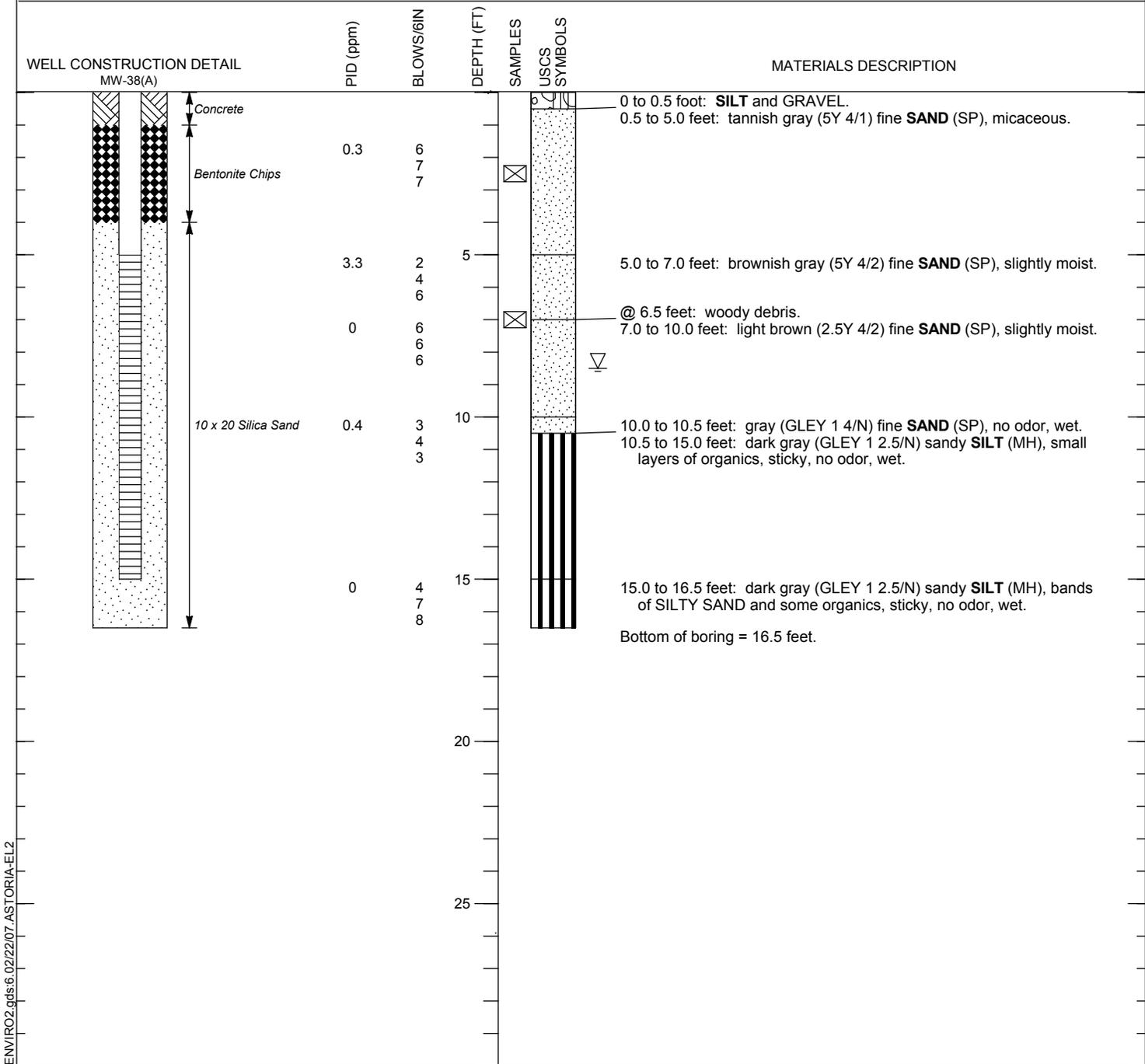


FIGURE B-5
LOG OF
SOIL BORING SB-005(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	10 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004

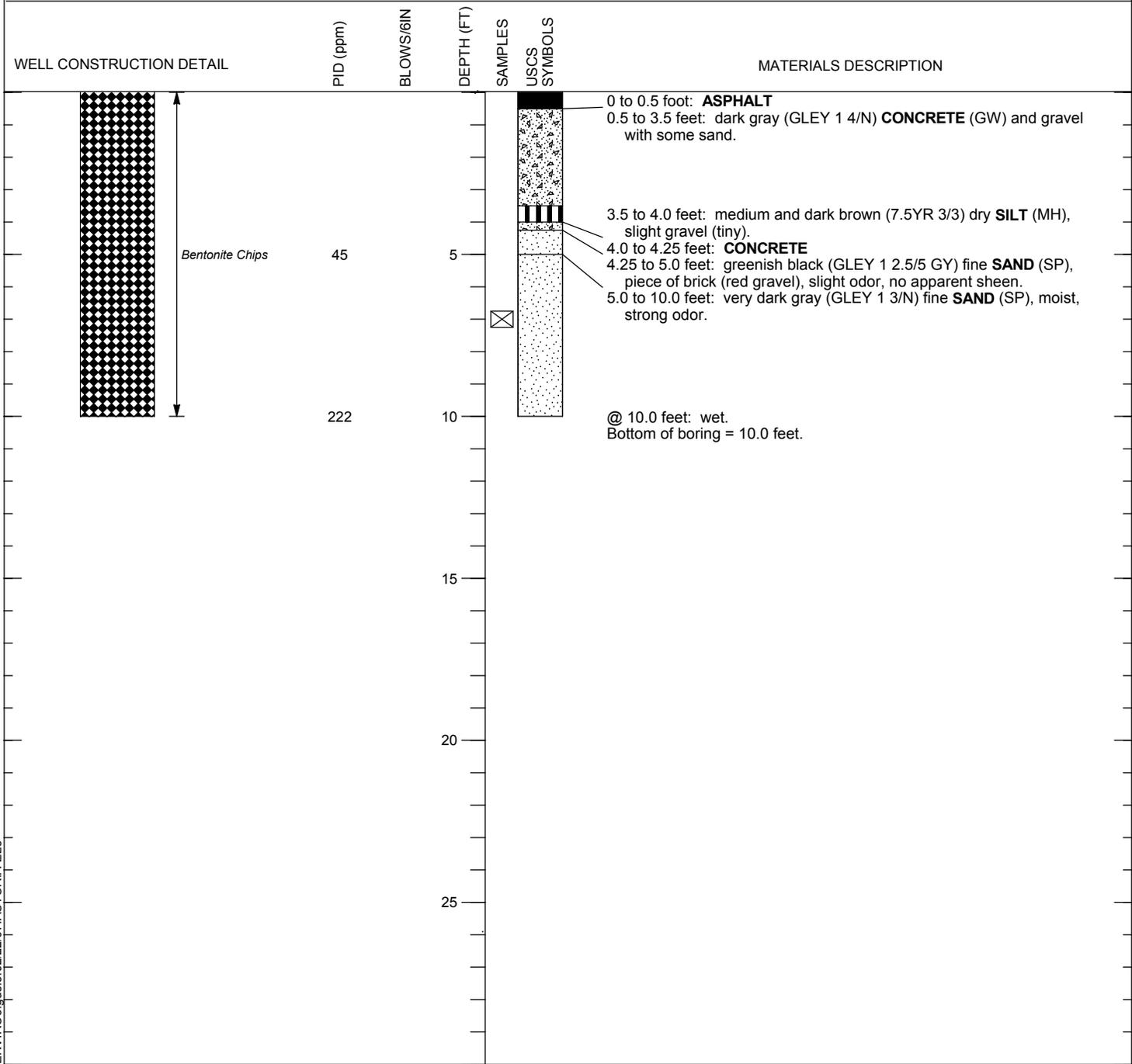


FIGURE B-6
LOG OF
SOIL BORING SB-006(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2003

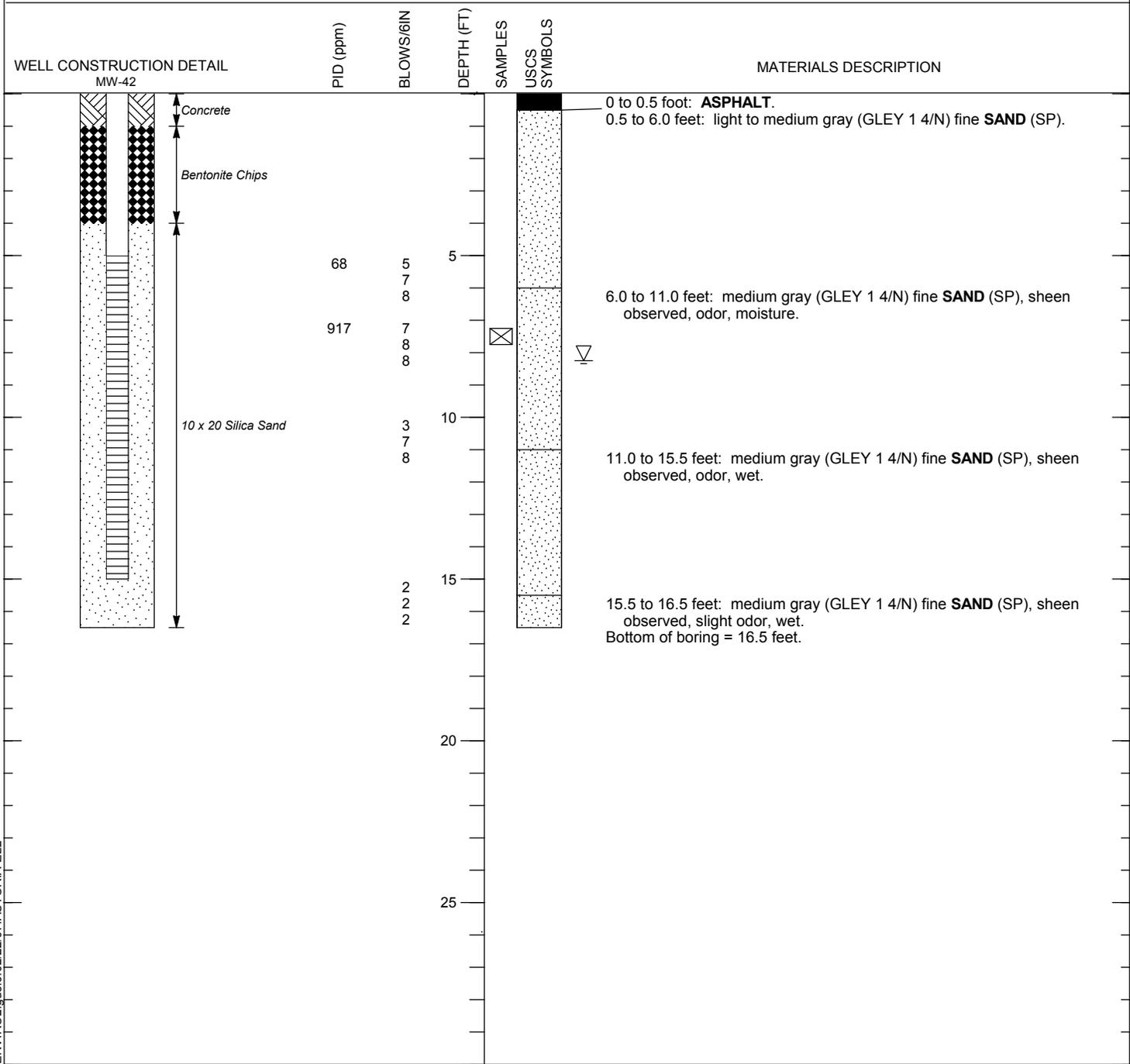


FIGURE B-7
LOG OF
SOIL BORING SB-007(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16.5 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/26/2003

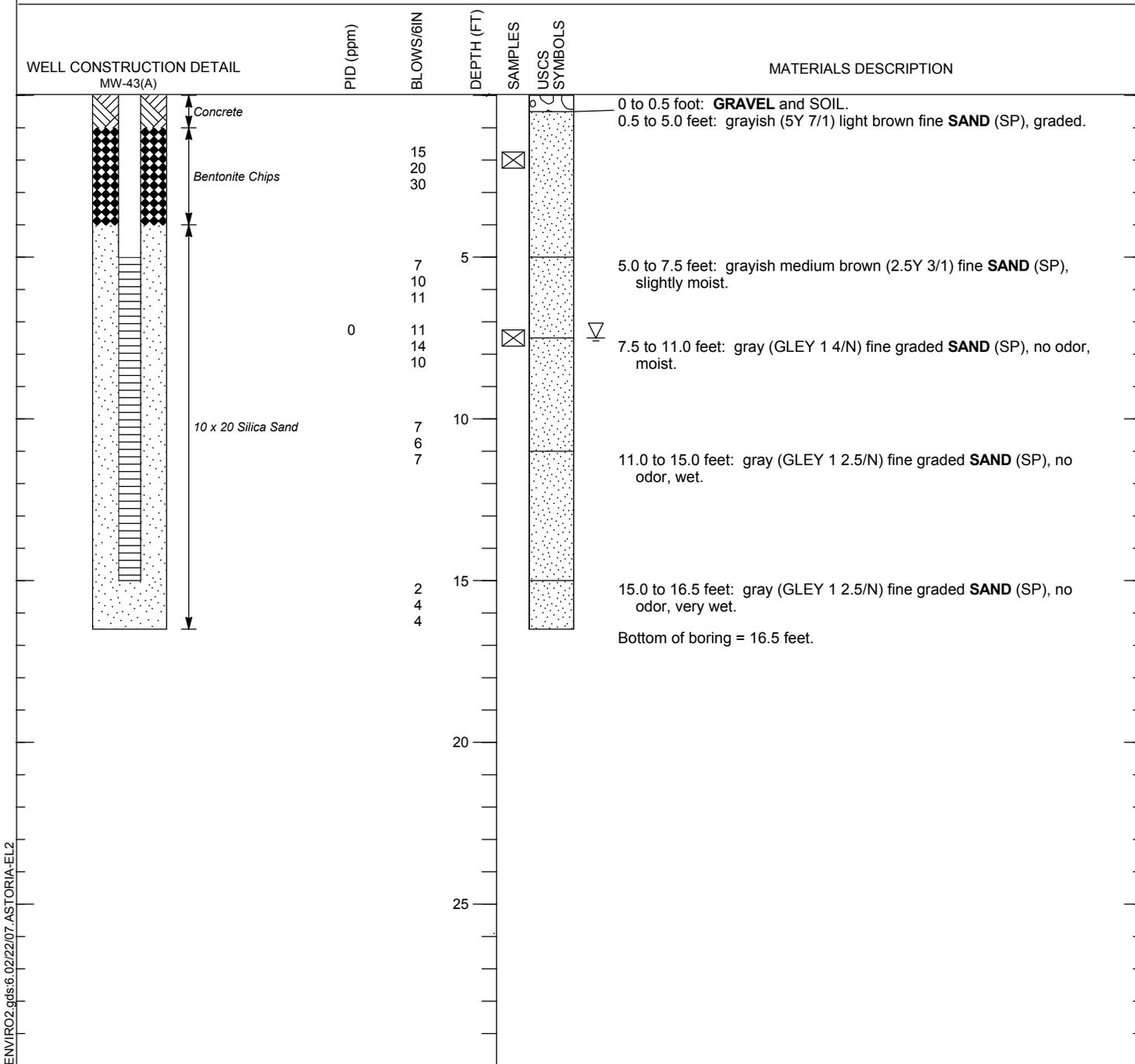


FIGURE B-8

LOG OF
 SOIL BORING SB-008(A)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2003

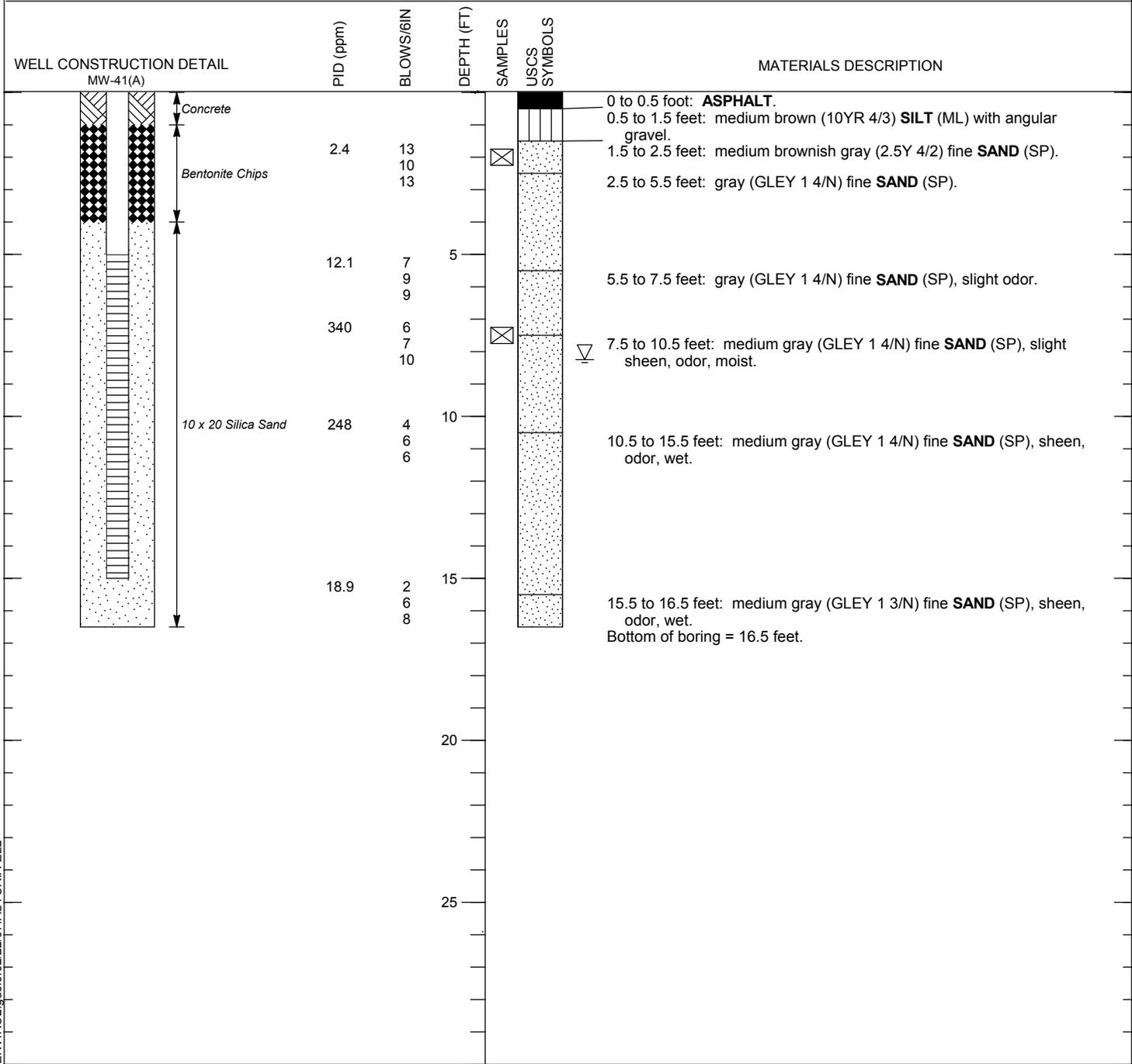


FIGURE B-9
LOG OF
SOIL BORING SB-009(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2003

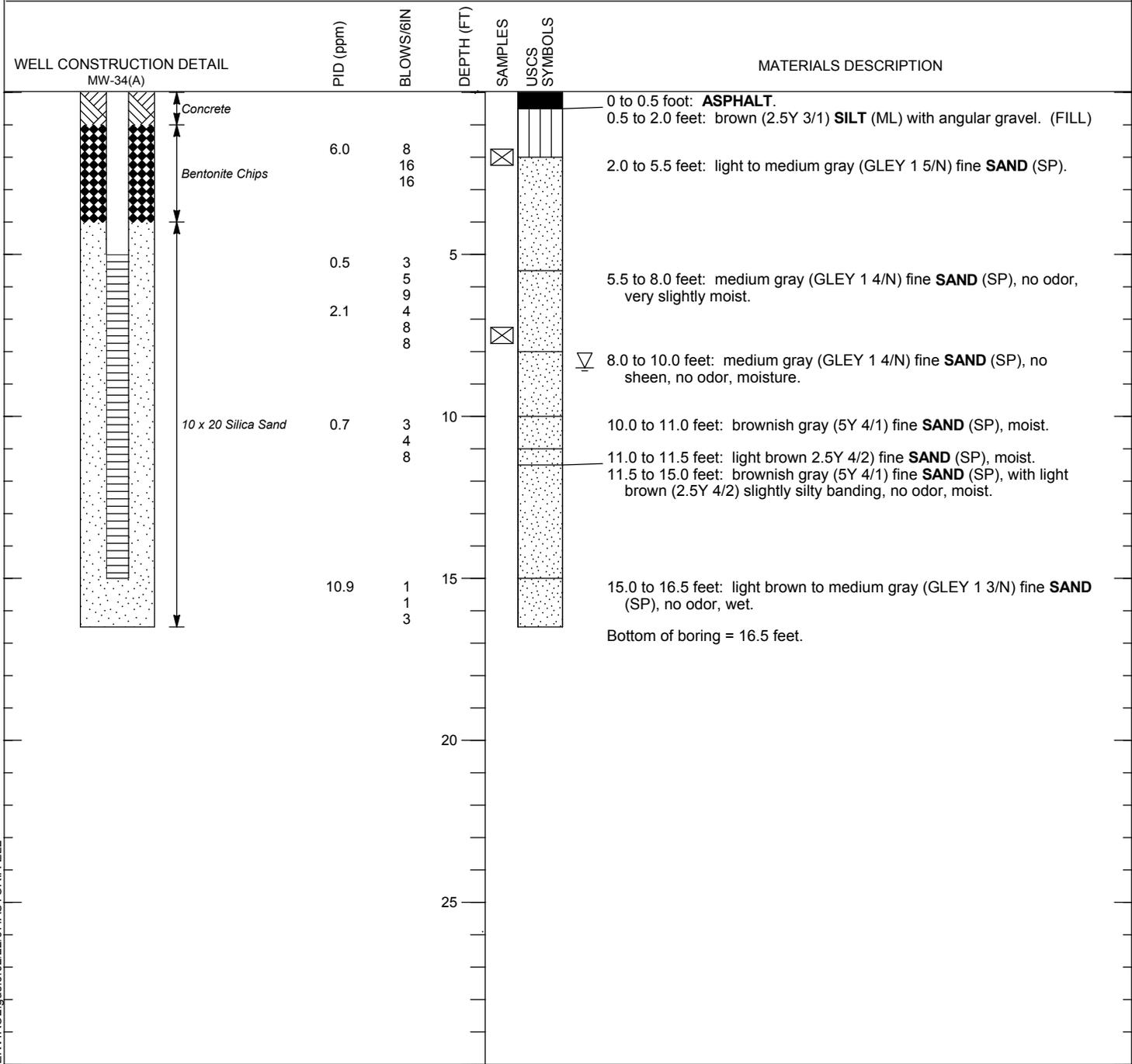


FIGURE B-10

LOG OF
SOIL BORING SB-010(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/3/2003

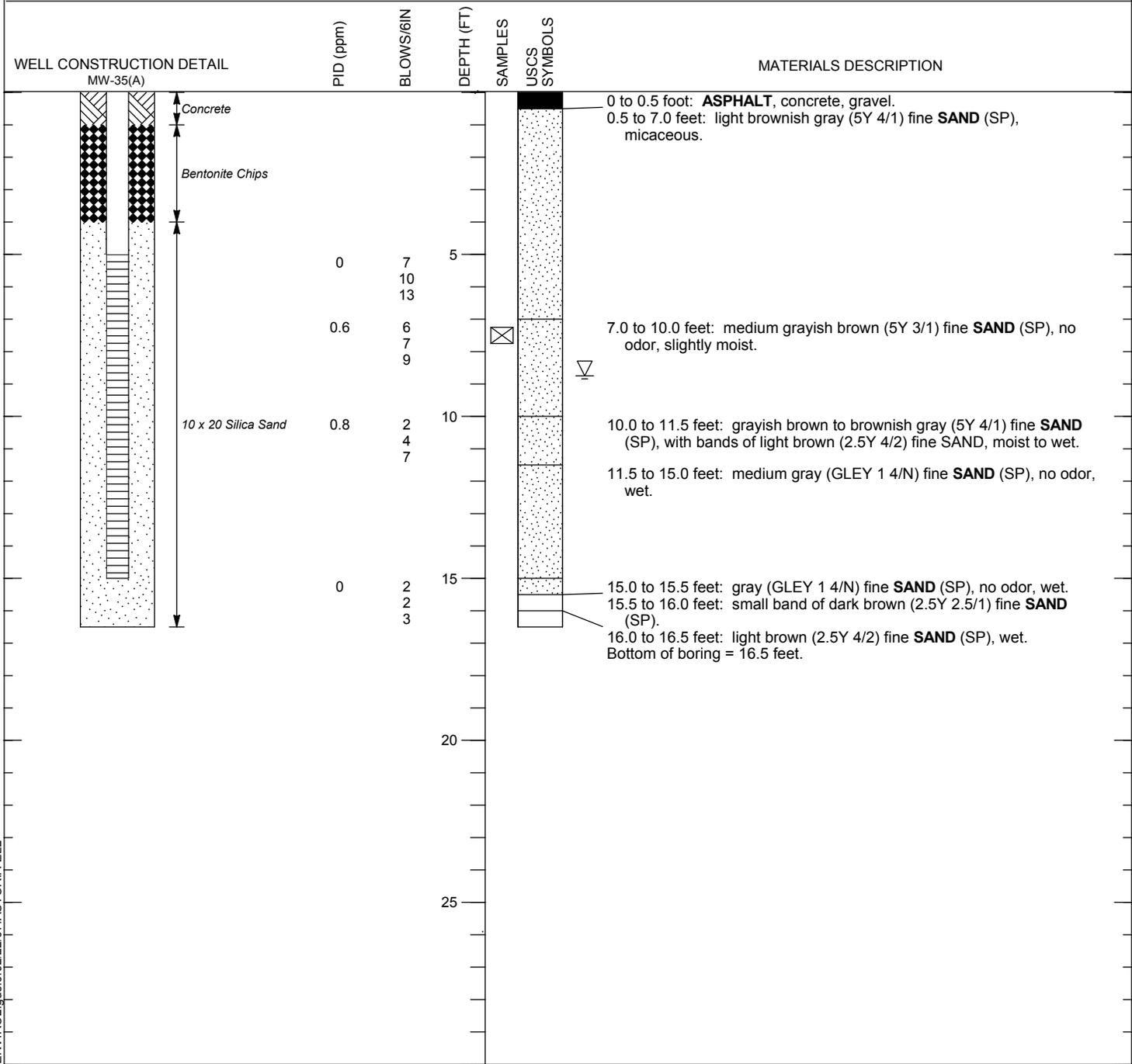


FIGURE B-11

LOG OF SOIL BORING SB-011(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16.5 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 9/2/2003

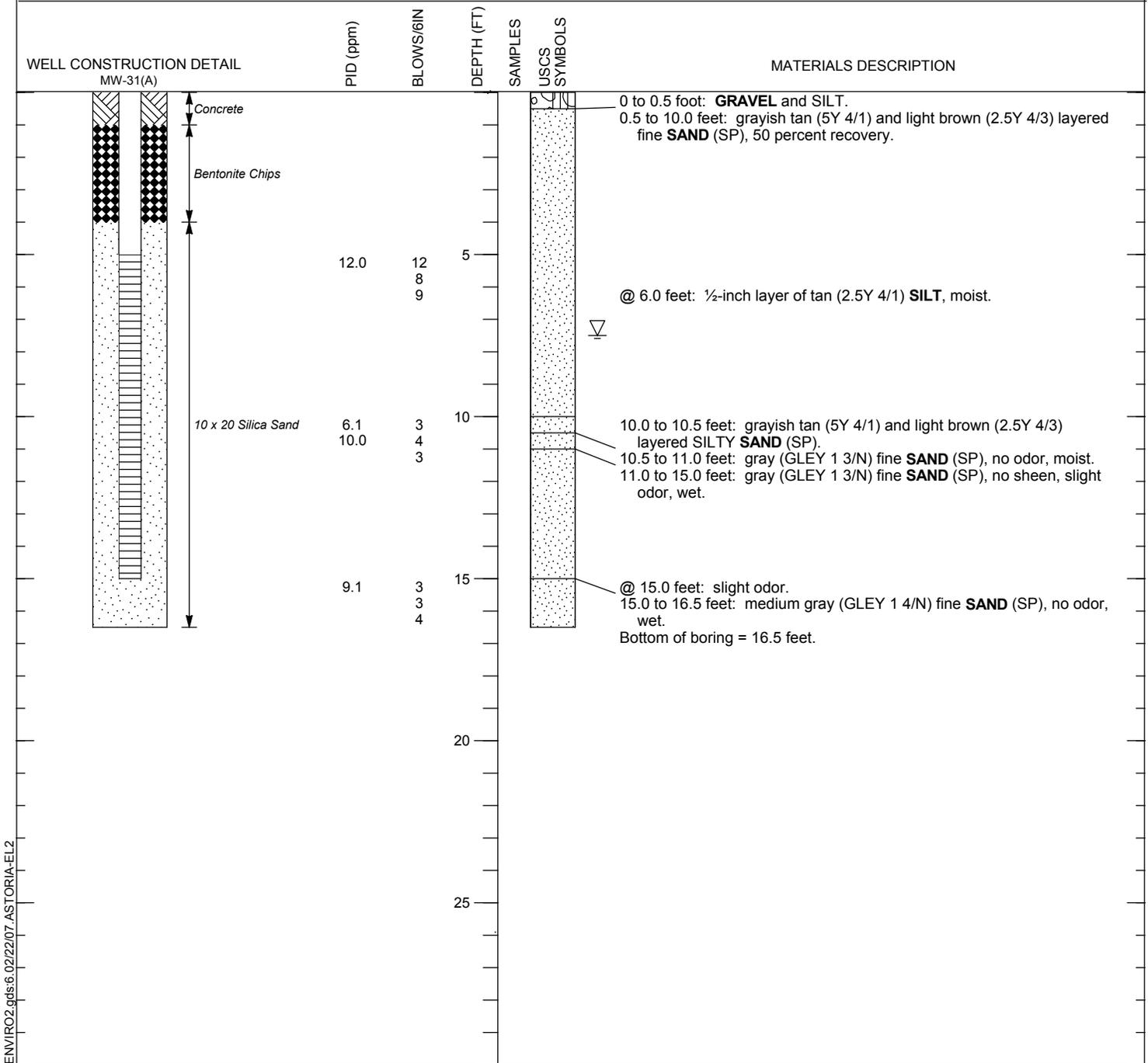


FIGURE B-12
LOG OF
SOIL BORING SB-012(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/3/2003

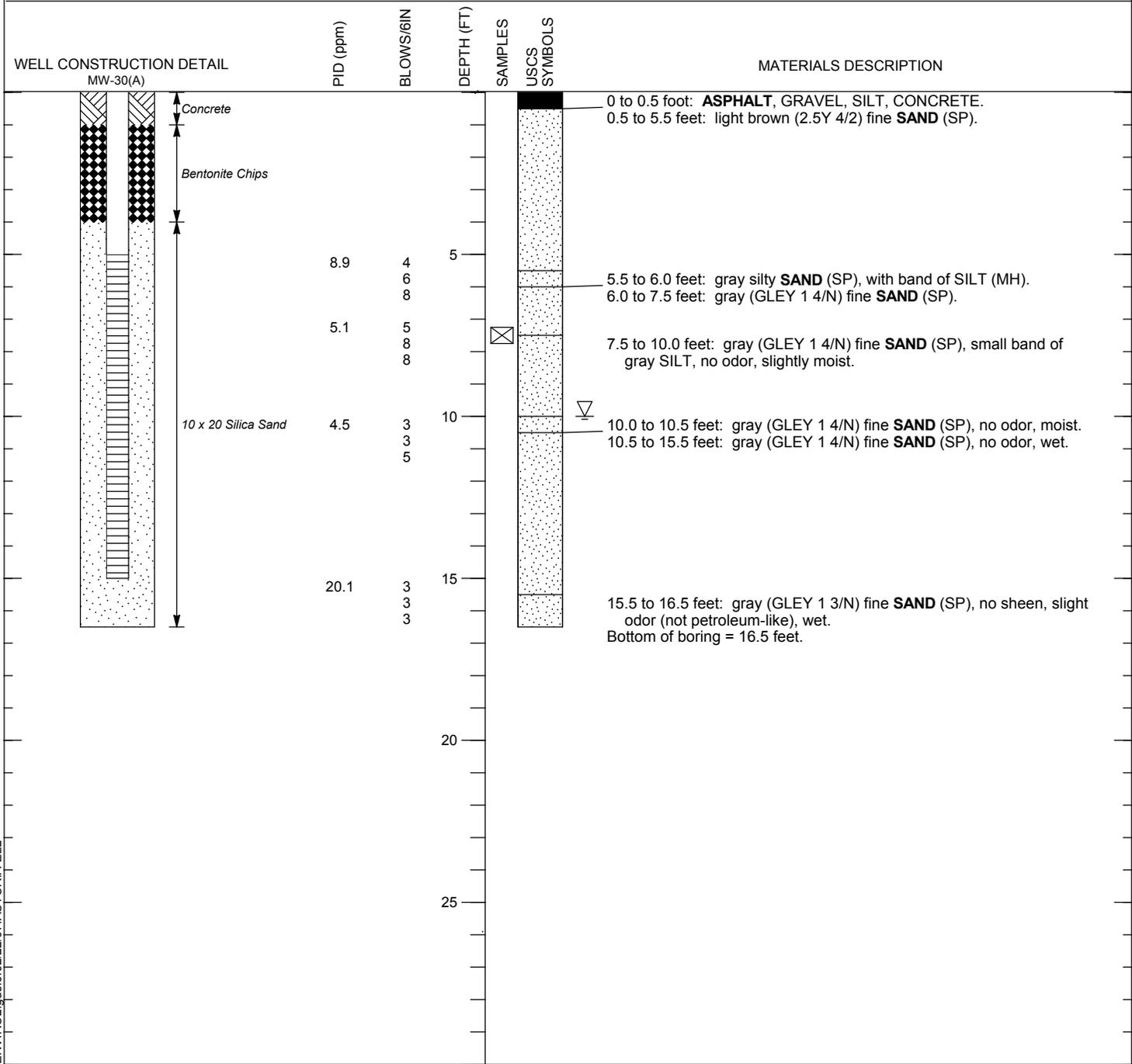


FIGURE B-13

LOG OF SOIL BORING SB-013(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/2/2003

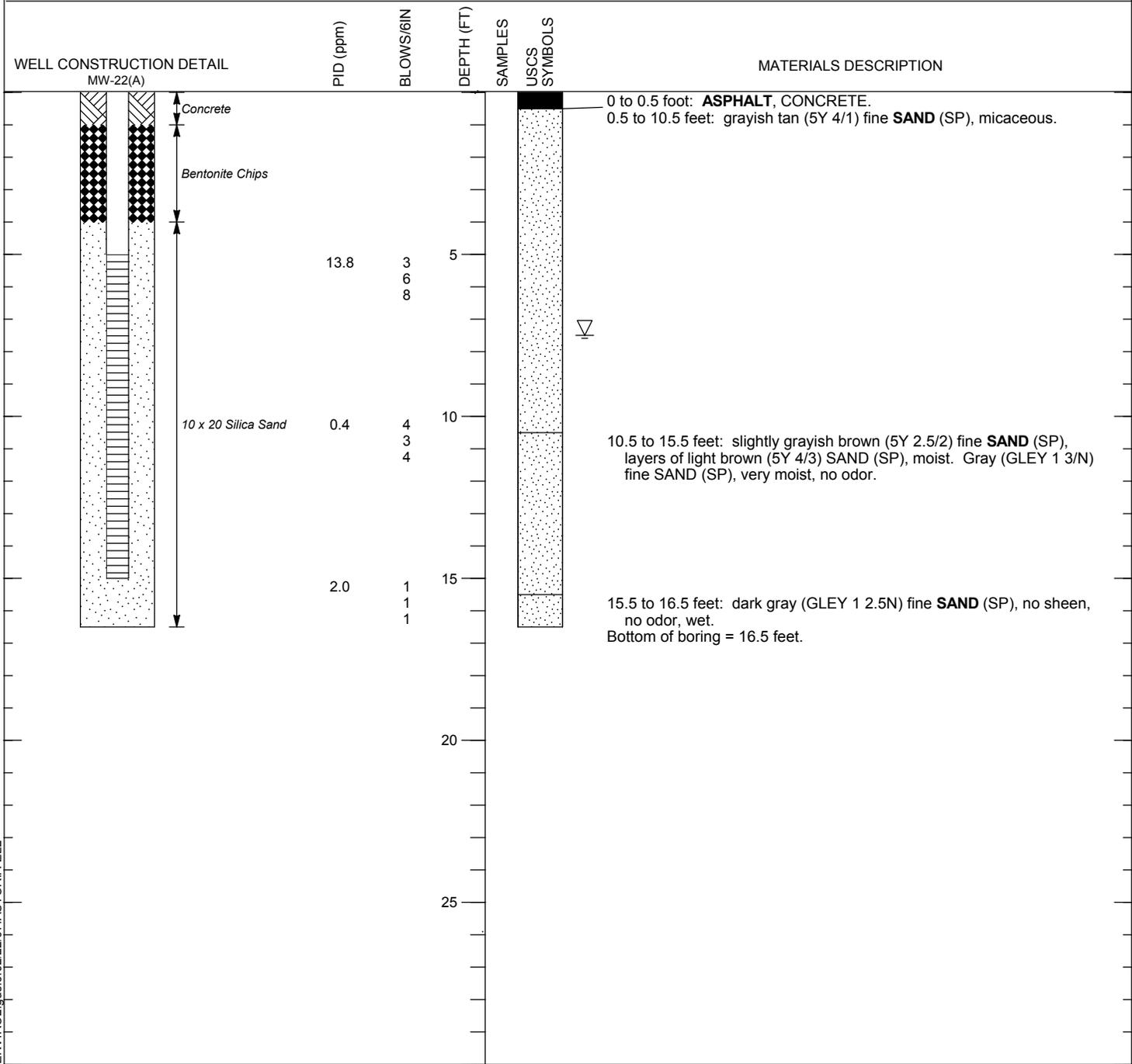


FIGURE B-14

LOG OF
SOIL BORING SB-014(S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe and Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/2003

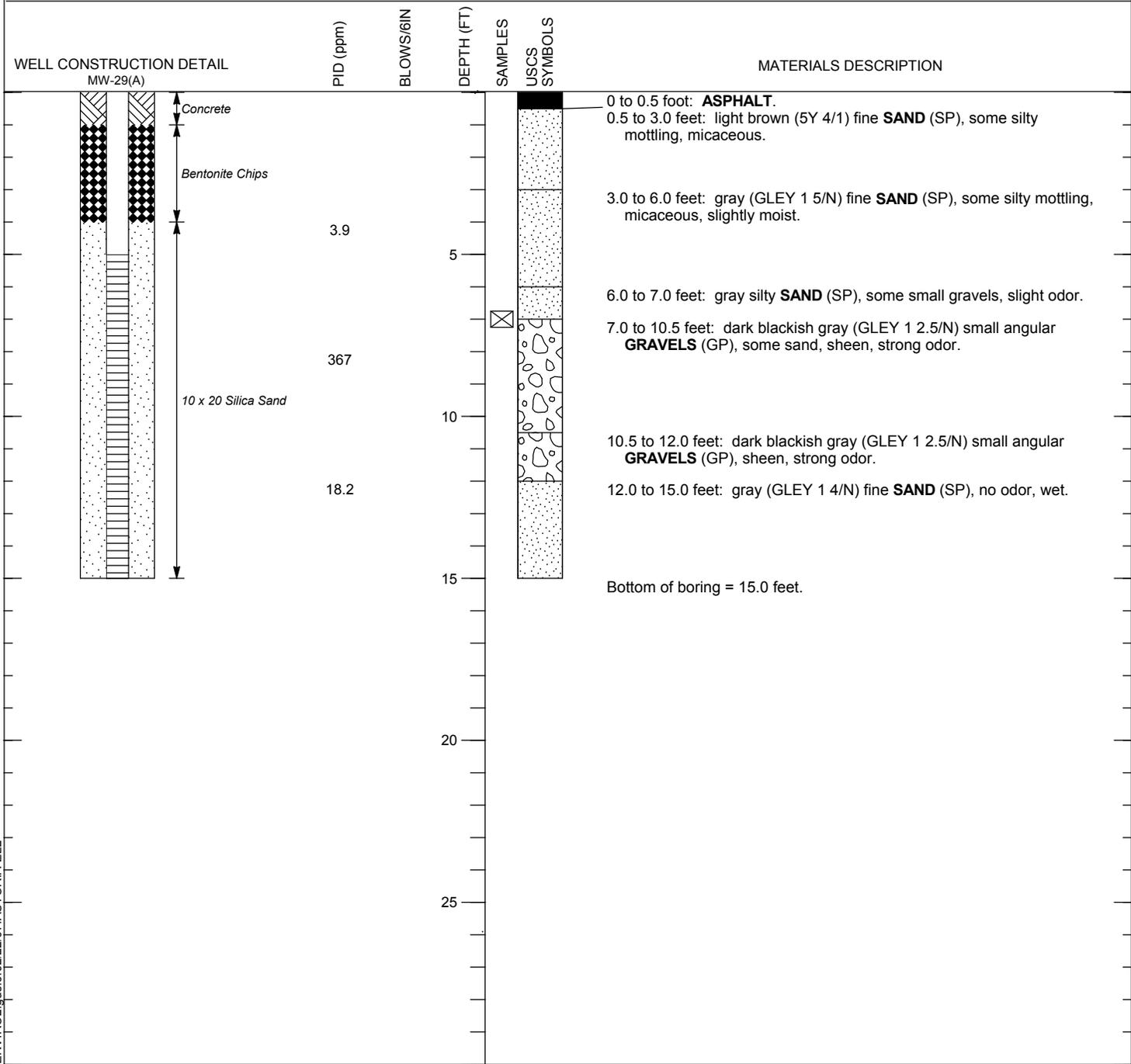


FIGURE B-15
LOG OF
SOIL BORING SB-015(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16.5 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 9/4/2003

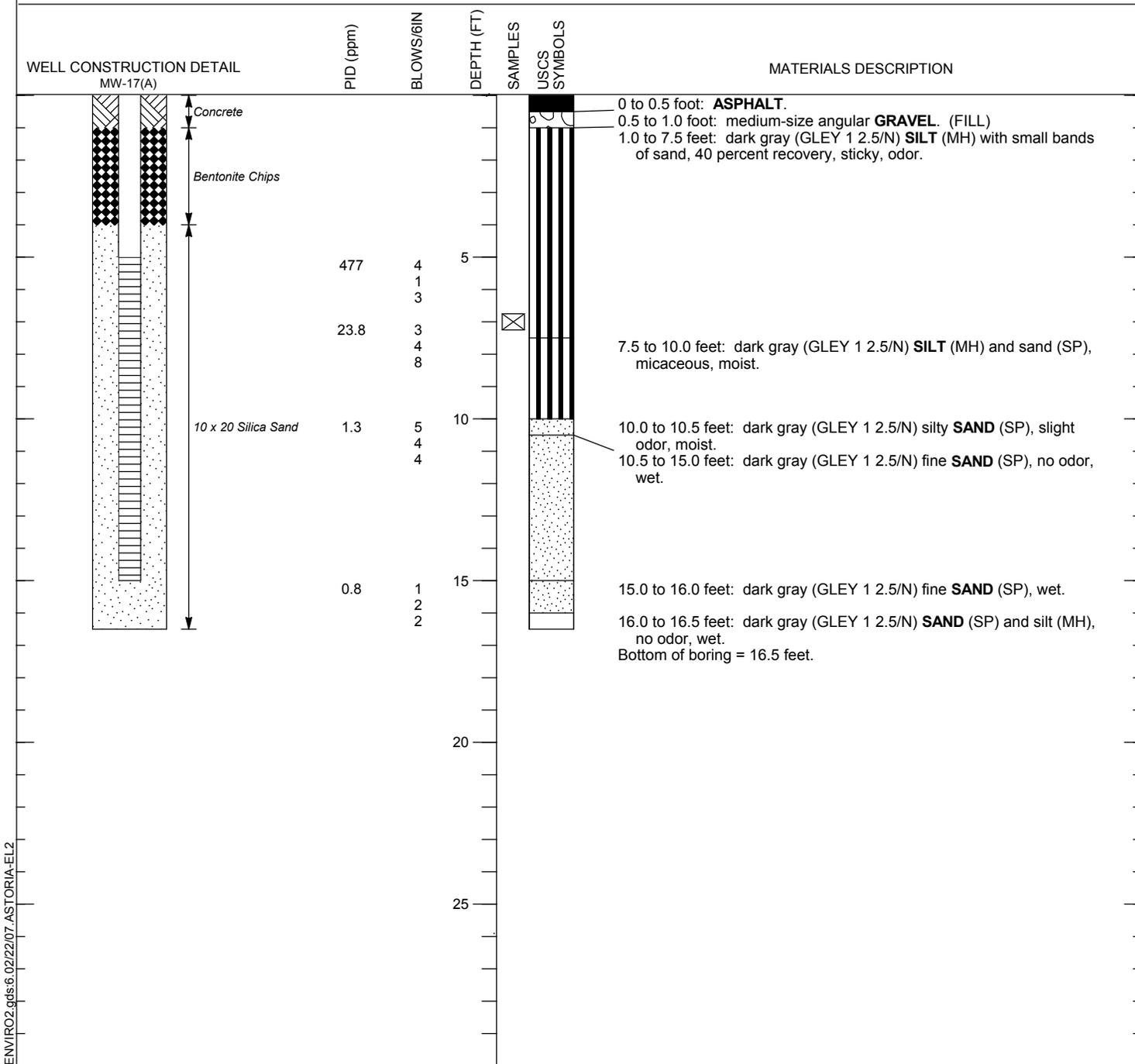


FIGURE B-16

LOG OF SOIL BORING SB-016(A)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/8/2003

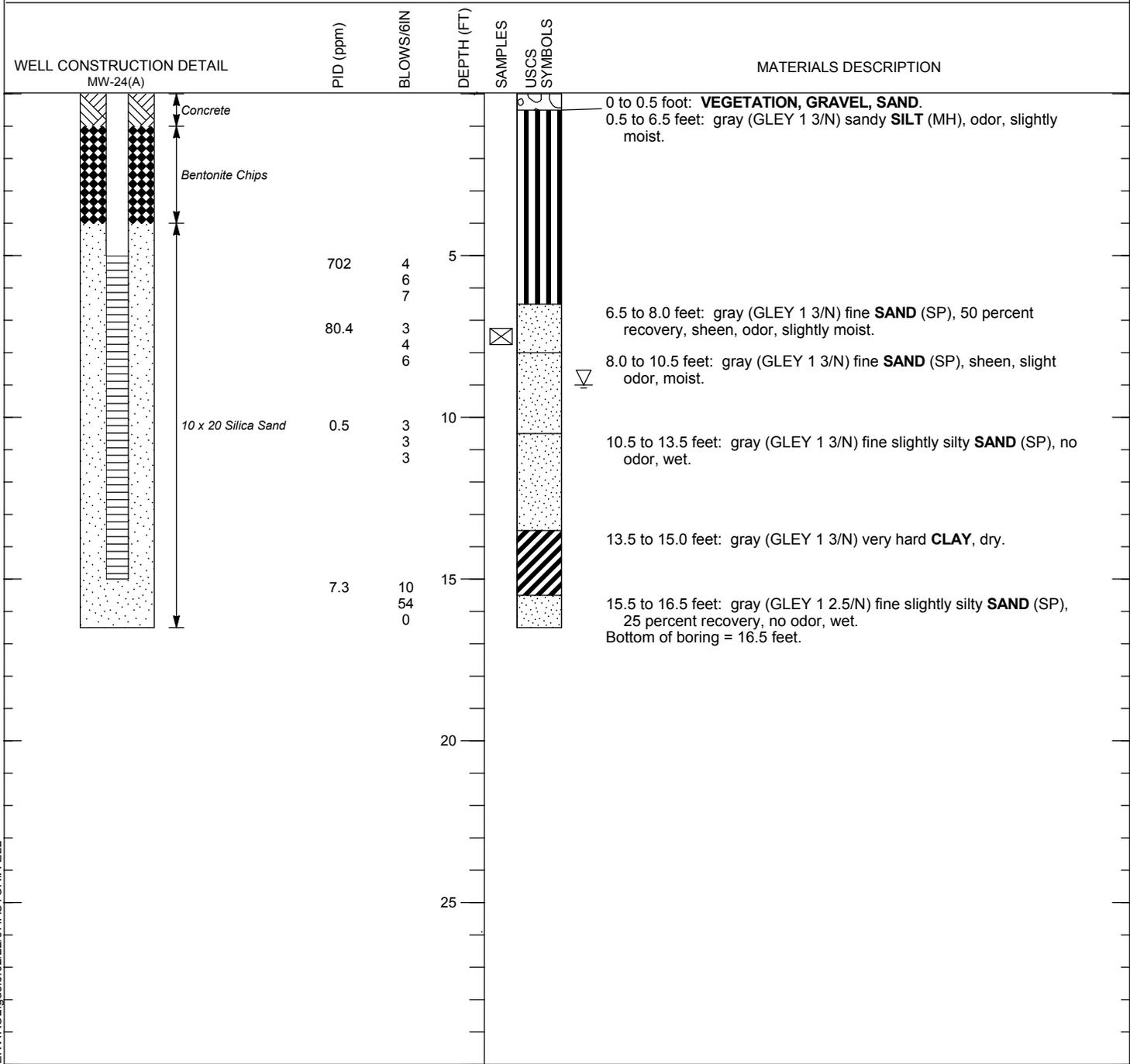


FIGURE B-17
LOG OF
SOIL BORING SB-017(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2003

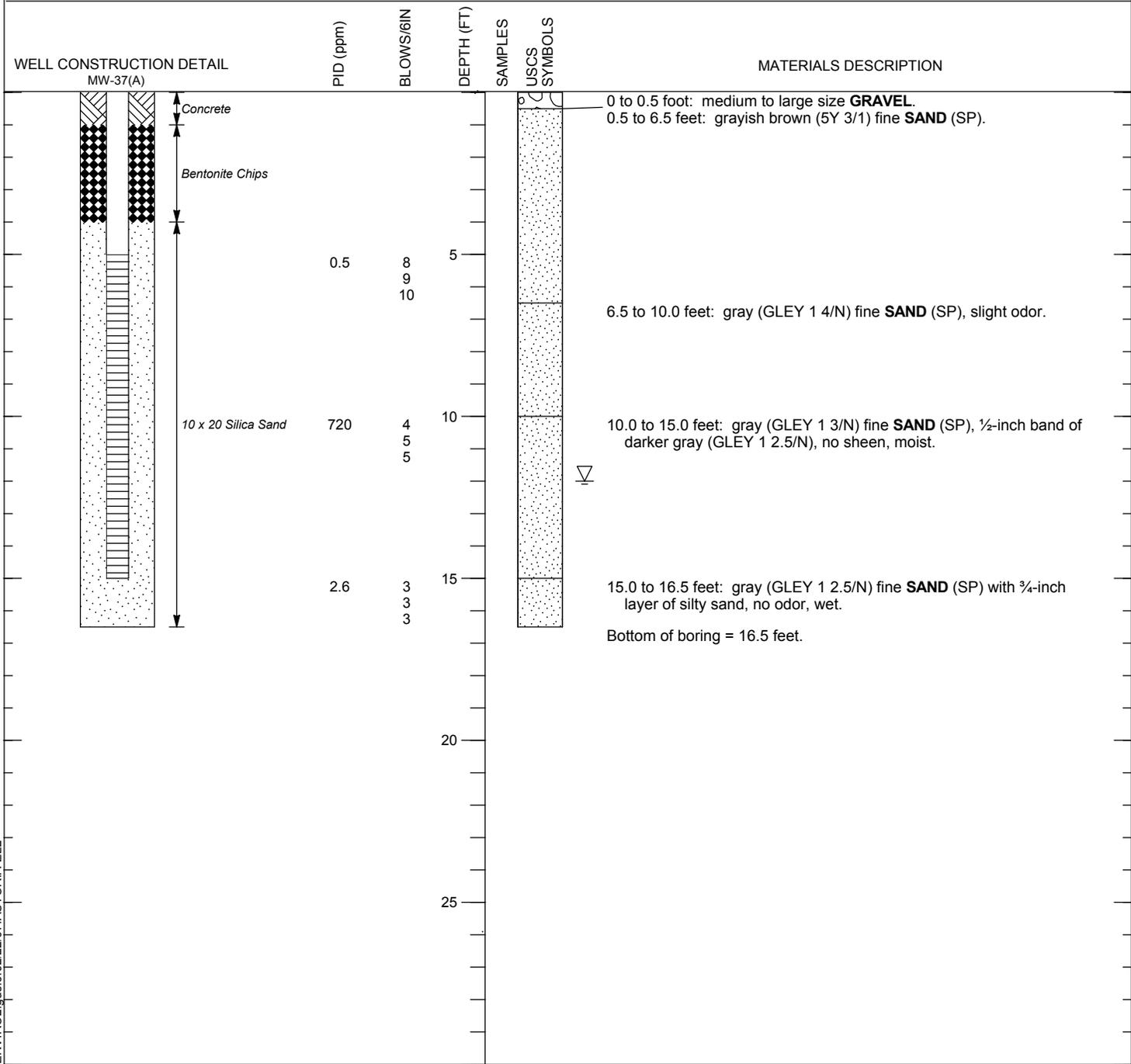


FIGURE B-18
LOG OF
SOIL BORING SB-018(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2003

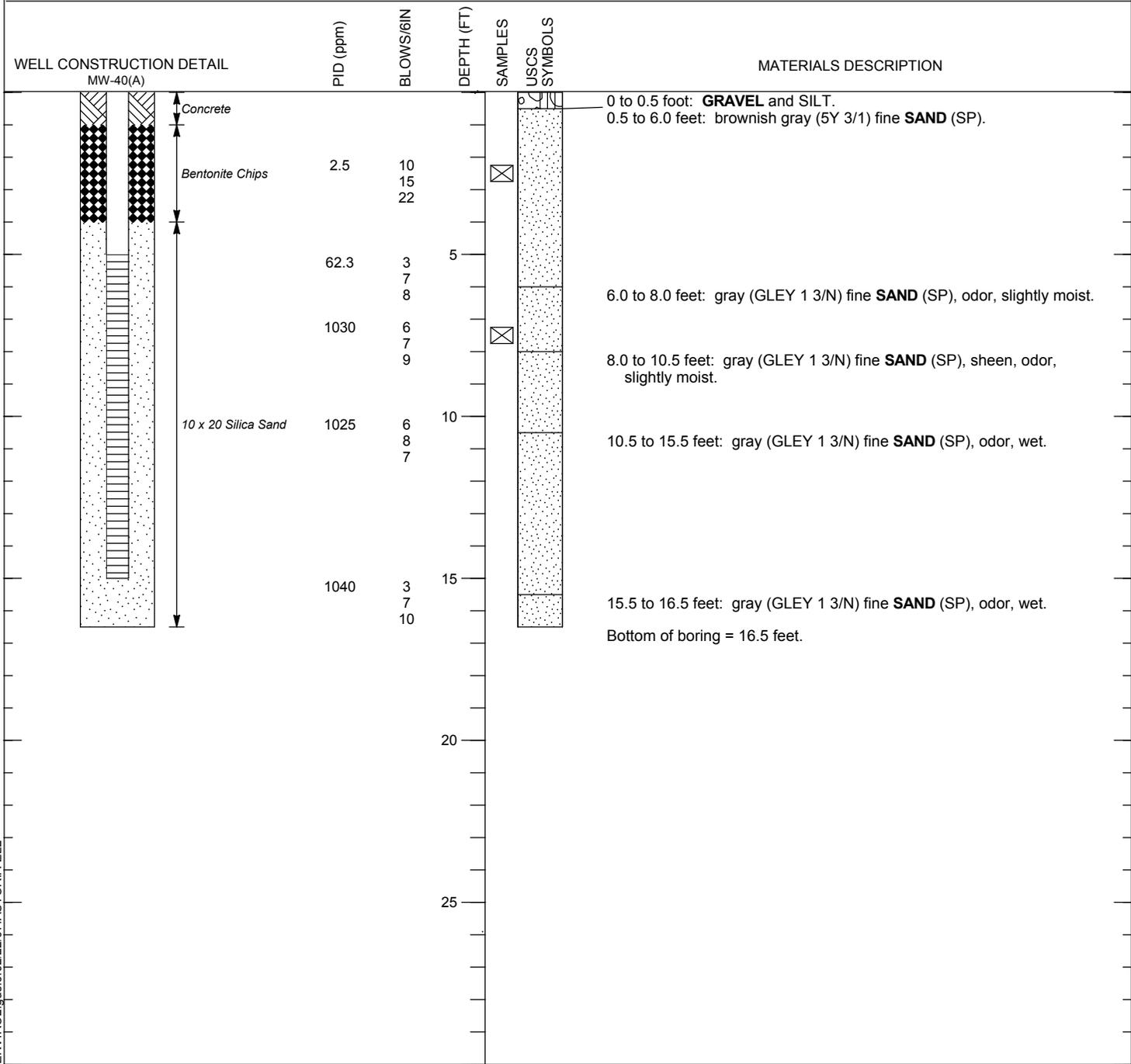
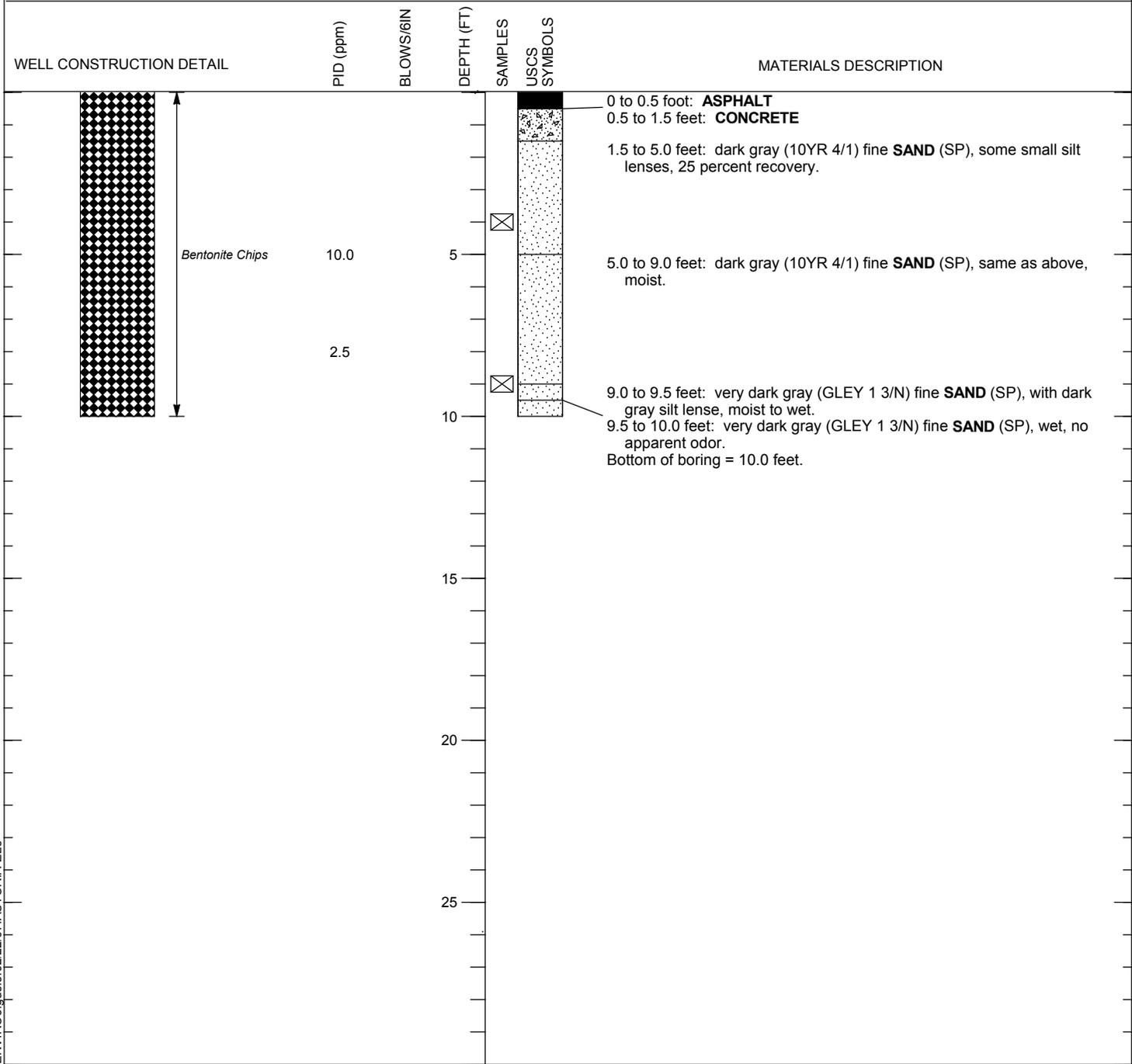


FIGURE B-19
LOG OF
SOIL BORING SB-019(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	10 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



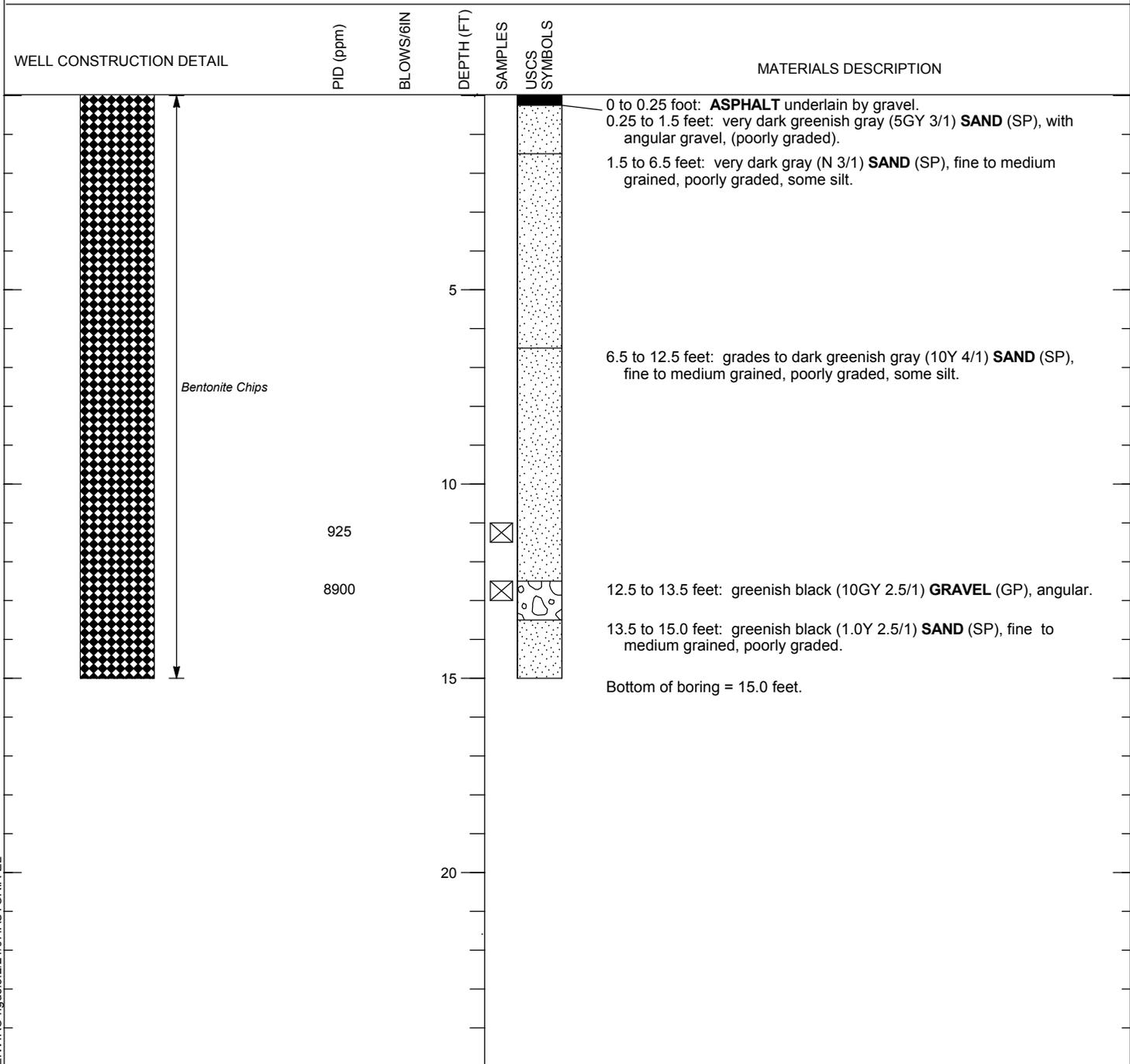
ENVIRO3.gds:3.02/22/07.ASTORIA-EL3

FIGURE B-20
LOG OF
SOIL BORING SB-020(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Pier 2	SURFACE ELEVATION	15.66
JOB NUMBER	10077.011	REFERENCE POINT ELEVATION	
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Boart Longyear	DATE STARTED	9/14/2005



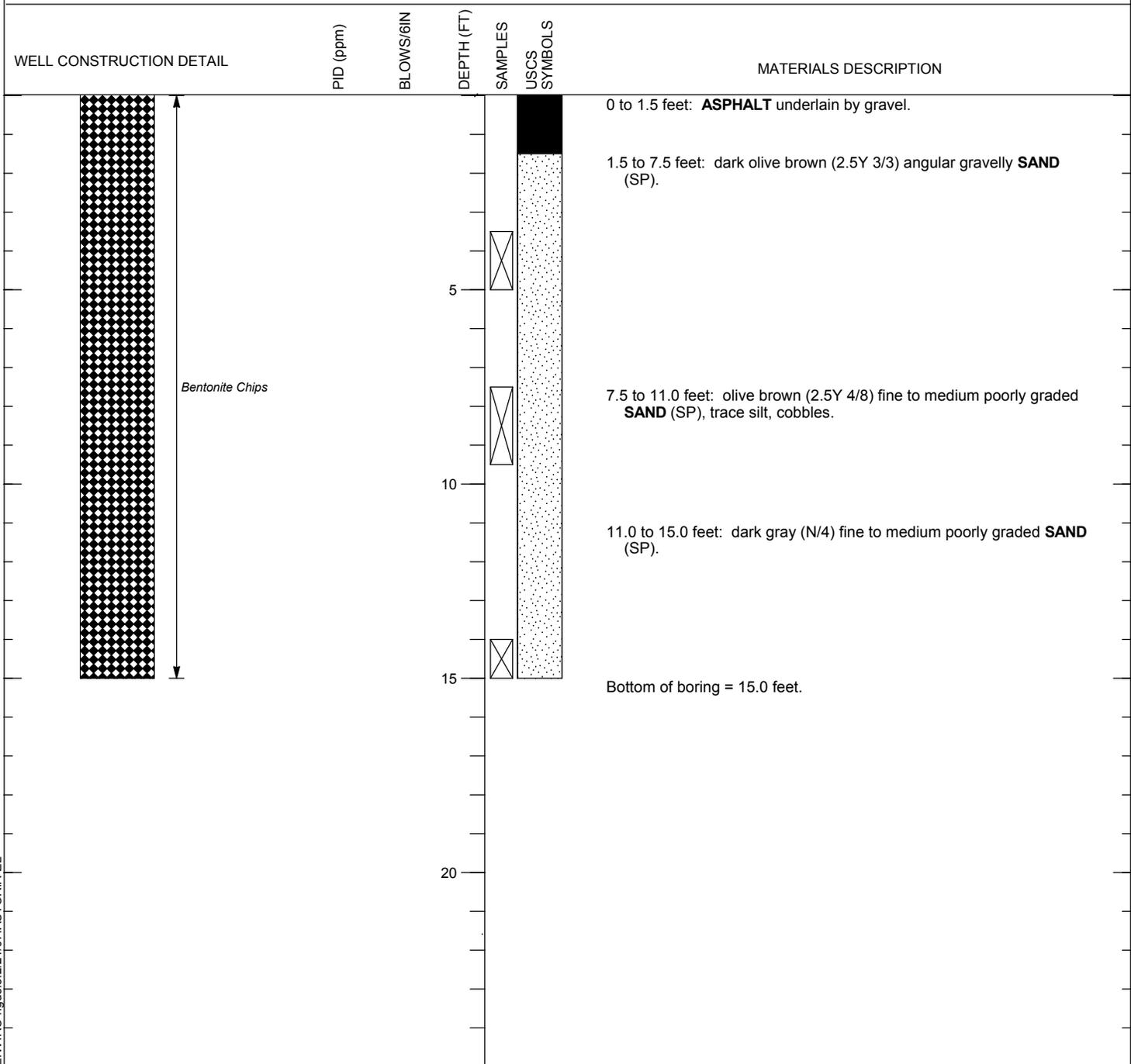
ENVIRO4.gds.5.2/21/07.ASTORIA-EL

FIGURE B-21
LOG OF
SOIL BORING SB-021 (A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Pier 2	SURFACE ELEVATION	
JOB NUMBER	10077.011	REFERENCE POINT ELEVATION	
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Boart Longyear	DATE STARTED	9/14/2005



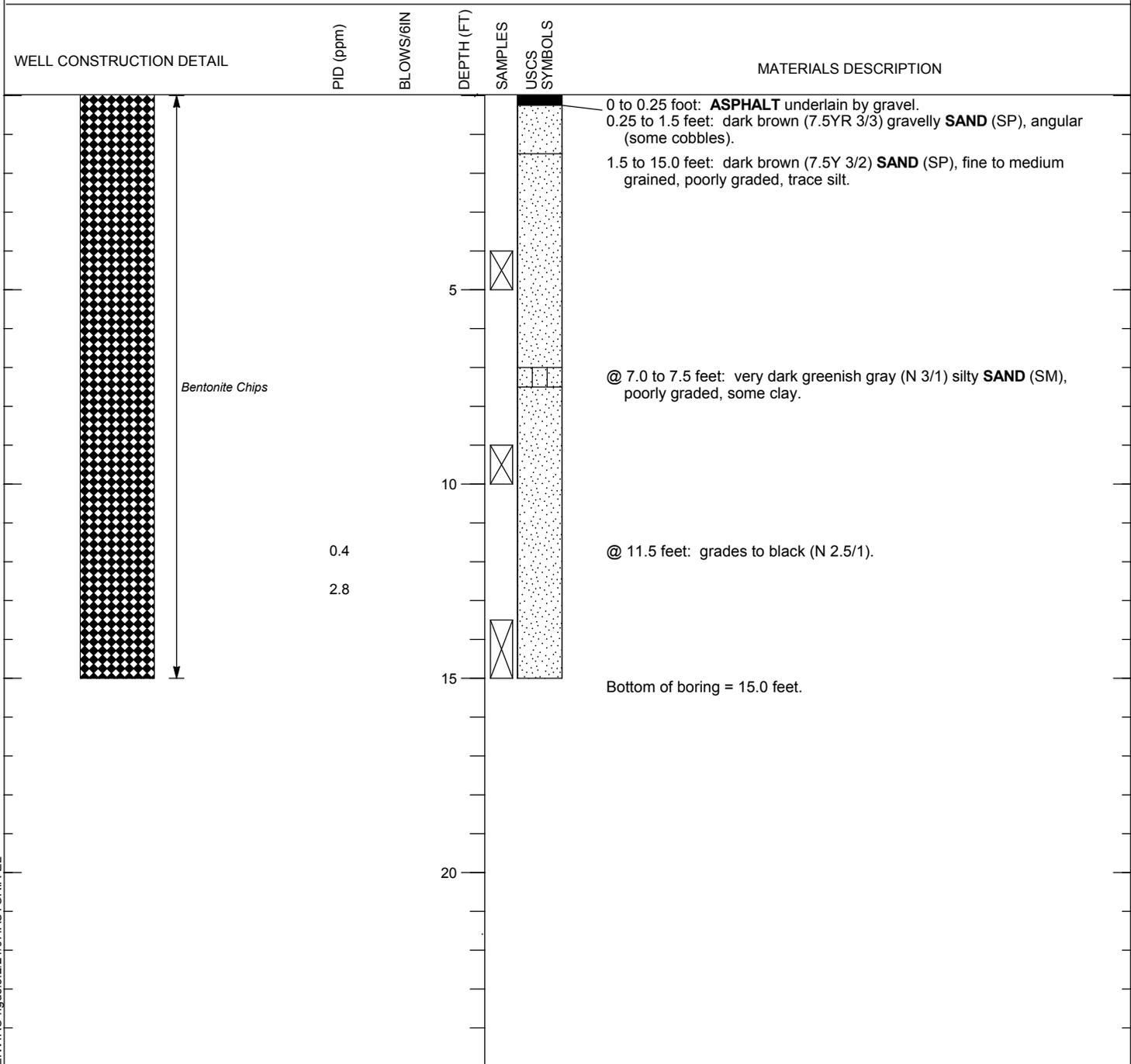
ENVIRO4.gds:5.2/21/07_ASTORIA-EL

FIGURE B-22
LOG OF
SOIL BORING SB-022 (A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Pier 2	SURFACE ELEVATION	16.45
JOB NUMBER	10077.011	REFERENCE POINT ELEVATION	
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Boart Longyear	DATE STARTED	9/15/2005



ENVIRO4.gds:5.2/21/07_ASTORIA-EL

FIGURE B-23
LOG OF
SOIL BORING SB-023 (A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Pier 2	SURFACE ELEVATION	
JOB NUMBER	10077.011	REFERENCE POINT ELEVATION	
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Boart Longyear	DATE STARTED	9/14/2005

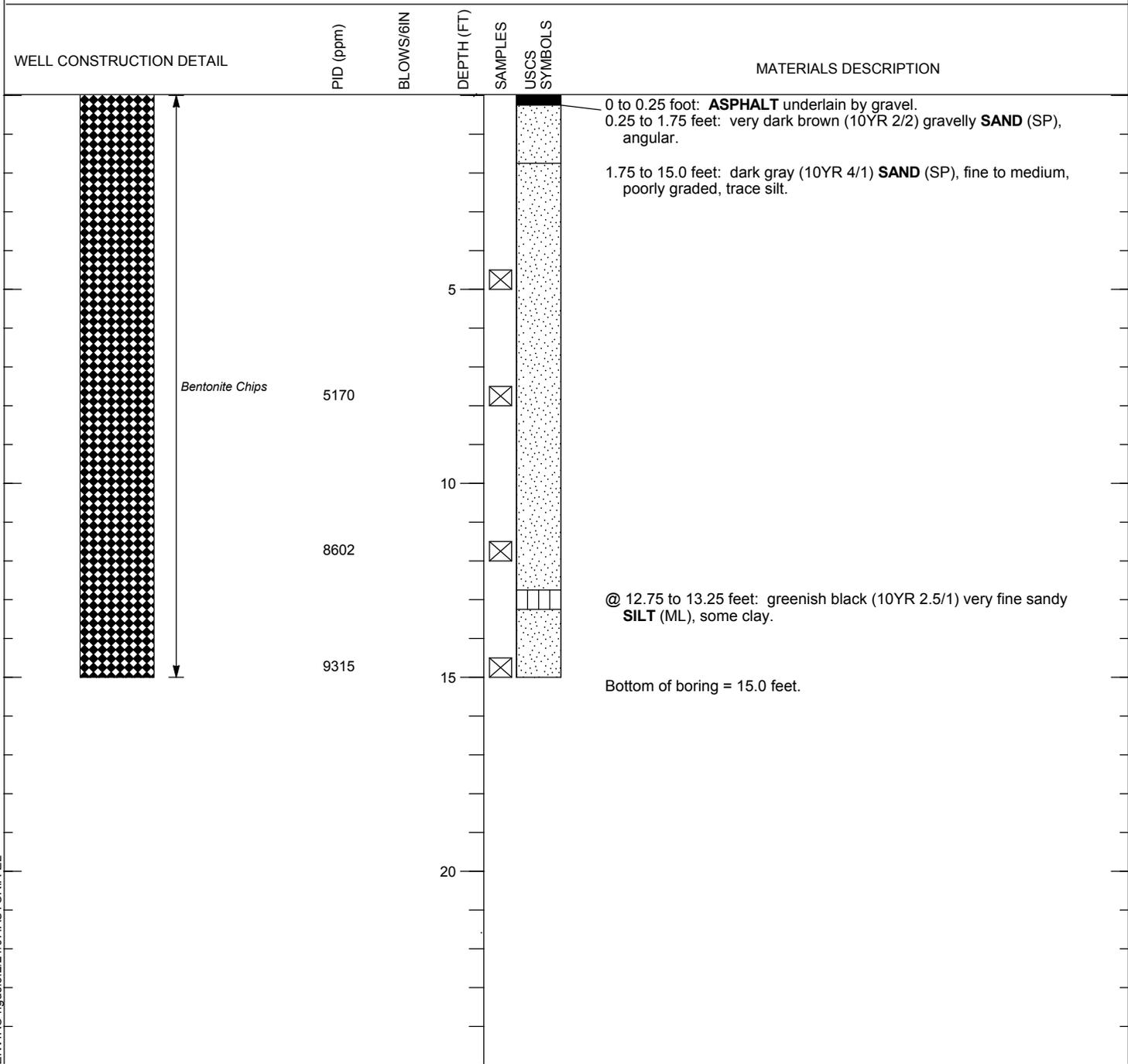
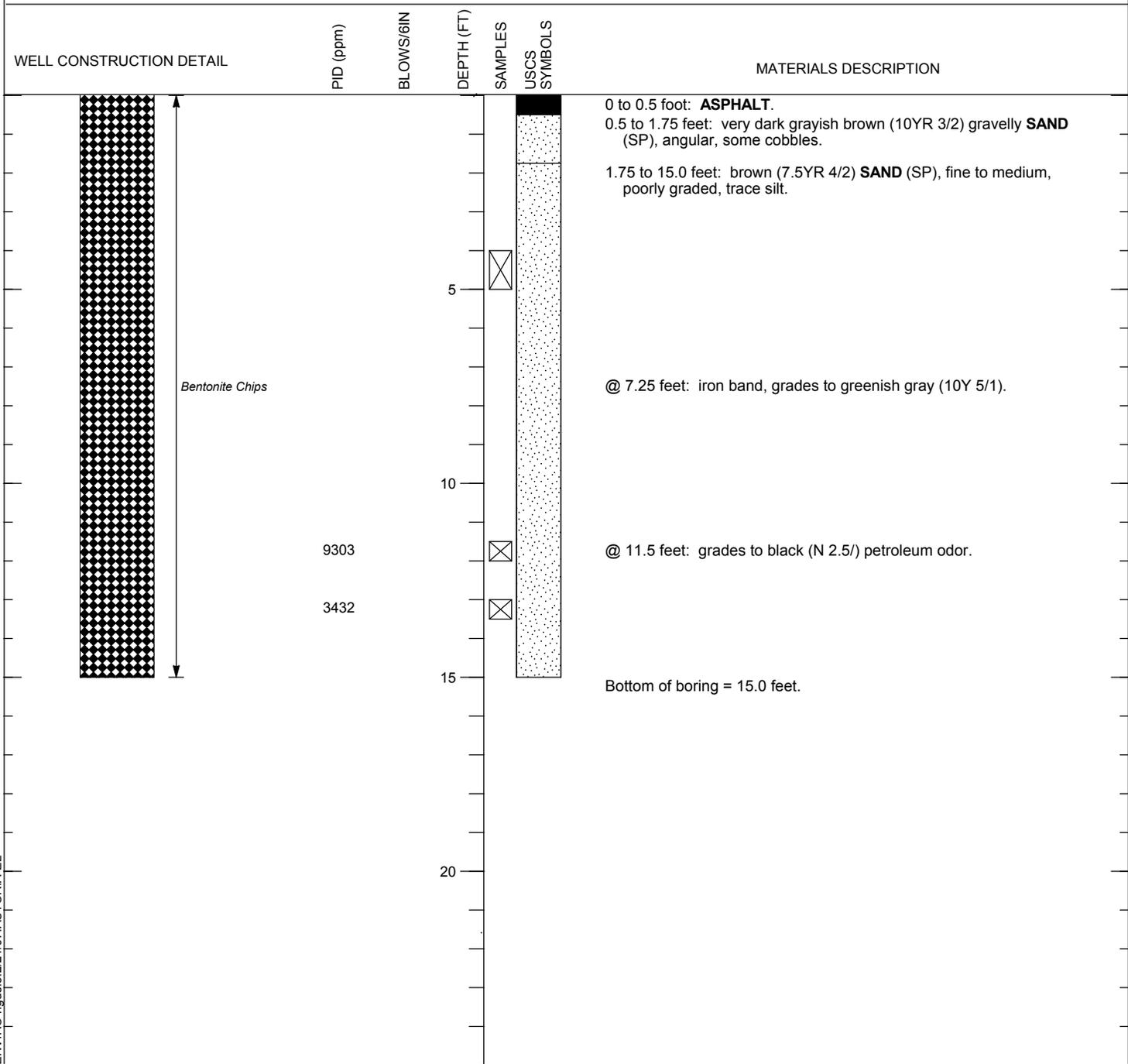


FIGURE B-24
LOG OF
SOIL BORING SB-024 (A)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Pier 2	SURFACE ELEVATION	16.69
JOB NUMBER	10077.011	REFERENCE POINT ELEVATION	
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Boart Longyear	DATE STARTED	9/15/2005



ENVIRO4.gds:5.2/21/07_ASTORIA-EL

FIGURE B-25
LOG OF
SOIL BORING SB-025 (A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



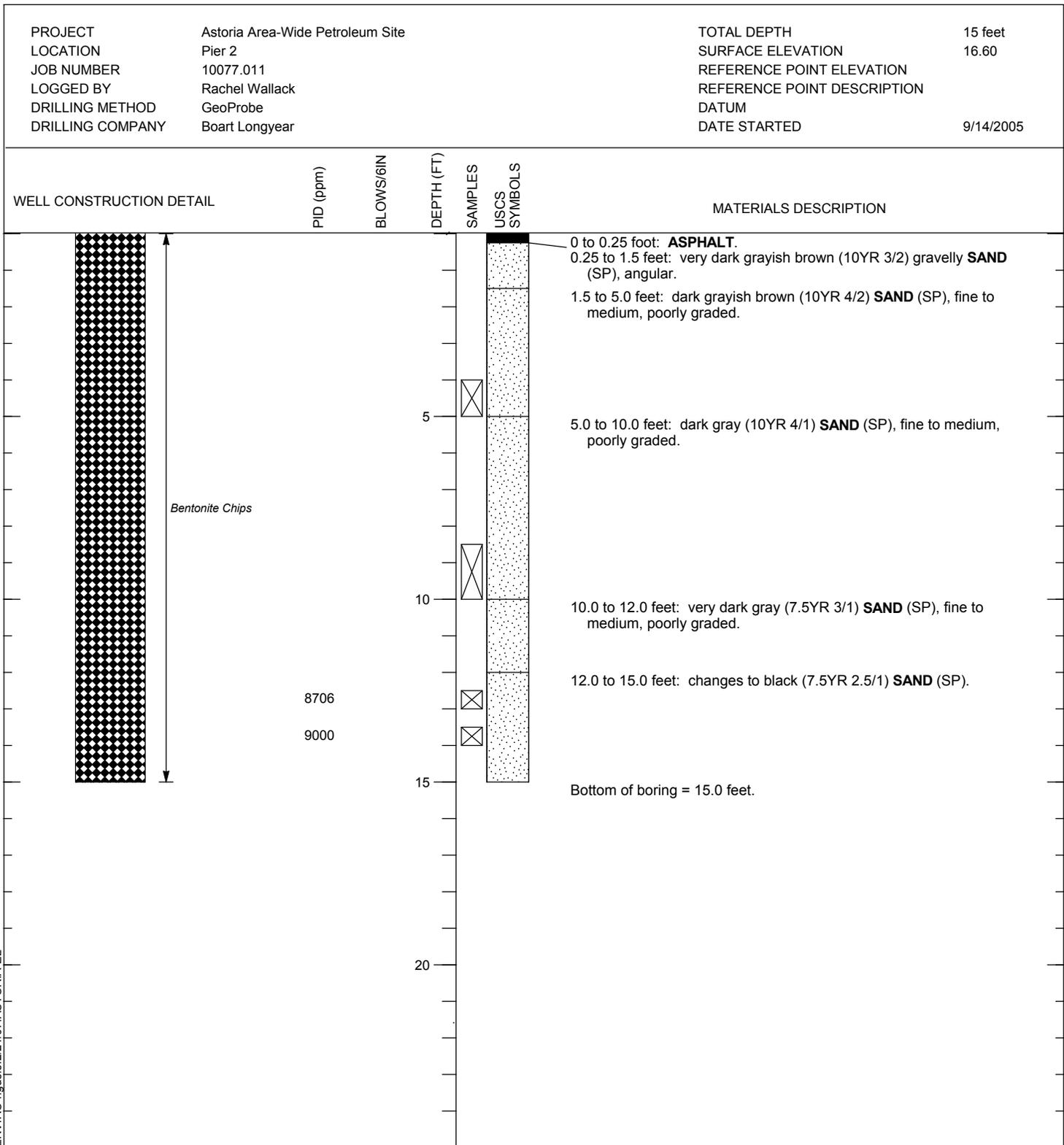
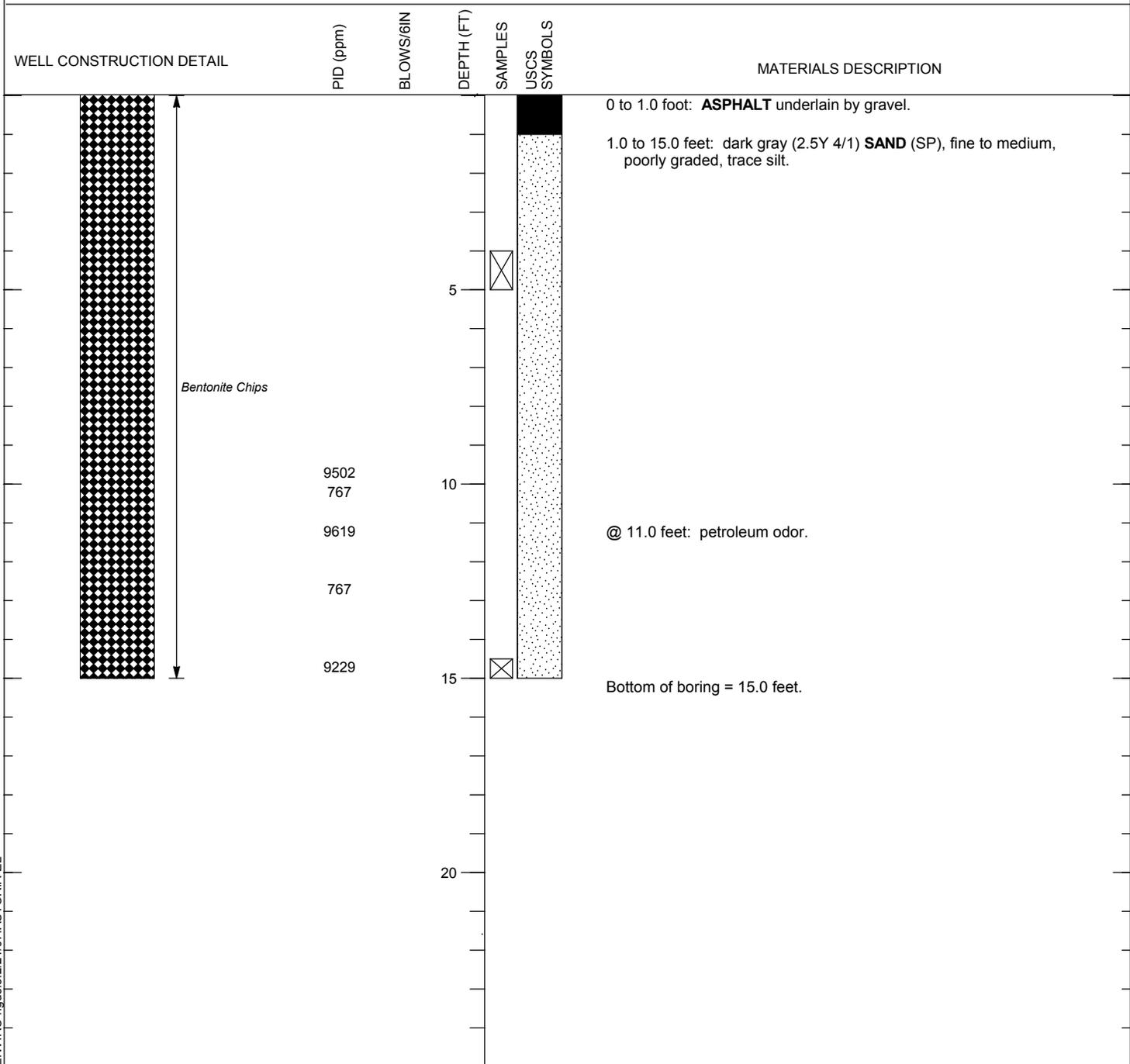


FIGURE B-26
LOG OF
SOIL BORING SB-026 (A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Pier 2	SURFACE ELEVATION	16.49
JOB NUMBER	10077.011	REFERENCE POINT ELEVATION	
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Boart Longyear	DATE STARTED	9/14/2005



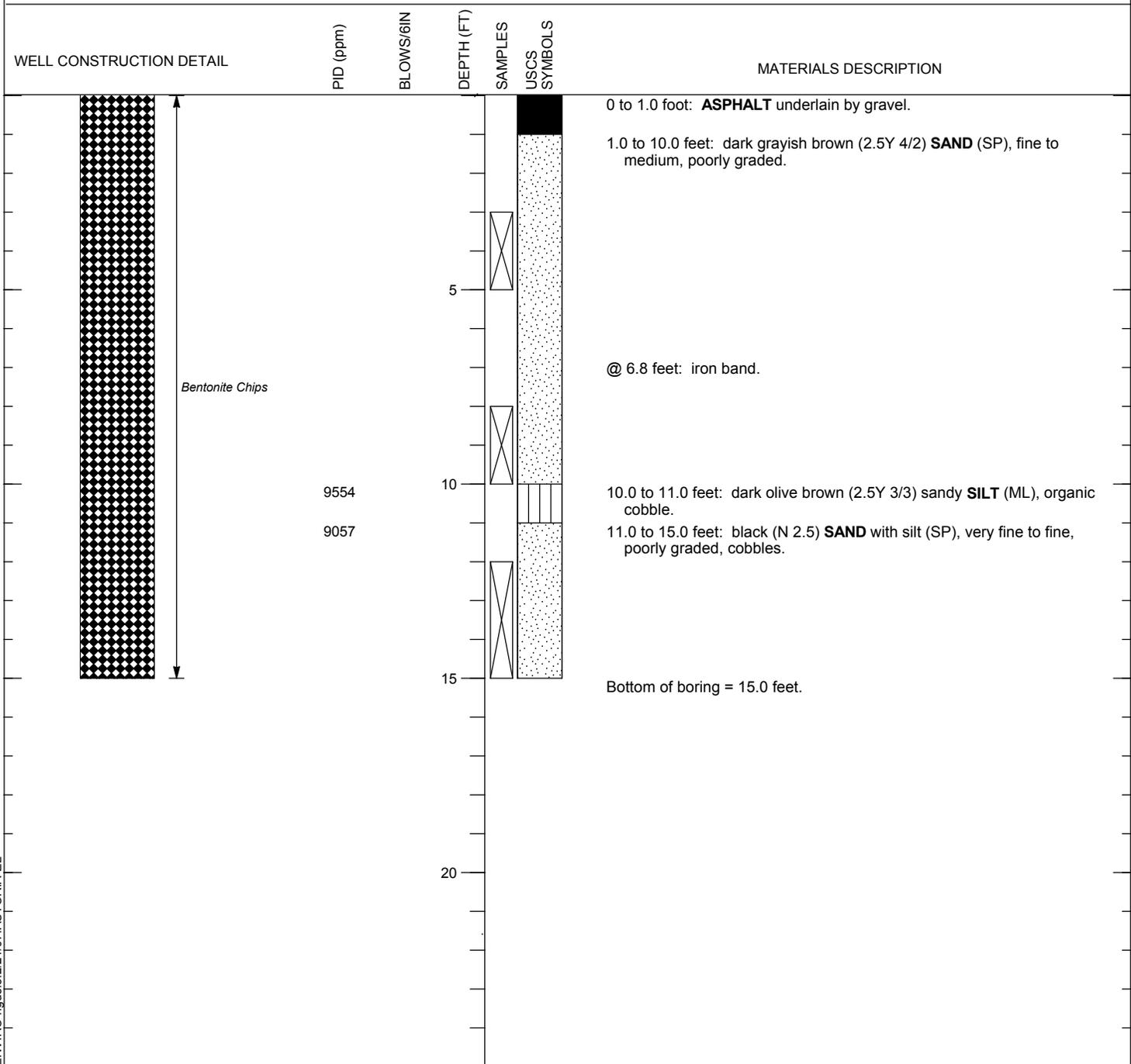
ENVIRO4.gds:5.2/21/07 ASTORIA-EL

FIGURE B-27
LOG OF
SOIL BORING SB-027 (A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Pier 2	SURFACE ELEVATION	16.13
JOB NUMBER	10077.011	REFERENCE POINT ELEVATION	
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Boart Longyear	DATE STARTED	9/14/2005



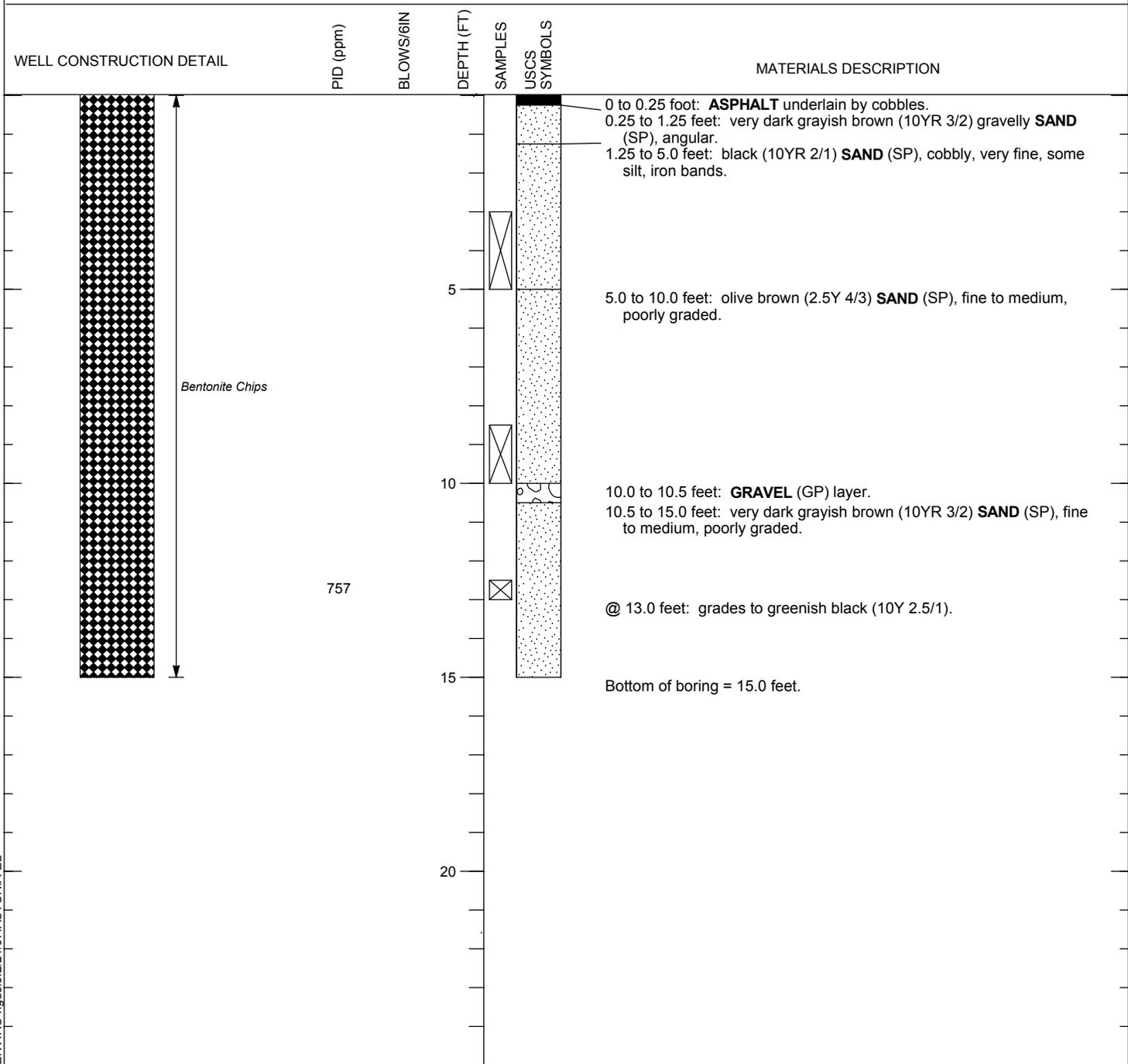
ENVIRO4.gds:5.2/21/07_ASTORIA-EL

FIGURE B-28
LOG OF
SOIL BORING SB-028 (A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Pier 2	SURFACE ELEVATION	16.43
JOB NUMBER	10077.011	REFERENCE POINT ELEVATION	
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Boart Longyear	DATE STARTED	9/14/2005



ENVIRO4.gds:5.2/21/07_ASTORIA-EL

FIGURE B-29
LOG OF
SOIL BORING SB-029 (A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Pier 2	SURFACE ELEVATION	16.49
JOB NUMBER	10077.011	REFERENCE POINT ELEVATION	
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Boart Longyear	DATE STARTED	9/14/2005

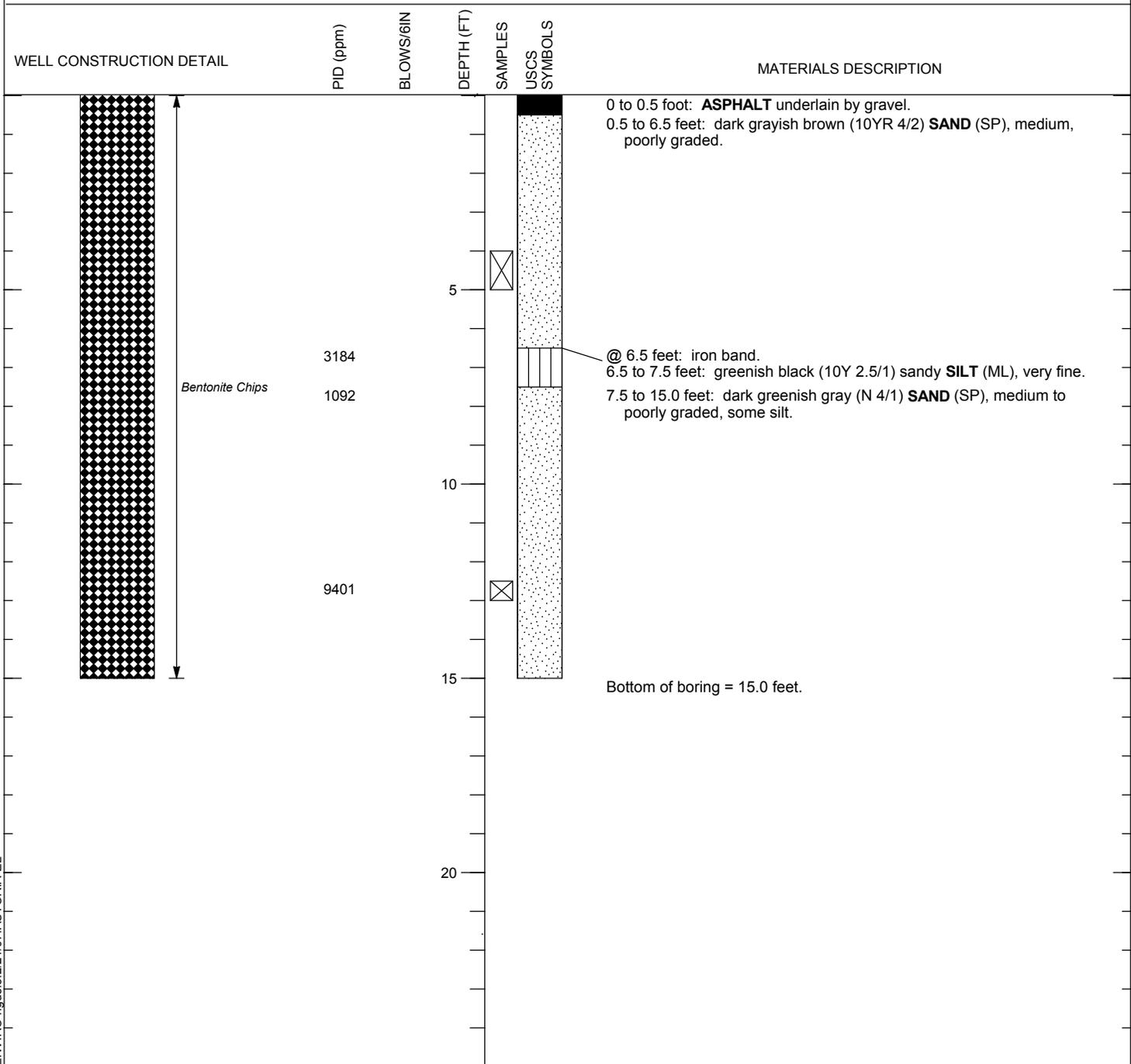


FIGURE B-30
LOG OF
SOIL BORING SB-030 (A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Youngs Bay Texaco, Former Chevron Station 9-5872	TOTAL DEPTH	24 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

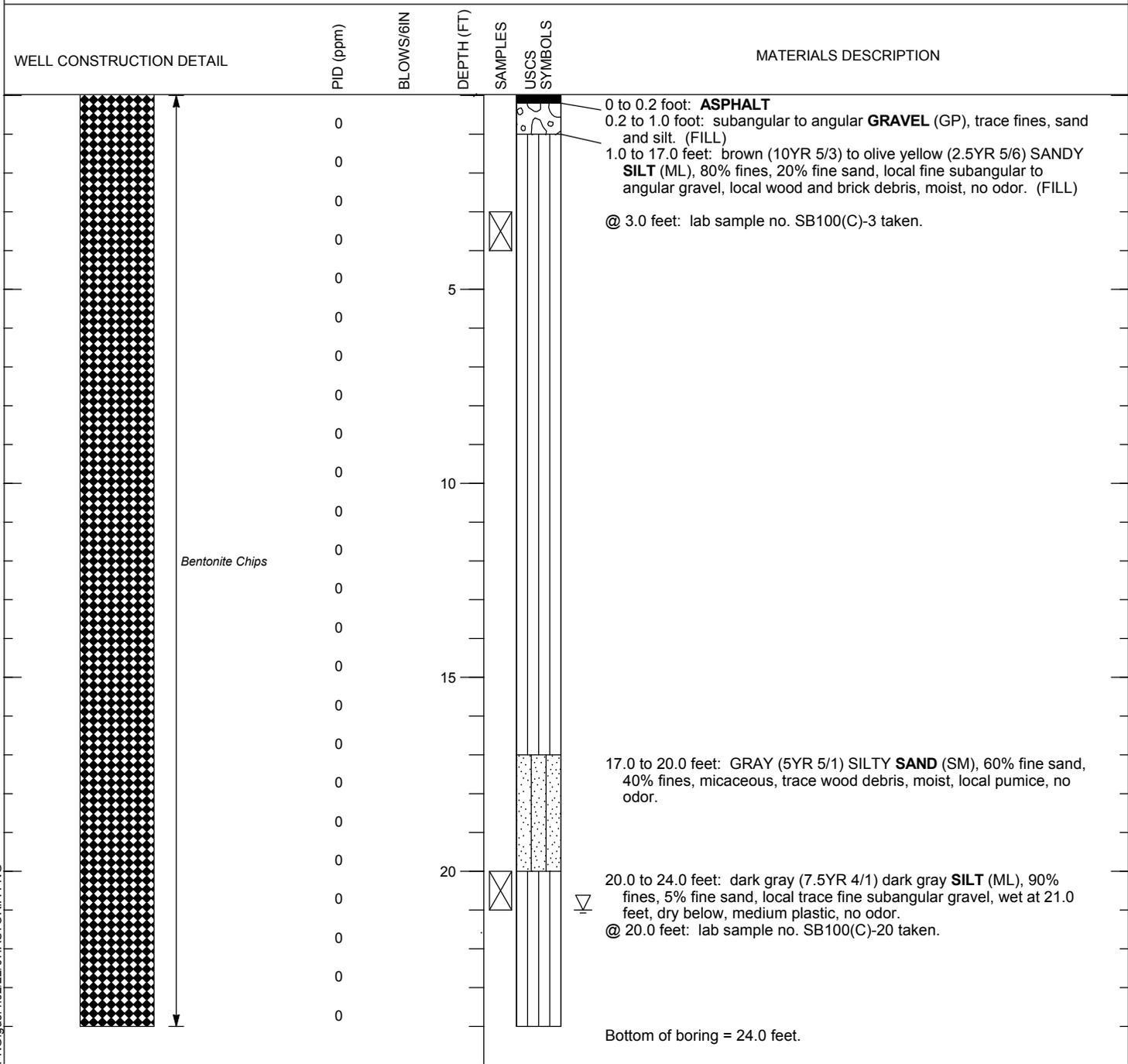
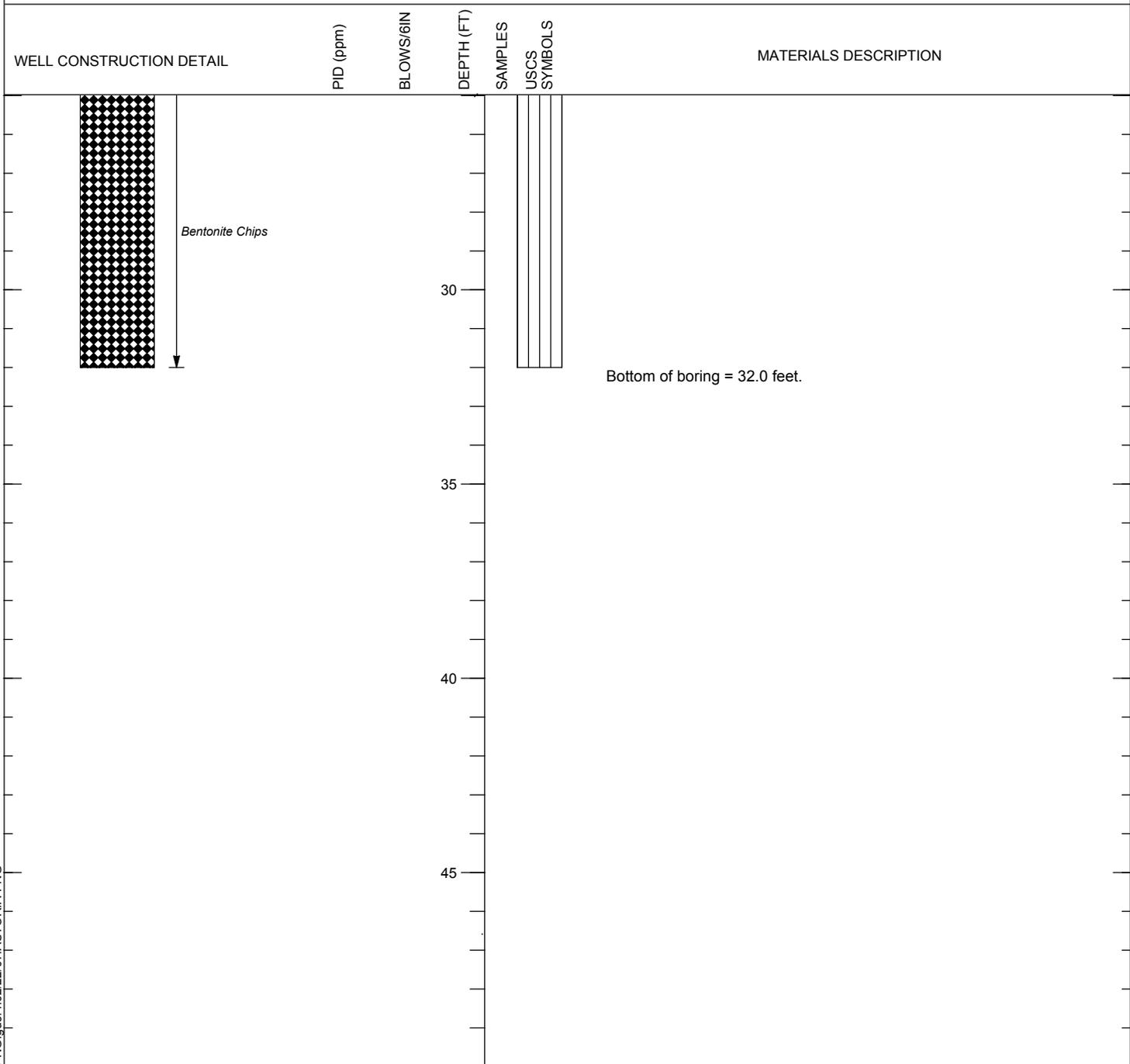


FIGURE B-31

LOG OF SOIL BORING SB-100 (C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Youngs Bay Texaco, Former Chevron Station 9-5872	TOTAL DEPTH	32 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002



PNG.gds:4.02/22/07.ASTORIA-PNG

FIGURE B-33

LOG OF SOIL BORING SB-102 (C)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT	Youngs Bay Texaco, Former Chevron Station 9-5872	TOTAL DEPTH	20 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

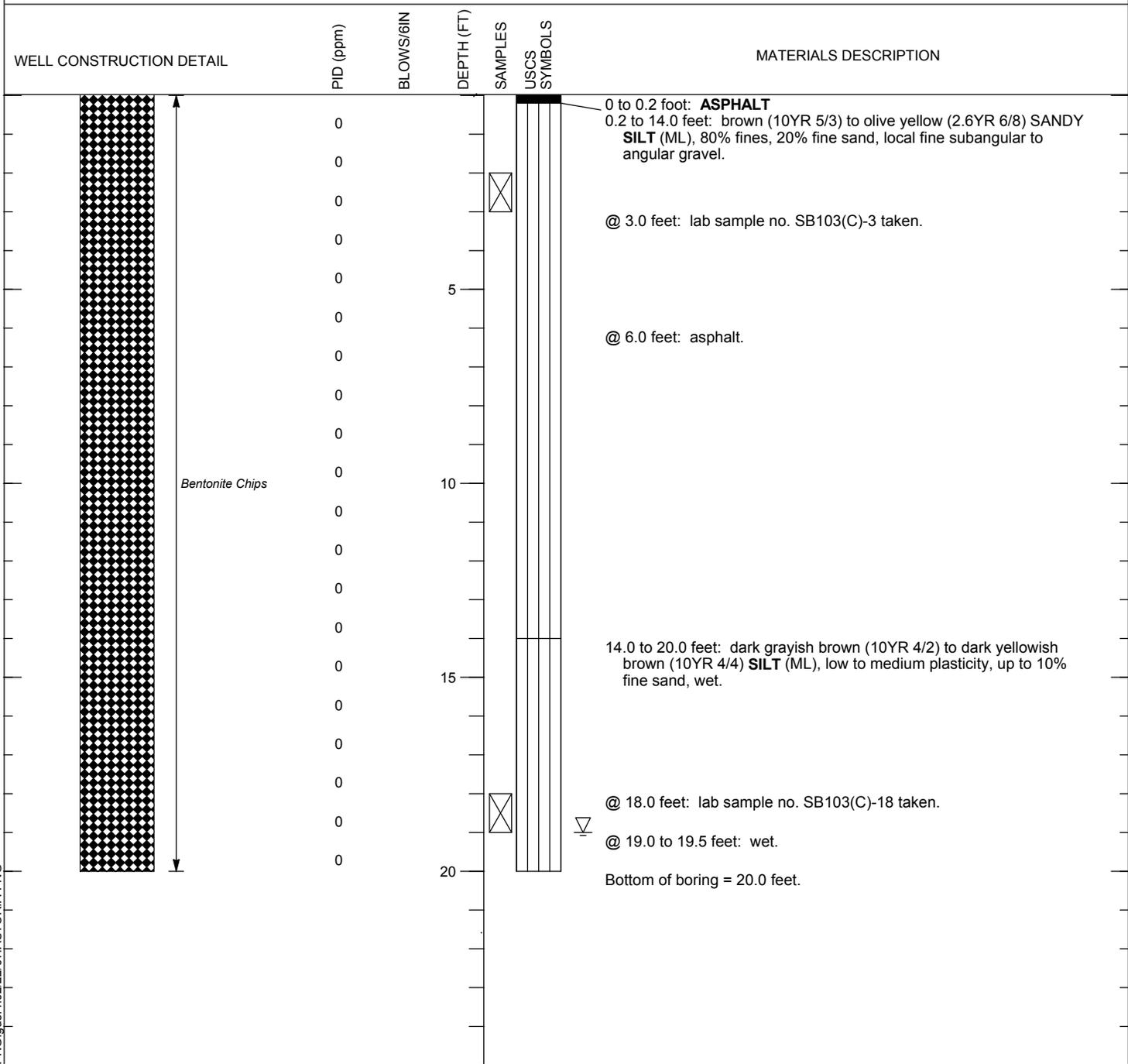
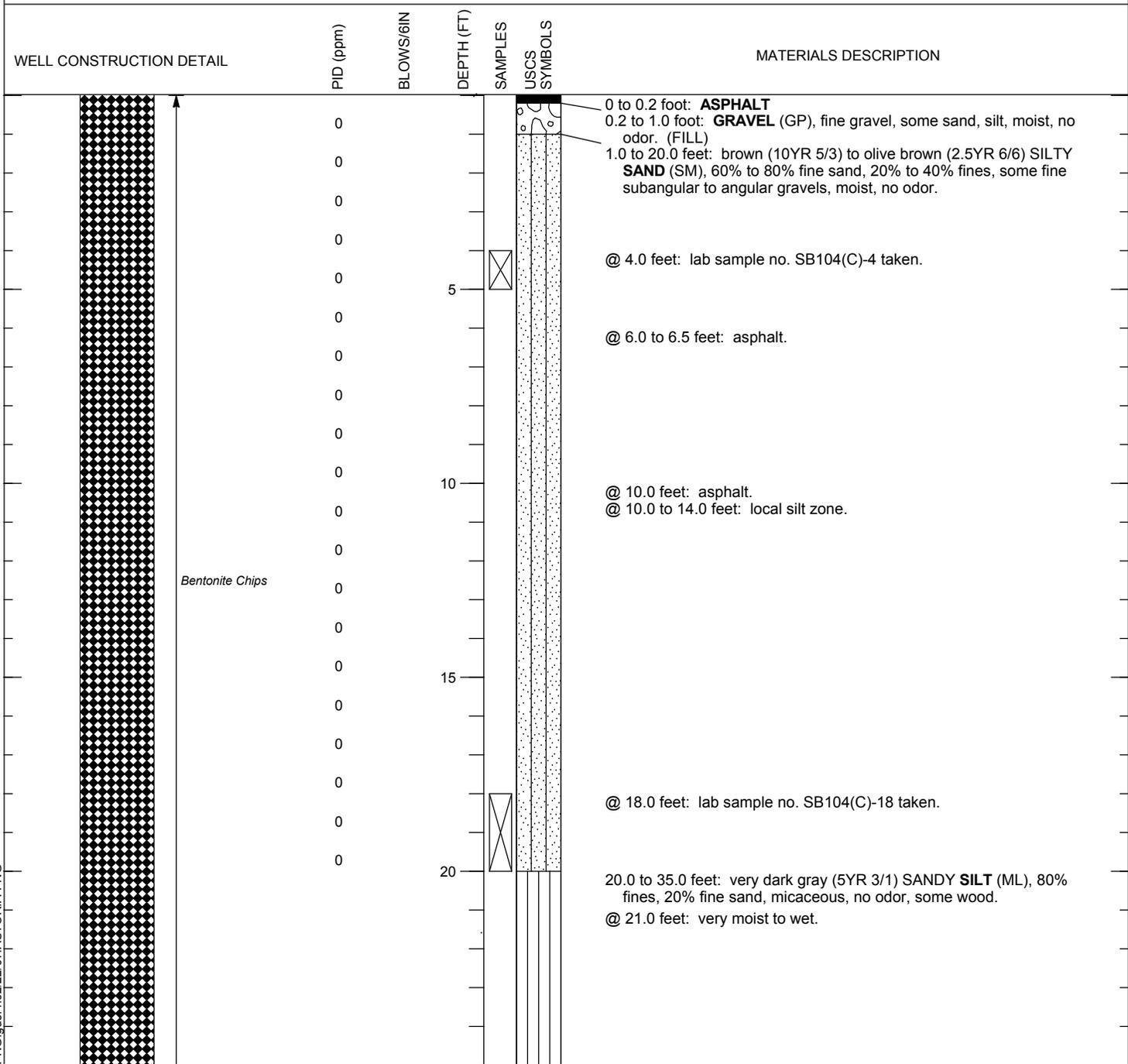


FIGURE B-34

LOG OF SOIL BORING SB-103 (C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Youngs Bay Texaco, Former Chevron Station 9-5872	TOTAL DEPTH	35 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/20/2002



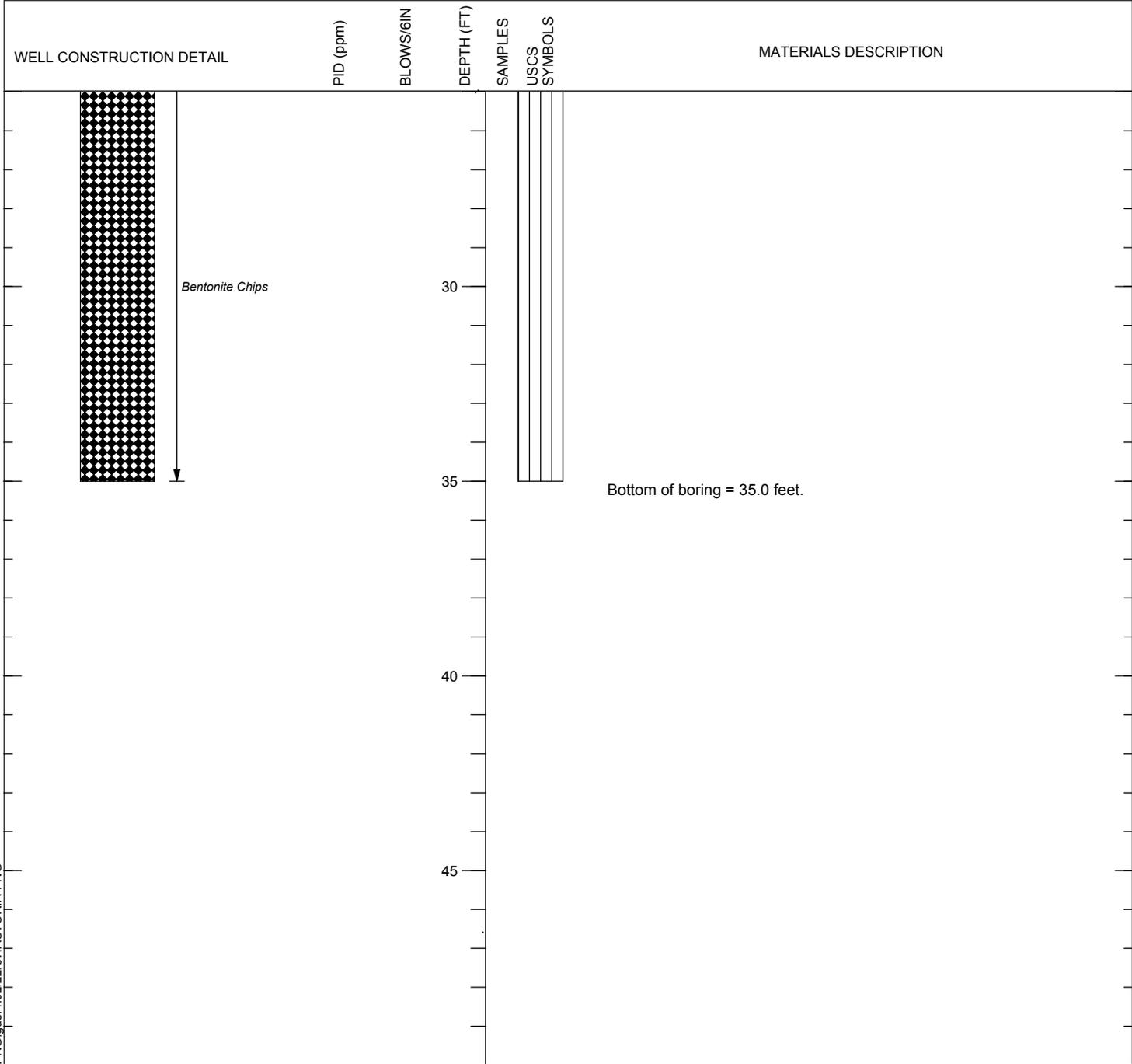
(Continued)

FIGURE B-35

**LOG OF
SOIL BORING SB-104 (C)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**

PROJECT	Youngs Bay Texaco, Former Chevron Station 9-5872	TOTAL DEPTH	35 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/20/2002



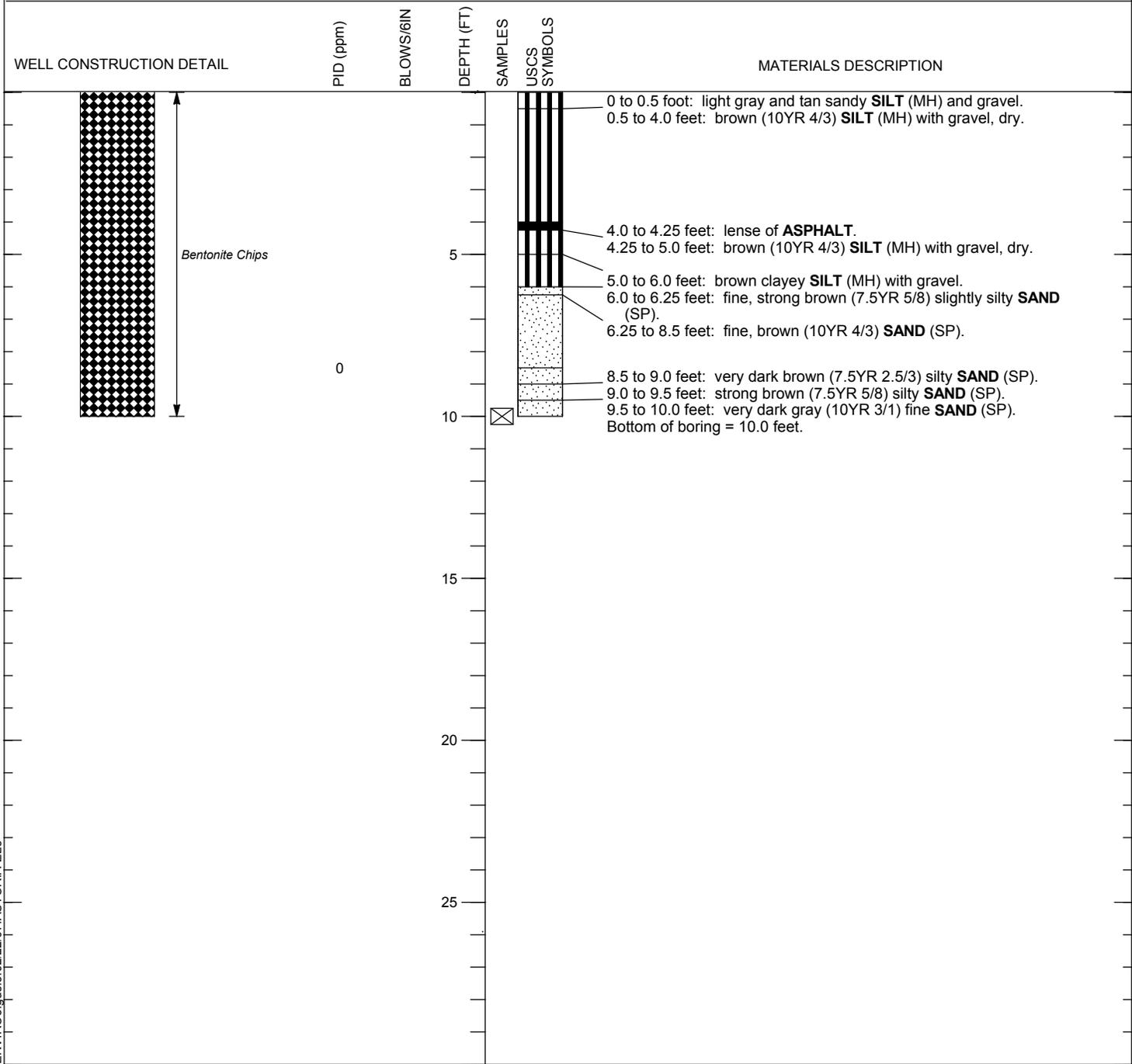
PNG.gds:4.02/22/07.ASTORIA.PNG

FIGURE B-35

**LOG OF
SOIL BORING SB-104 (C)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	10 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



ENVIRO3.gds:3.02/22/07.ASTORIA-EL3

FIGURE B-36

**LOG OF
SOIL BORING SB-105(C)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Former McCall Oil Terminal, Former Chevron Terminal 206195	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

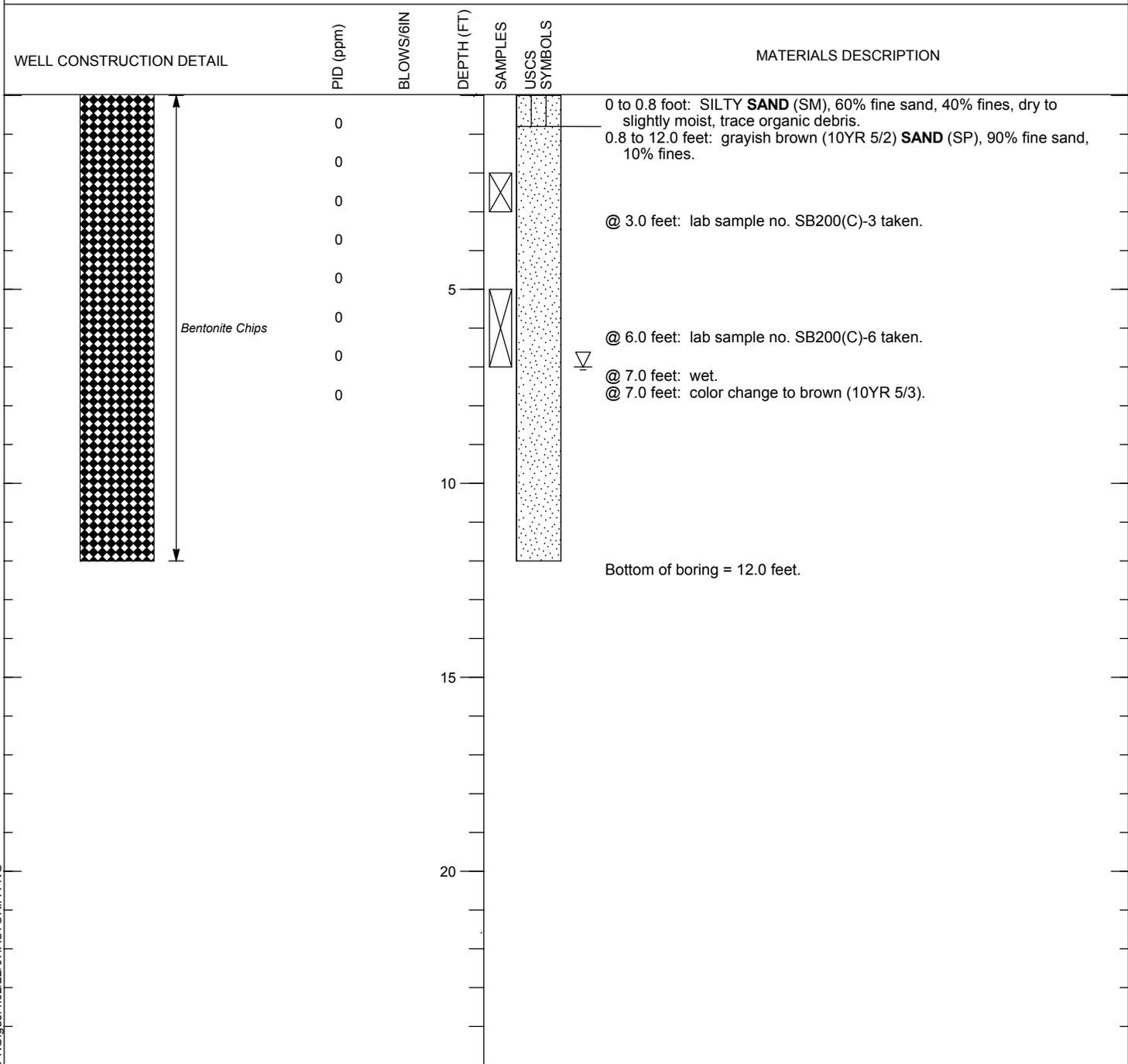


FIGURE B-37

LOG OF SOIL BORING SB-200 (C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Former McCall Oil Terminal, Former Chevron Terminal 206195	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

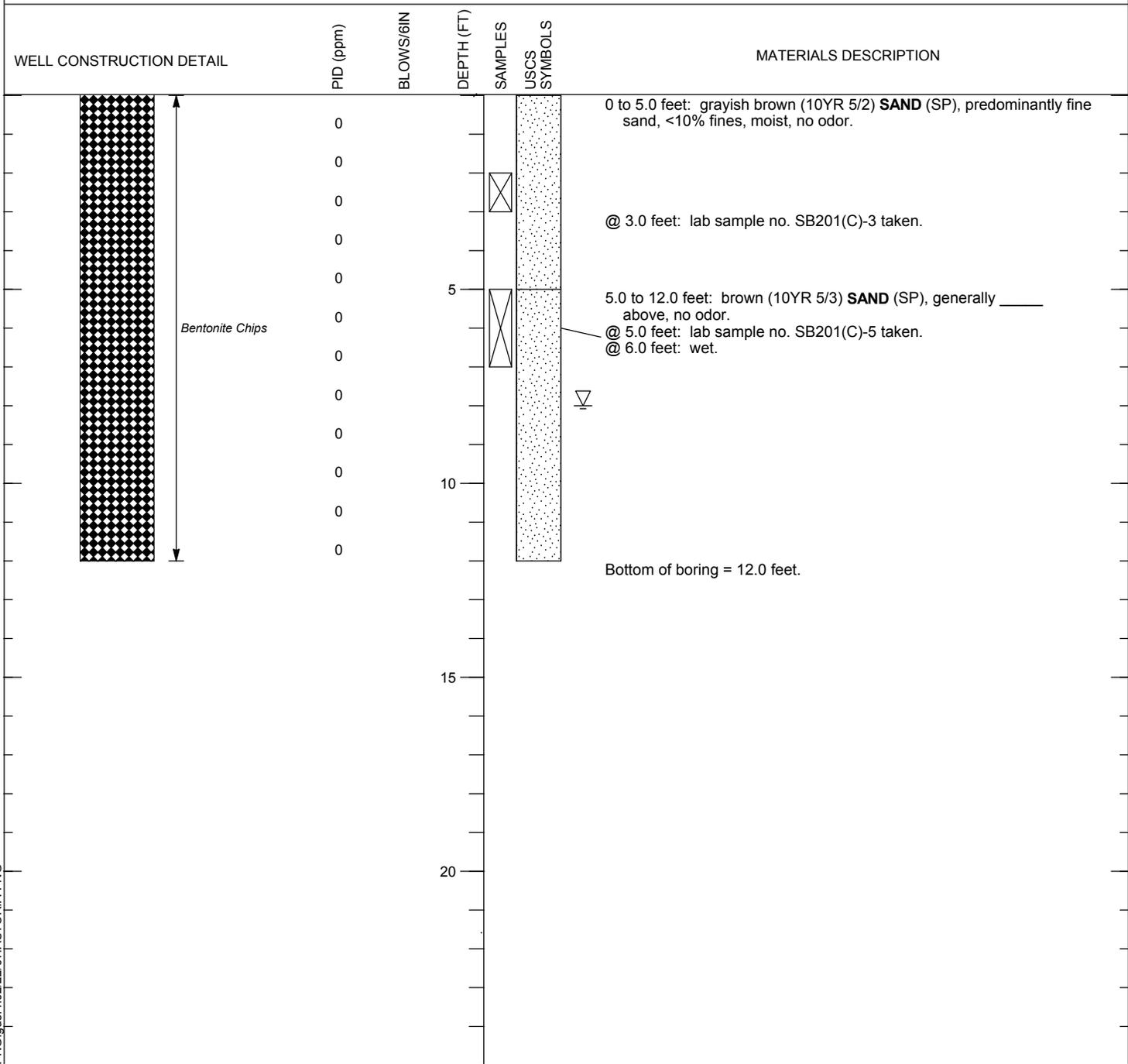


FIGURE B-38

LOG OF
SOIL BORING SB-201 (C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Former McCall Oil Terminal, Former Chevron Terminal 206195	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

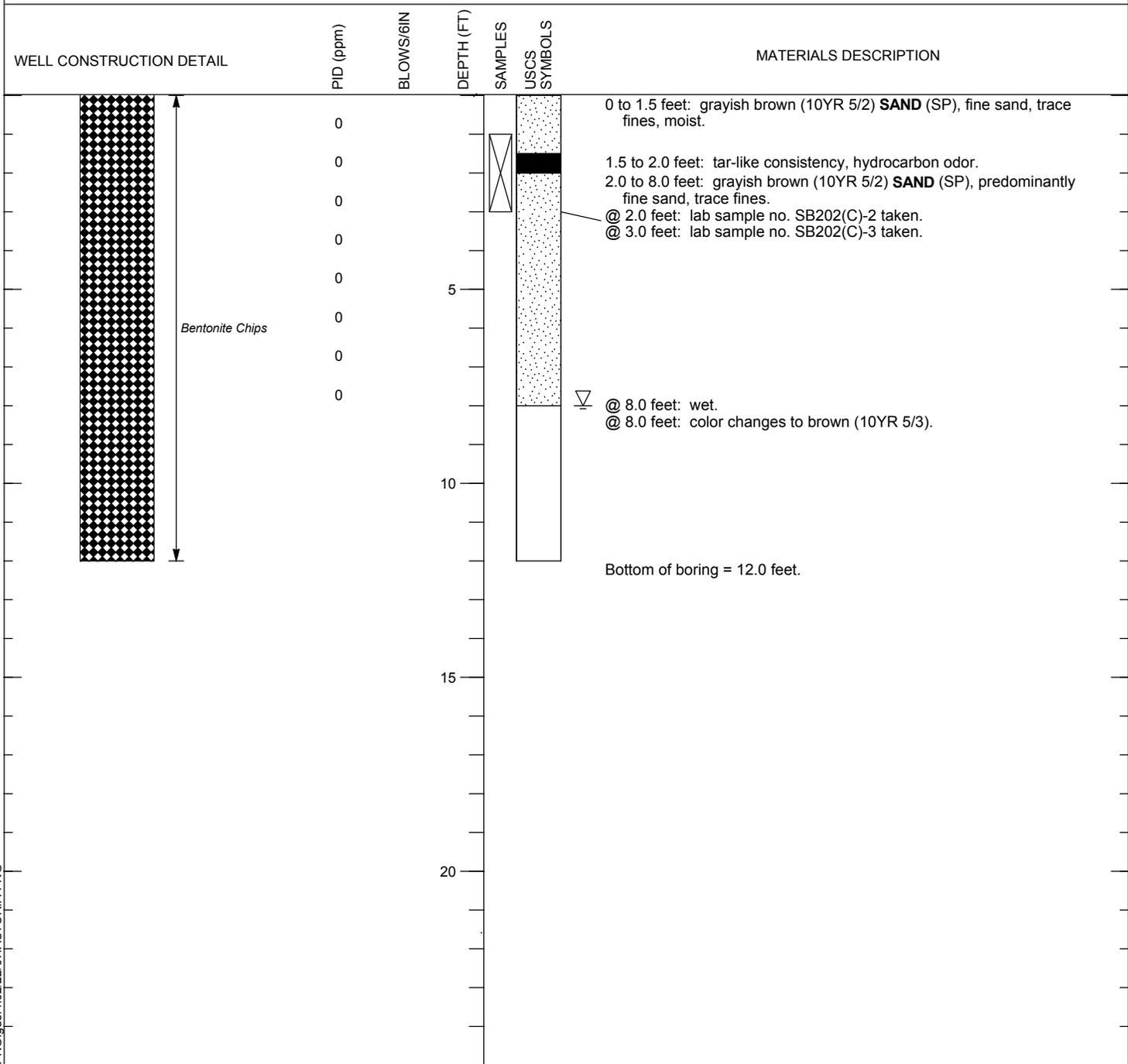


FIGURE B-39

LOG OF SOIL BORING SB-202 (C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Former McCall Oil Terminal, Former Chevron Terminal 206195	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

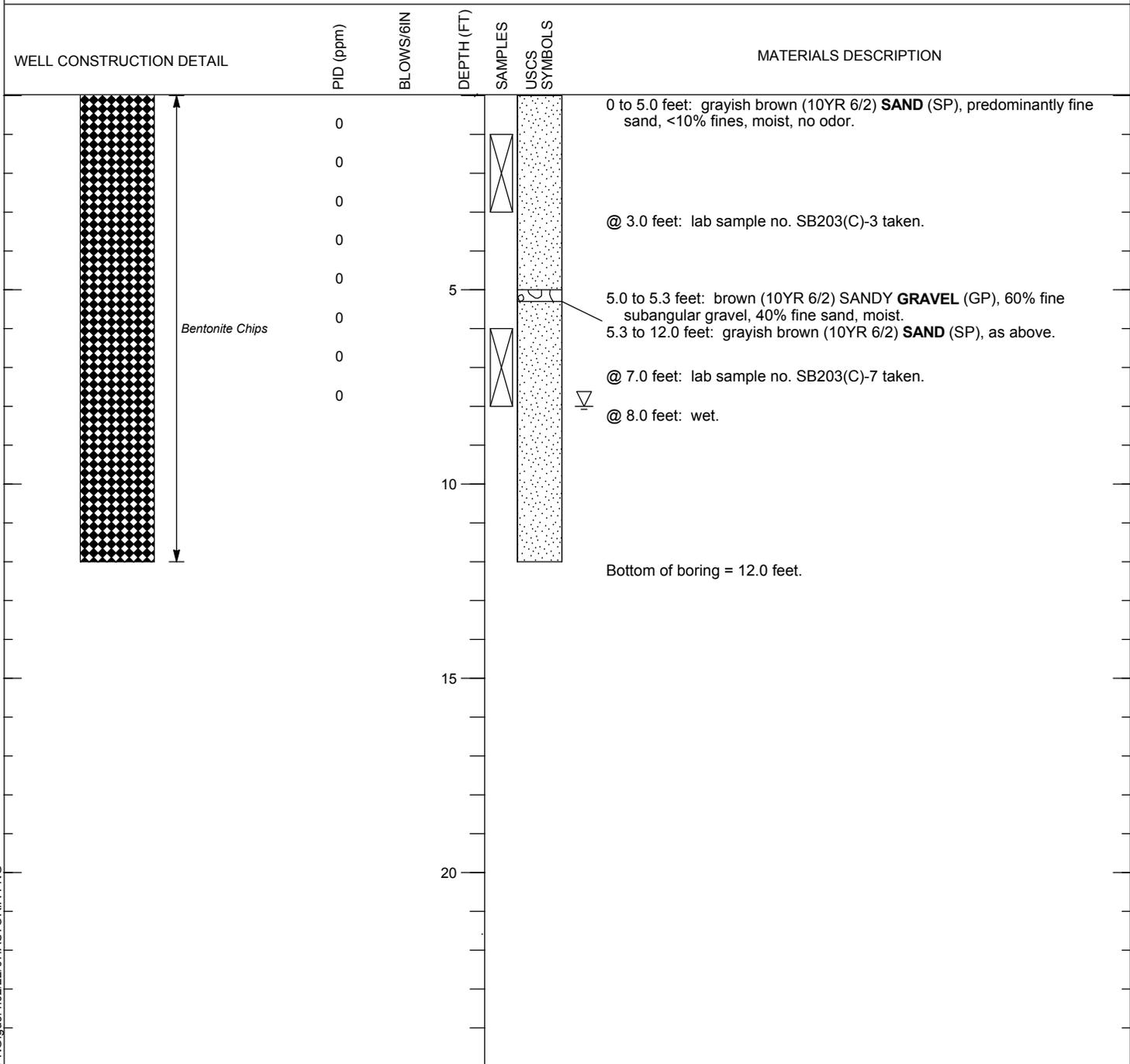
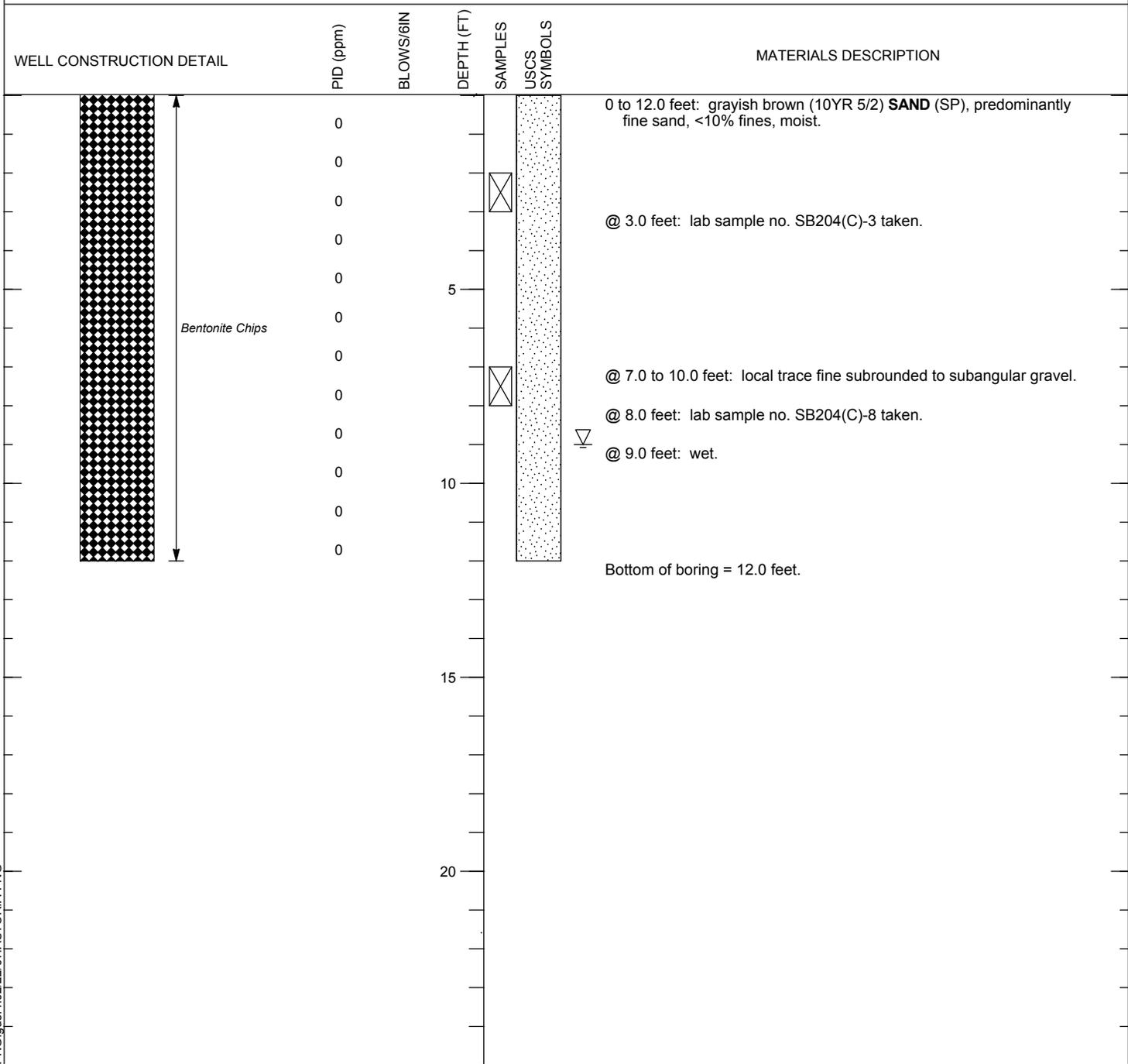


FIGURE B-40

LOG OF SOIL BORING SB-203 (C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Former McCall Oil Terminal, Former Chevron Terminal 206195	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	C. Hultgren	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002



PNG.gds:4.02/22/07.ASTORIA.PNG

FIGURE B-41
LOG OF
SOIL BORING SB-204 (C)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/4/2003

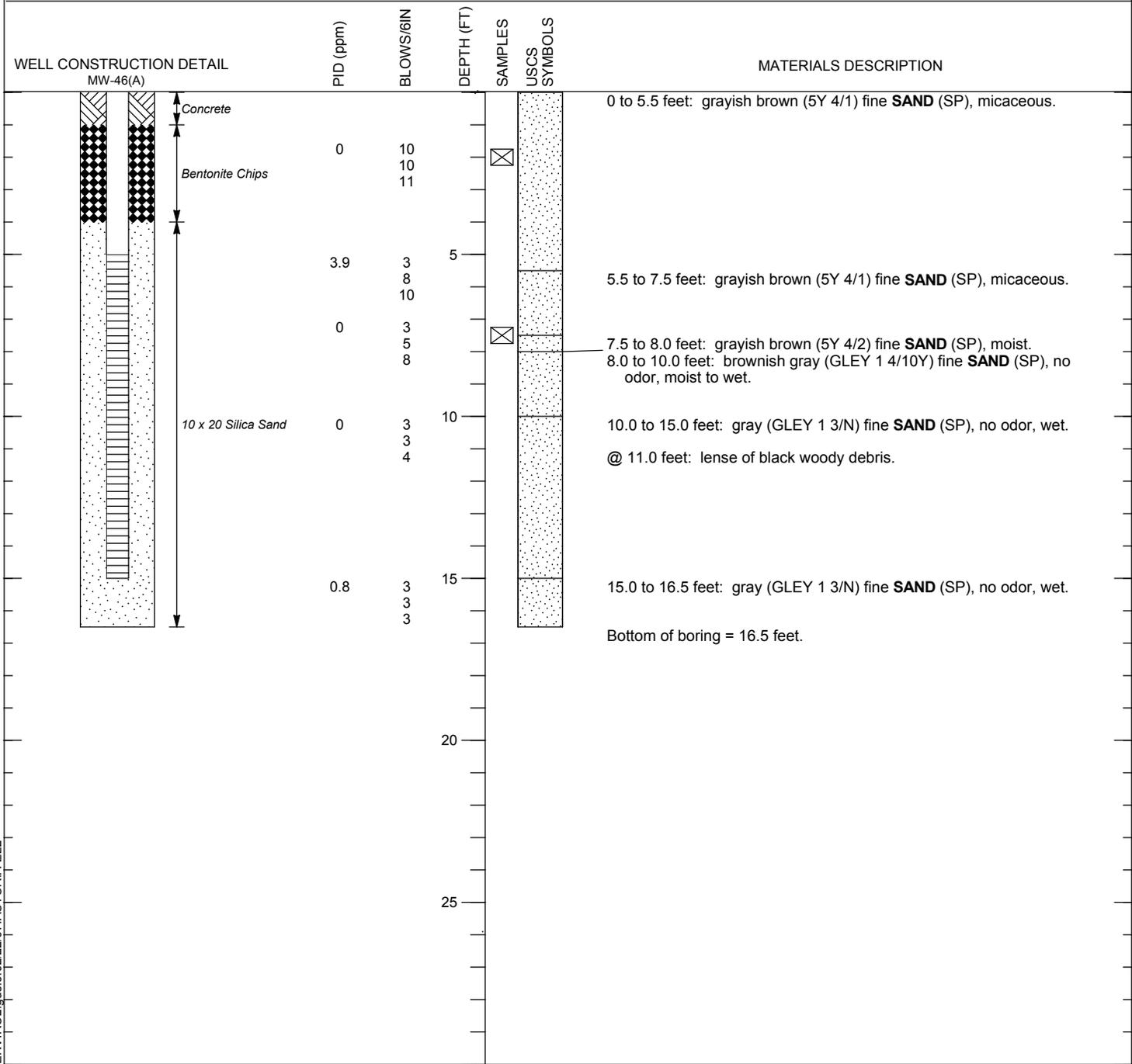


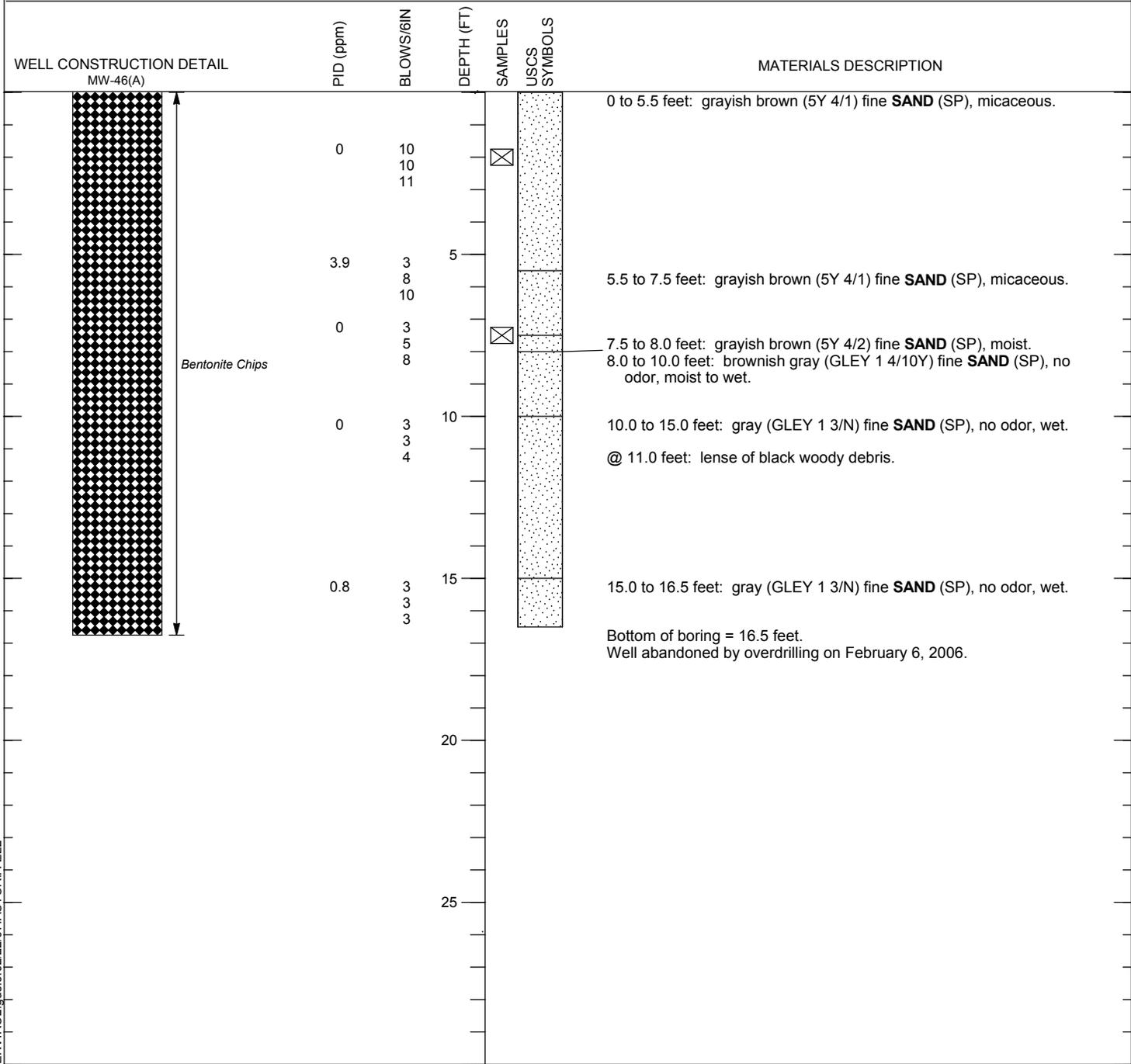
FIGURE B-42

LOG OF
SOIL BORING SB-253(C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/4/2003



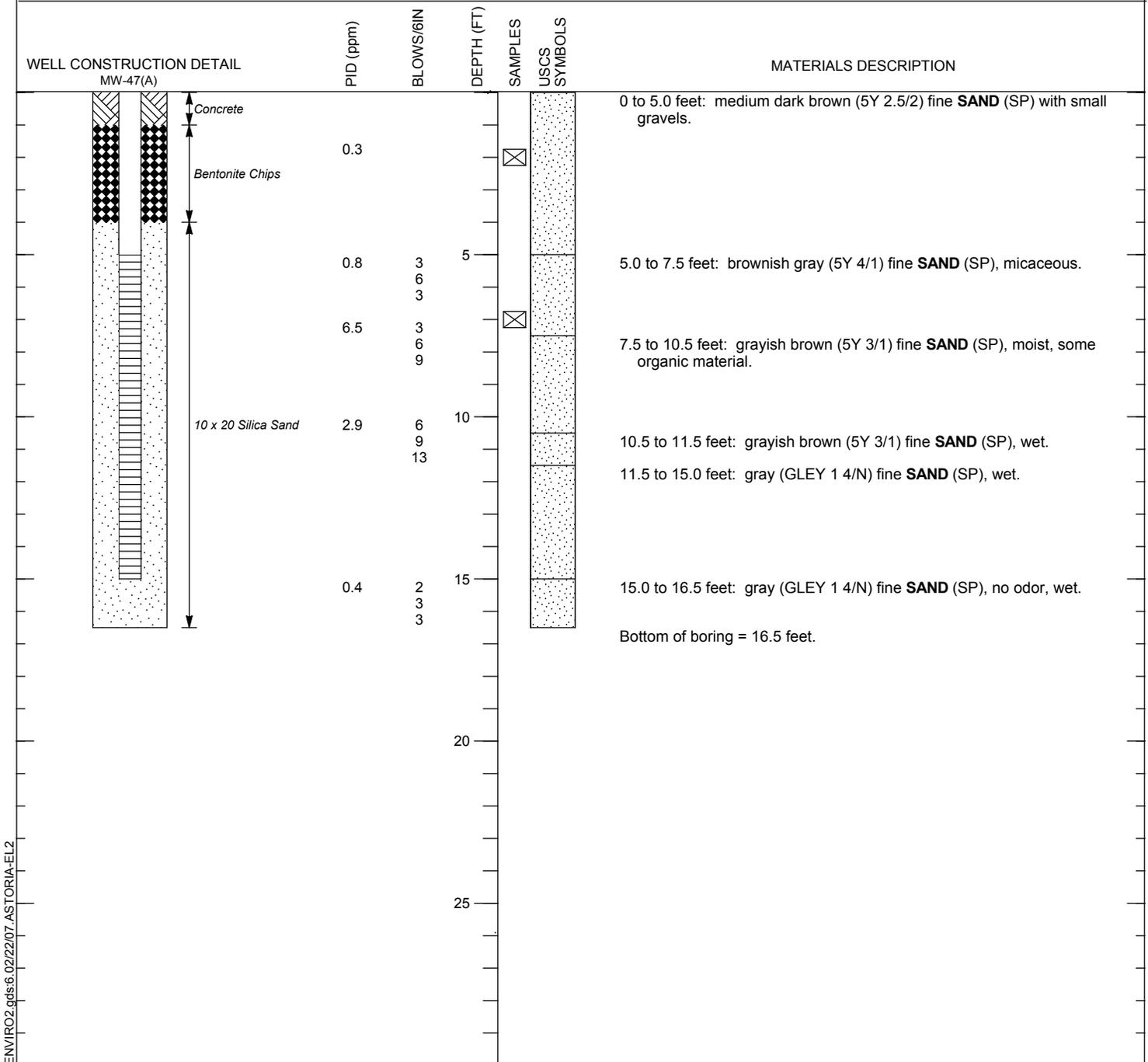
ENVIRO2.qds:6.02/22/07.ASTORIA-EL2

FIGURE B-43
LOG OF
SOIL BORING SB-253(C) rev
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16.5 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 9/4/2003



ENVIRO2.qds:6.02/22/07.ASTORIA-EL2

FIGURE B-44
LOG OF
SOIL BORING SB-254(C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/4/2003

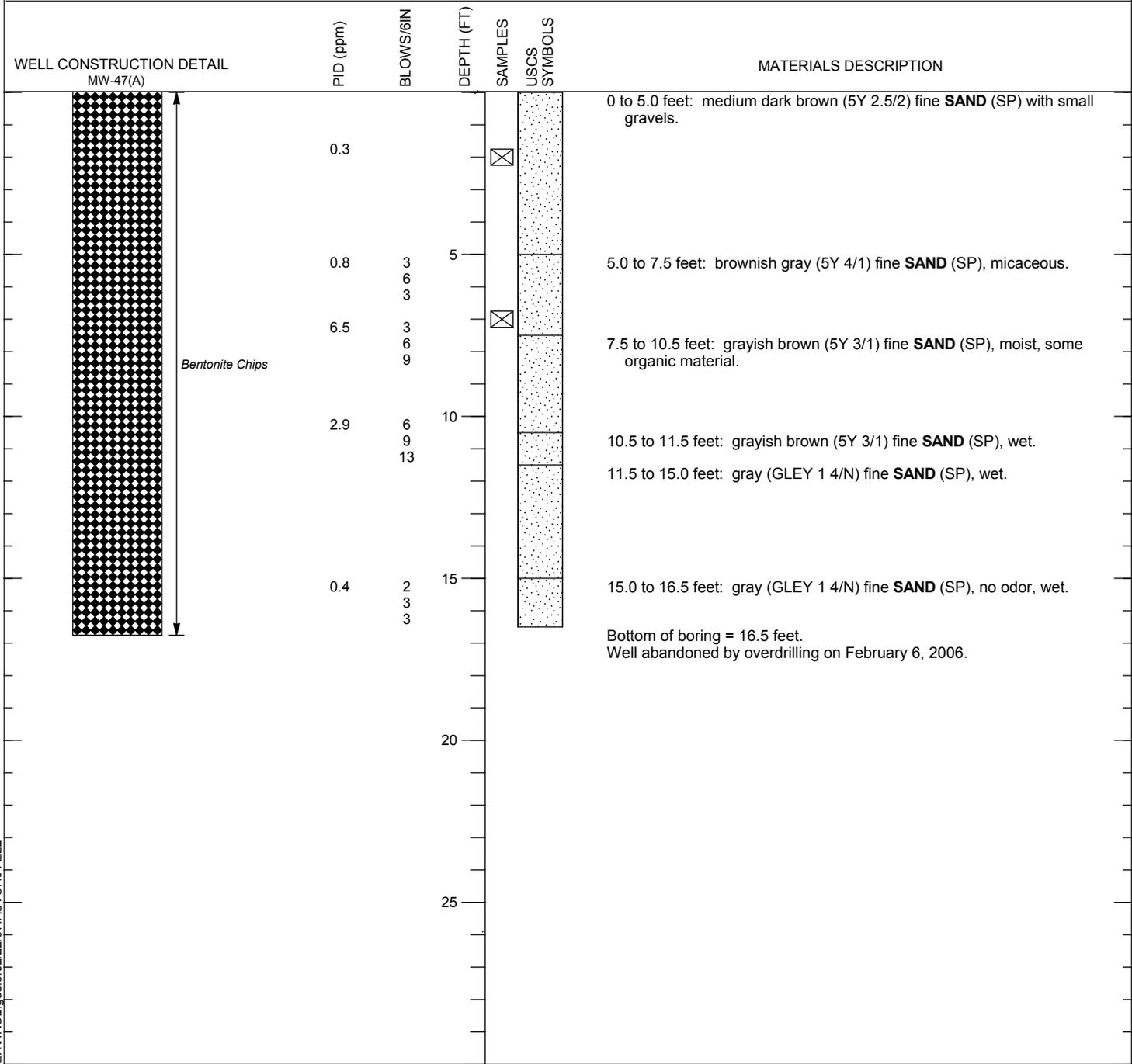


FIGURE B-45
LOG OF
SOIL BORING SB-254(C) rev

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16.5 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 9/4/2003

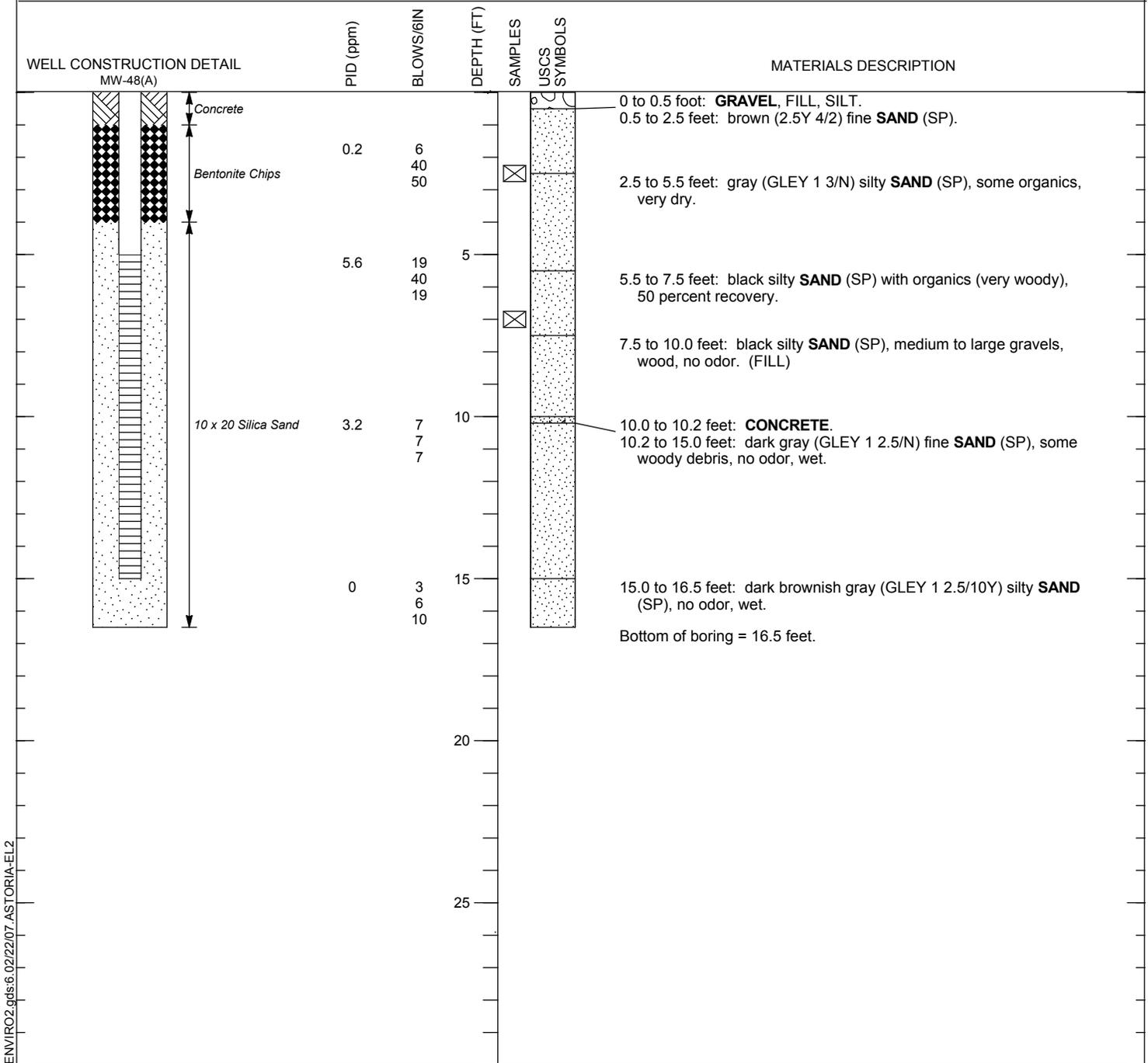
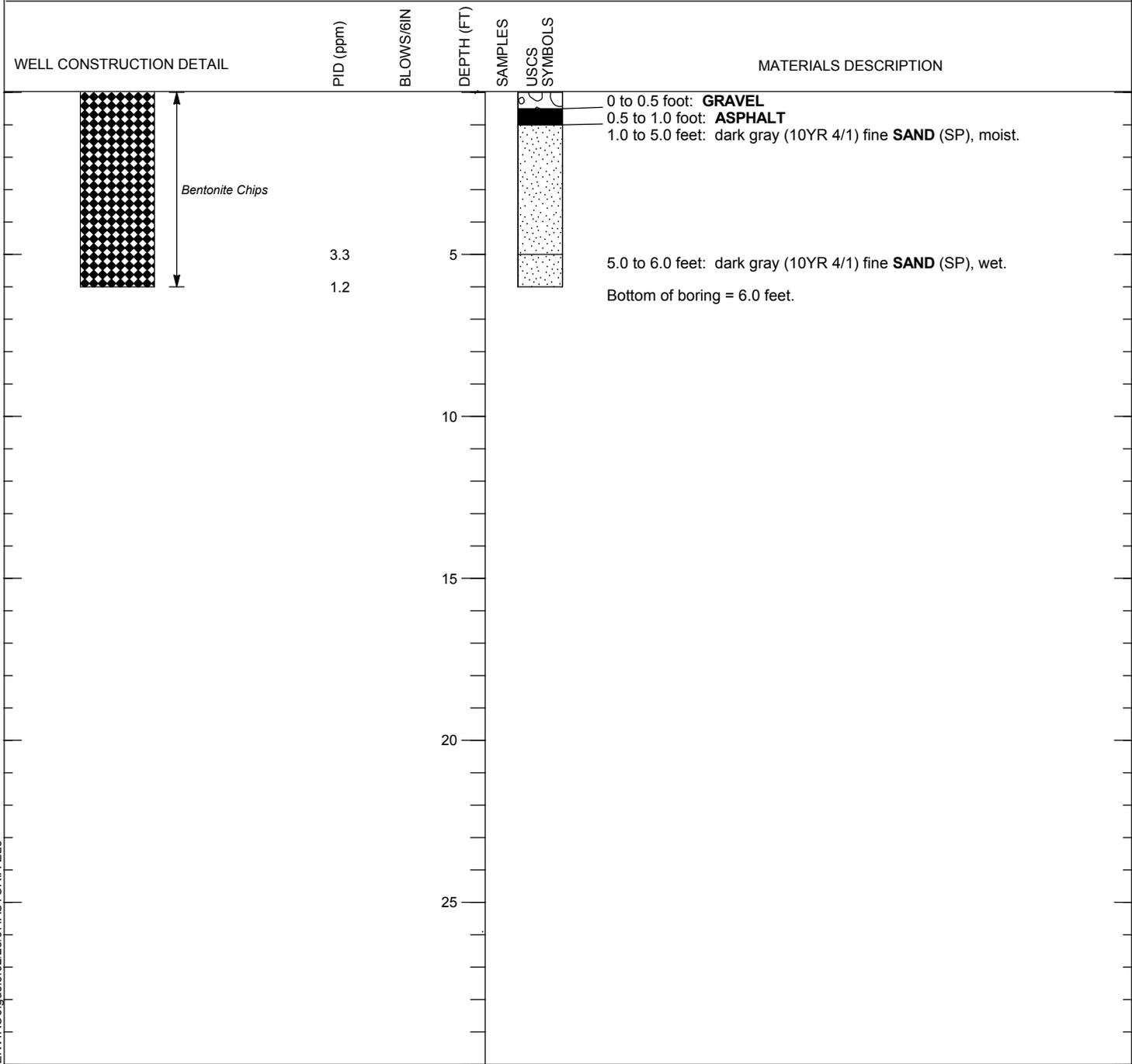


FIGURE B-46
LOG OF
SOIL BORING SB-255(C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	6 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



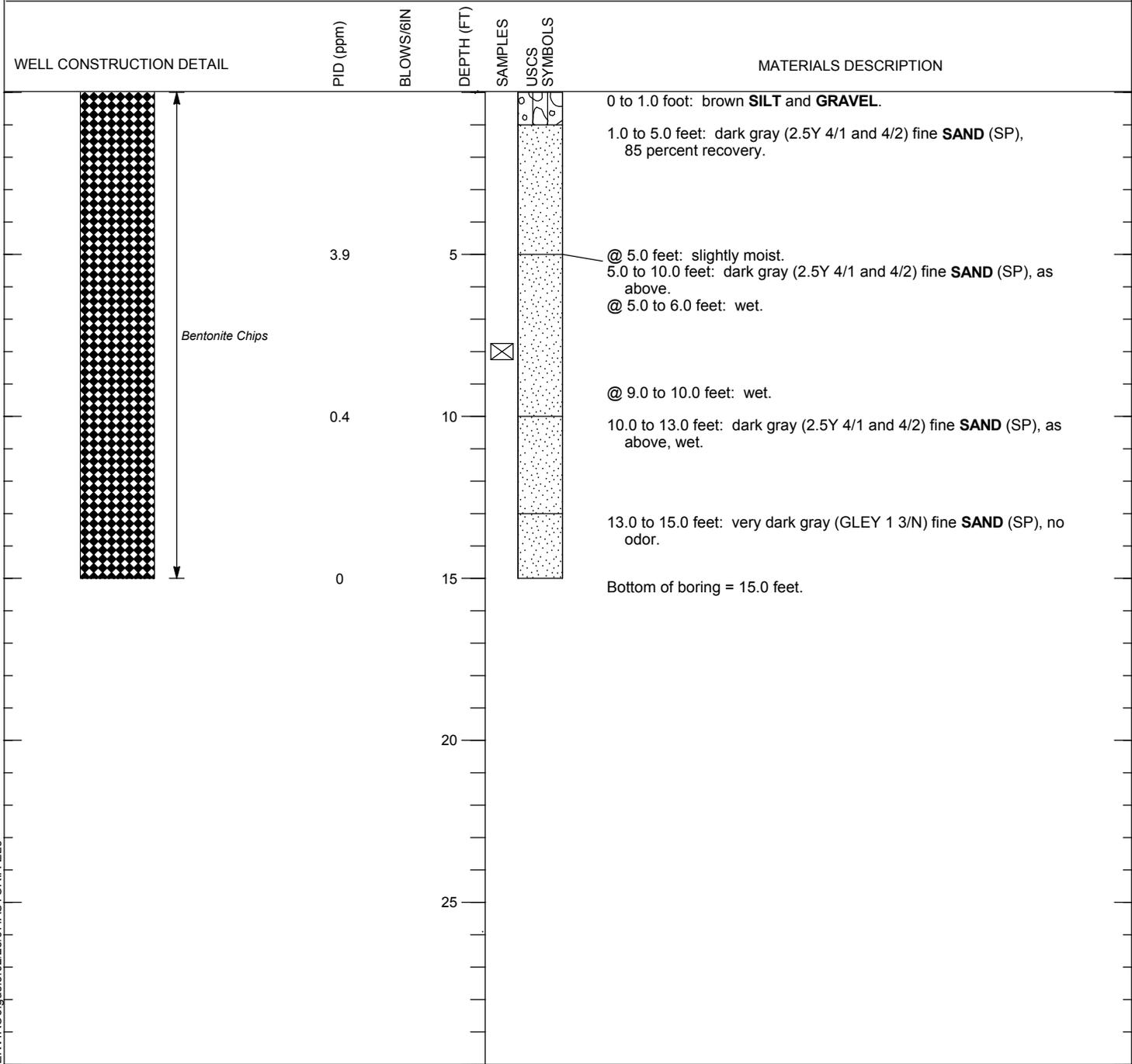
ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

FIGURE B-48
LOG OF
SOIL BORING SB-256(C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



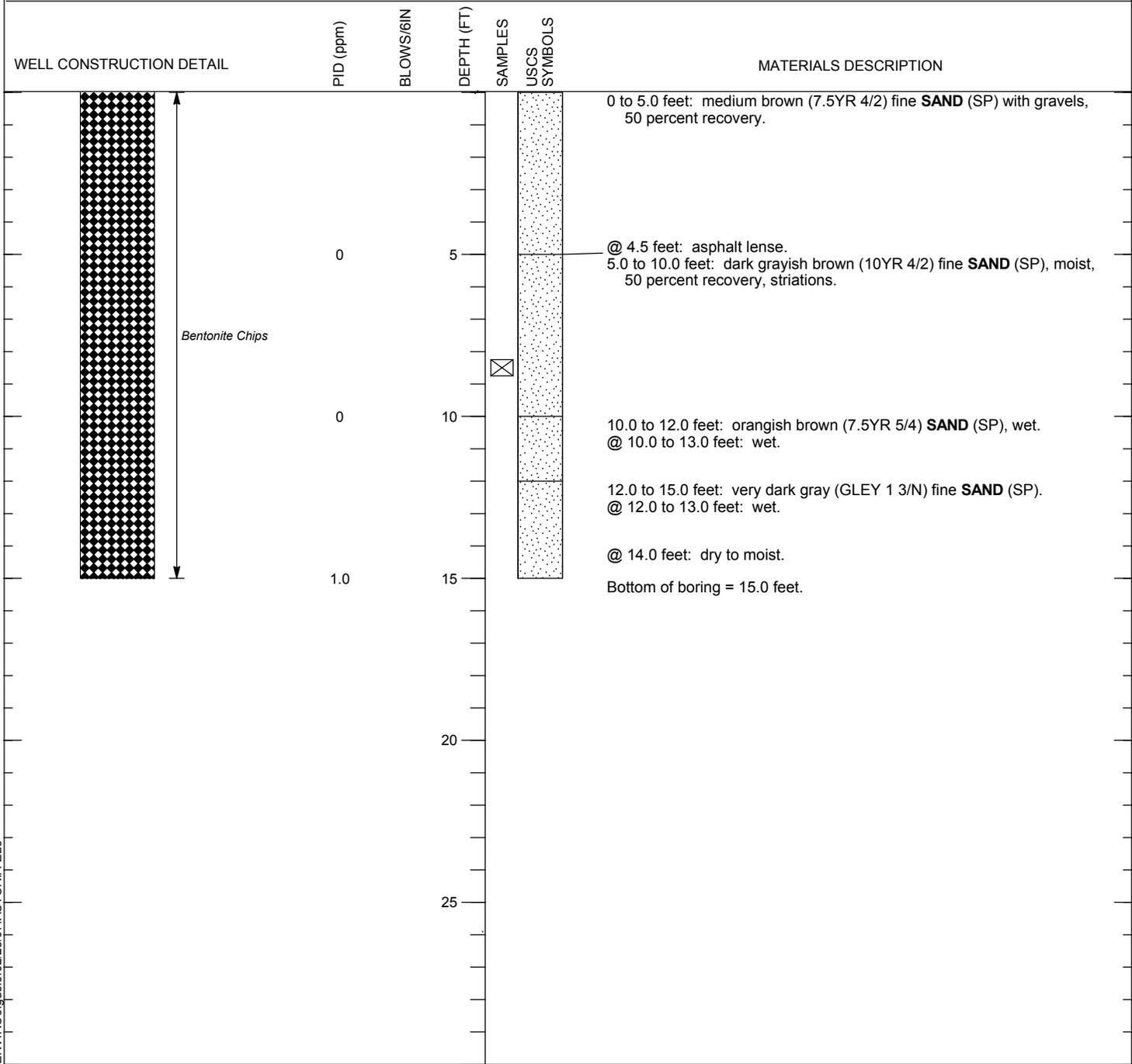
ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

FIGURE B-49
LOG OF
SOIL BORING SB-257(C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



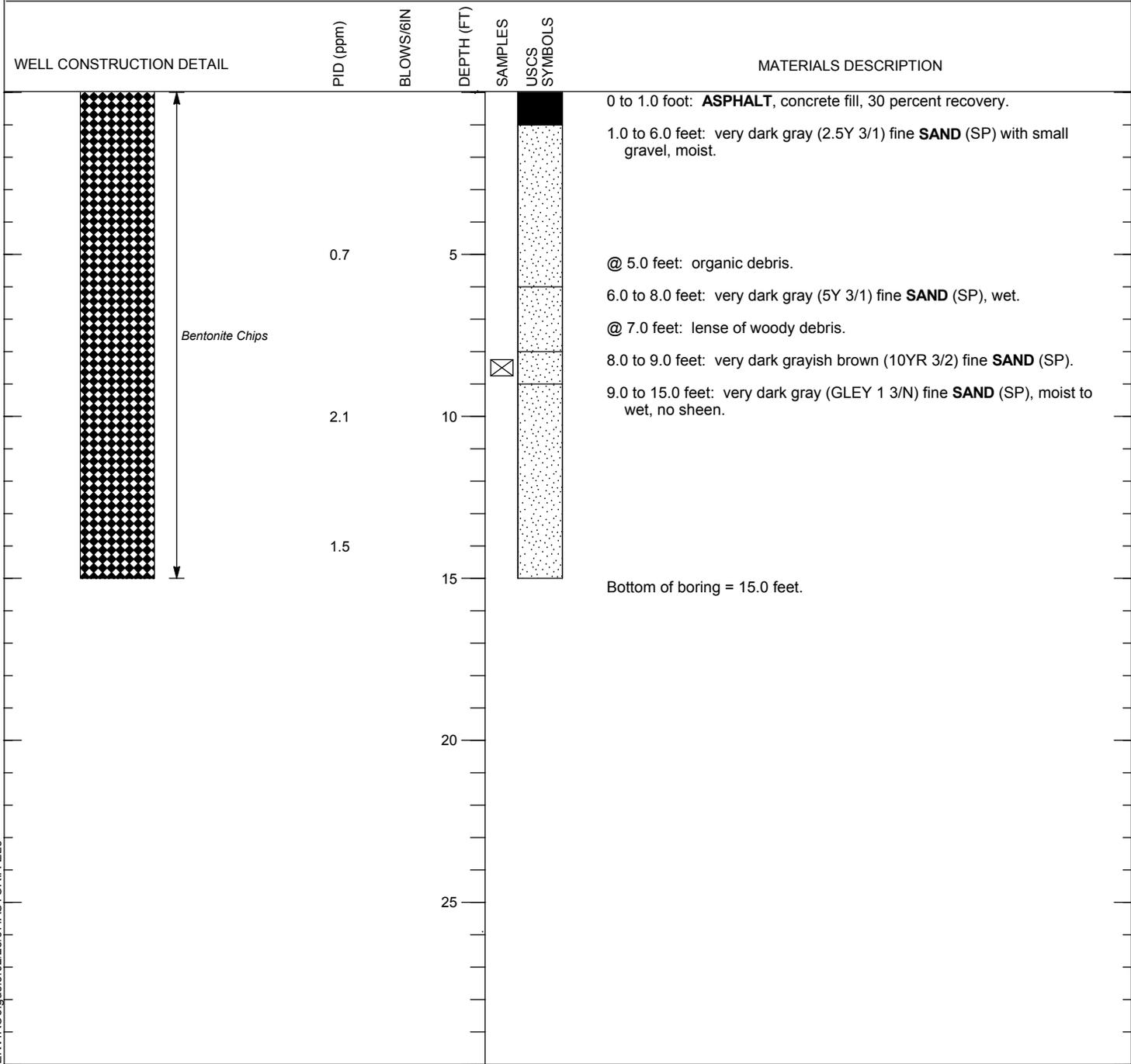
ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

FIGURE B-50
LOG OF
SOIL BORING SB-258(C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

FIGURE B-51
LOG OF
SOIL BORING SB-259(C)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	4 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hand Auger	DATUM	
DRILLING COMPANY	Maul Foster & Alongi	DATE STARTED	8/20/02

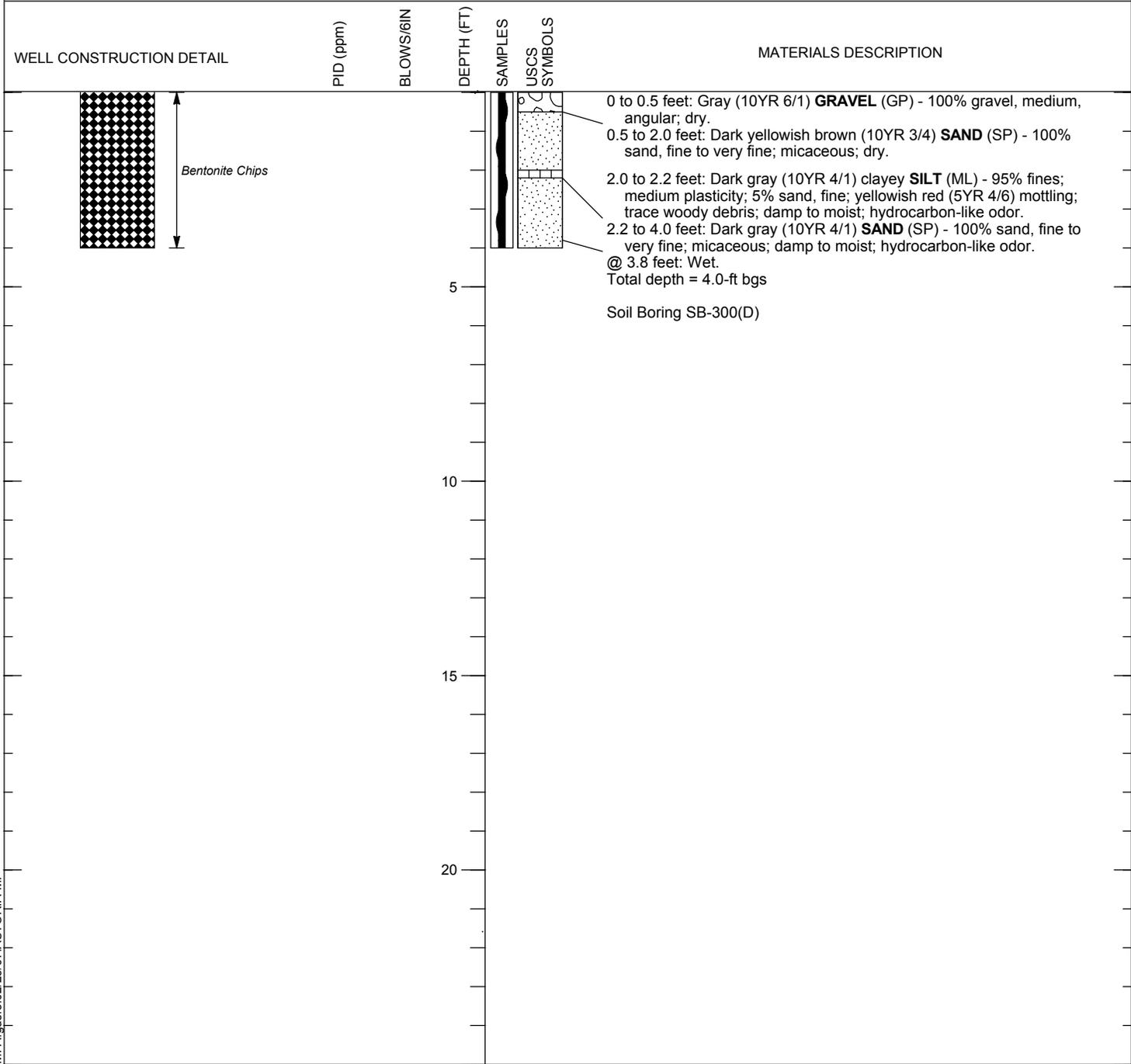


FIGURE B-52

**LOG OF
SB-300 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	4 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hand Auger	DATUM	
DRILLING COMPANY	Maul Foster & Alongi	DATE STARTED	8/20/02

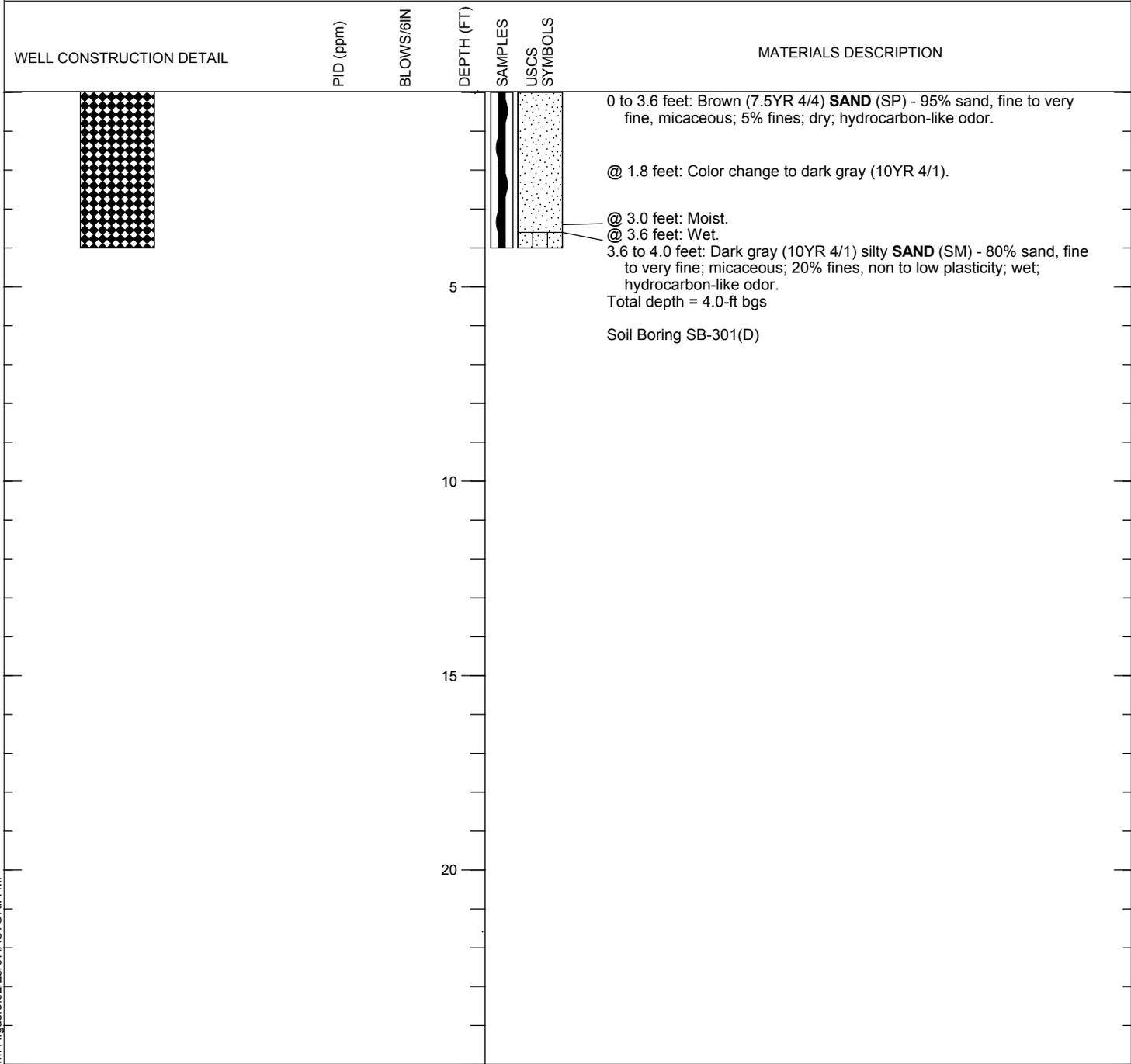


FIGURE B-53

**LOG OF
SB-301 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	11 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02

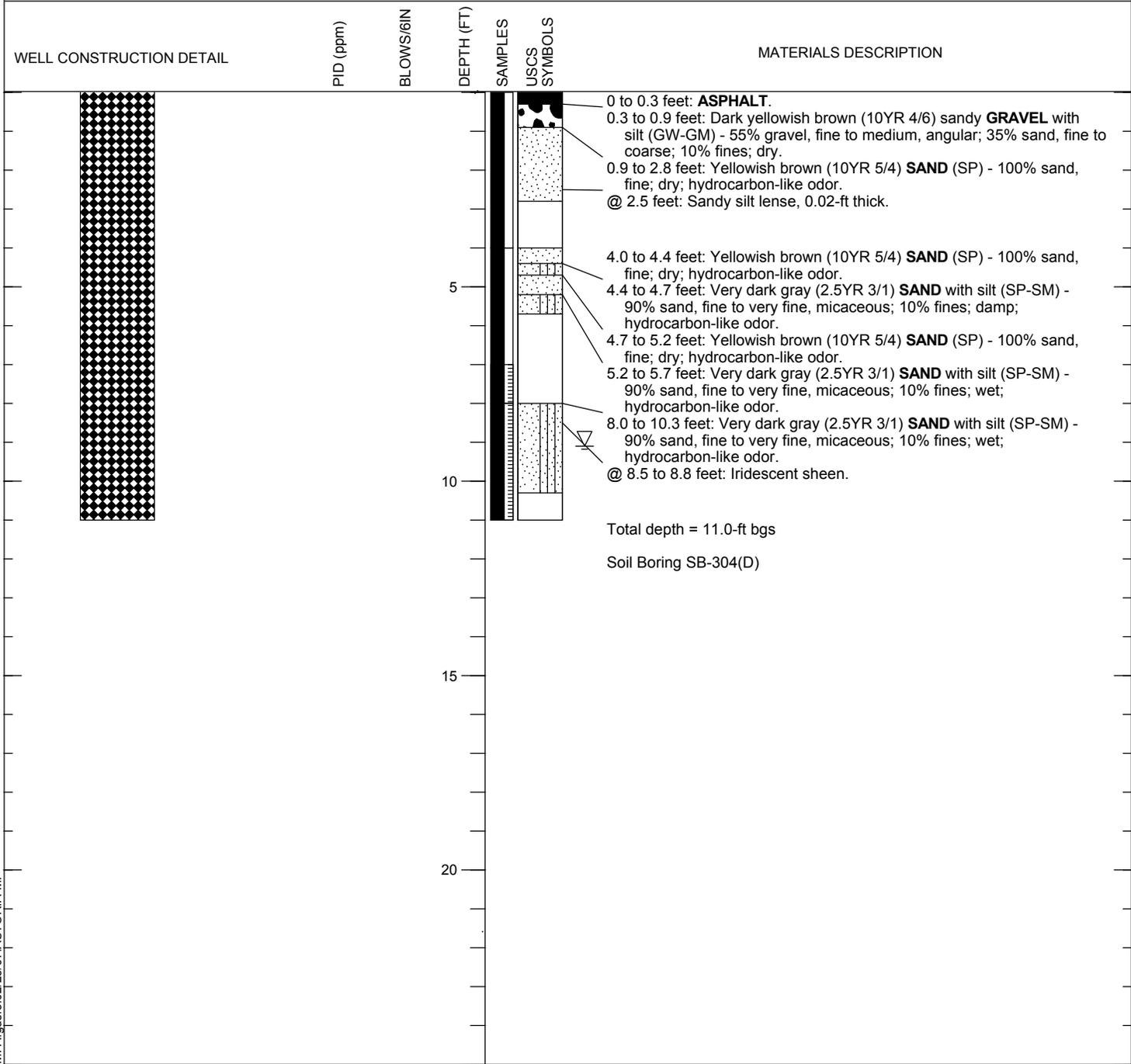


FIGURE B-54

**LOG OF
SB-304 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	11 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02

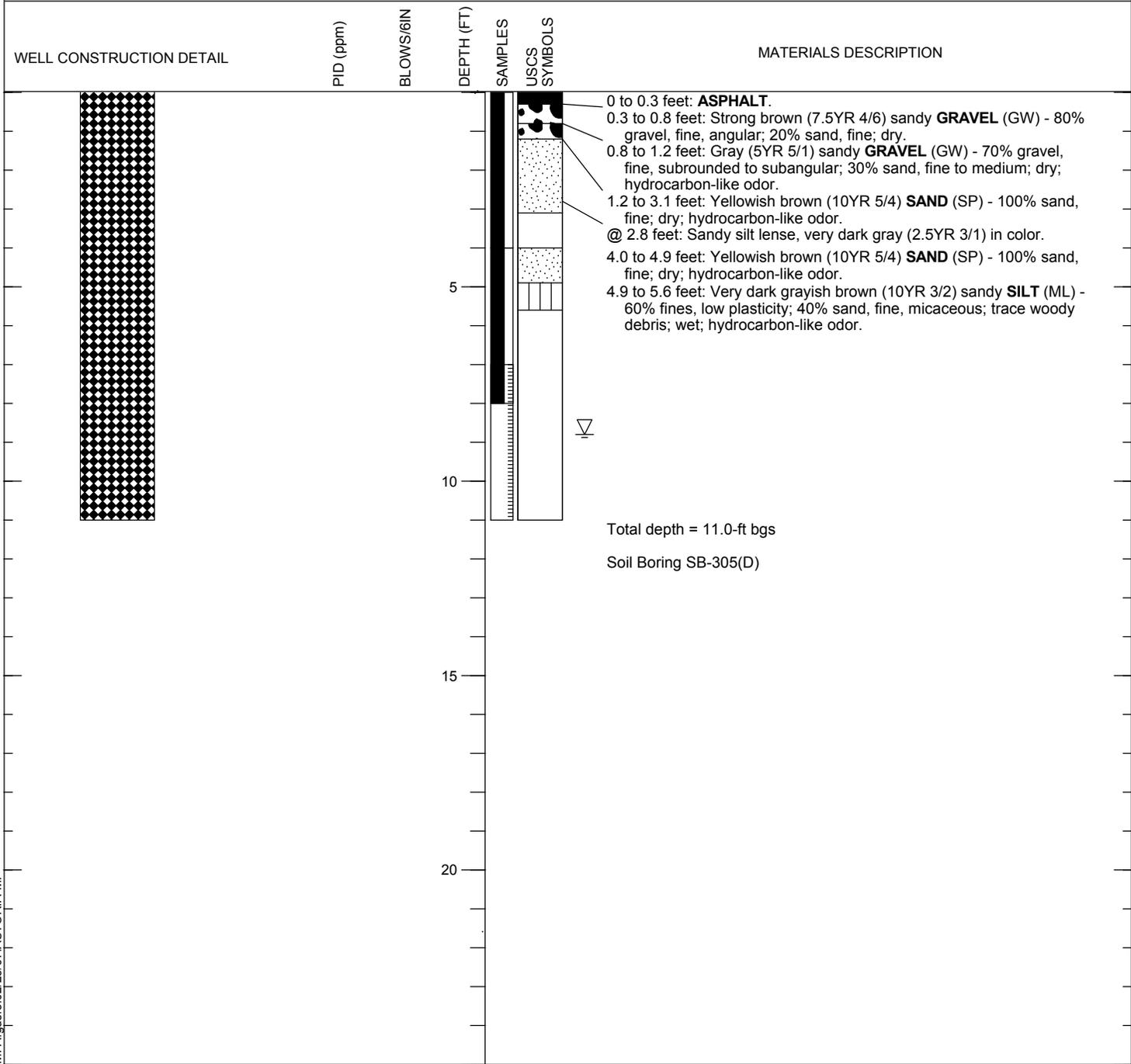


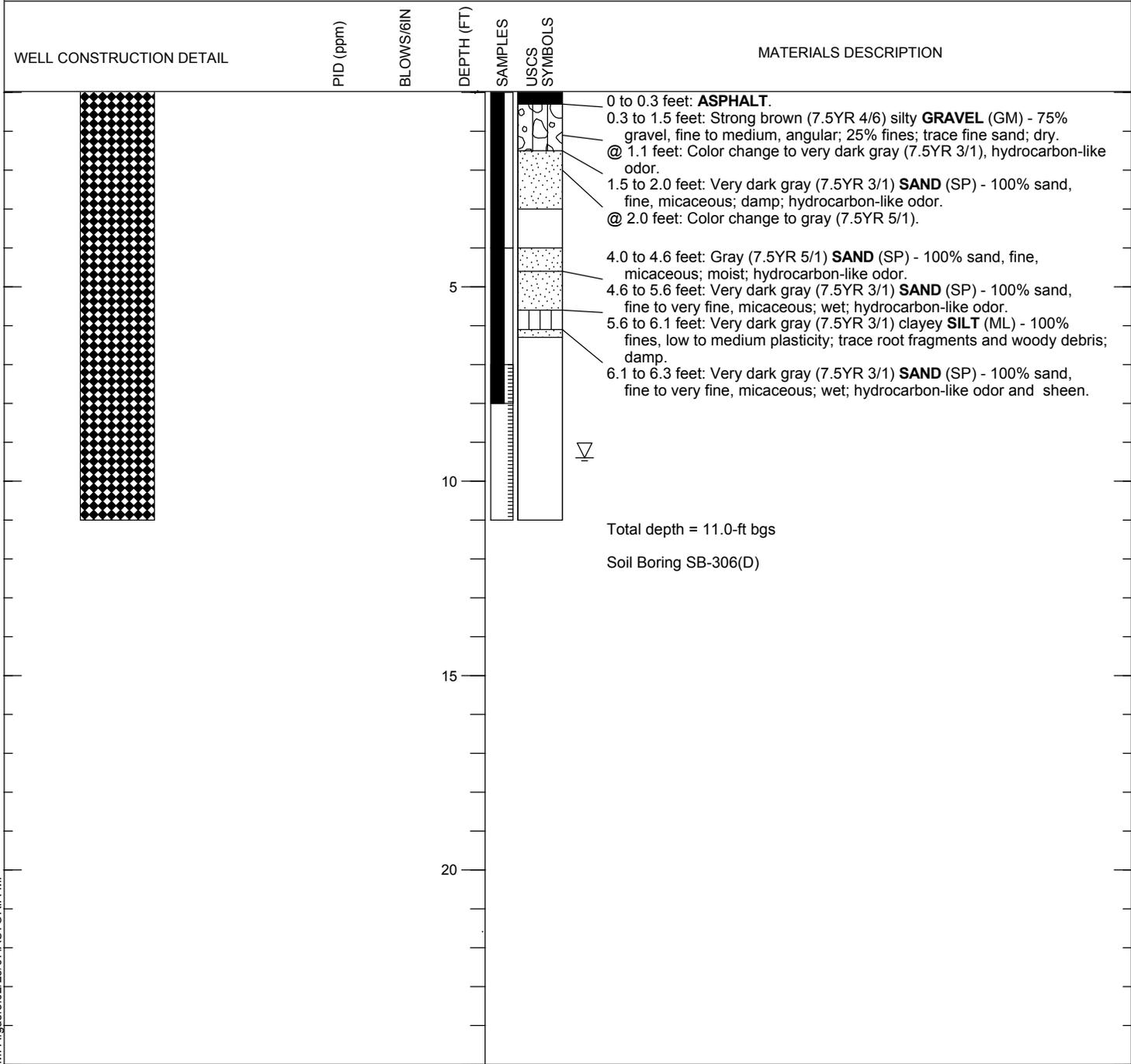
FIGURE B-55

LOG OF
SB-305 (D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	11 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02



MFA_gds:5.02/28/07.ASTORIA-MF

FIGURE B-56

**LOG OF
SB-306 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	11 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02

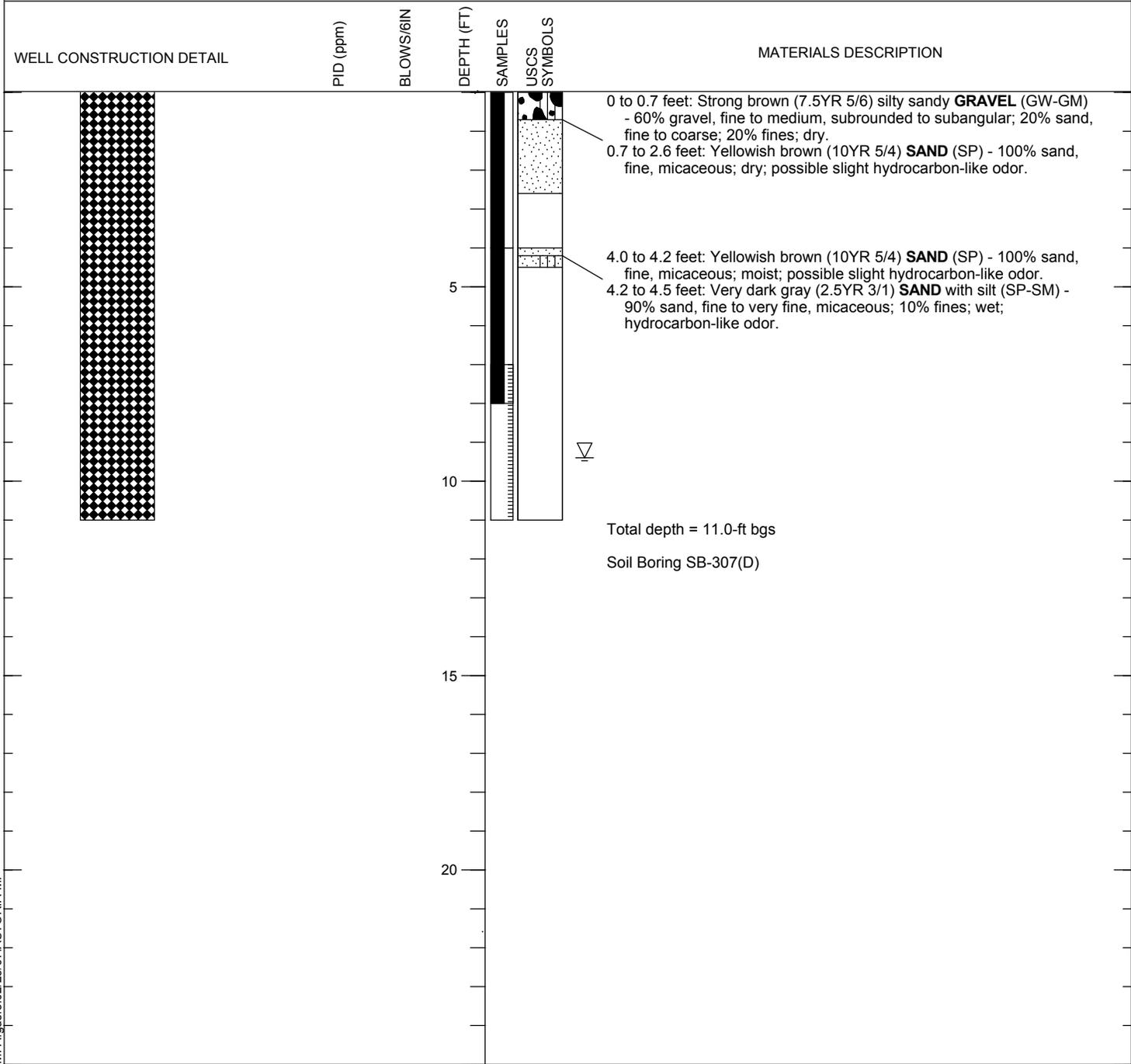


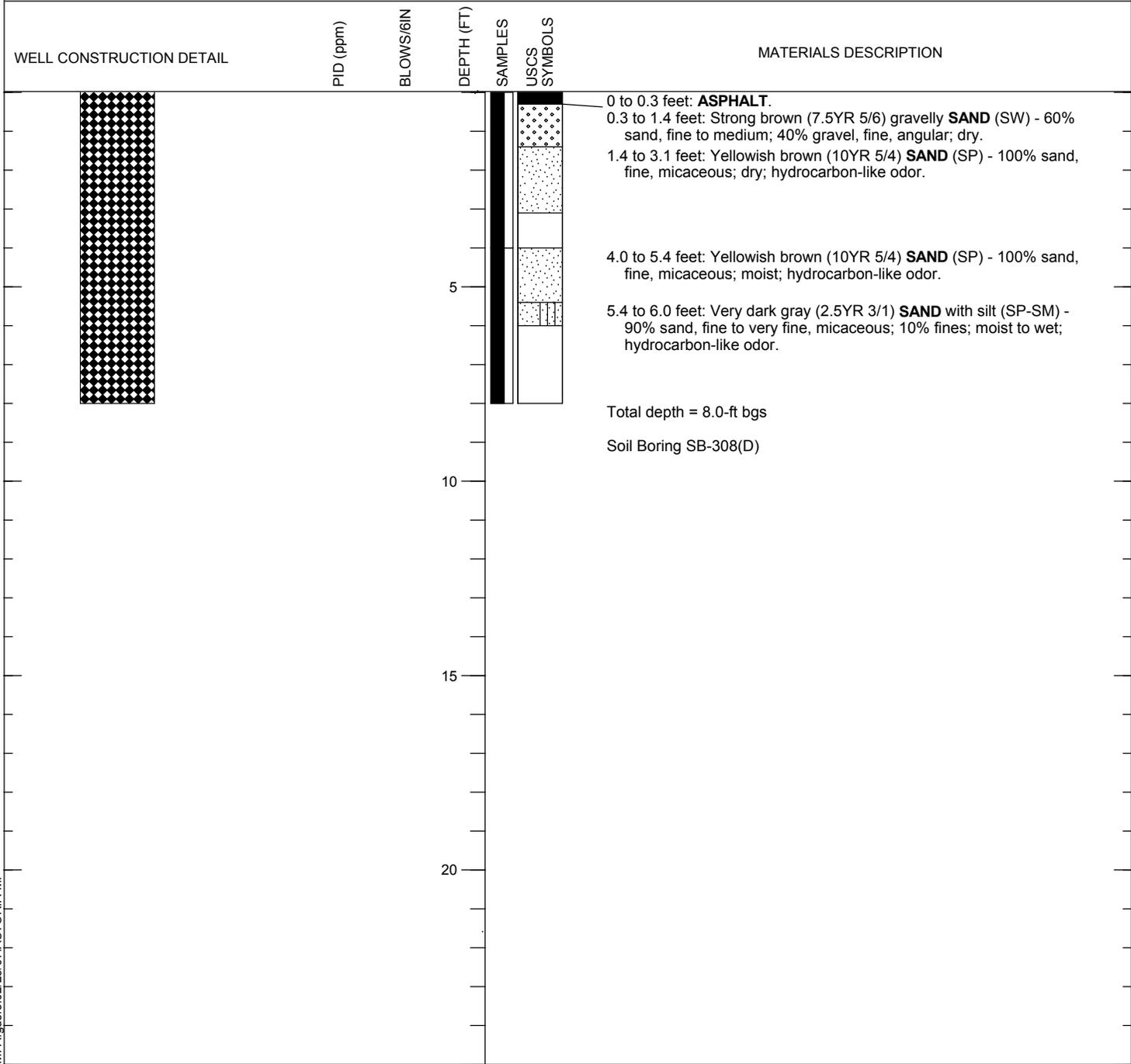
FIGURE B-57

**LOG OF
SB-307 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	8 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02



MFA.gds:5.02/28/07.ASTORIA-MF

FIGURE B-58

**LOG OF
SB-308 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	11 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02

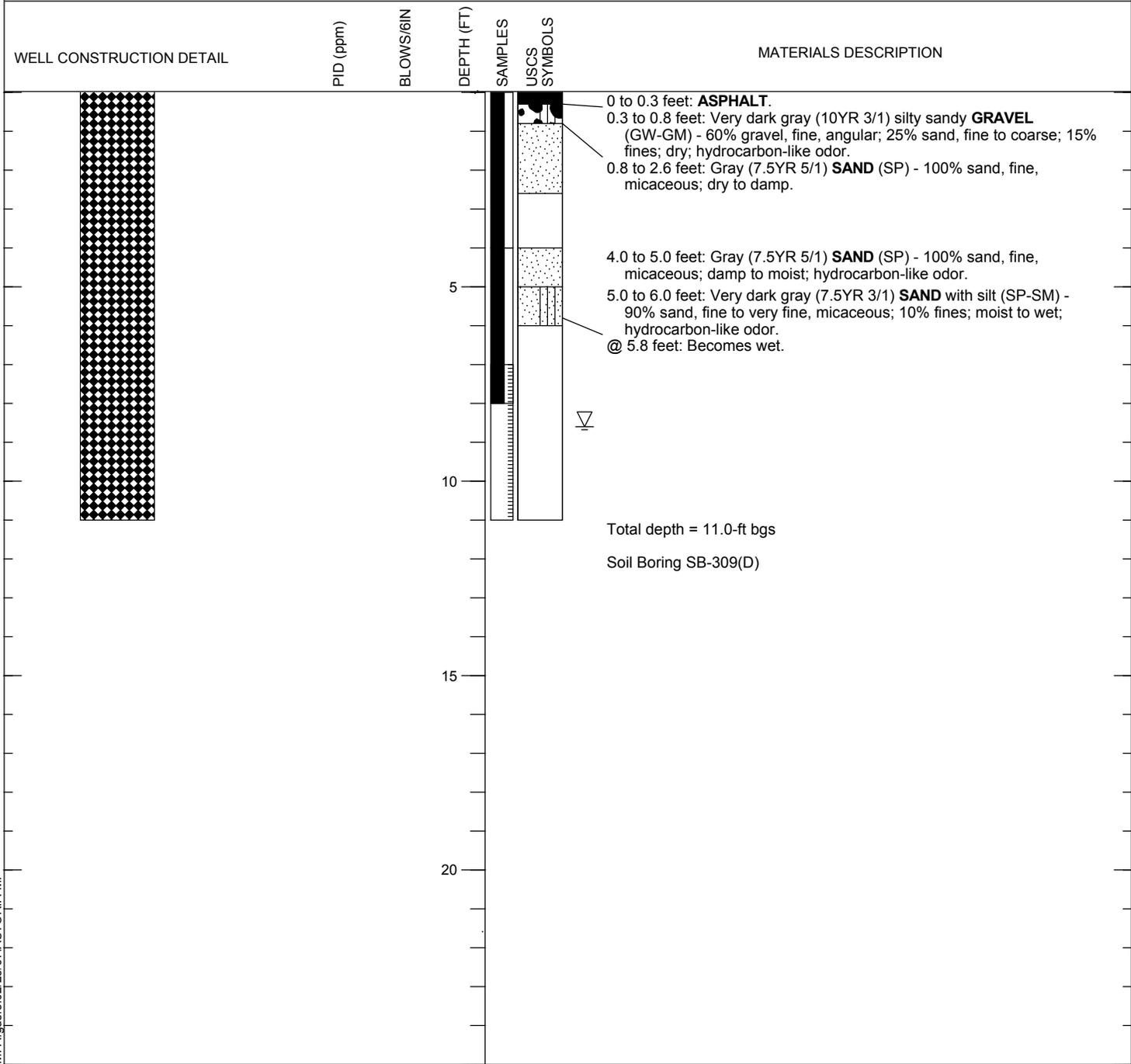


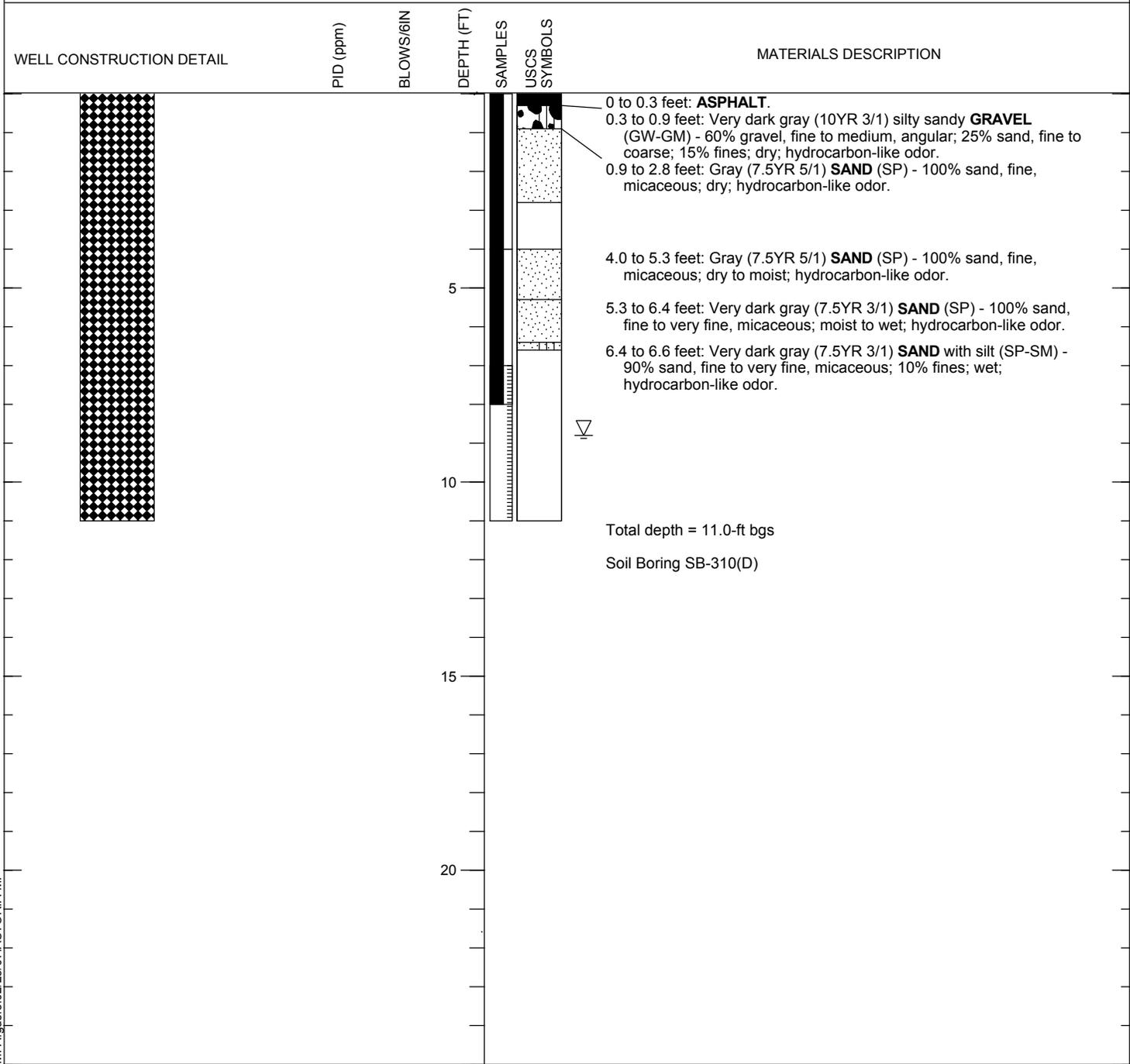
FIGURE B-59

LOG OF
SB-309 (D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	11 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02



MFA.gds:5.02/28/07.ASTORIA-MF

FIGURE B-60

**LOG OF
SB-310 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02

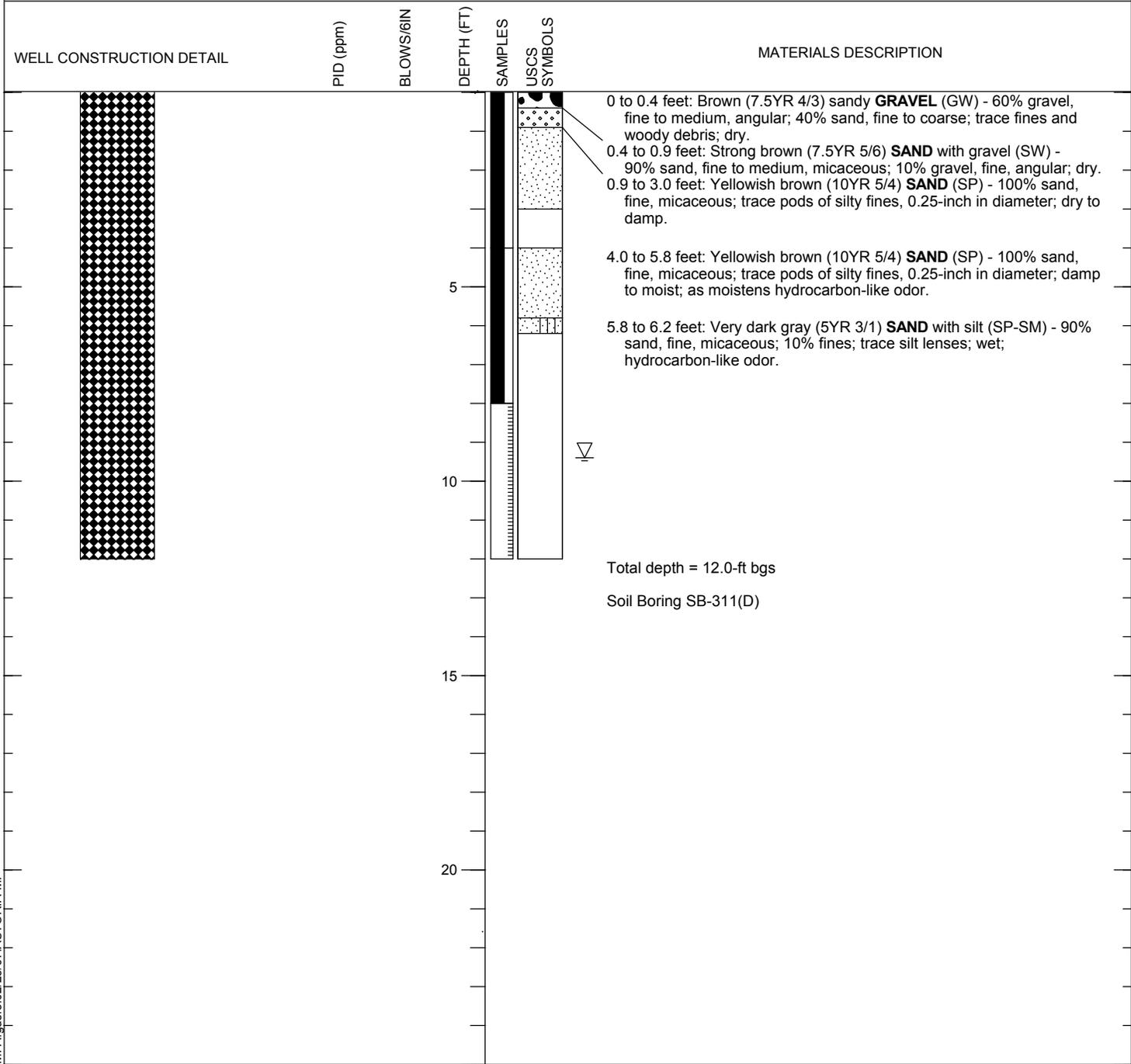


FIGURE B-61

**LOG OF
SB-311 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02

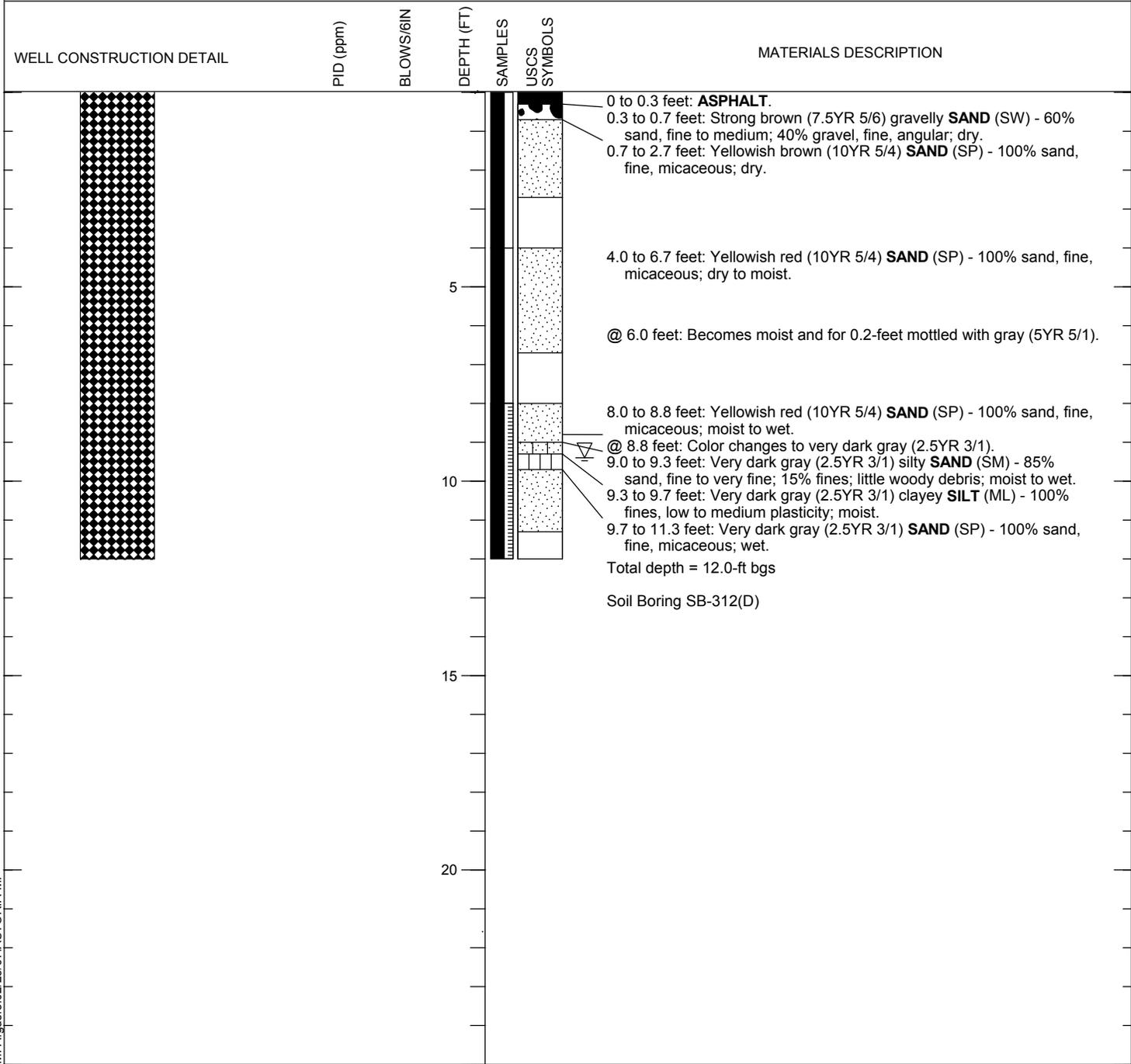


FIGURE B-62

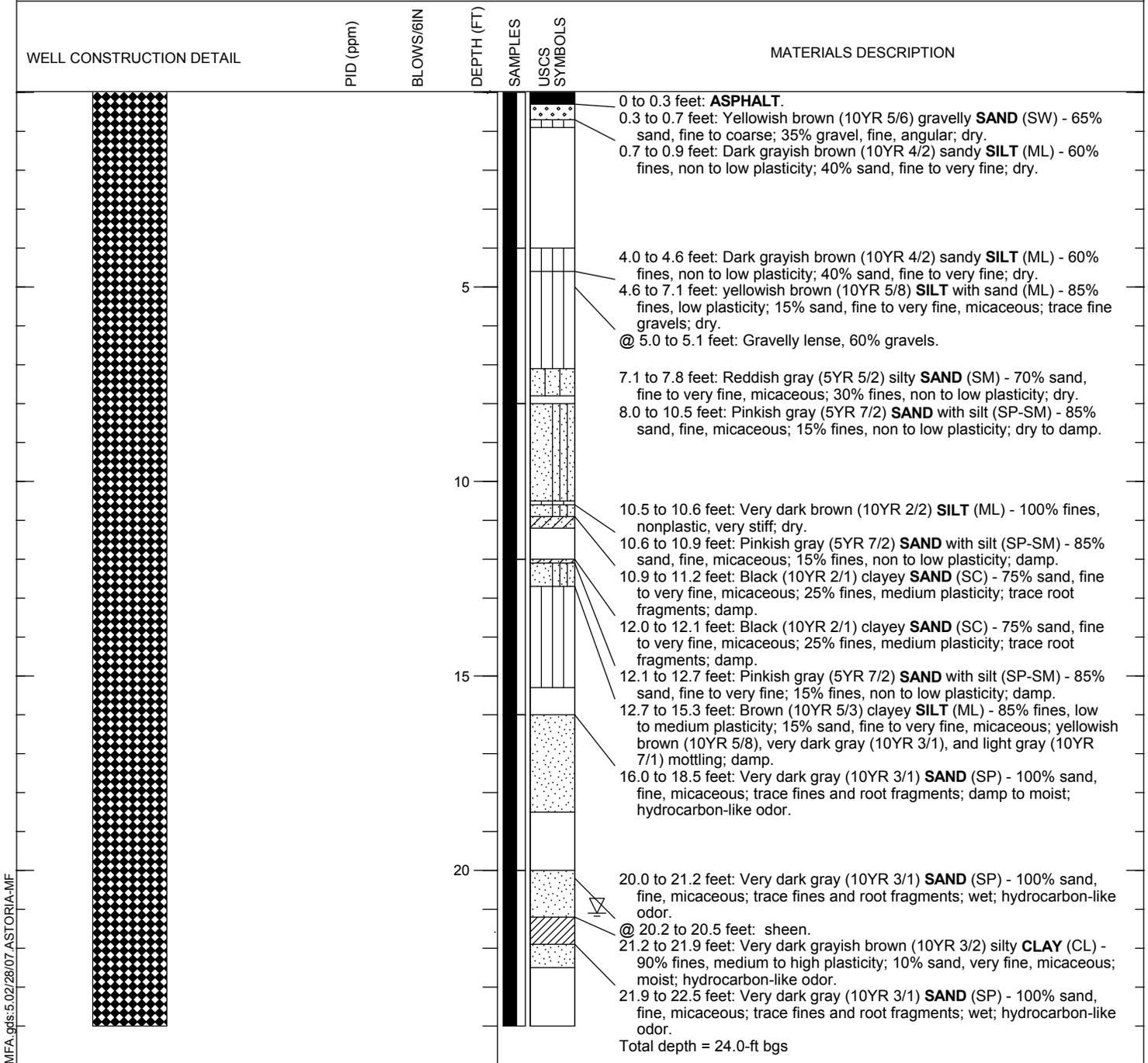
**LOG OF
SB-312 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Delphia Oil
 JOB NUMBER 0019.01.01
 LOGGED BY A. Hughes
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 24 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/20/02



MFA_ggs:5.02/28/07.ASTORIA-MF

(Continued)

(Continued)

FIGURE B-63

**LOG OF
SB-313 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	24 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/20/02

WELL CONSTRUCTION DETAIL	PID (ppm)	BLOWS/6IN	DEPTH (FT)	SAMPLES	USCS SYMBOLS	MATERIALS DESCRIPTION
						Soil Boring SB-313(D)
			30			
			35			
			40			
			45			

MFA.gds:5.02/28/07.ASTORIA-MF

FIGURE B-63

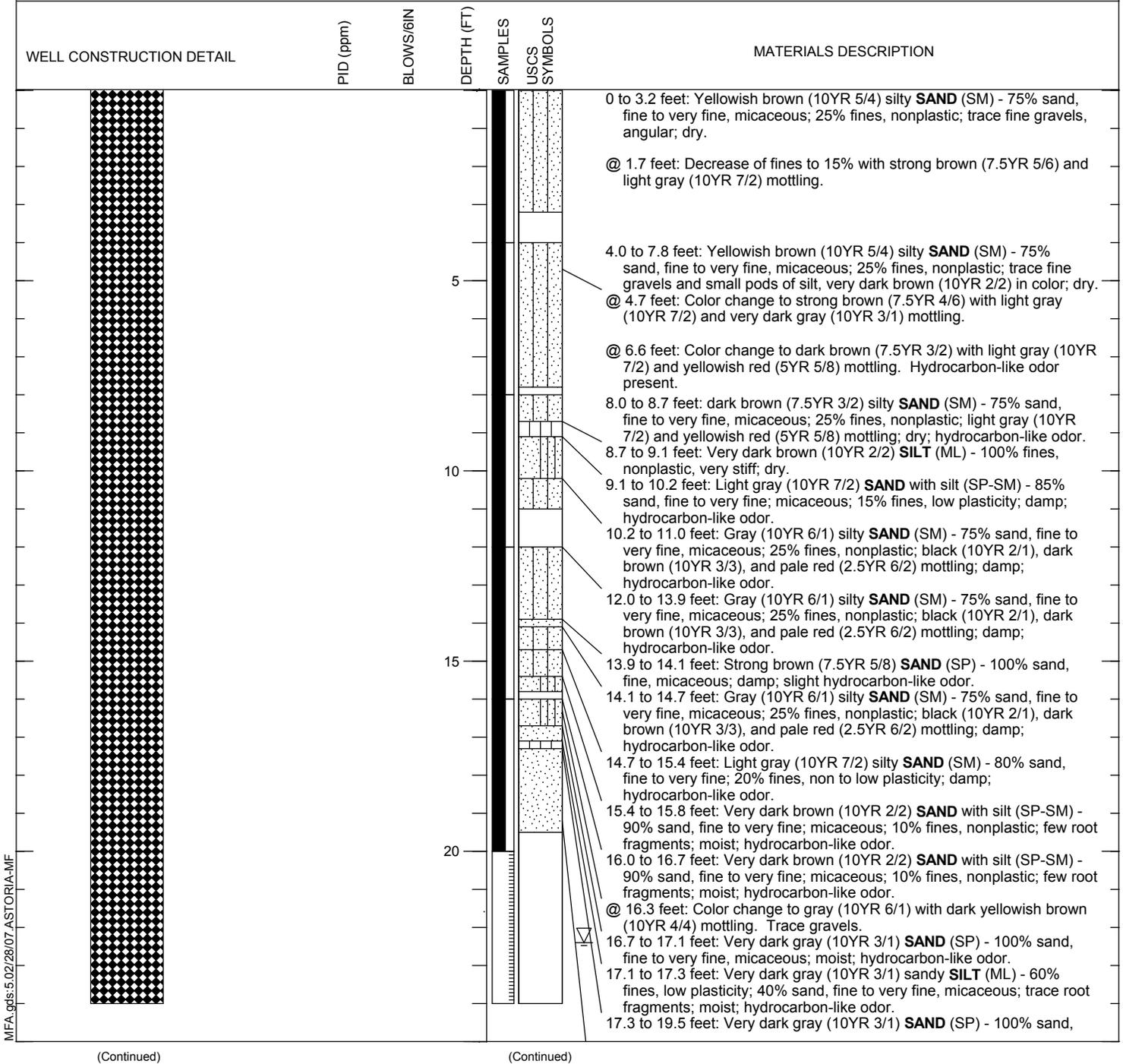
**LOG OF
SB-313 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Delphia Oil
 JOB NUMBER 0019.01.01
 LOGGED BY A. Hughes
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 24 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/20/02



(Continued)

(Continued)

FIGURE B-64

LOG OF
SB-314 (D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	24 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/20/02

WELL CONSTRUCTION DETAIL	PID (ppm)	BLOWS/6IN	DEPTH (FT)	SAMPLES	USCS SYMBOLS	MATERIALS DESCRIPTION
						fine to very fine, micaceous; moist; hydrocarbon-like odor.
			30			@ 19.2 feet: Wet. Total depth = 24.0-ft bgs Soil Boring SB-314(D)
			35			
			40			
			45			

MFA.gds:5.02/28/07.ASTORIA-MF

FIGURE B-64

**LOG OF
SB-314 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/20/02

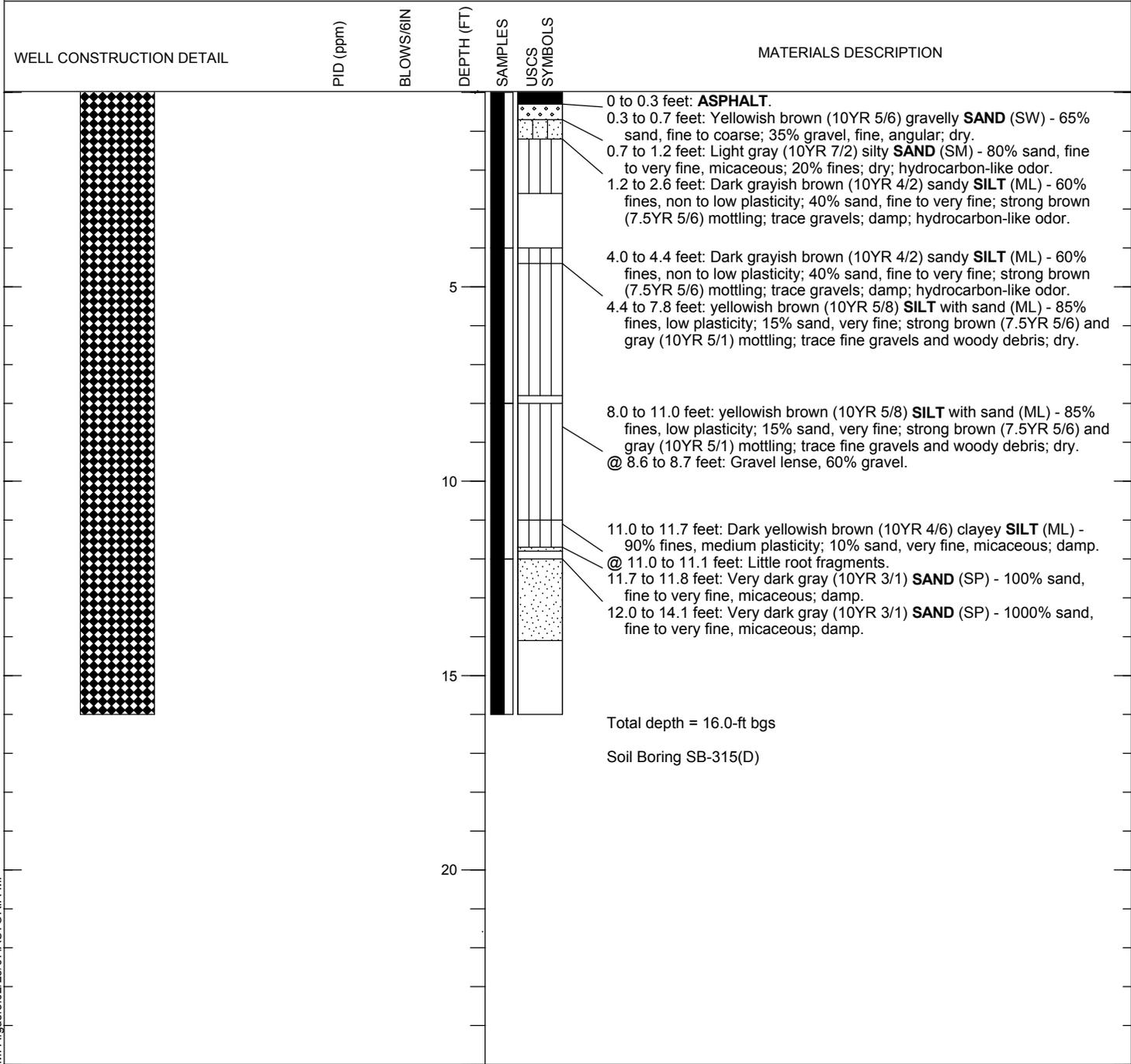


FIGURE B-65

**LOG OF
SB-315 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Delphia Oil
 JOB NUMBER 0019.01.01
 LOGGED BY A. Hughes
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/20/02

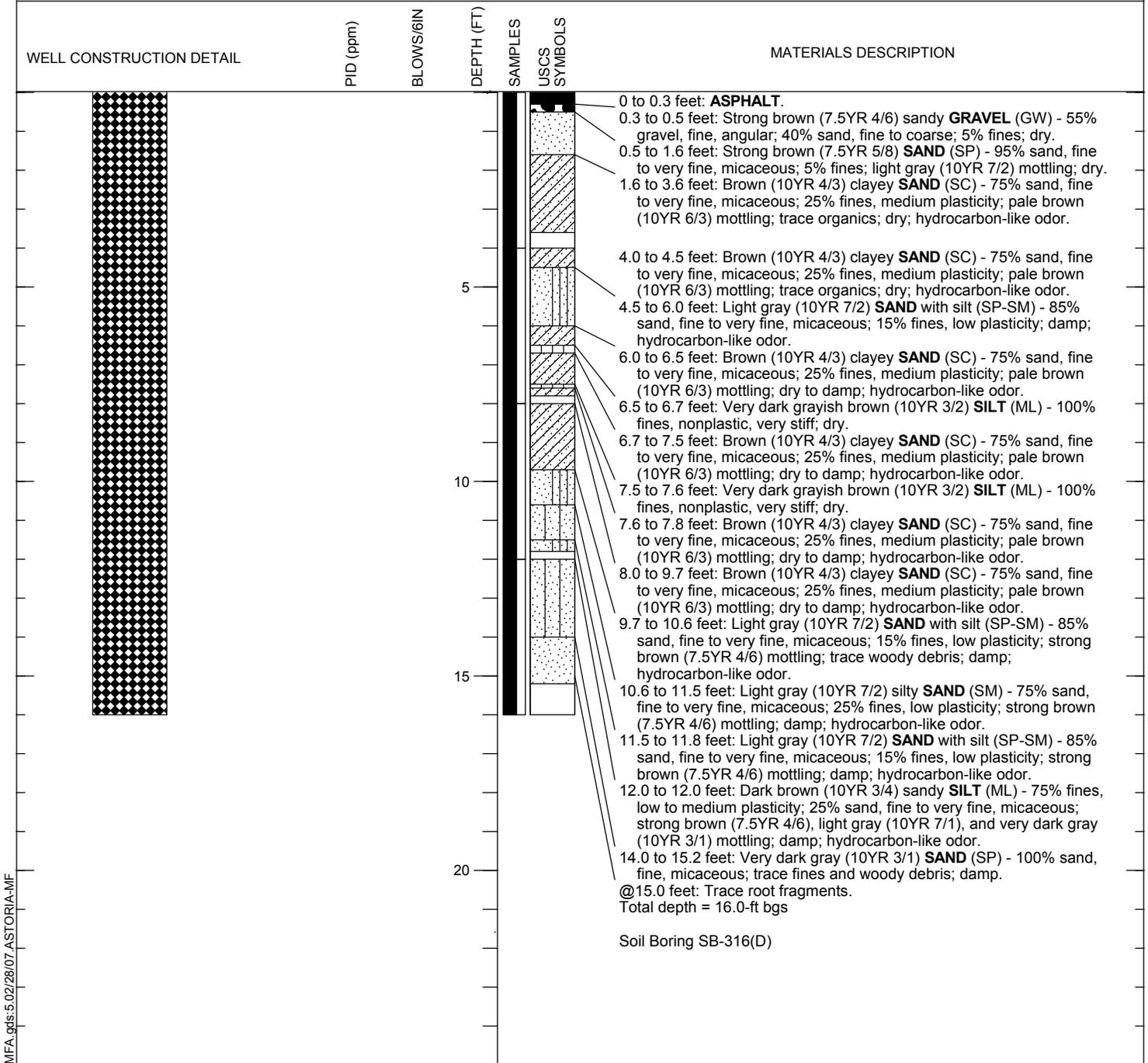
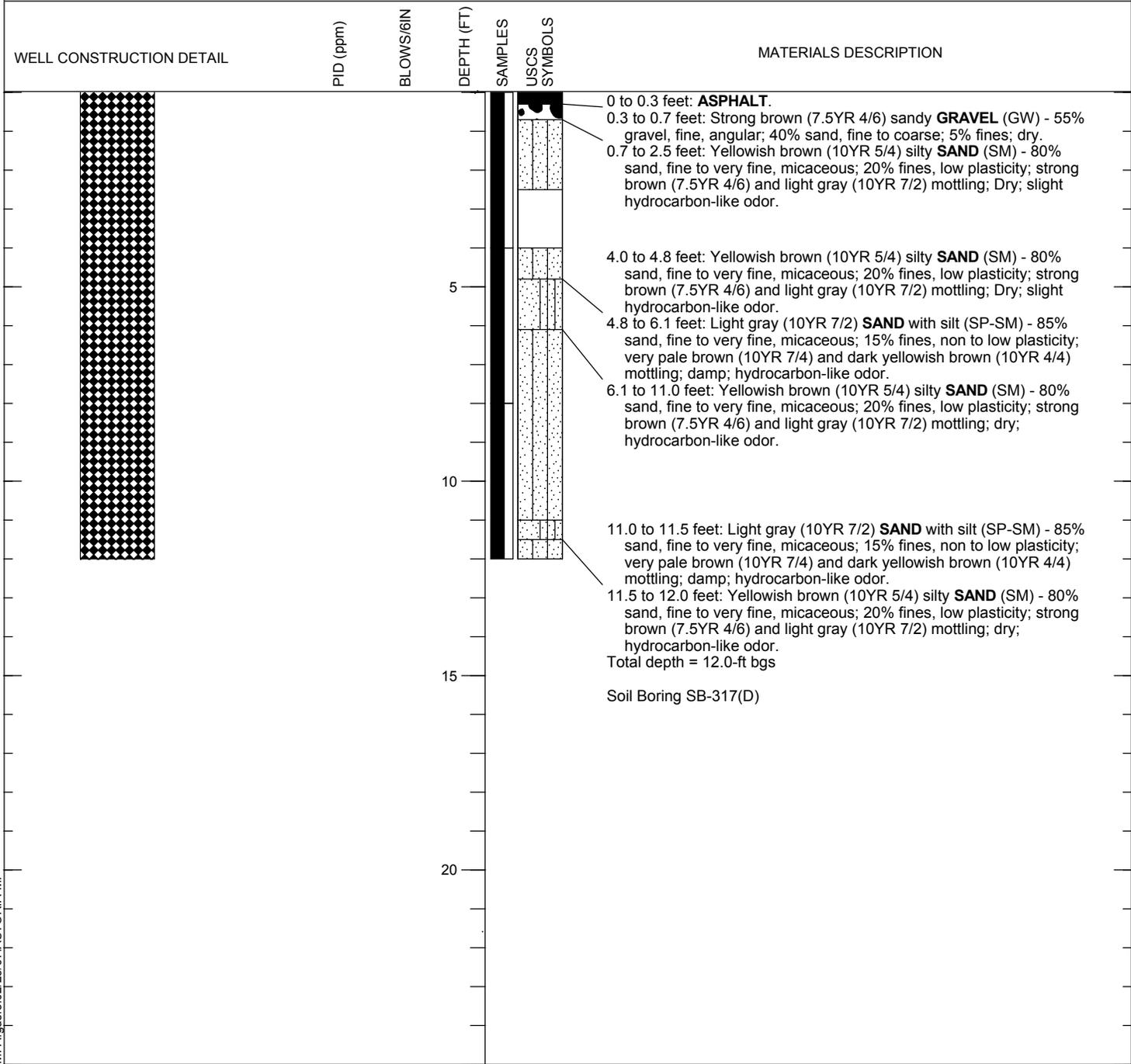


FIGURE B-66

LOG OF
SB-316 (D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/20/02



MFA.gds:5.02/28/07.ASTORIA-MF

FIGURE B-67

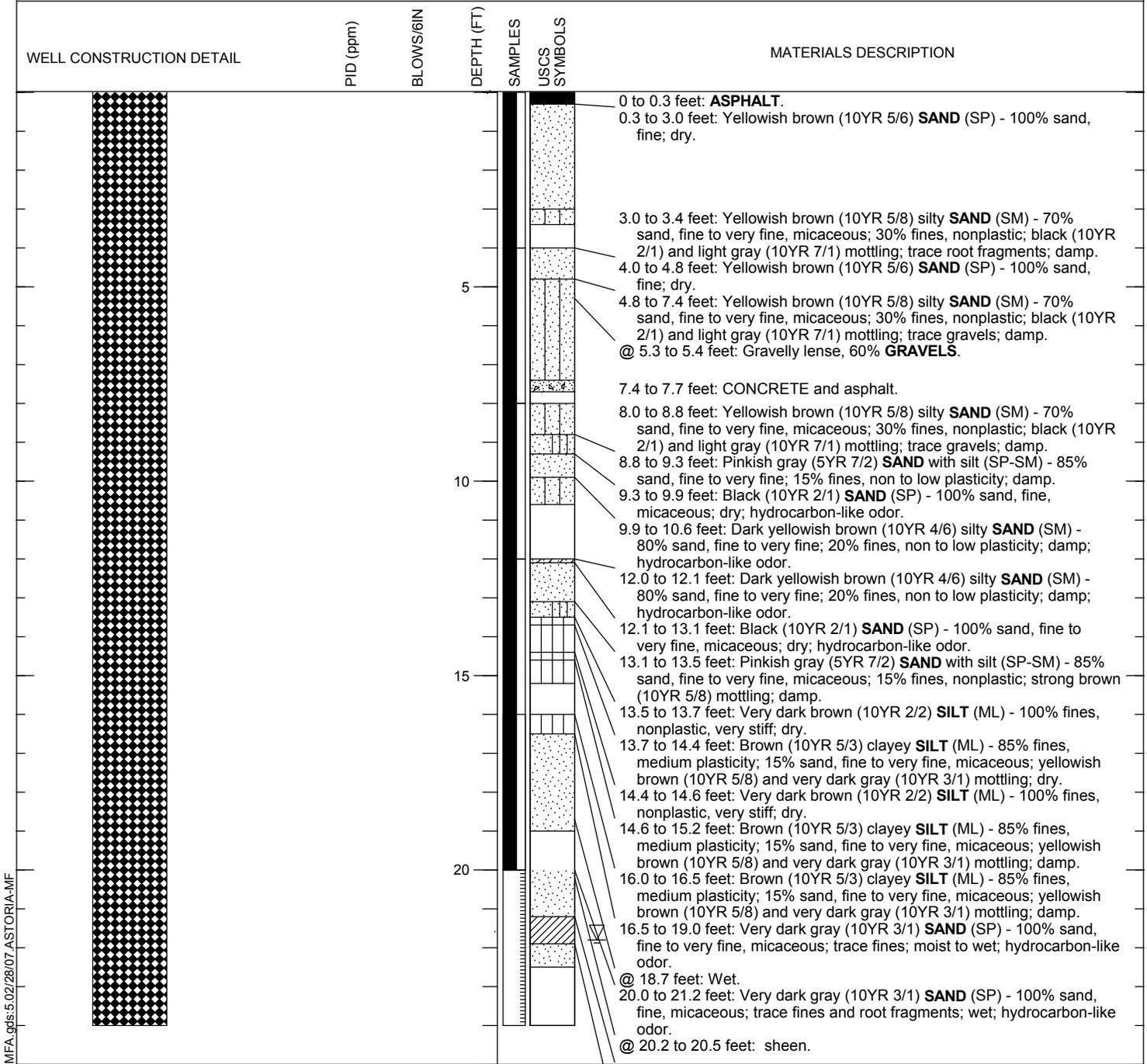
**LOG OF
SB-317 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Delphia Oil
 JOB NUMBER 0019.01.01
 LOGGED BY A. Hughes
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 24 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/20/02



MFA_ggs:5.02/28/07.ASTORIA-MF

(Continued)

(Continued)

FIGURE B-68

**LOG OF
SB-318 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	24 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/20/02

WELL CONSTRUCTION DETAIL	PID (ppm)	BLOWS/6IN	DEPTH (FT)	SAMPLES USCS SYMBOLS	MATERIALS DESCRIPTION
					<p>21.2 to 21.9 feet: Very dark grayish brown (10YR 3/2) silty CLAY (CL) - 90% fines, medium to high plasticity; 10% sand, very fine, micaceous; moist; hydrocarbon-like odor.</p> <p>21.9 to 22.5 feet: Very dark gray (10YR 3/1) SAND (SP) - 100% sand, fine, micaceous; trace fines and root fragments; wet; hydrocarbon-like odor.</p> <p>Total depth = 24.0-ft bgs</p> <p>Soil Boring SB-318(D)</p>
			30		
			35		
			40		
			45		

MFA.gds:5.02/28/07.ASTORIA-MF

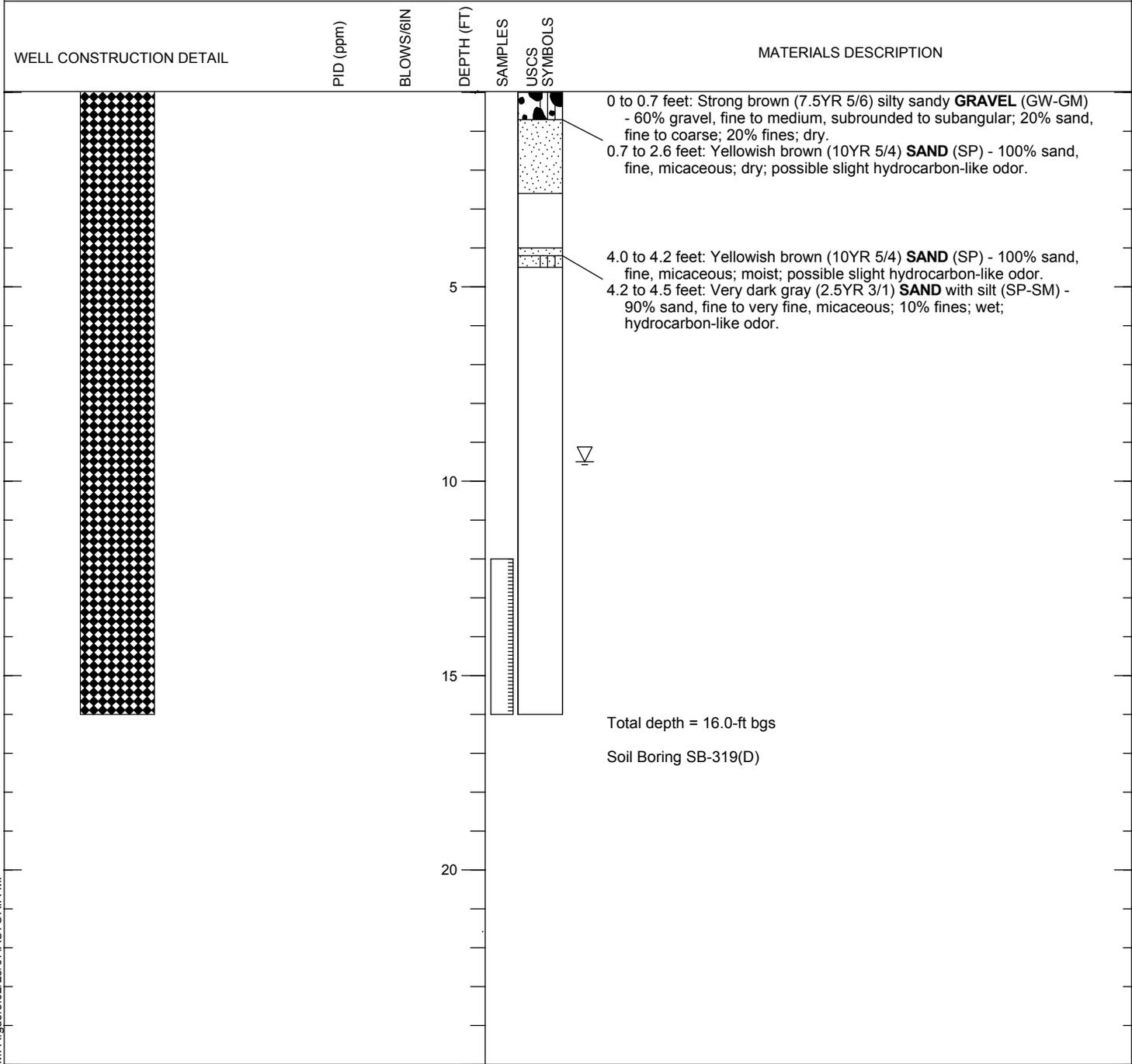
FIGURE B-68

**LOG OF
SB-318 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Hughes	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/19/02



MFA.gds:5.02/28/07.ASTORIA-MF

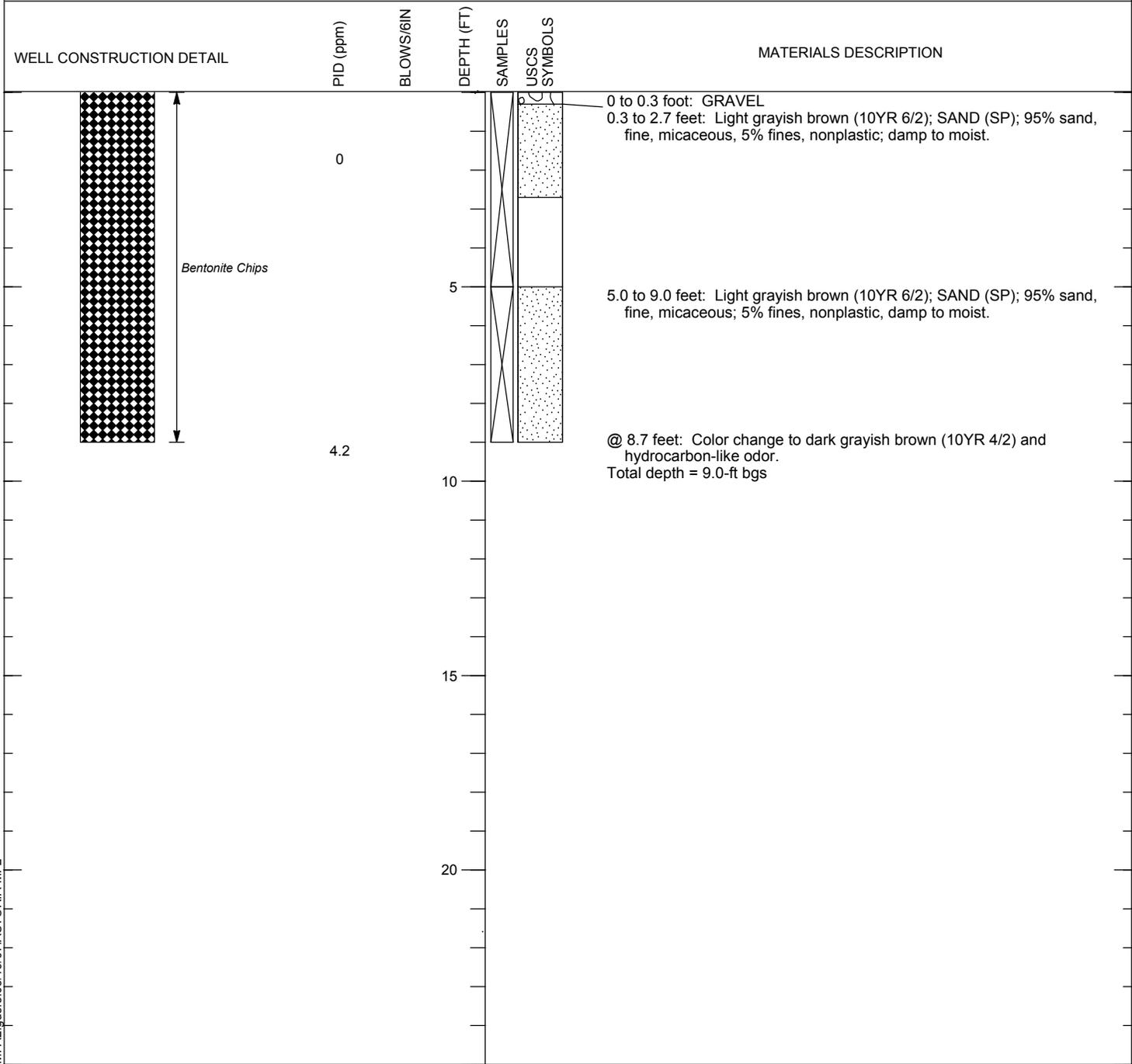
FIGURE B-69

**LOG OF
SB-319 (D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	9 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Bharwada	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/03



MFA2.gds:5.03/19/07.ASTORIA-MF2

FIGURE B-70

**LOG OF
SOIL BORING SB-320(D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/9/2003

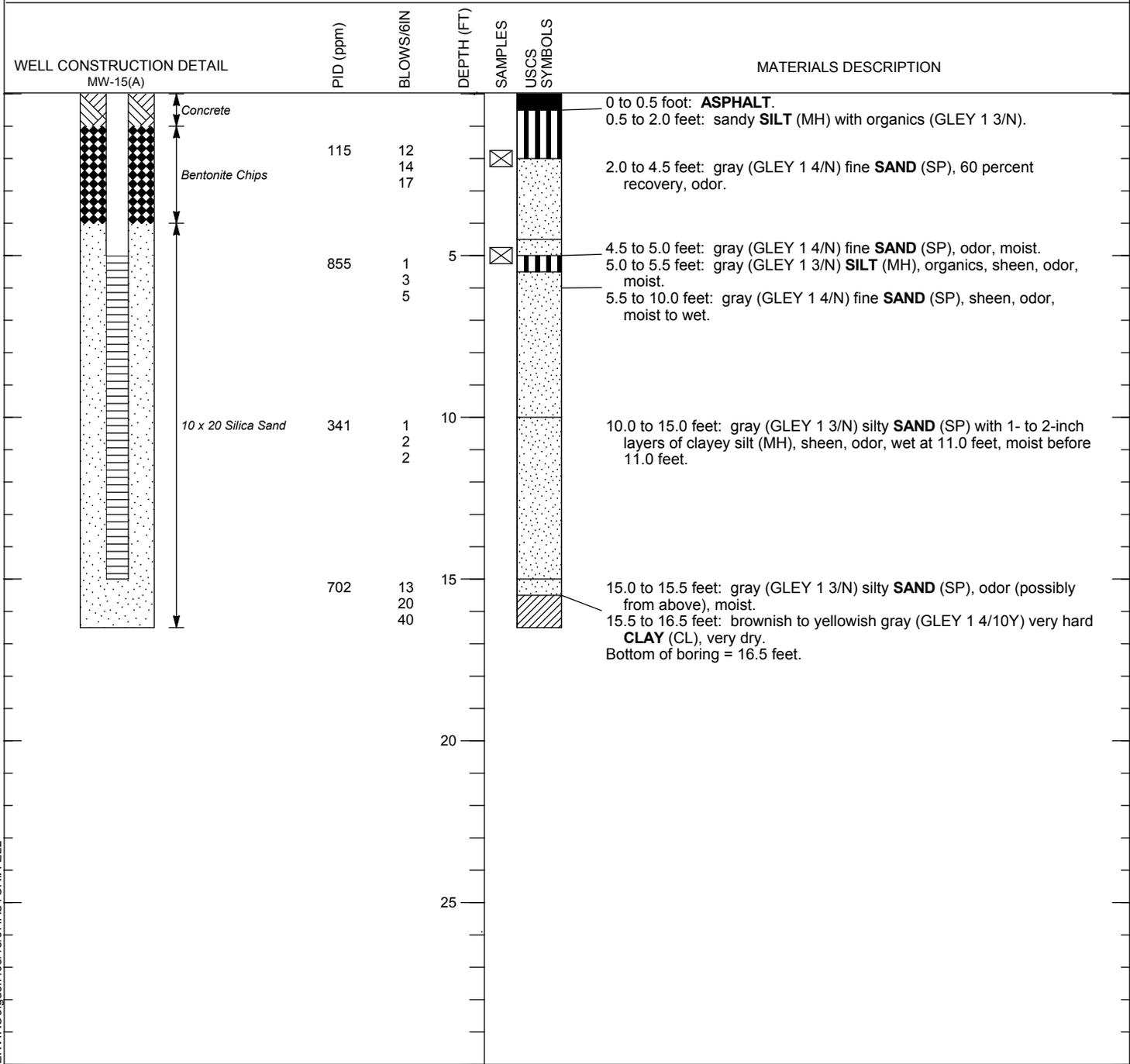


FIGURE B-71

LOG OF
SB-321(D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	10 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Bharwada	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/03

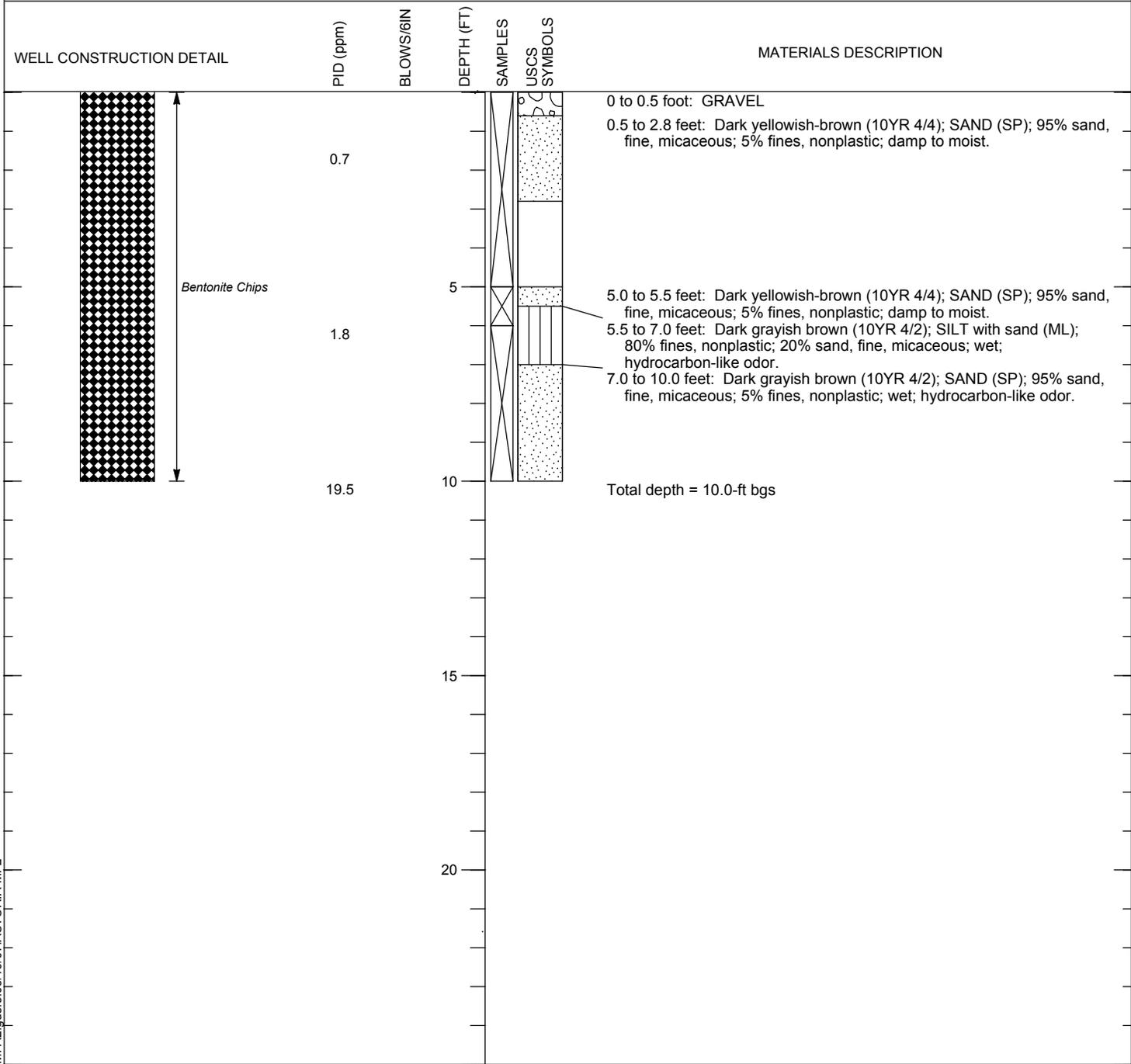


FIGURE B-72

**LOG OF
SOIL BORING SB-322(D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	20 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe and Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/2003

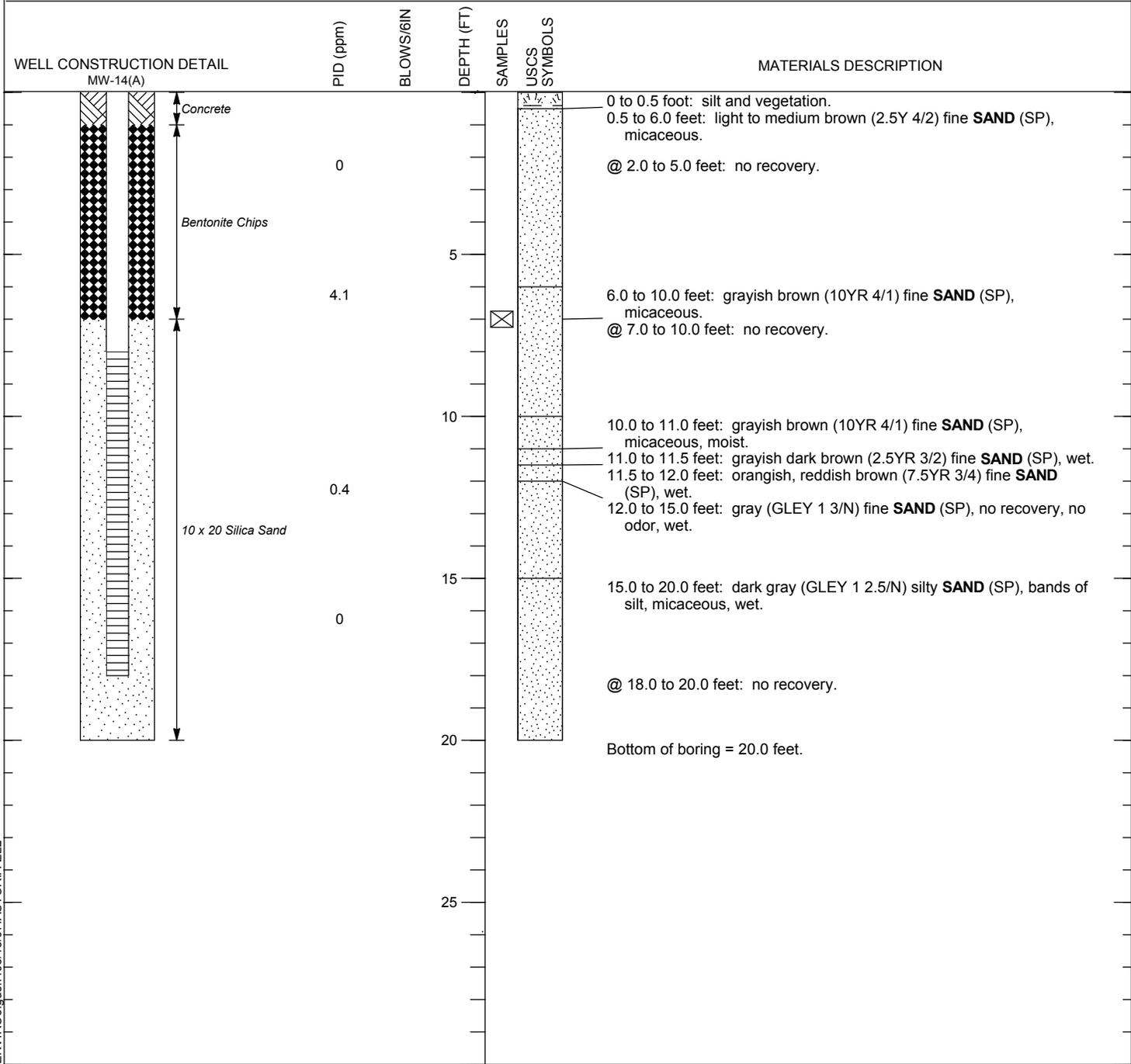


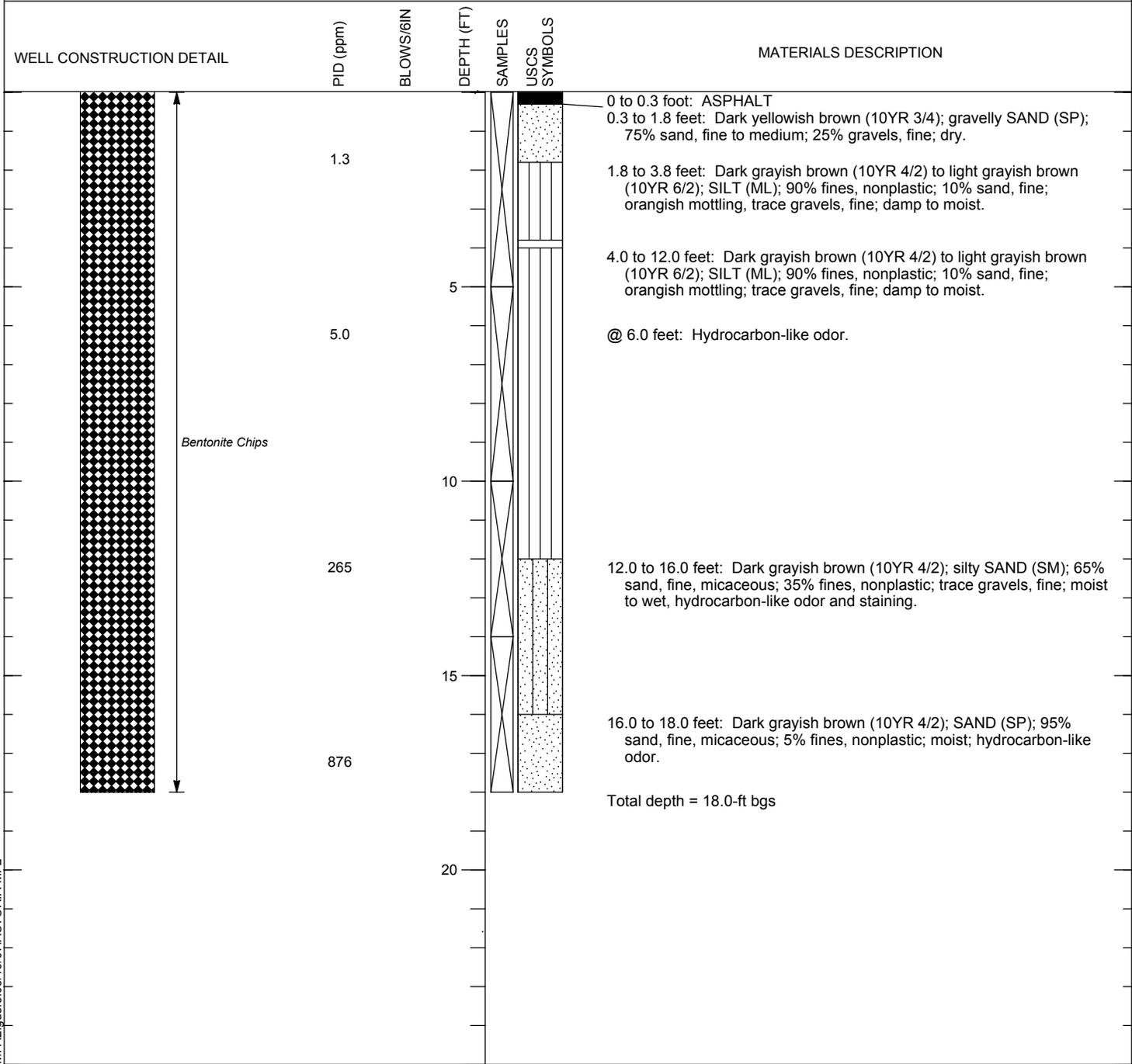
FIGURE B-73

LOG OF
SB-323(D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	18 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Bharwada	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/03



MFA2.gds:5.03/19/07.ASTORIA-MF2

FIGURE B-74

**LOG OF
SOIL BORING SB-324(D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	24 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Bharwada	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/03

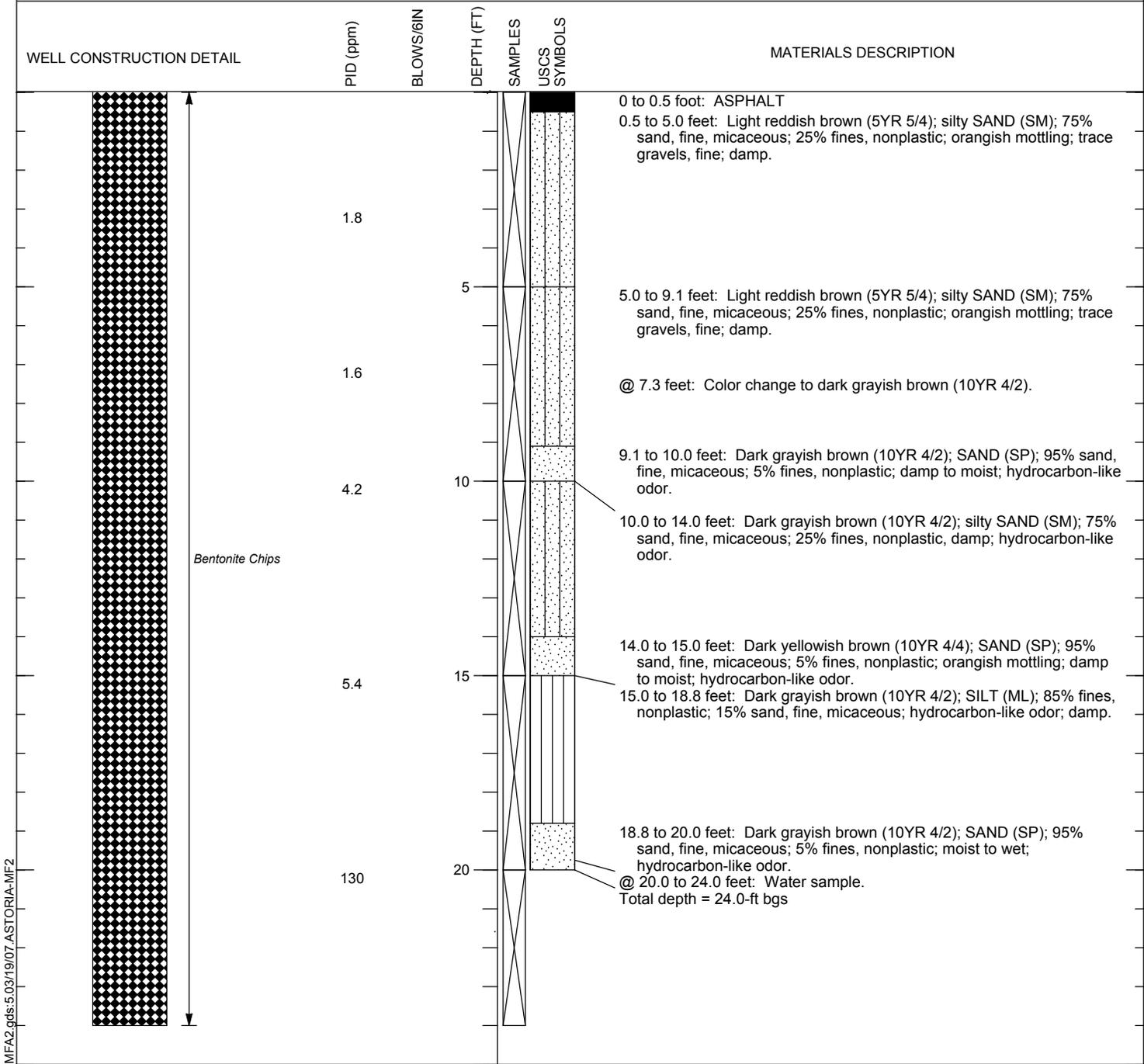


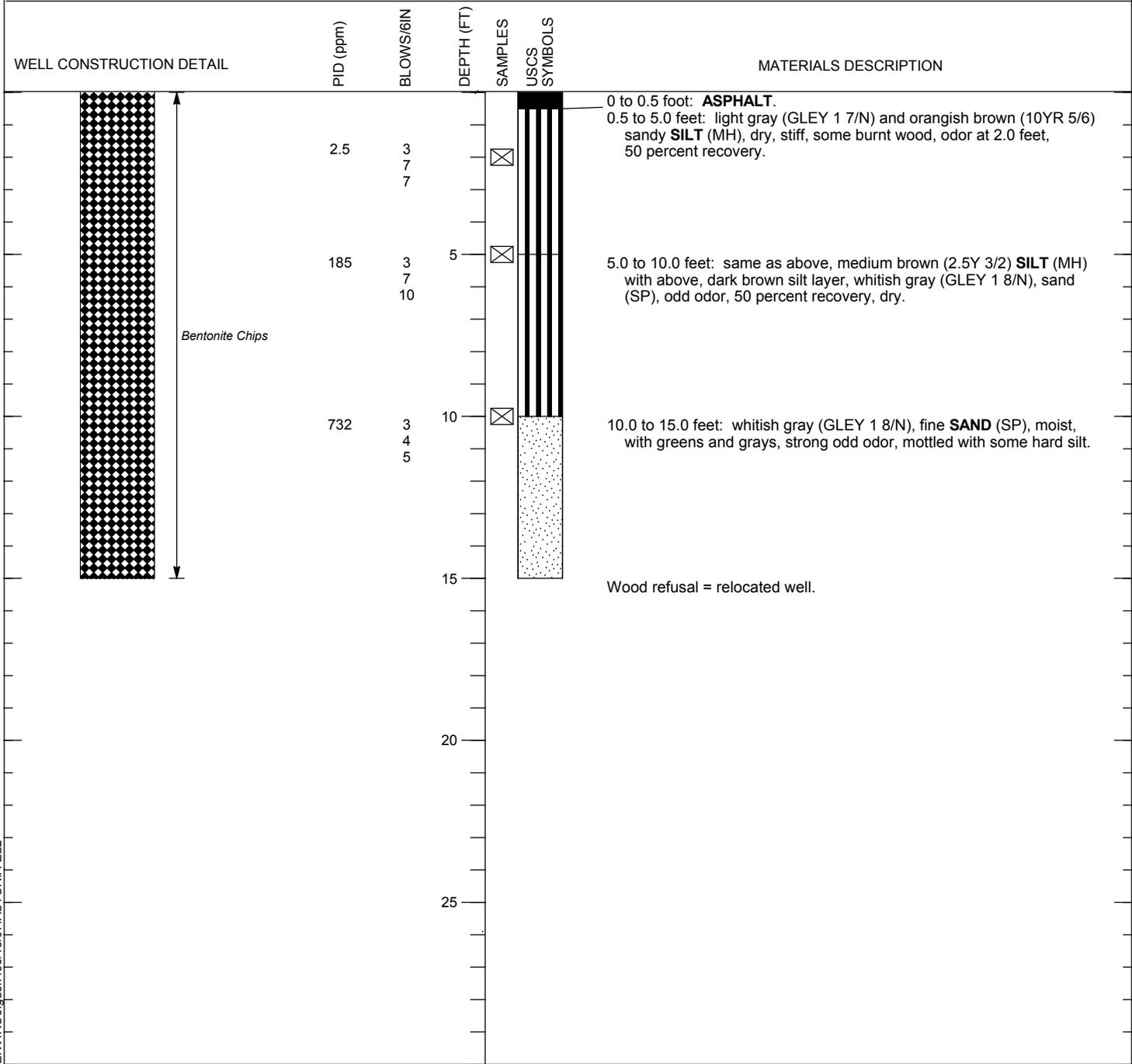
FIGURE B-75

LOG OF SOIL BORING SB-325(D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/9/2003



ENVIRO3.gds:7.03/15/07.ASTORIA-EL2

FIGURE B-76

**LOG OF
SB-326(D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Bharwada	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/03

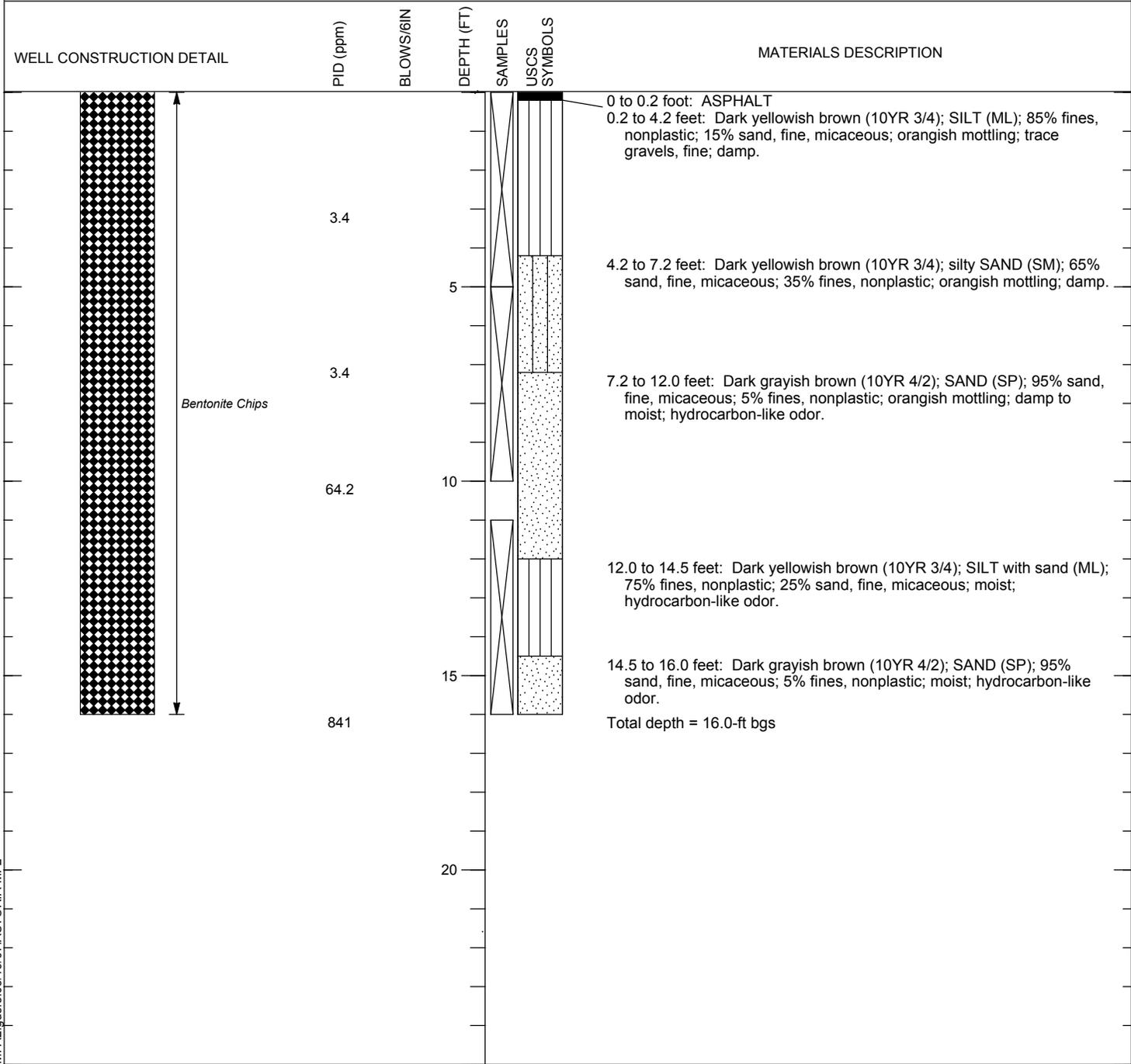


FIGURE B-77

LOG OF SOIL BORING SB-327(D)

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	24 feet
LOCATION	Delphia Oil	SURFACE ELEVATION	
JOB NUMBER	0019.01.01	REFERENCE POINT ELEVATION	
LOGGED BY	A. Bharwada	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	GeoProbe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/03

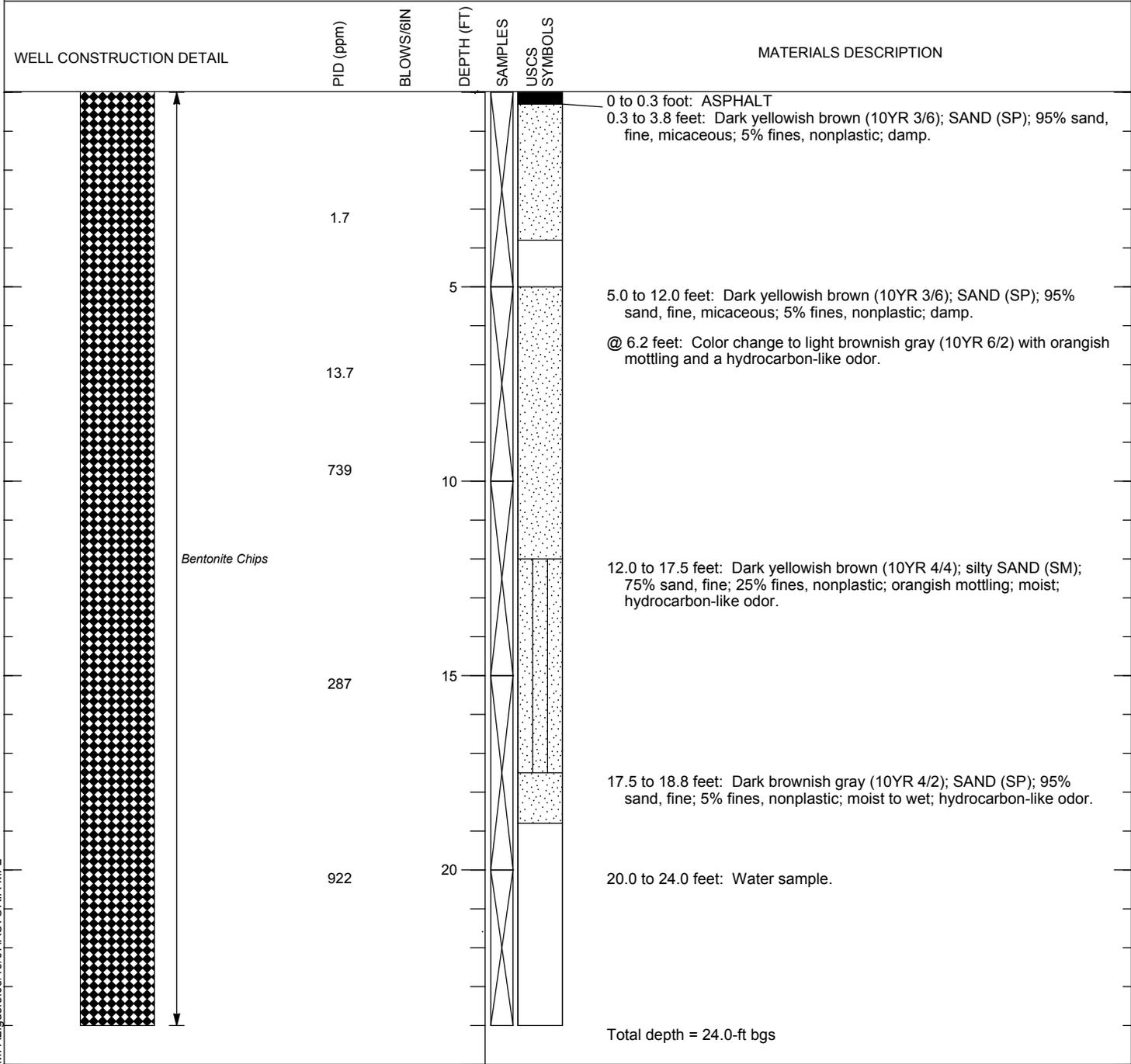


FIGURE B-78

LOG OF SOIL BORING SB-328(D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	26.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/9/2003

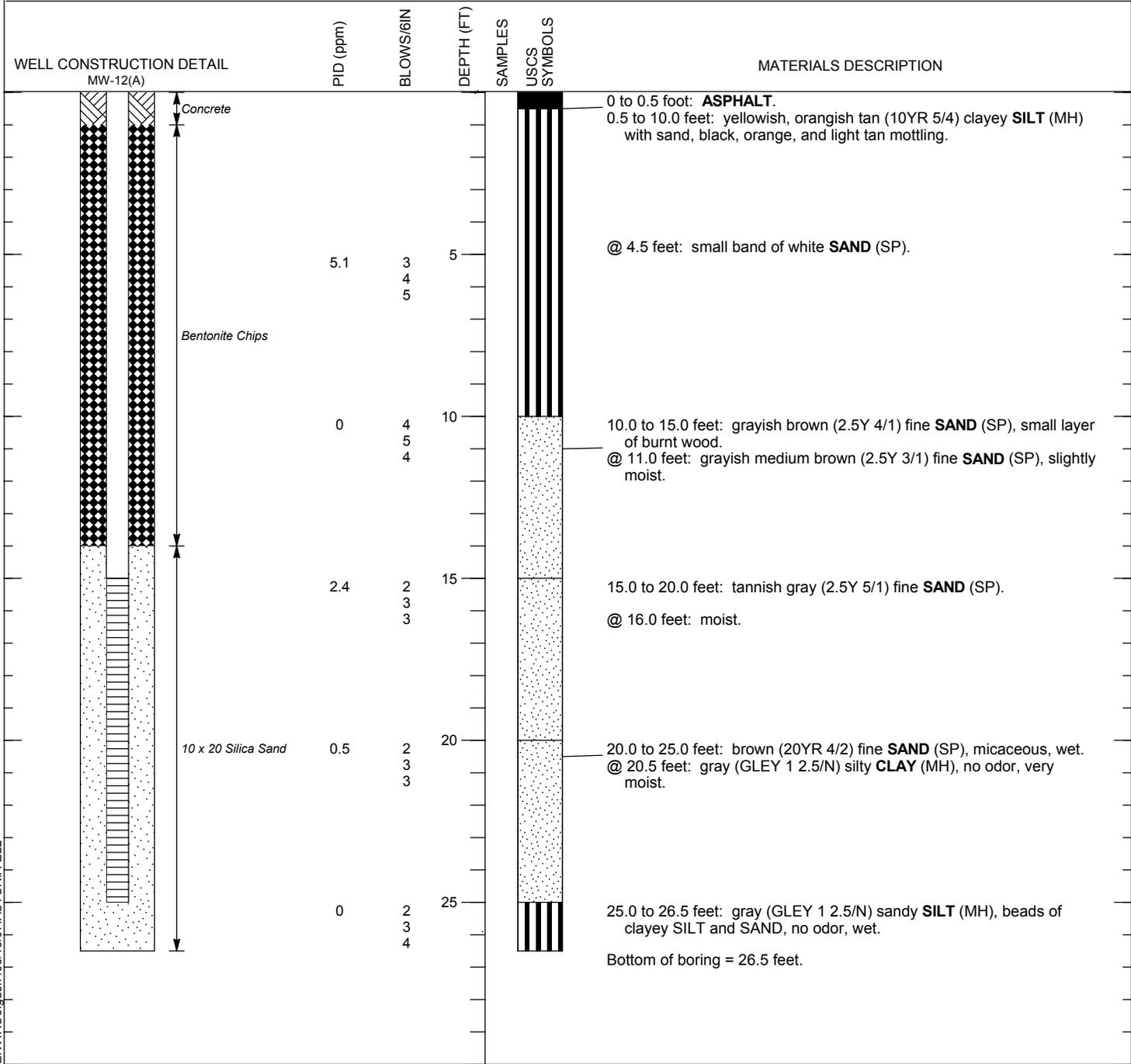


FIGURE B-79

LOG OF
SB-329(D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/9/2003

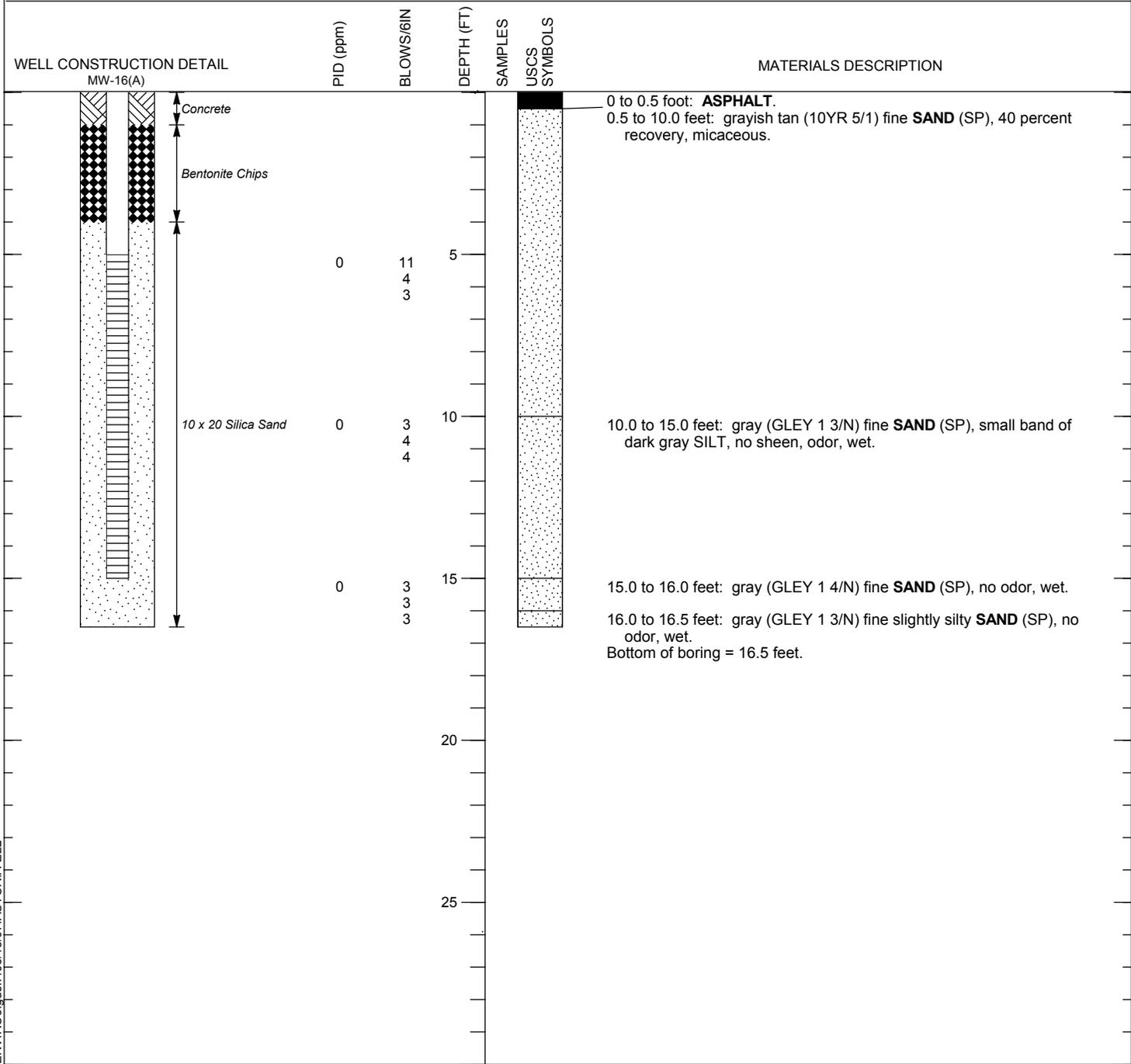


FIGURE B-80

**LOG OF
SB-330(D)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	27 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/9/2003

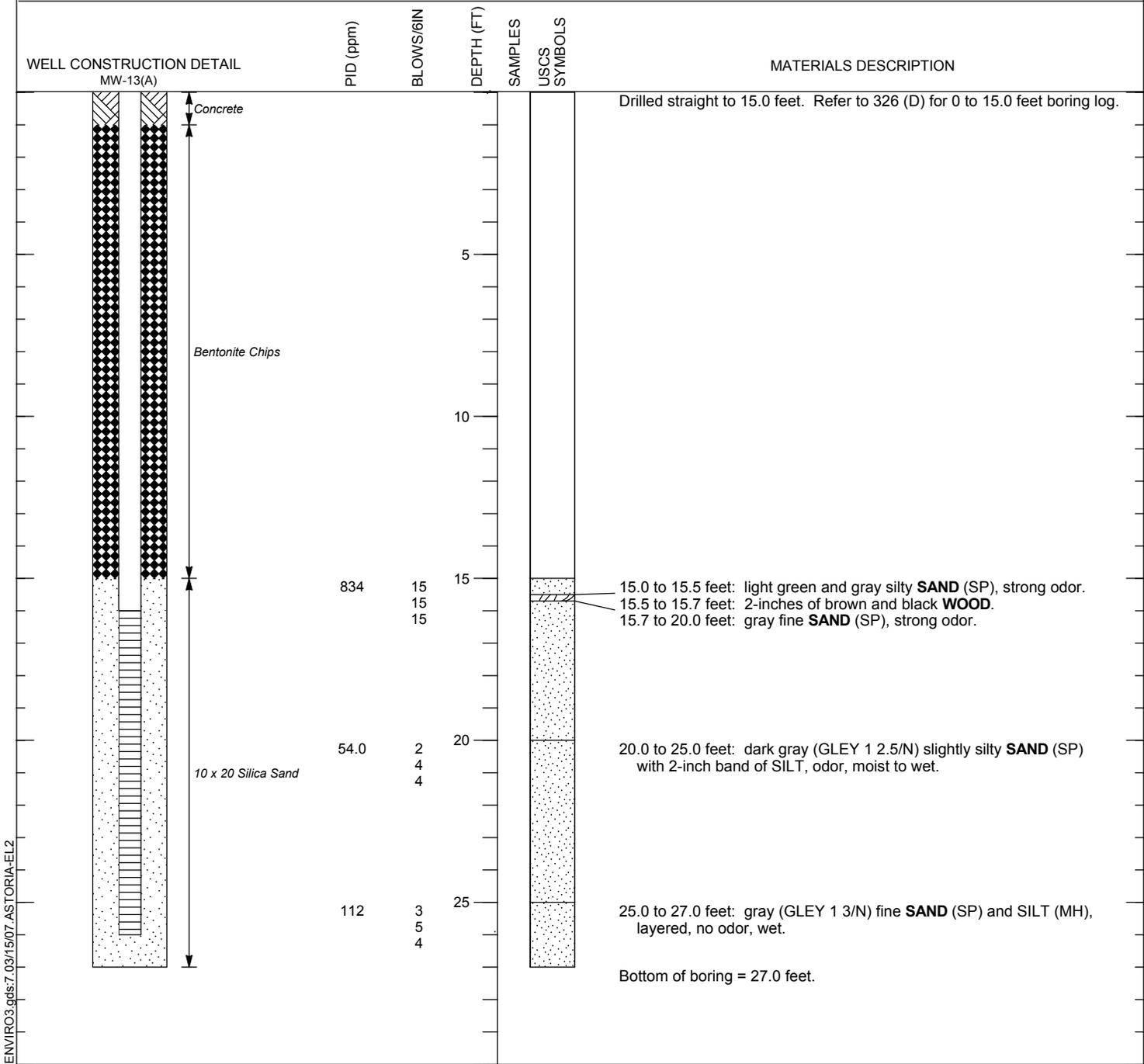


FIGURE B-81

LOG OF
SB-331(D)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	60-5501-01	REFERENCE POINT ELEVATION	
LOGGED BY	R. Khandoker	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

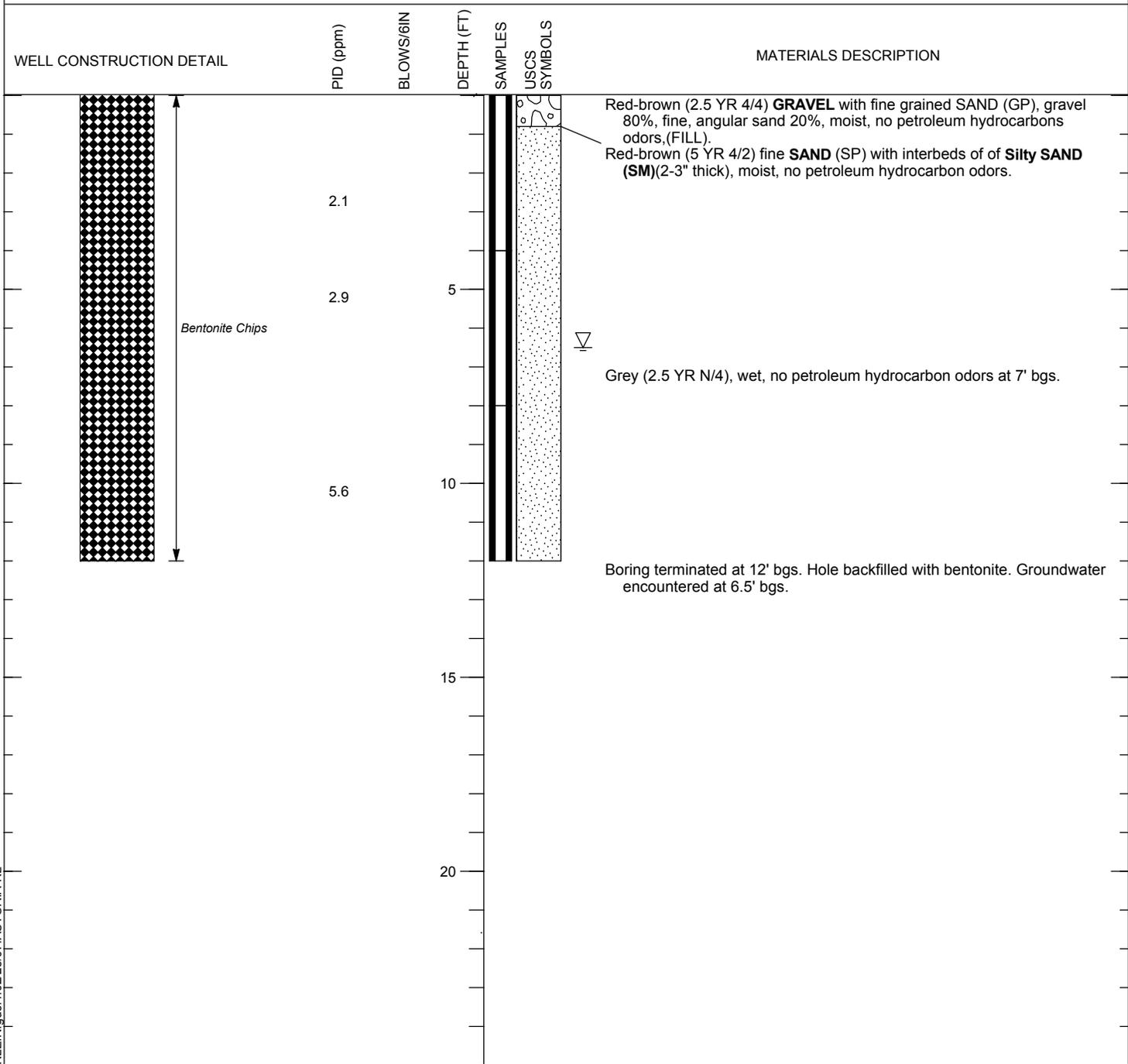


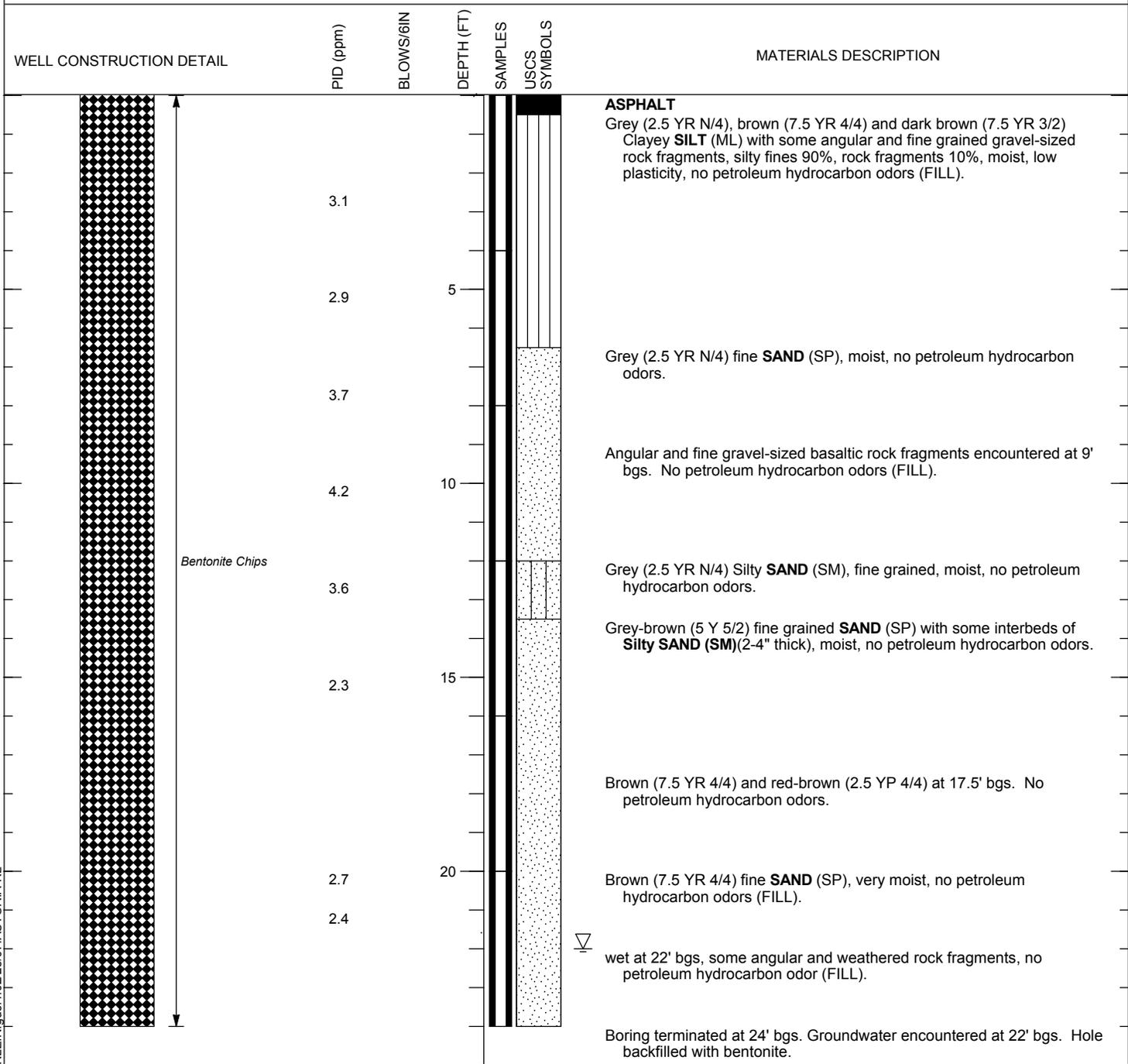
FIGURE B-82

LOG OF SOIL BORING SB-400 (F)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	24 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	60-5501-01	REFERENCE POINT ELEVATION	
LOGGED BY	R. Khandoker	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/23/2002



KLEIN.gds:4.02/28/07.ASTORIA-KL

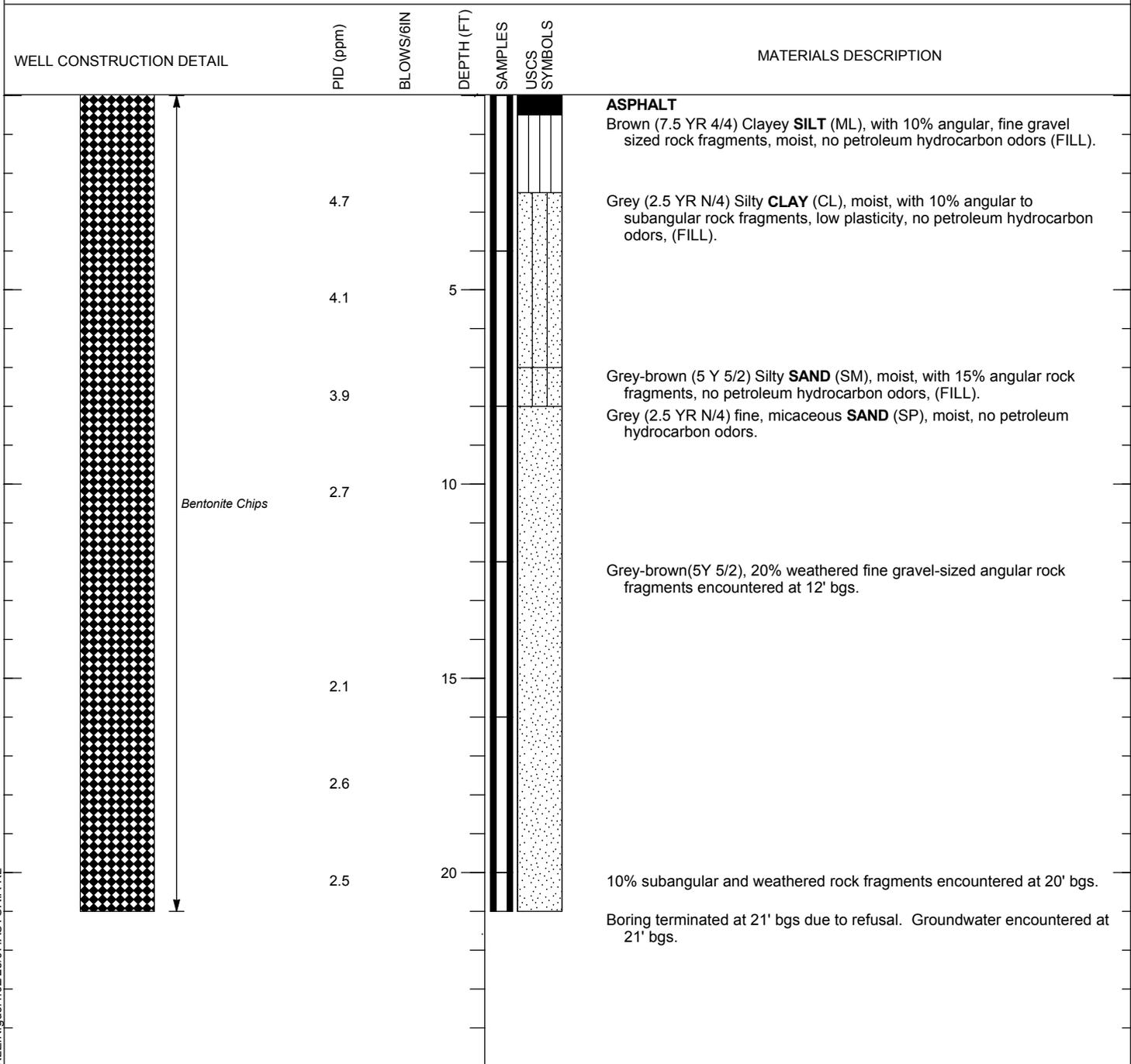
FIGURE B-83

**LOG OF
SOIL BORING SB-401 (F)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	21 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	60-5501-01	REFERENCE POINT ELEVATION	
LOGGED BY	R. Khandoker	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/23/2002

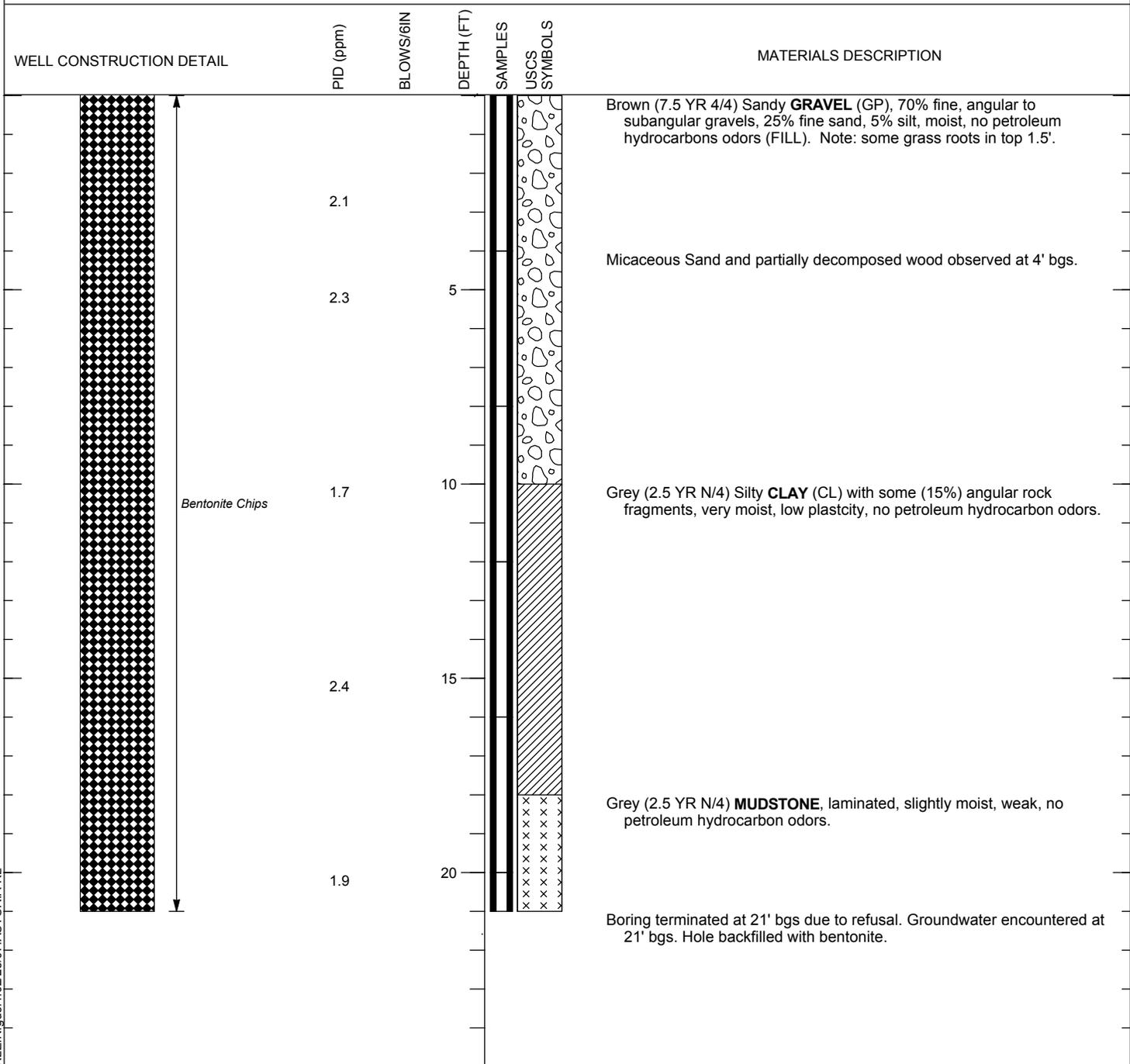


KLEIN.gds:4.02/28/07.ASTORIA-KL

FIGURE B-84
LOG OF
SOIL BORING SB-402 (F)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	21 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	60-5501-01	REFERENCE POINT ELEVATION	
LOGGED BY	R. Khandoker	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

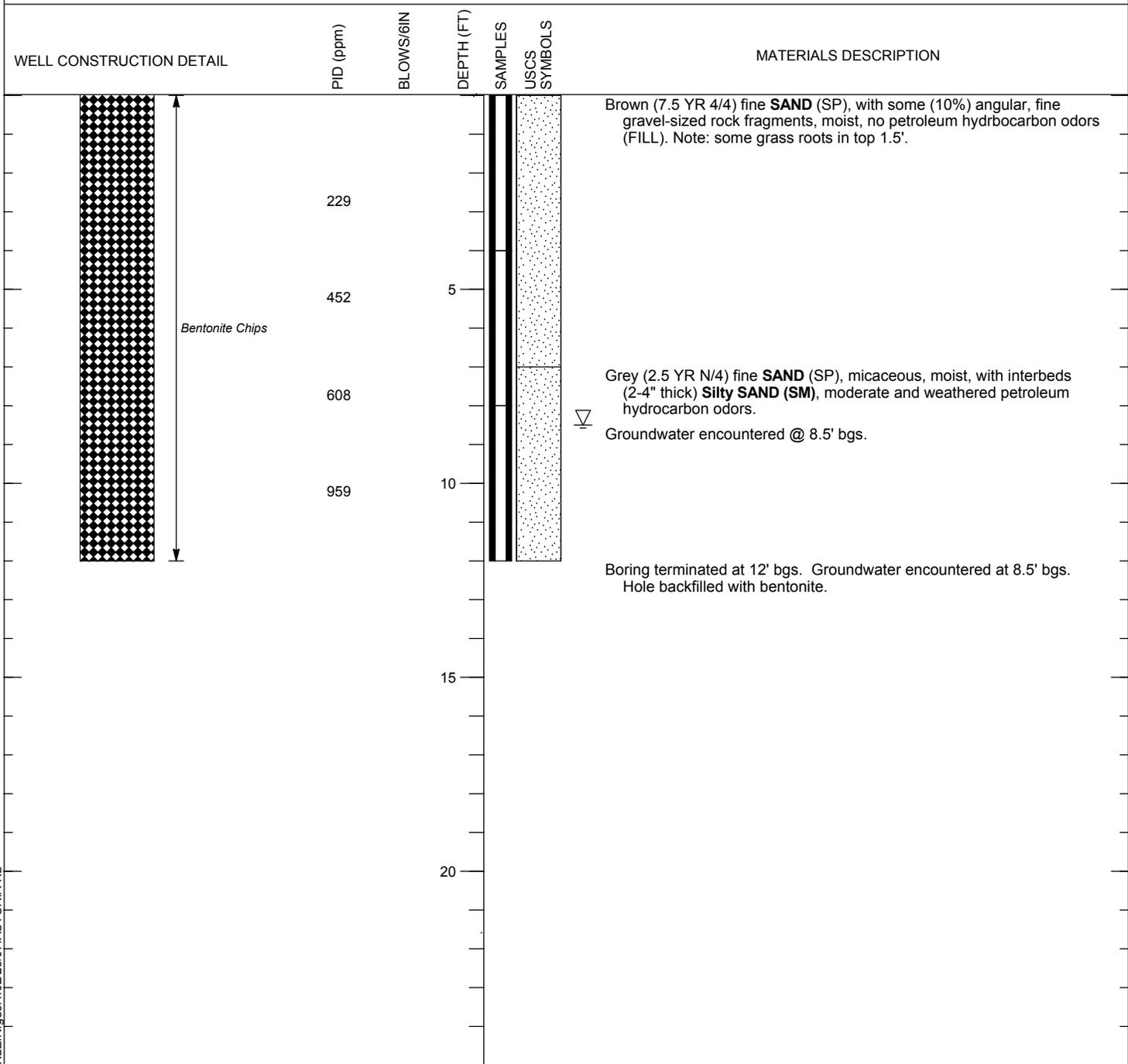


KLEIN_gds.4.02/28/07.ASTORIA-KL

FIGURE B-85
LOG OF
SOIL BORING SB-404 (F)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	60-5501-01	REFERENCE POINT ELEVATION	
LOGGED BY	R. Khandoker	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002



KLEIN.gds:4.02/28/07.ASTORIA-KL

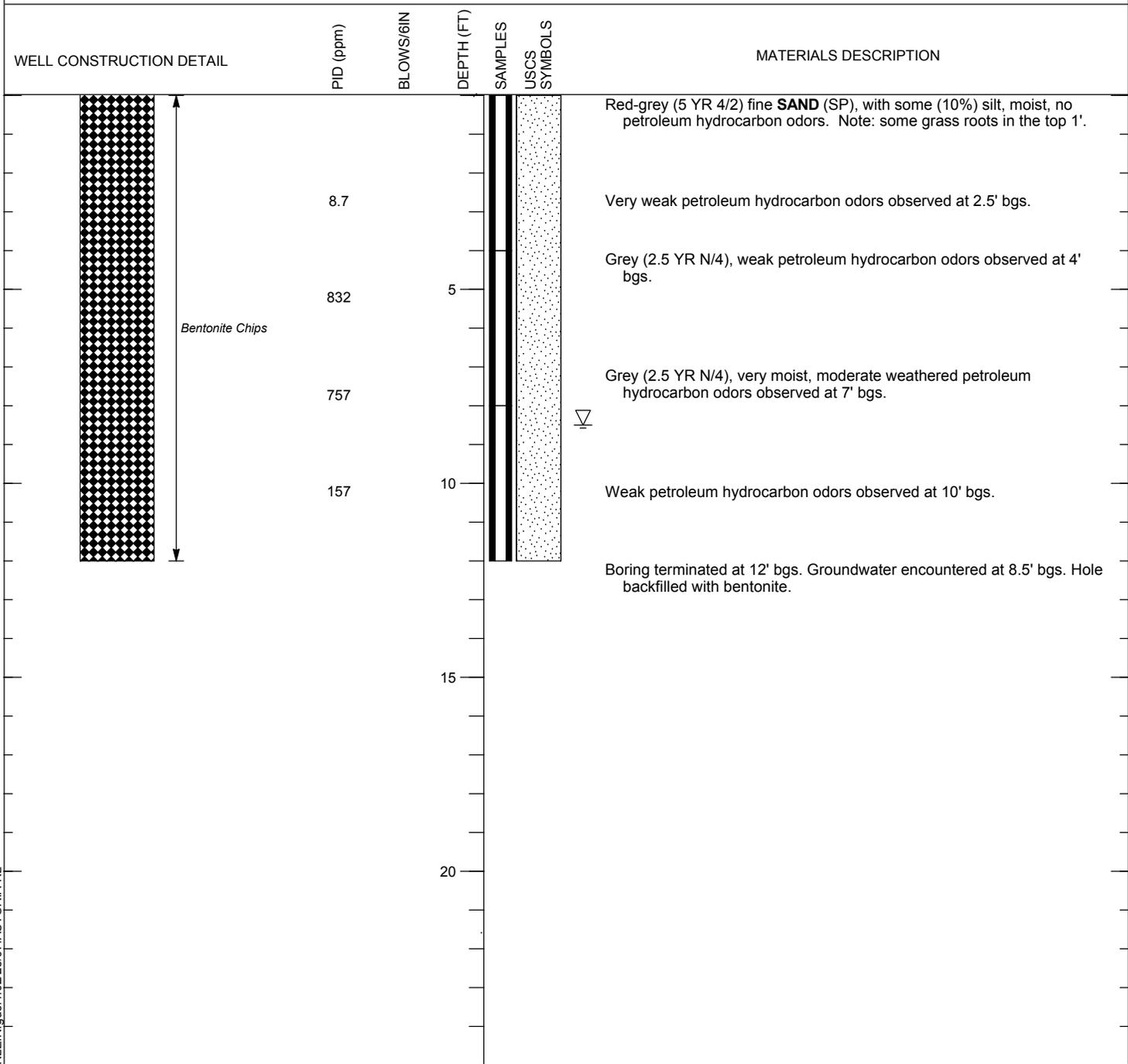
FIGURE B-86

**LOG OF
SOIL BORING SB-405 (F)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	60-5501-01	REFERENCE POINT ELEVATION	
LOGGED BY	R. Khandoker	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002



KLEIN.gds:4.02/28/07.ASTORIA-KL

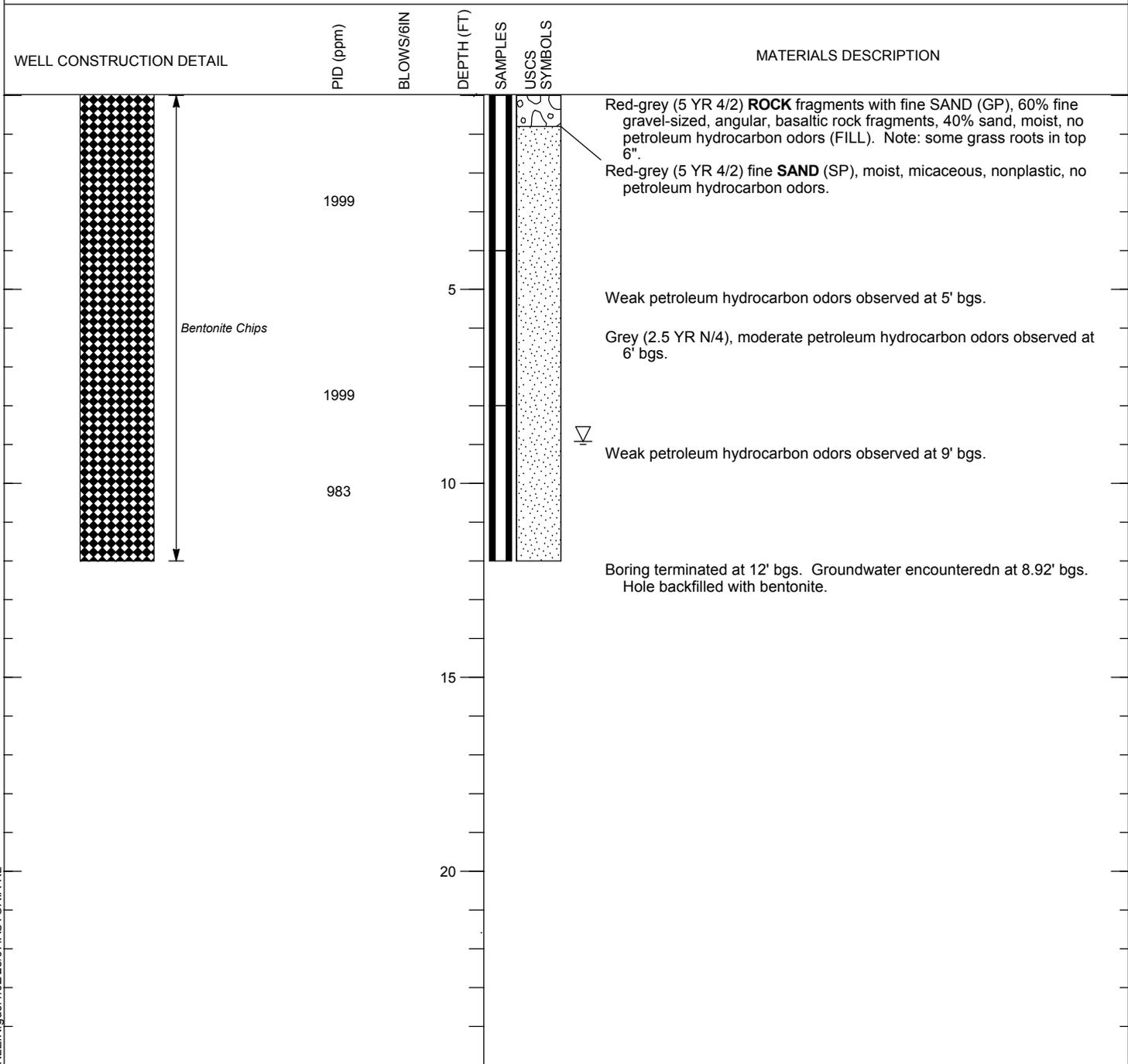
FIGURE B-87

**LOG OF
SOIL BORING SB-406 (F)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	60-5501-01	REFERENCE POINT ELEVATION	
LOGGED BY	R. Khandoker	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002



KLEIN.gds:4.02/28/07.ASTORIA-KL

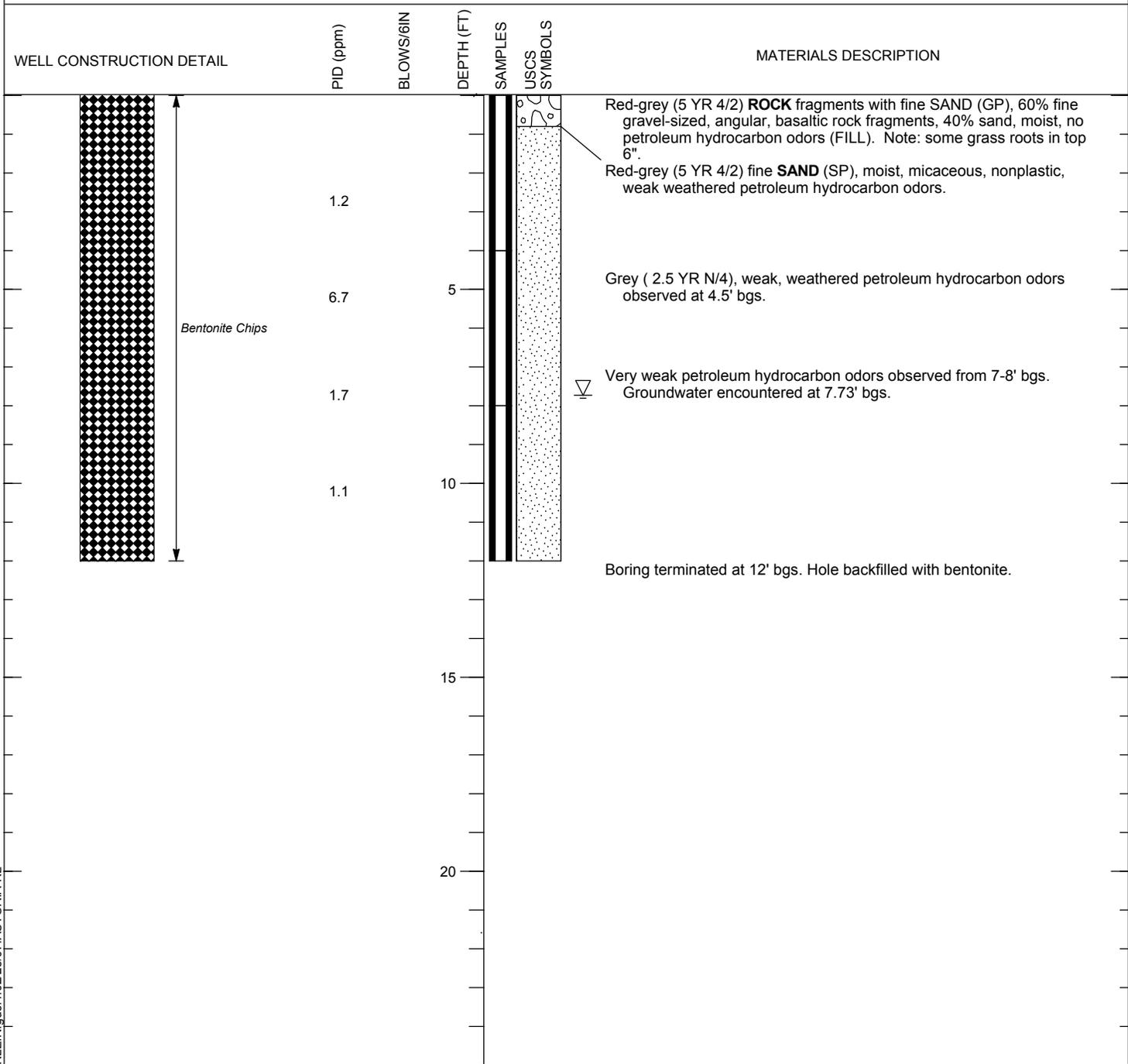
FIGURE B-88

**LOG OF
SOIL BORING SB-407 (F)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	60-5501-01	REFERENCE POINT ELEVATION	
LOGGED BY	R. Khandoker	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

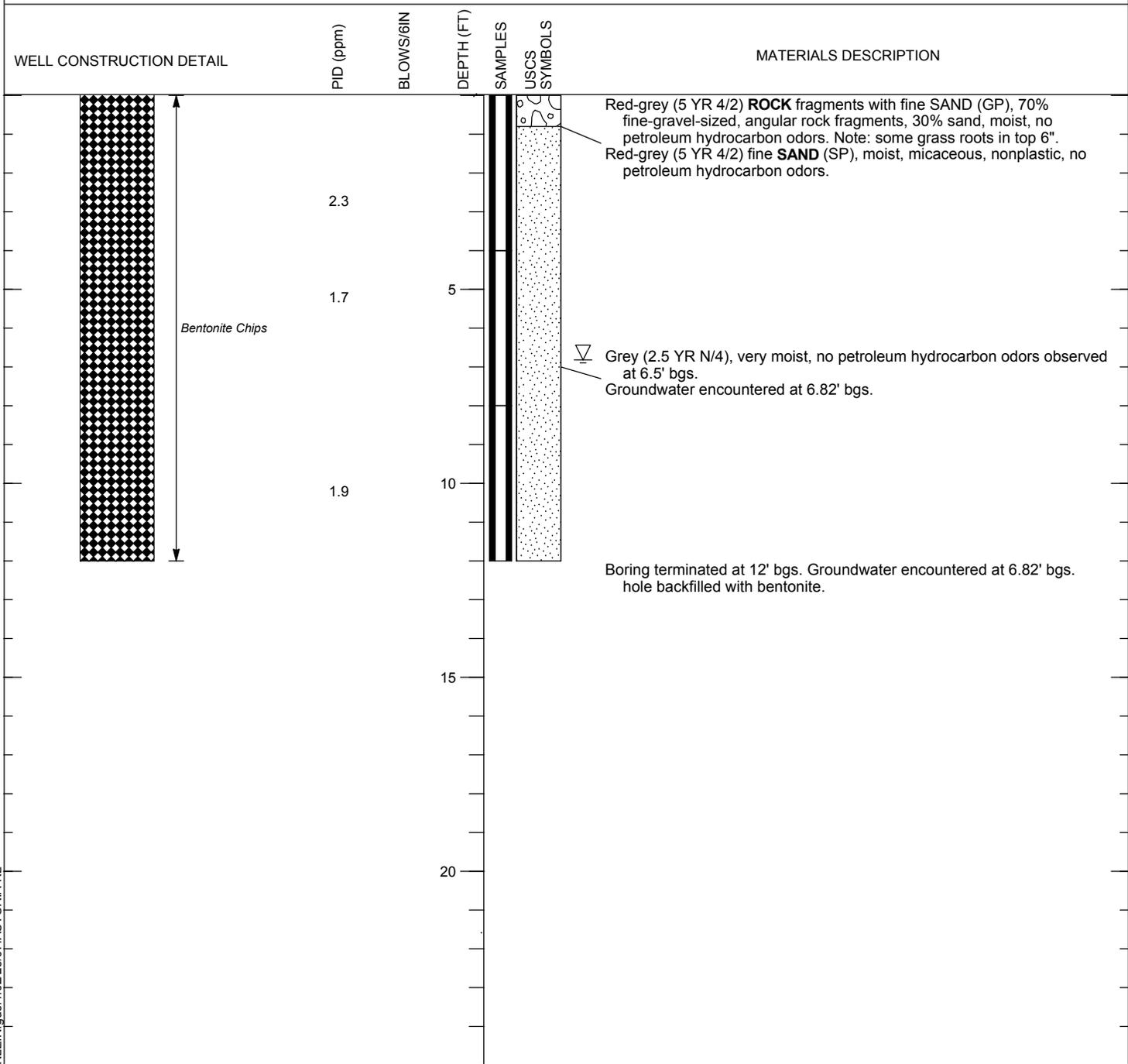


KLEIN.gds:4.02/28/07.ASTORIA-KL

FIGURE B-89
LOG OF
SOIL BORING SB-408 (F)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	60-5501-01	REFERENCE POINT ELEVATION	
LOGGED BY	R. Khandoker	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/22/2002

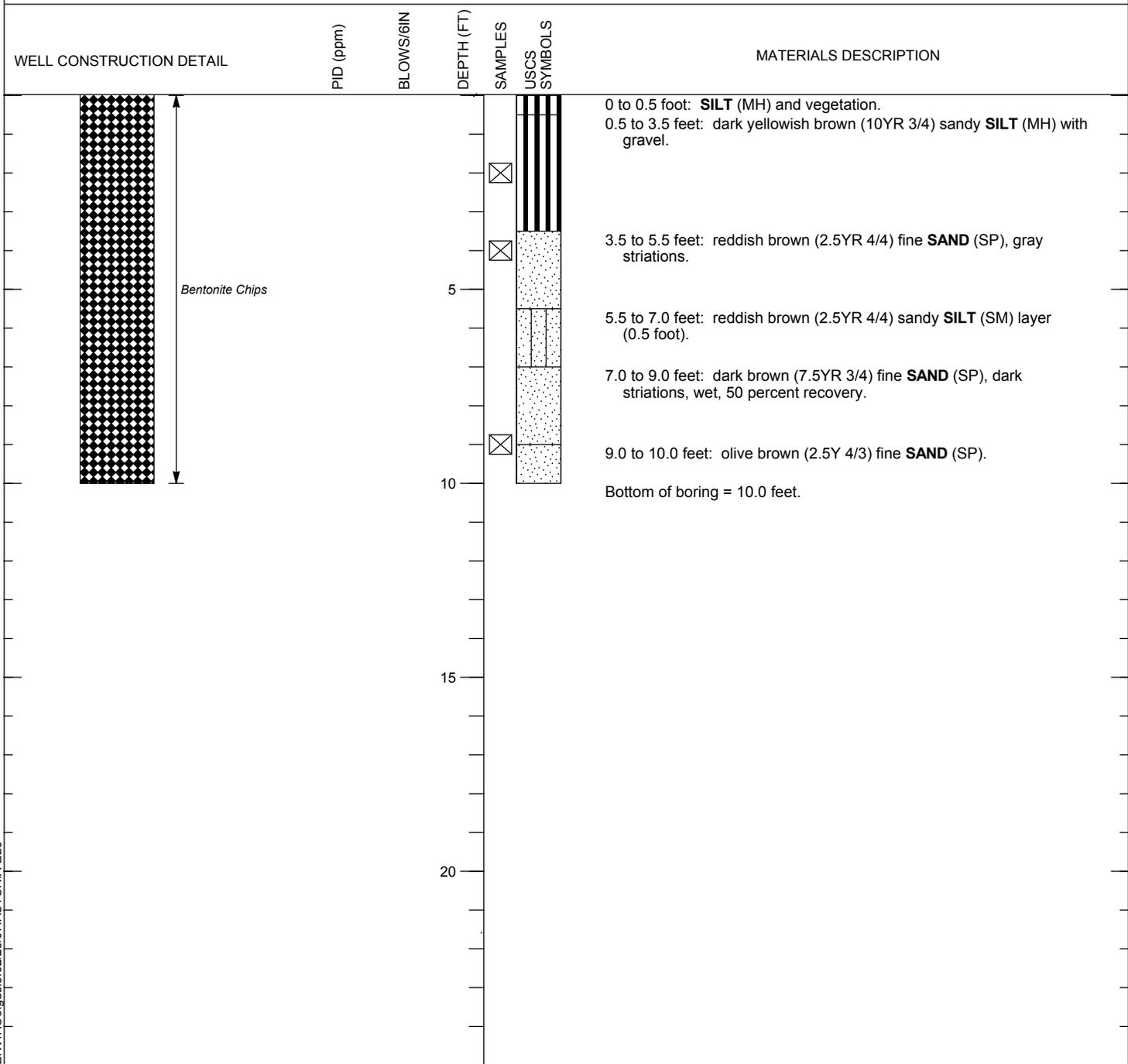


KLEIN.gds:4.02/28/07.ASTORIA-KL

FIGURE B-90
LOG OF
SOIL BORING SB-409 (F)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	10 feet
LOCATION		SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



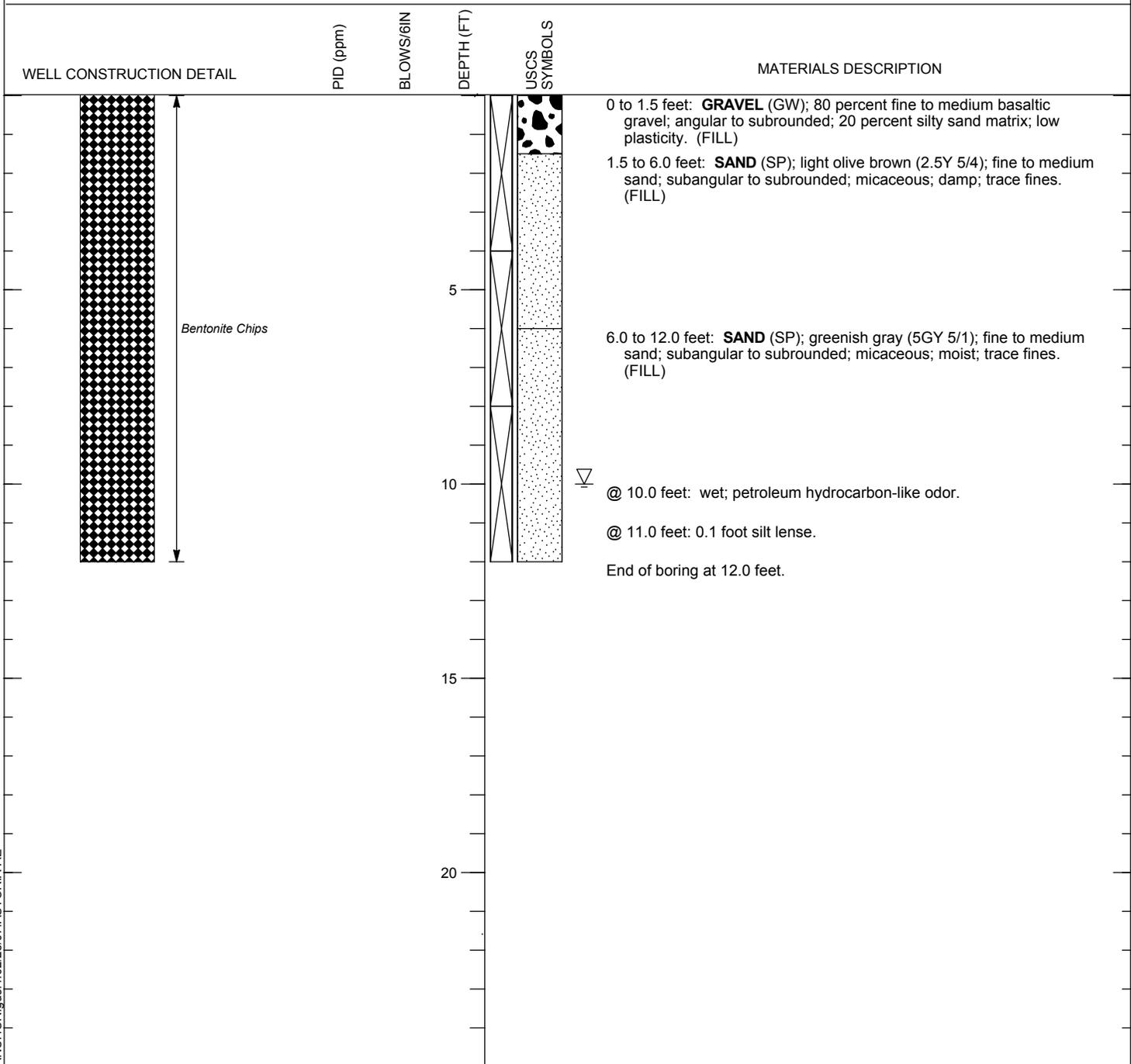
ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

FIGURE B-91
LOG OF
SOIL BORING SB-410(F)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002



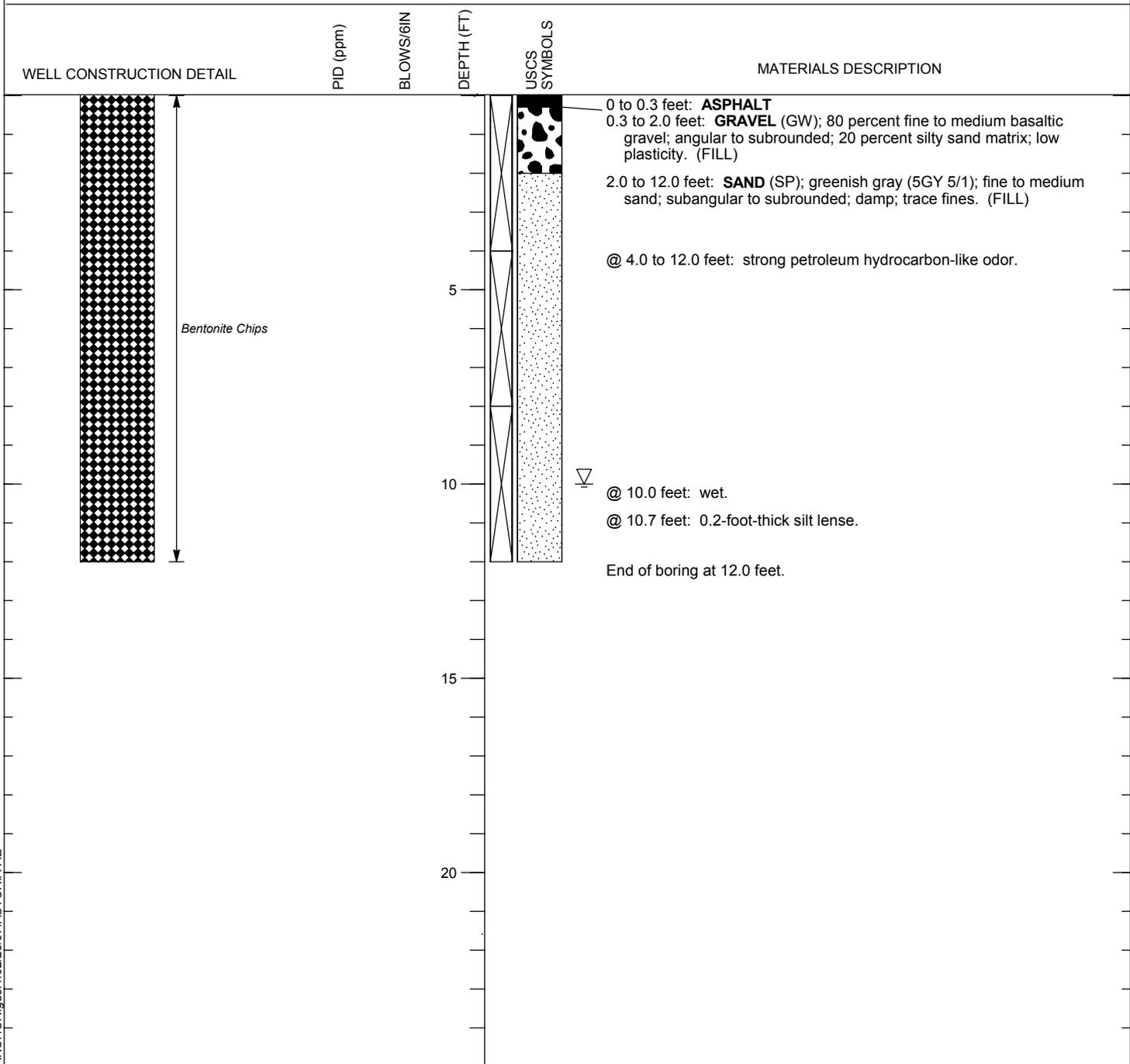
ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-92
LOG OF
SOIL BORING SB-500 (M)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002



ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-93

LOG OF

SOIL BORING SB-501 (M)

Remedial Investigation/Feasibility Study

Astoria Area-Wide Petroleum Site

Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002

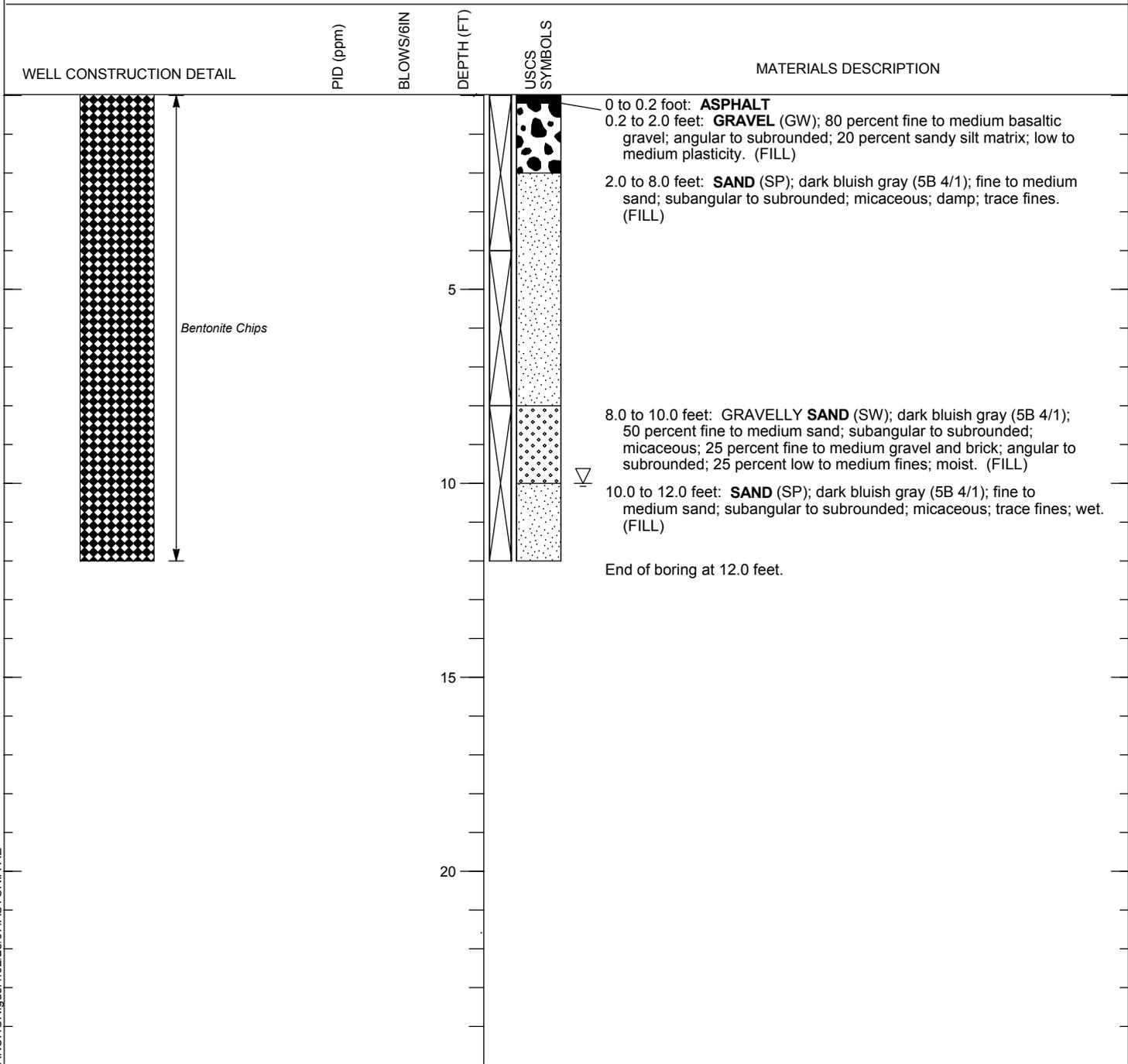


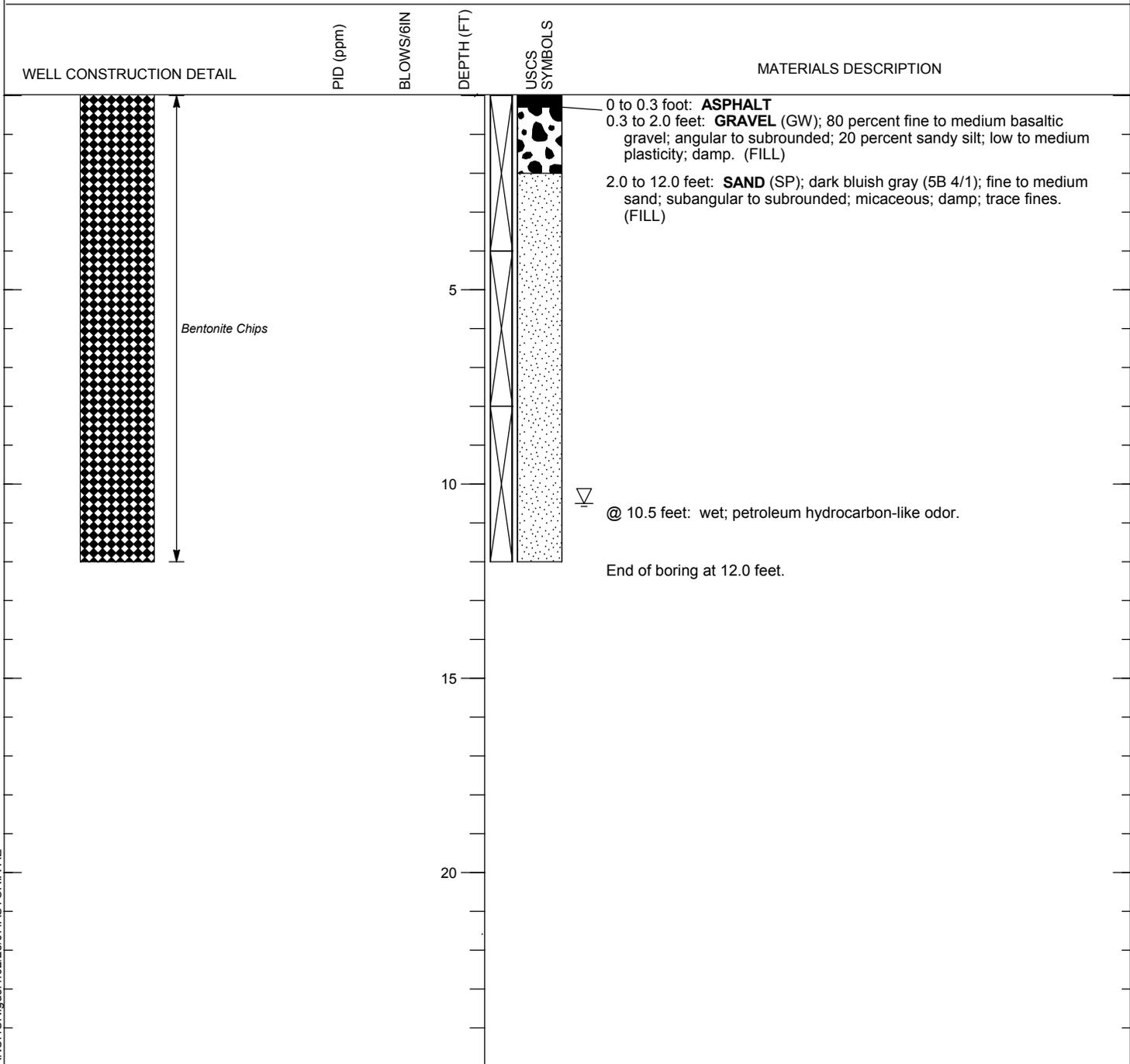
FIGURE B-94
LOG OF
SOIL BORING SB-502 (M)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



ANCHOR.gds:4.02/28/07.ASTORIA-AE

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002



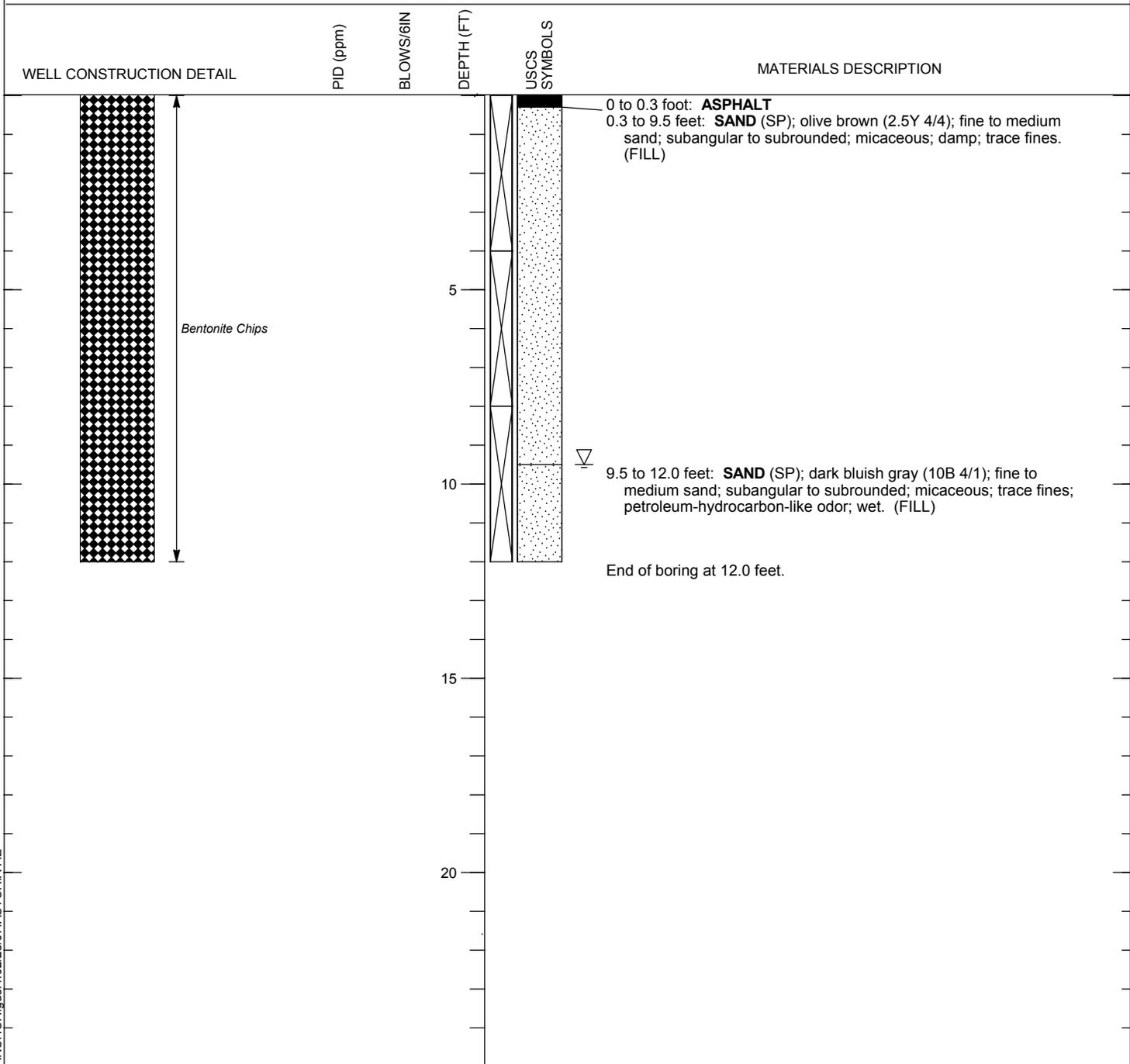
ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-95
LOG OF
SOIL BORING SB-503 (M)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002



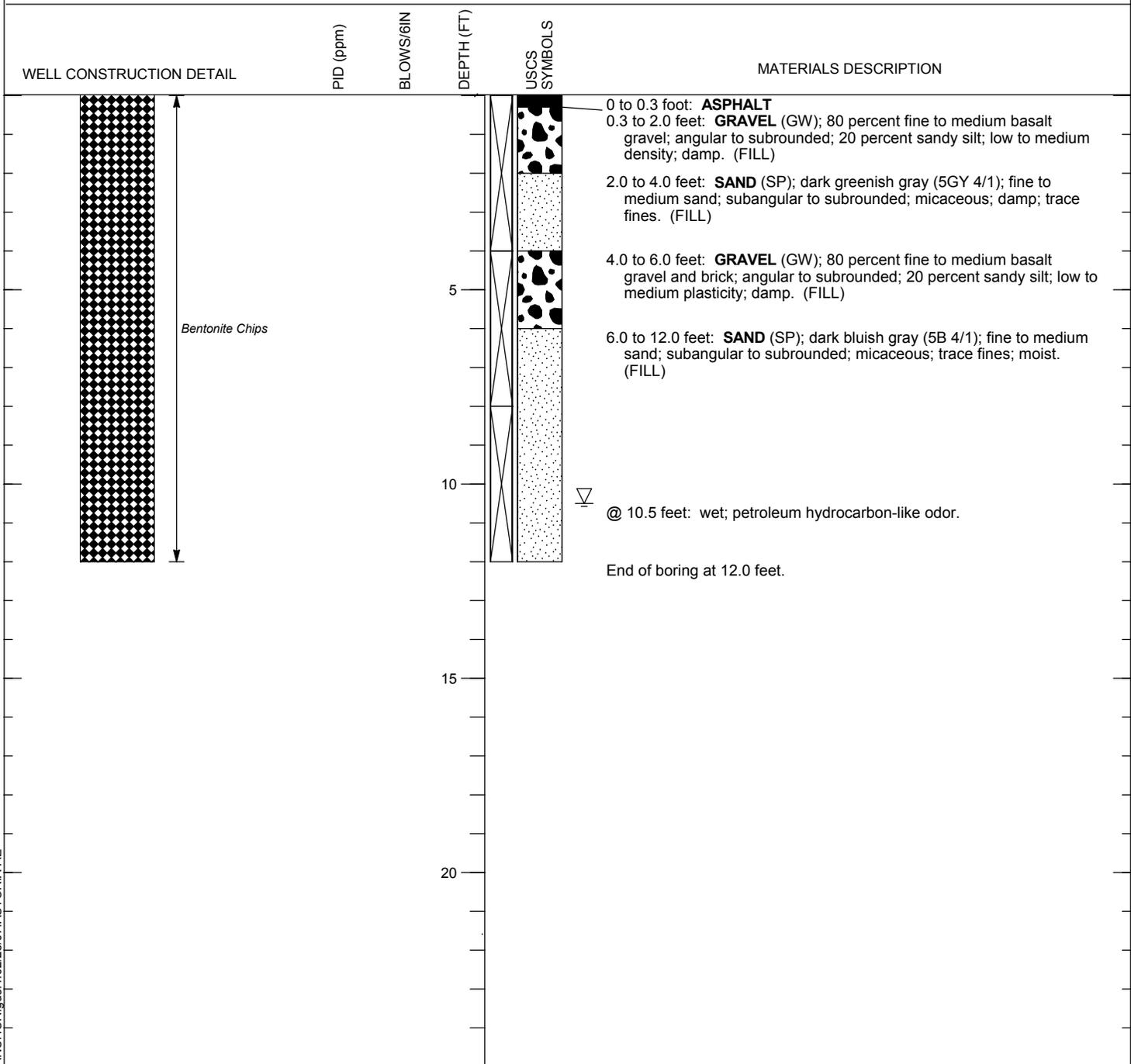
ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-96
LOG OF
SOIL BORING SB-504 (M)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002



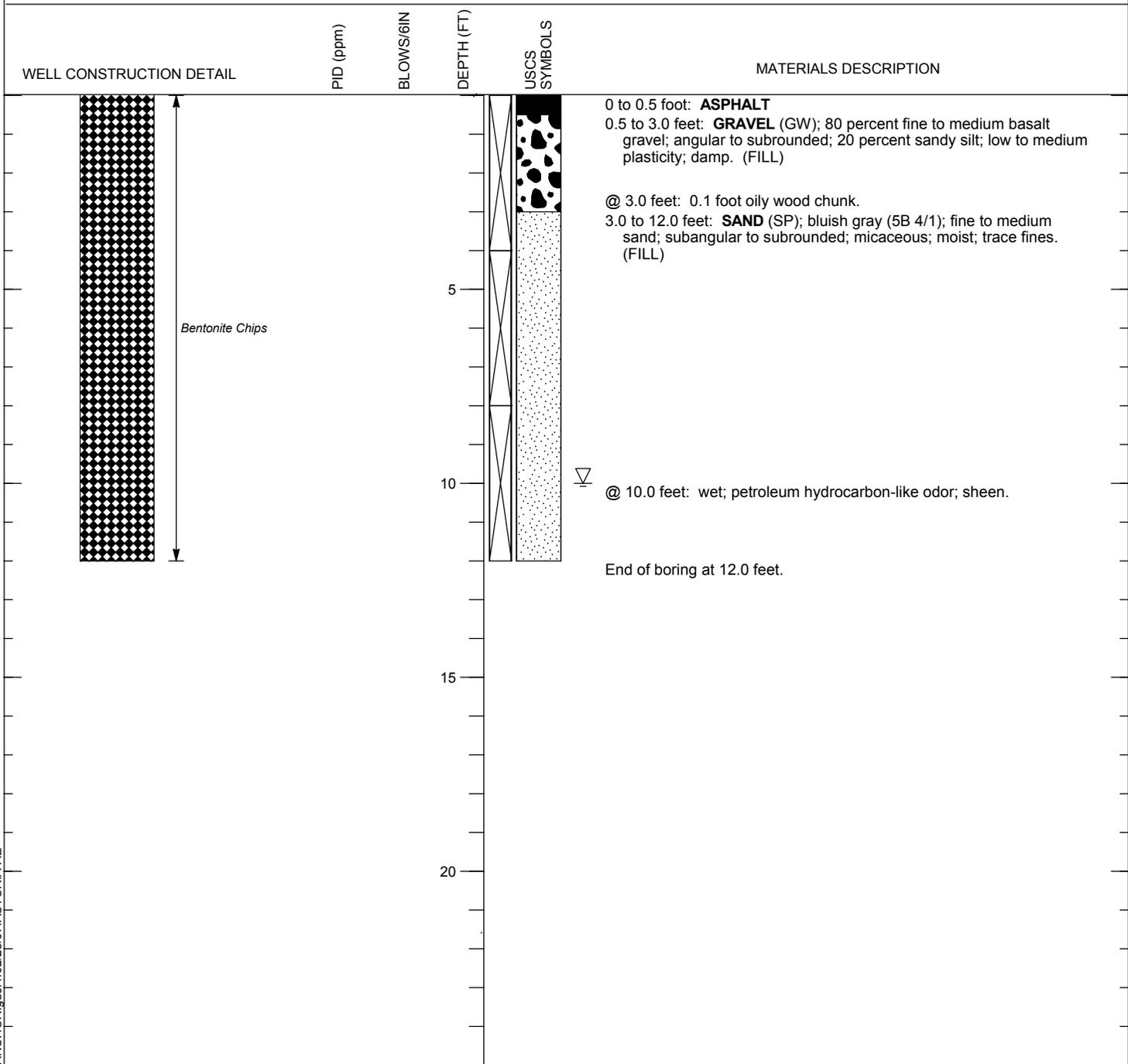
ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-97
LOG OF
SOIL BORING SB-505 (M)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002



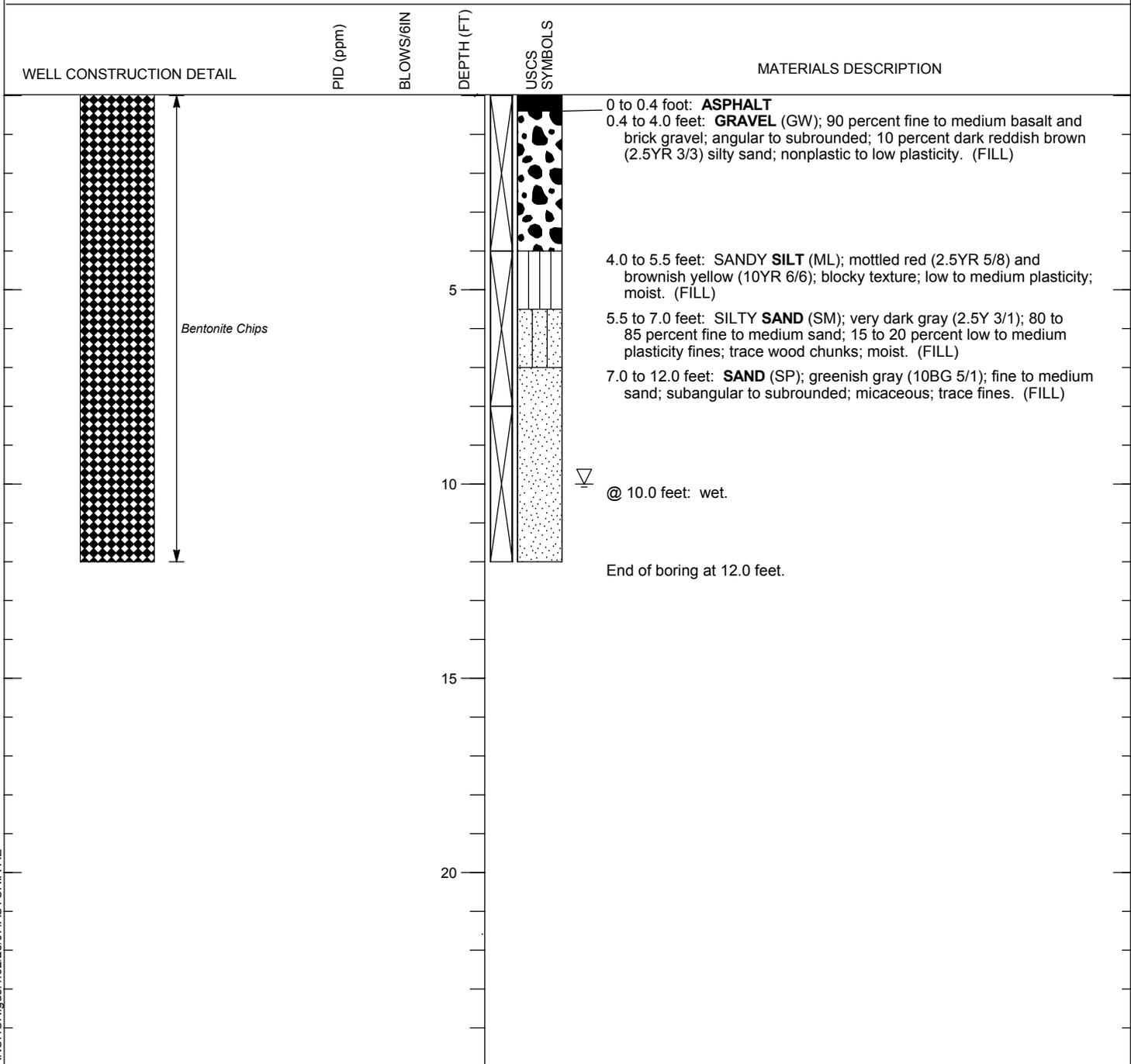
ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-98
LOG OF
SOIL BORING SB-506 (M)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002



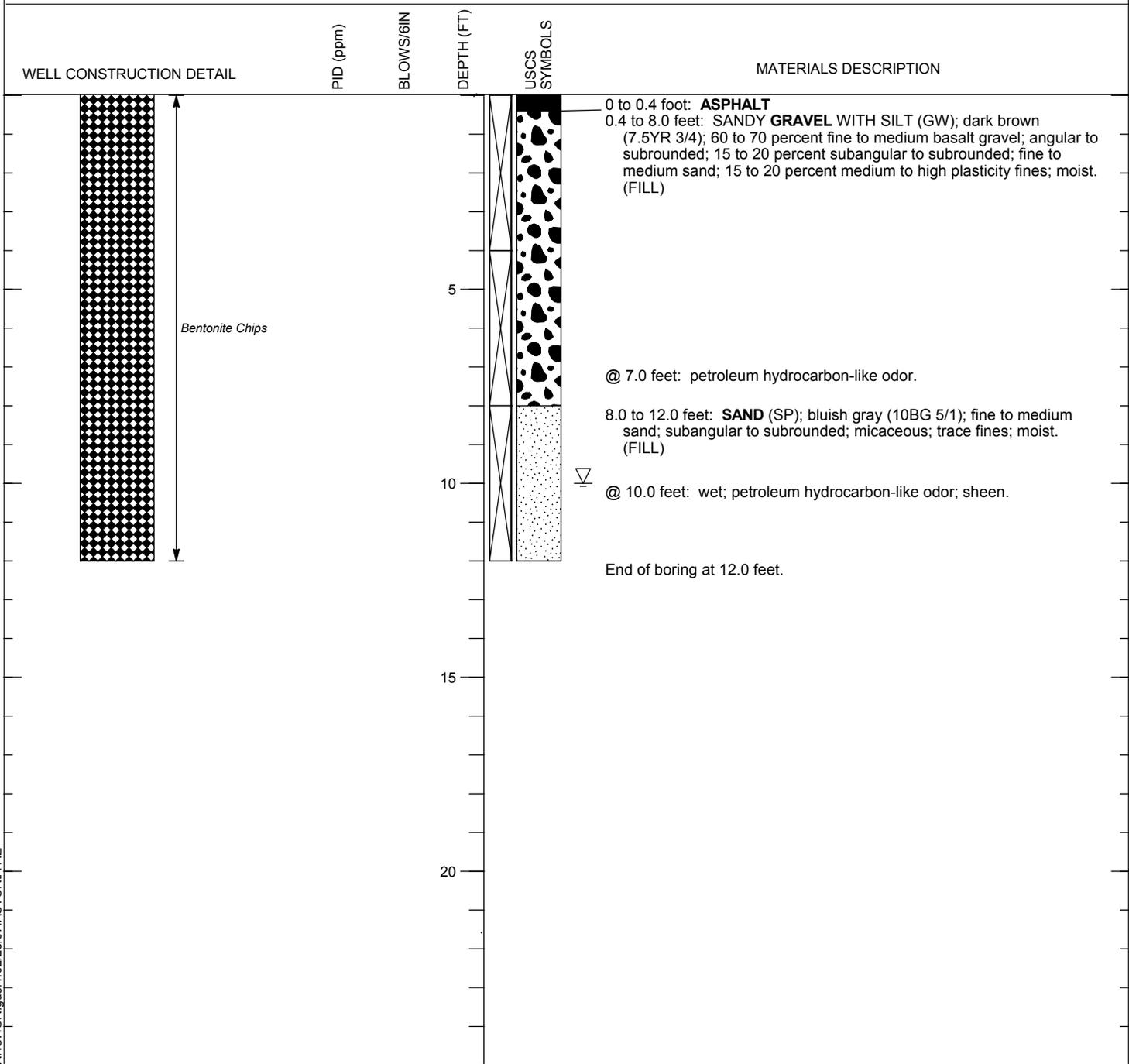
ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-99
LOG OF
SOIL BORING SB-507 (M)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002

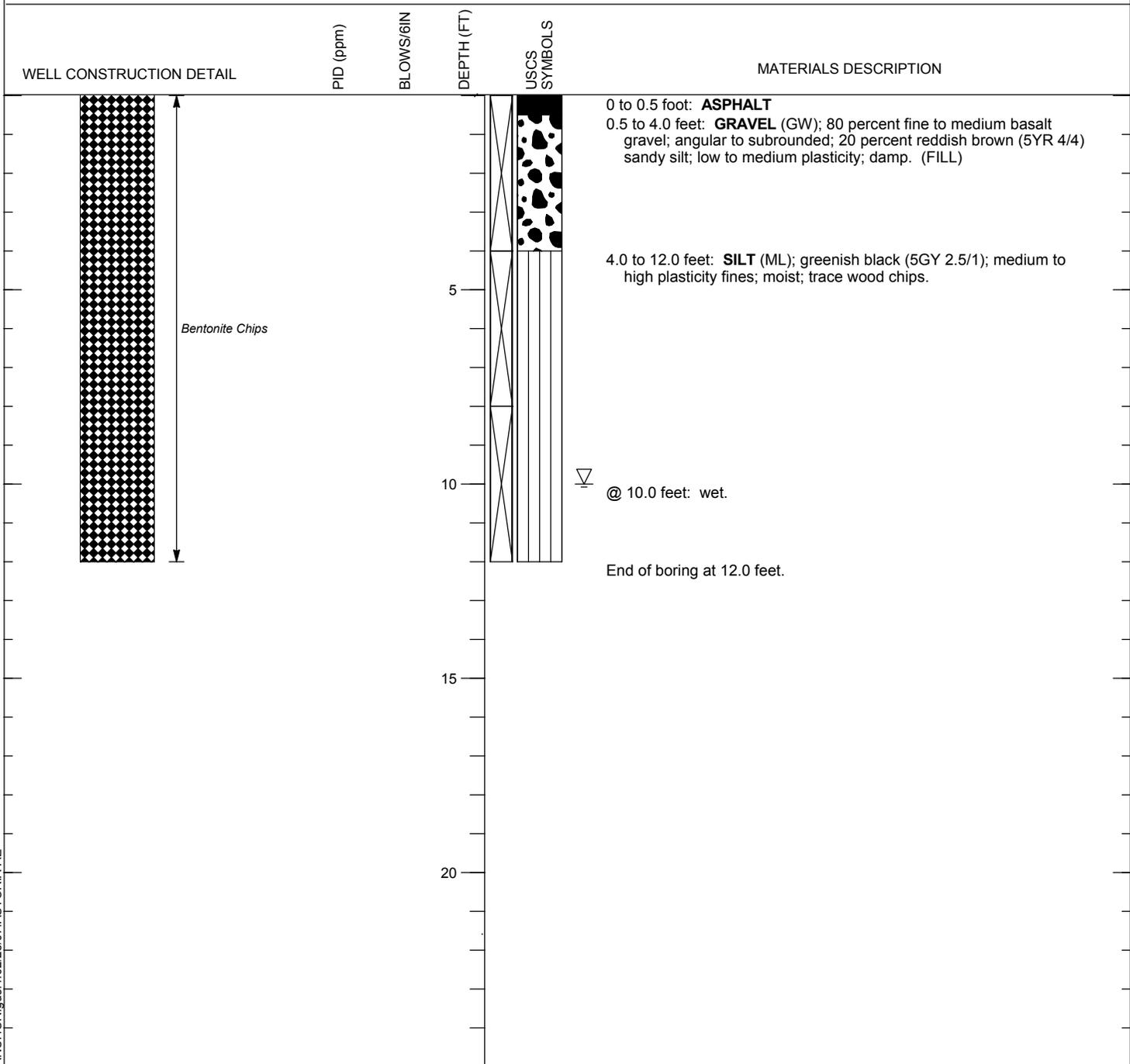


ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-100
LOG OF
SOIL BORING SB-508 (M)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002

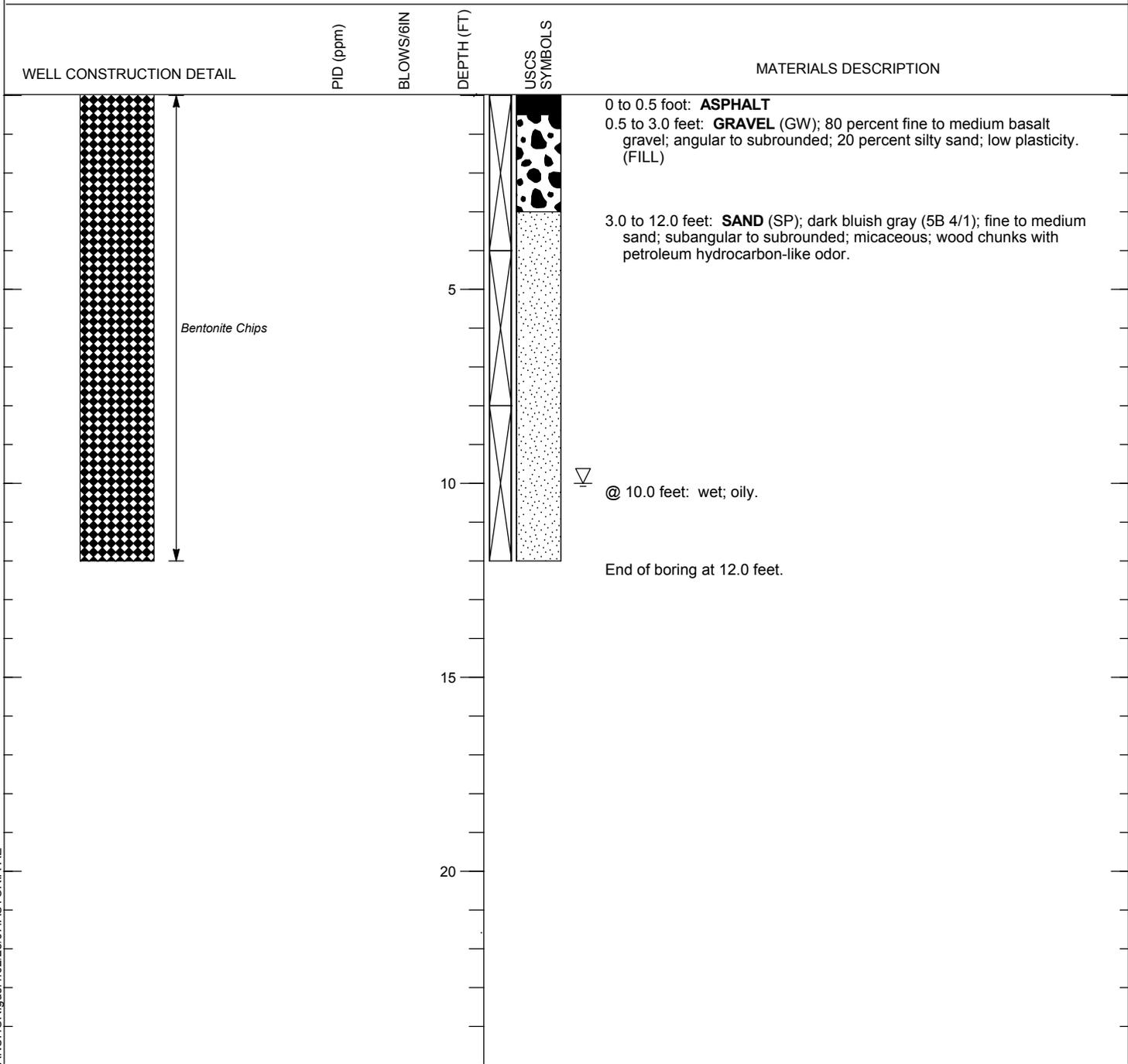


ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-101
LOG OF
SOIL BORING SB-509 (M)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	020162-01/2	REFERENCE POINT ELEVATION	
LOGGED BY	John Renda	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	GeoTech Explorations, Inc.	DATE STARTED	8/29/2002



ANCHOR.gds:4.02/28/07.ASTORIA-AE

FIGURE B-102

LOG OF

SOIL BORING SB-510 (M)

Remedial Investigation/Feasibility Study

Astoria Area-Wide Petroleum Site

Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02

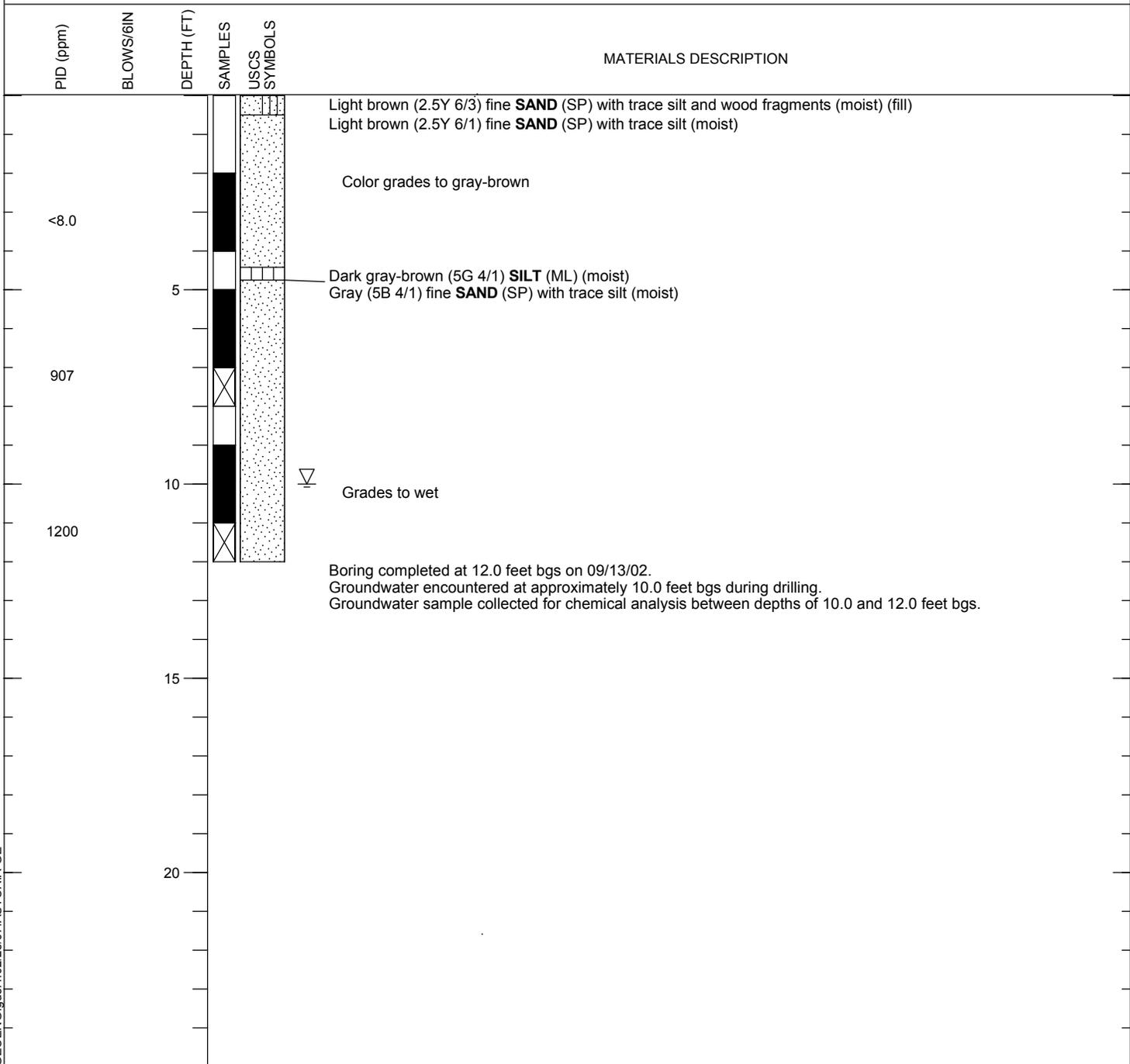


FIGURE B-103

LOG OF
 SOIL BORING SB-600 (N)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02

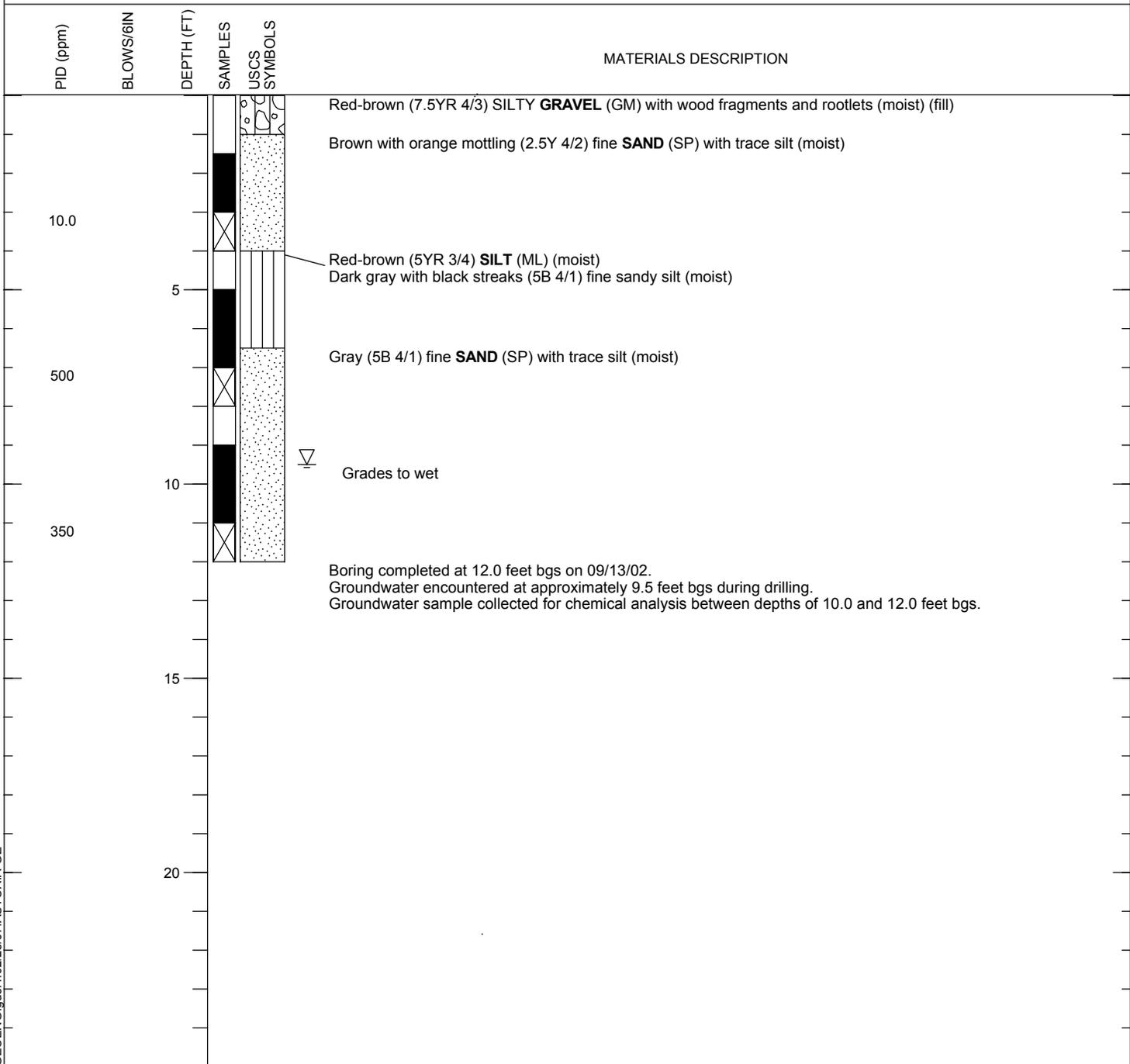


FIGURE B-104

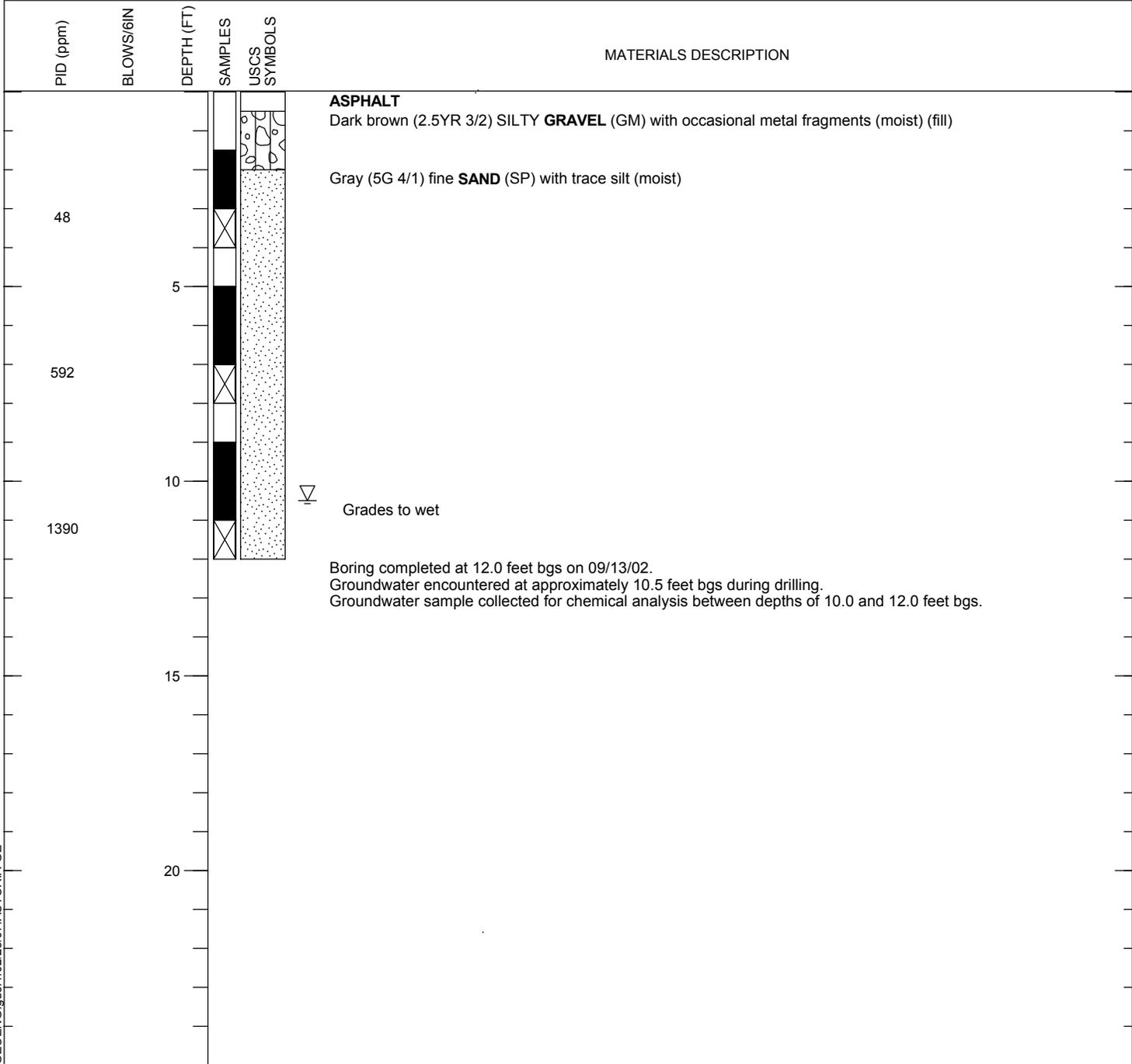
LOG OF
SOIL BORING SB-601 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



GEOENG.gds:4.02/28/07.ASTORIA-GE

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02



GEOENG_gds:4.02/28/07.ASTORIA-GE

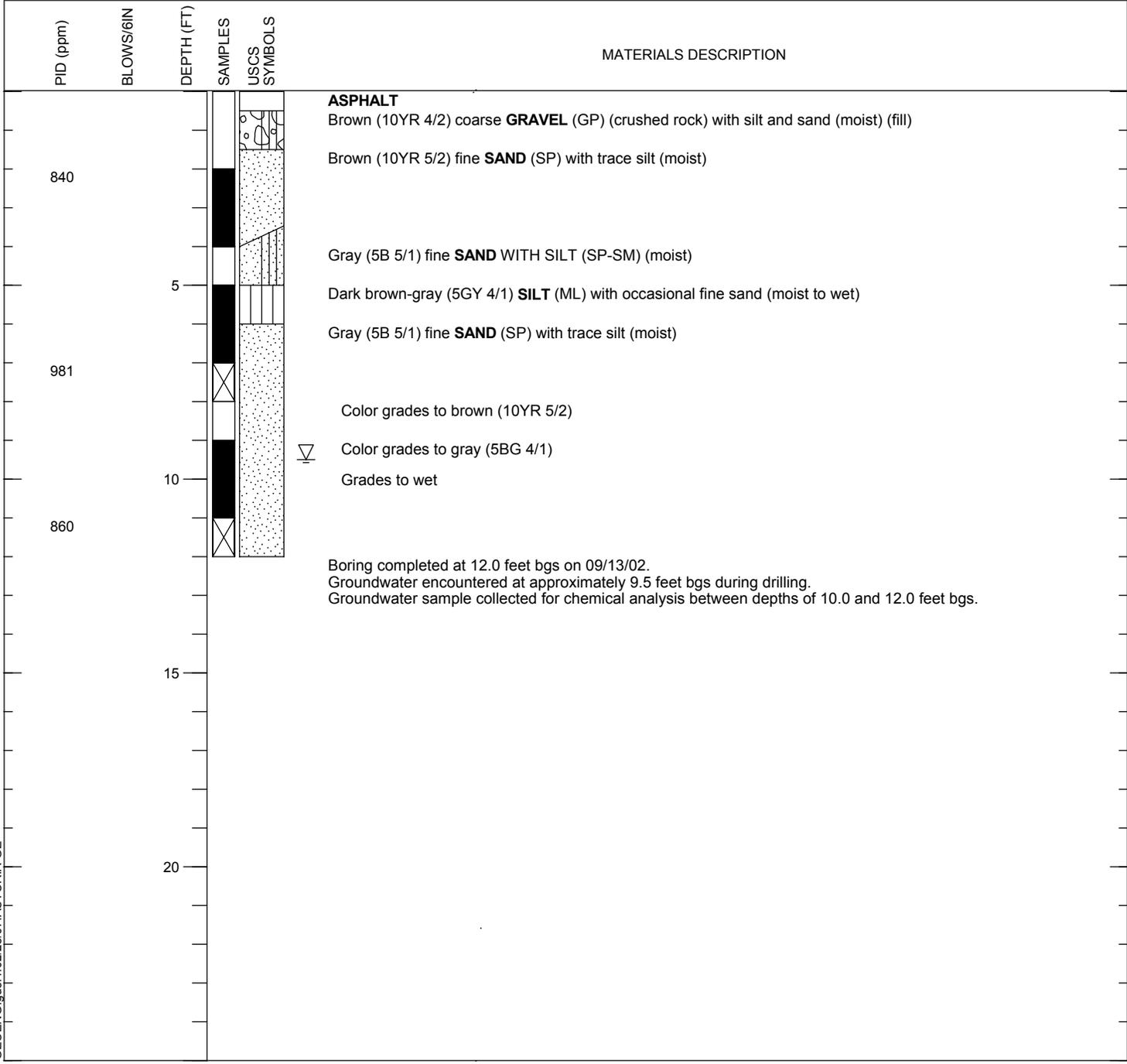
FIGURE B-105

**LOG OF
SOIL BORING SB-602 (N)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02



GEOENG_gds:4.02/28/07.ASTORIA-GE

FIGURE B-106
LOG OF
SOIL BORING SB-603 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Angle Direct Push at 35°	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02

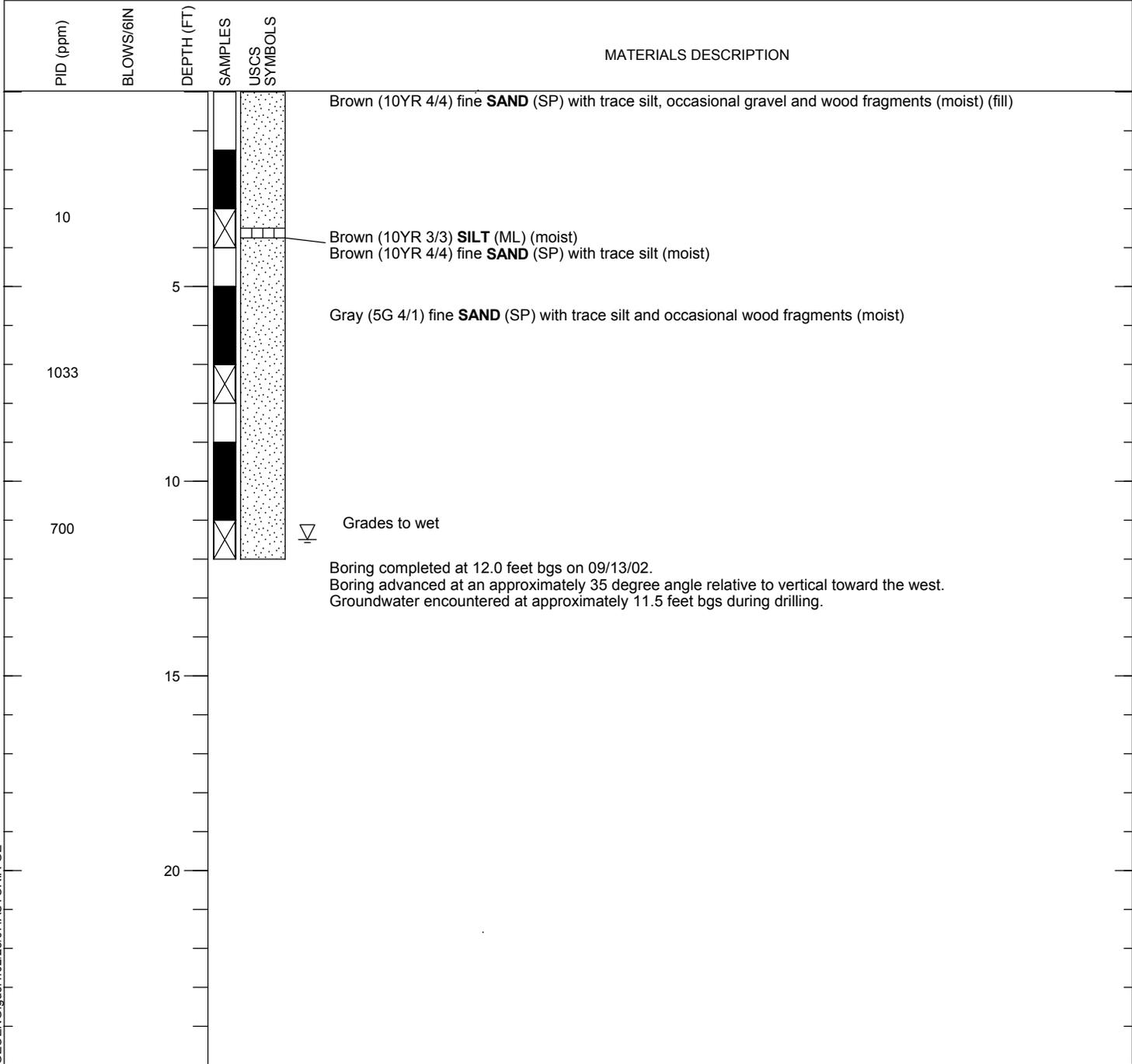


FIGURE B-107

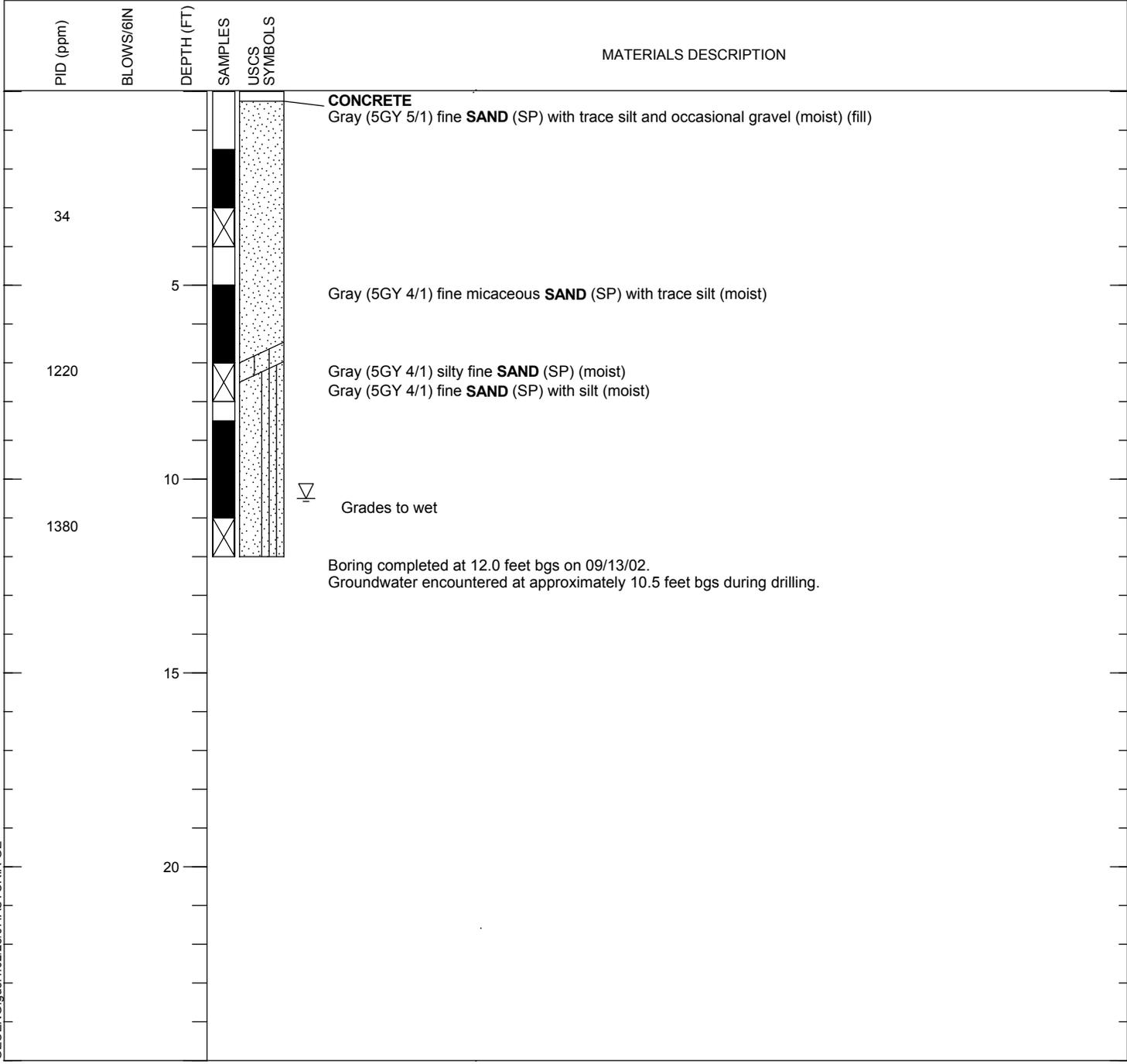
LOG OF
SOIL BORING SB-604 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



GEOENG_gds:4.02/28/07.ASTORIA-GE

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02



GEOENG_gds-4.02/28/07.ASTORIA-GE

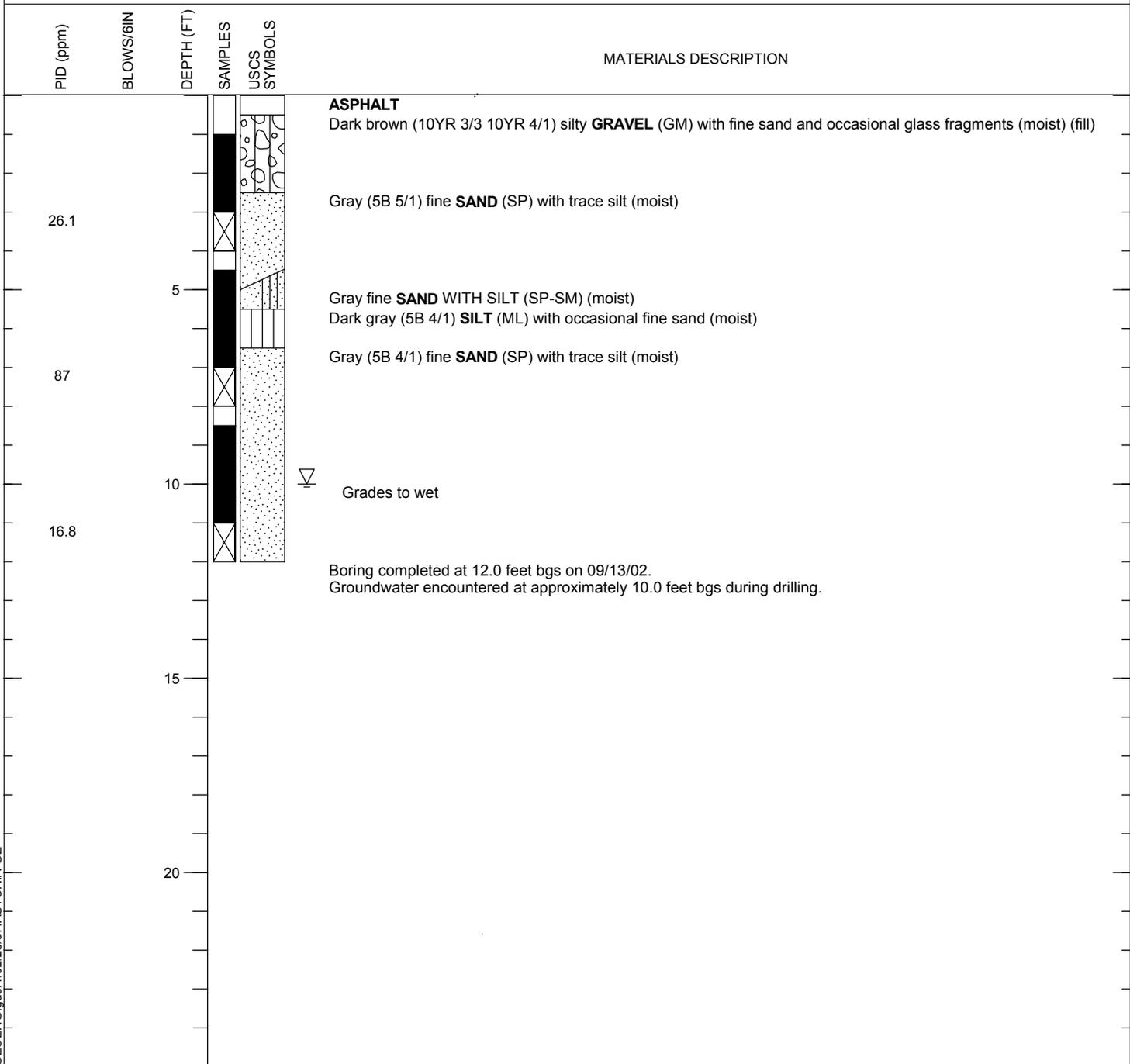
FIGURE B-108

**LOG OF
SOIL BORING SB-605 (N)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02



GEOENG_gds:4.02/28/07.ASTORIA-GE

FIGURE B-109
LOG OF
SOIL BORING SB-606 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02

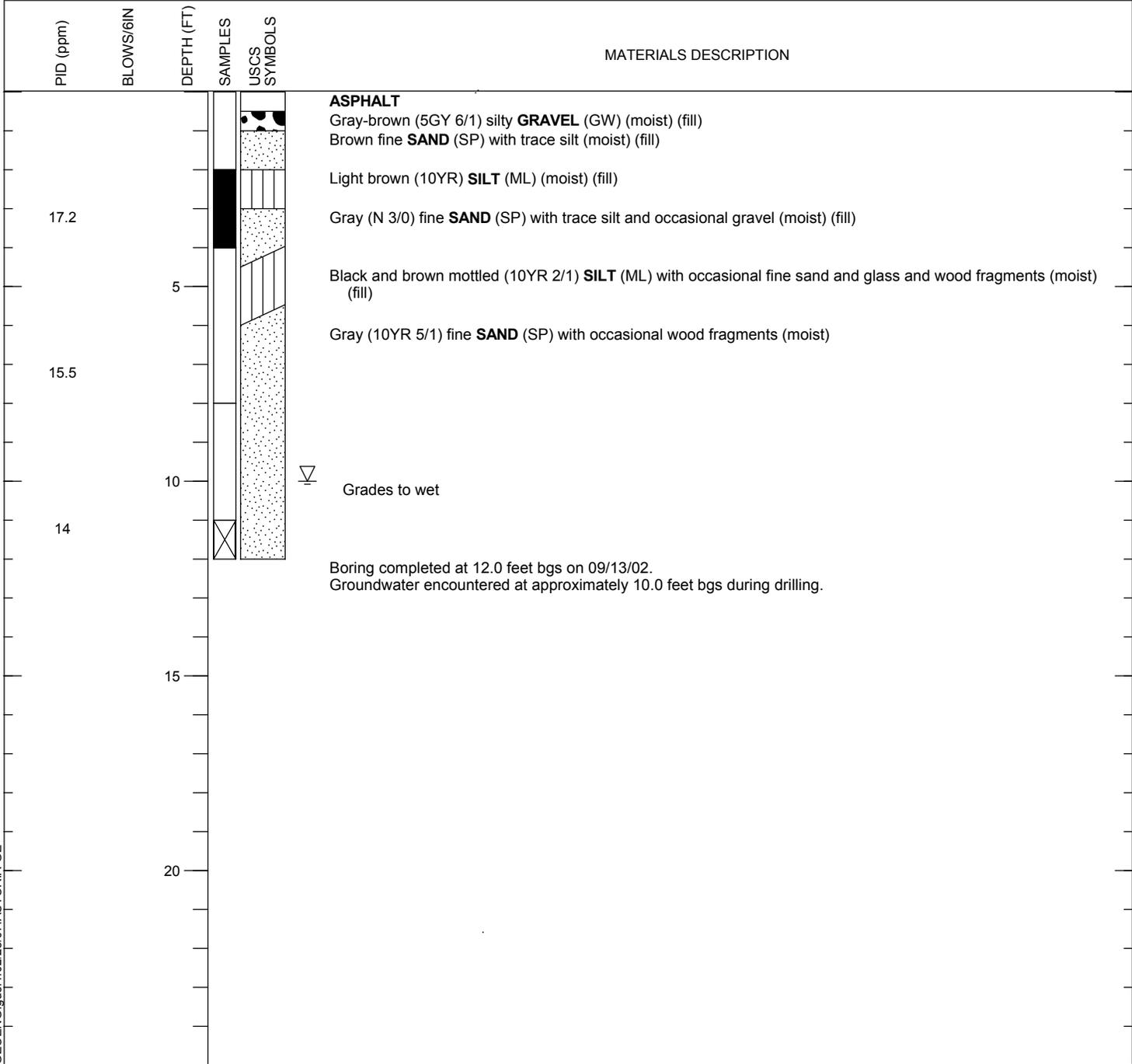


FIGURE B-110

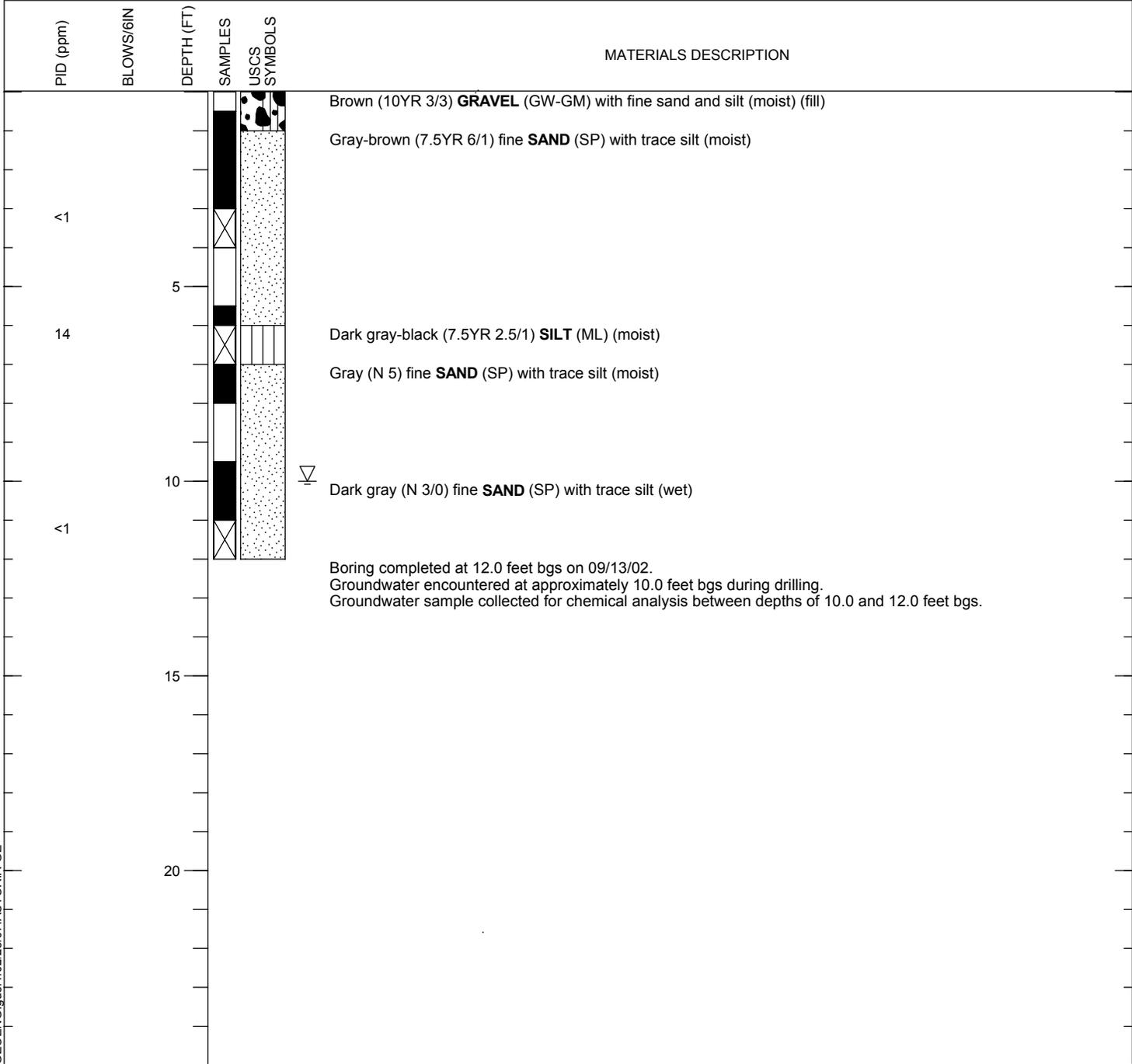
LOG OF SOIL BORING SB-607 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



GEOENG.gds:4.02/28/07.ASTORIA-GE

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02



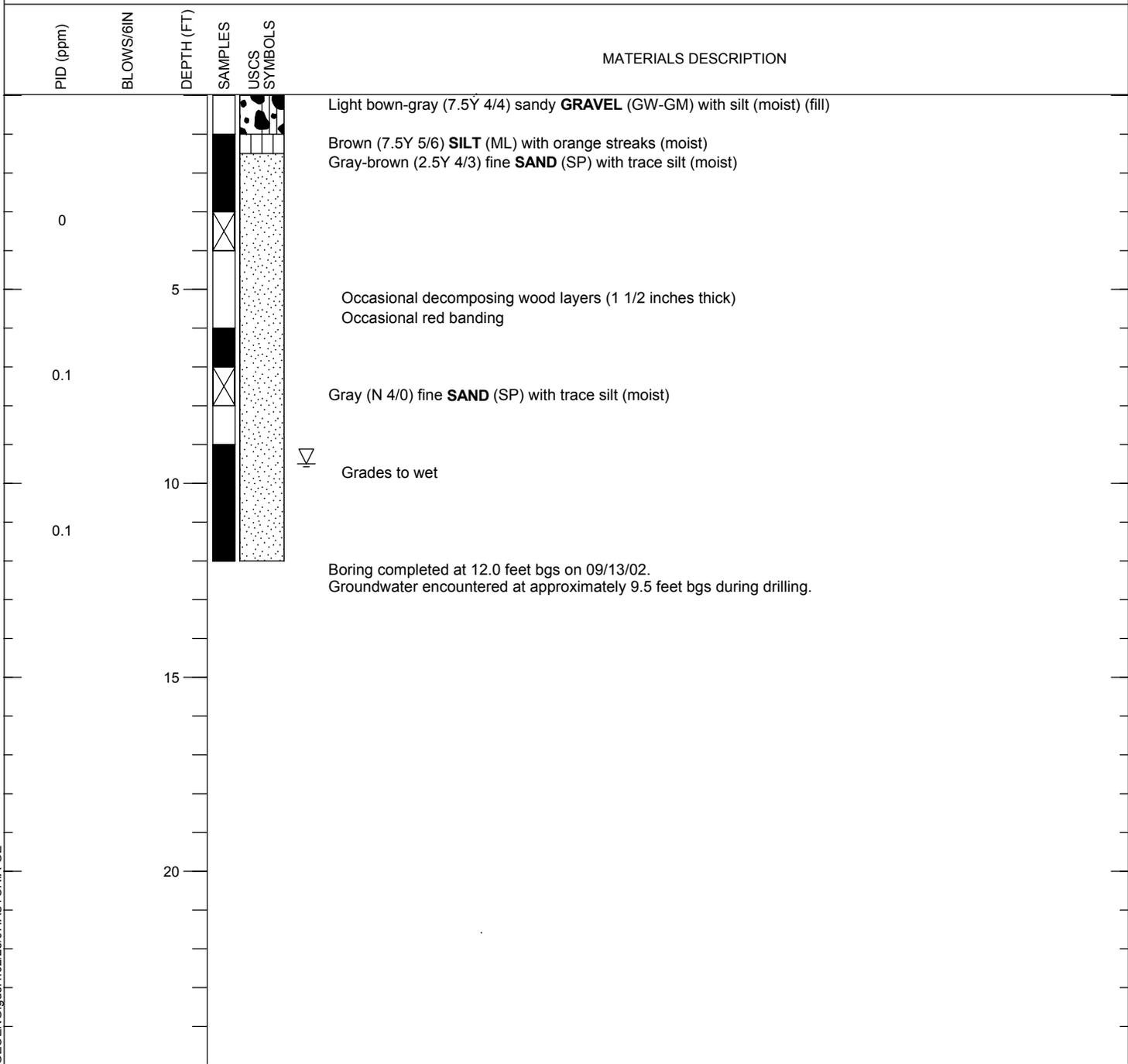
GEOENG_gds:4.02/28/07.ASTORIA-GE

FIGURE B-111
LOG OF
SOIL BORING SB-608 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/13/02



GEOENG_gds:4.02/28/07.ASTORIA-GE

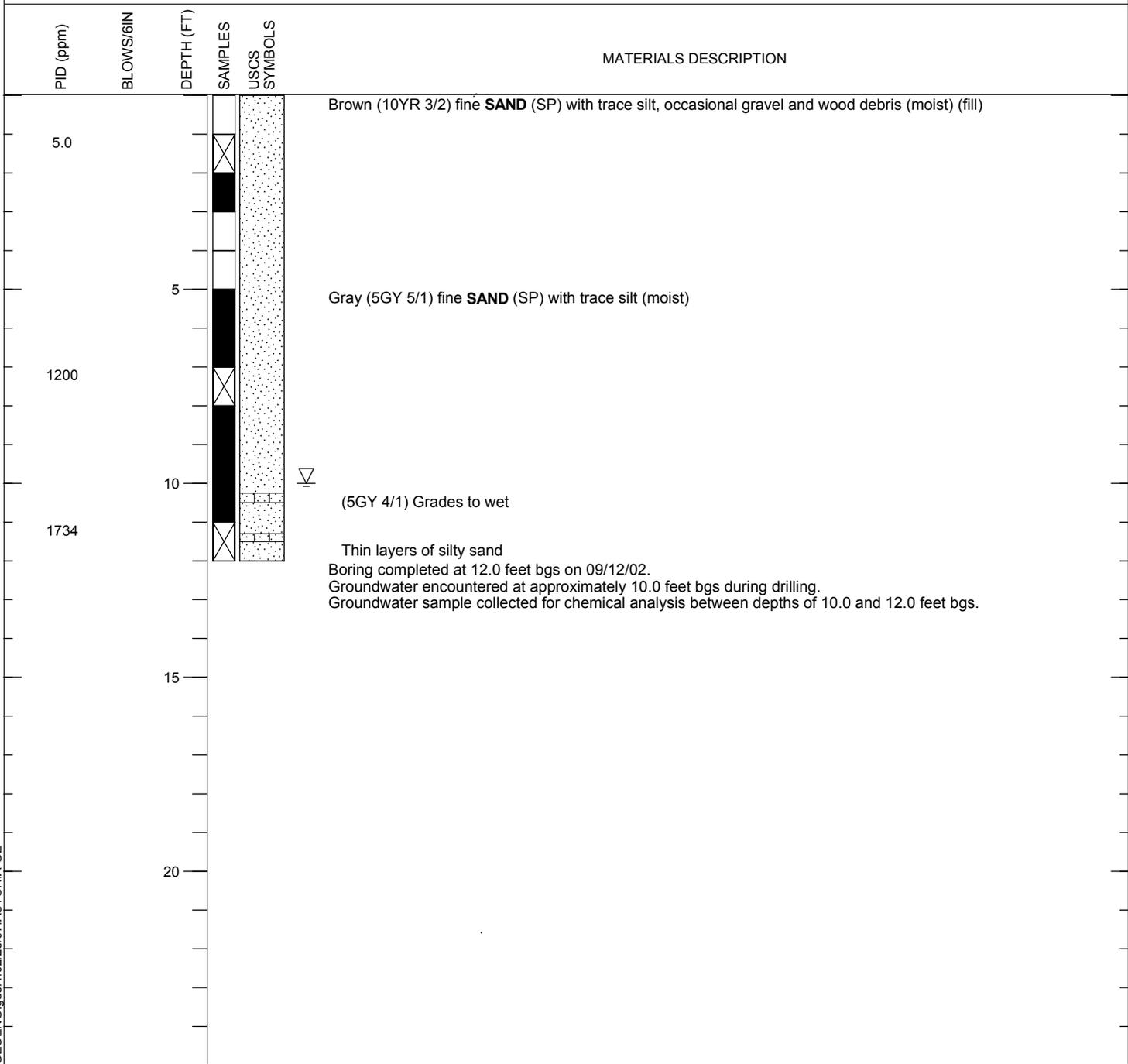
FIGURE B-112

**LOG OF
SOIL BORING SB-609 (N)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02



GEOENG_gds-4_02/28/07_ASTORIA-GE

FIGURE B-113

**LOG OF
SOIL BORING SB-612 (N)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02

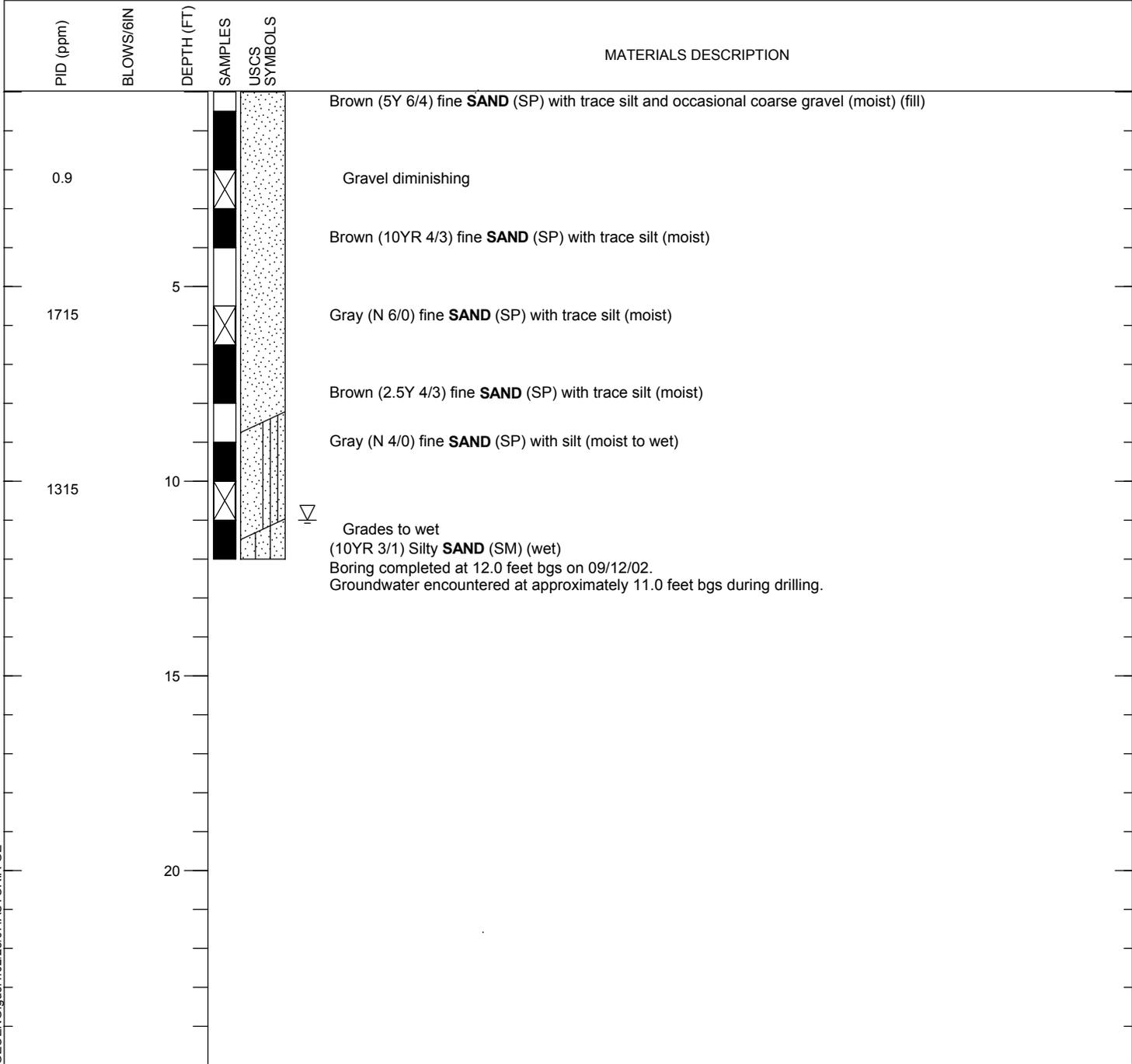


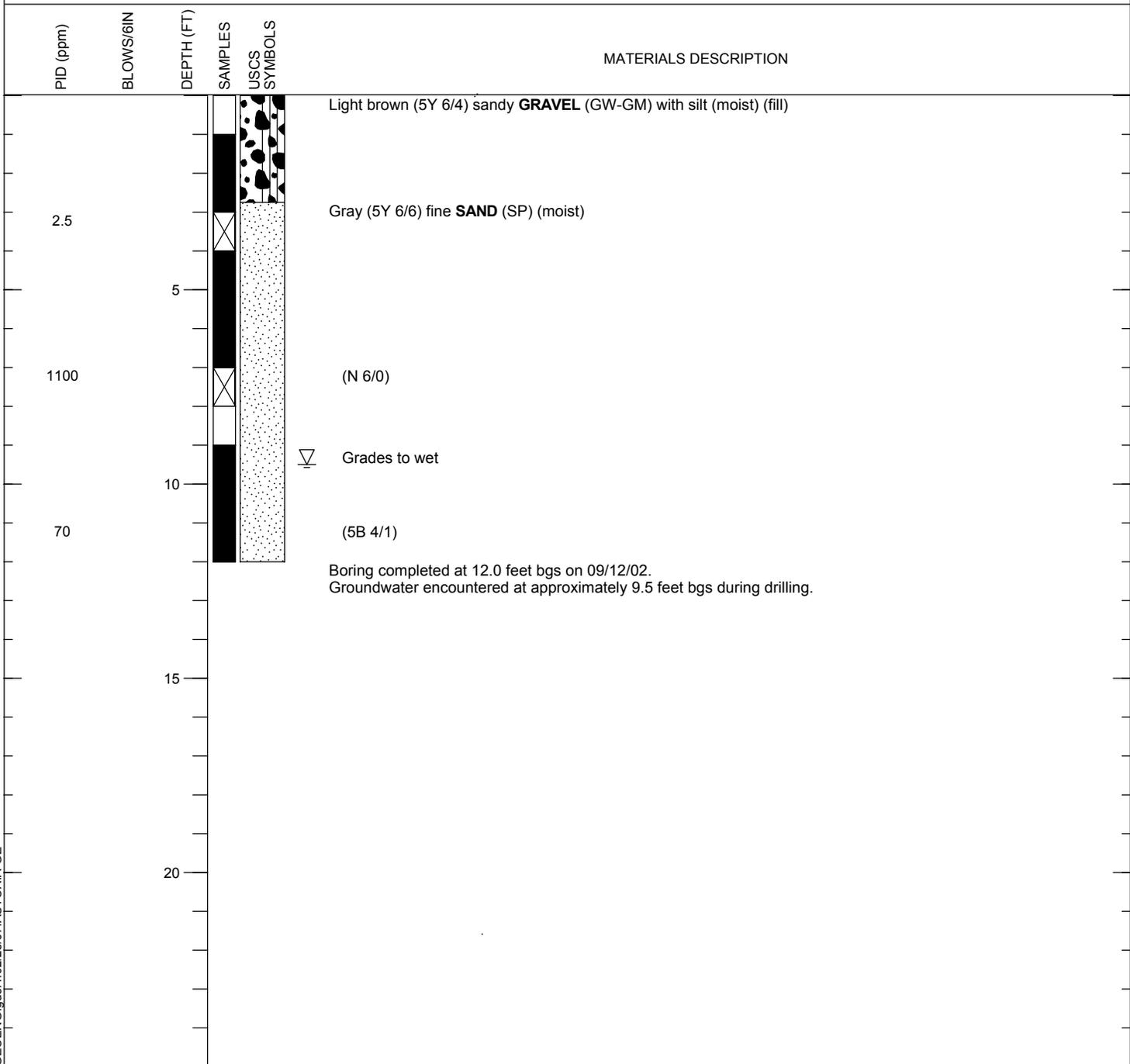
FIGURE B-114

LOG OF
SOIL BORING SB-613 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02



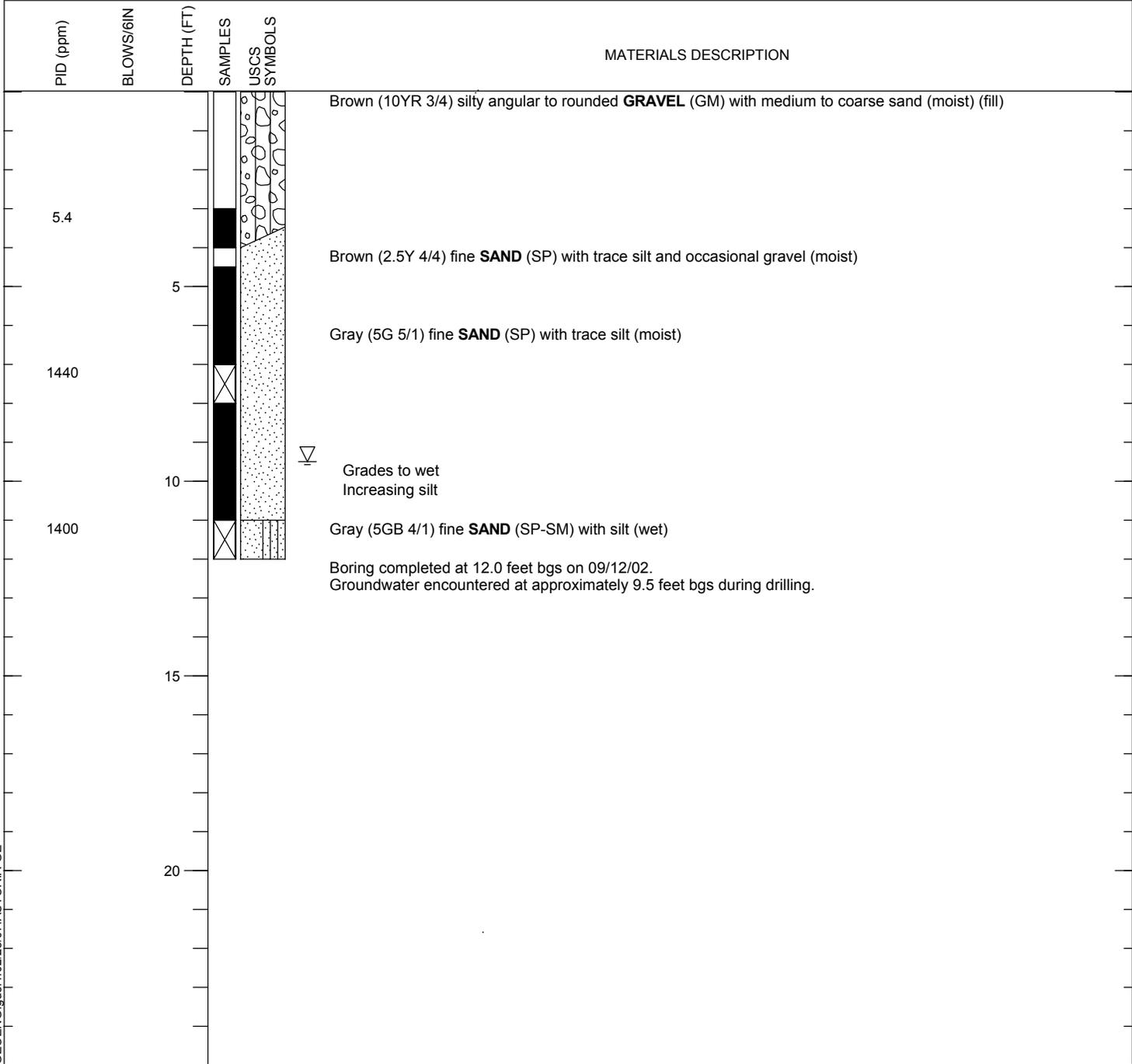
GEOENG_gds:4.02/28/07.ASTORIA-GE

FIGURE B-115
LOG OF
SOIL BORING SB-614 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02



GEOENG_gds:4.02/28/07.ASTORIA-GE

FIGURE B-116
LOG OF
SOIL BORING SB-615 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02

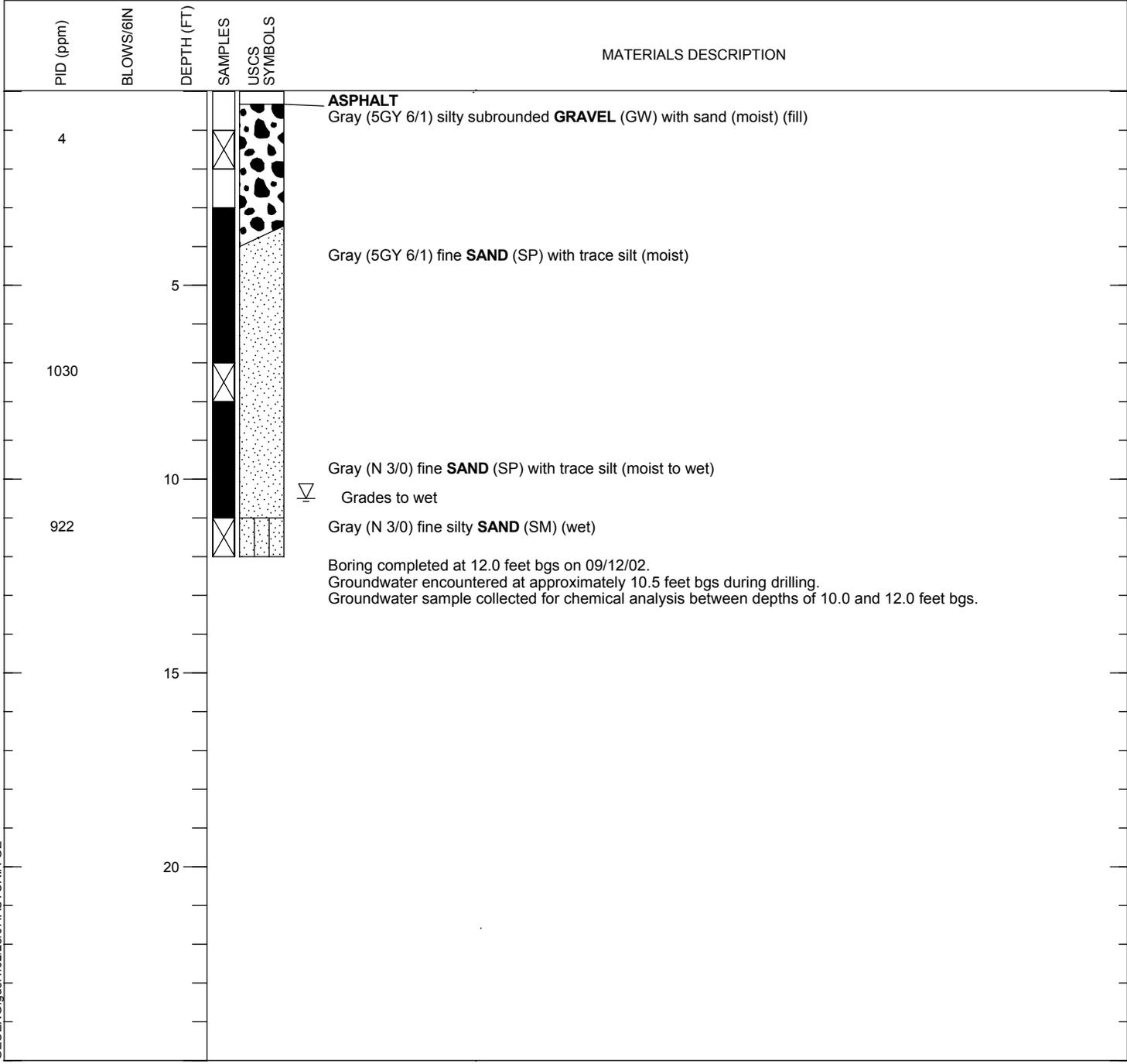


FIGURE B-117

LOG OF
SOIL BORING SB-616 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



GEOENG_gds:4.02/28/07.ASTORIA-GE

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02

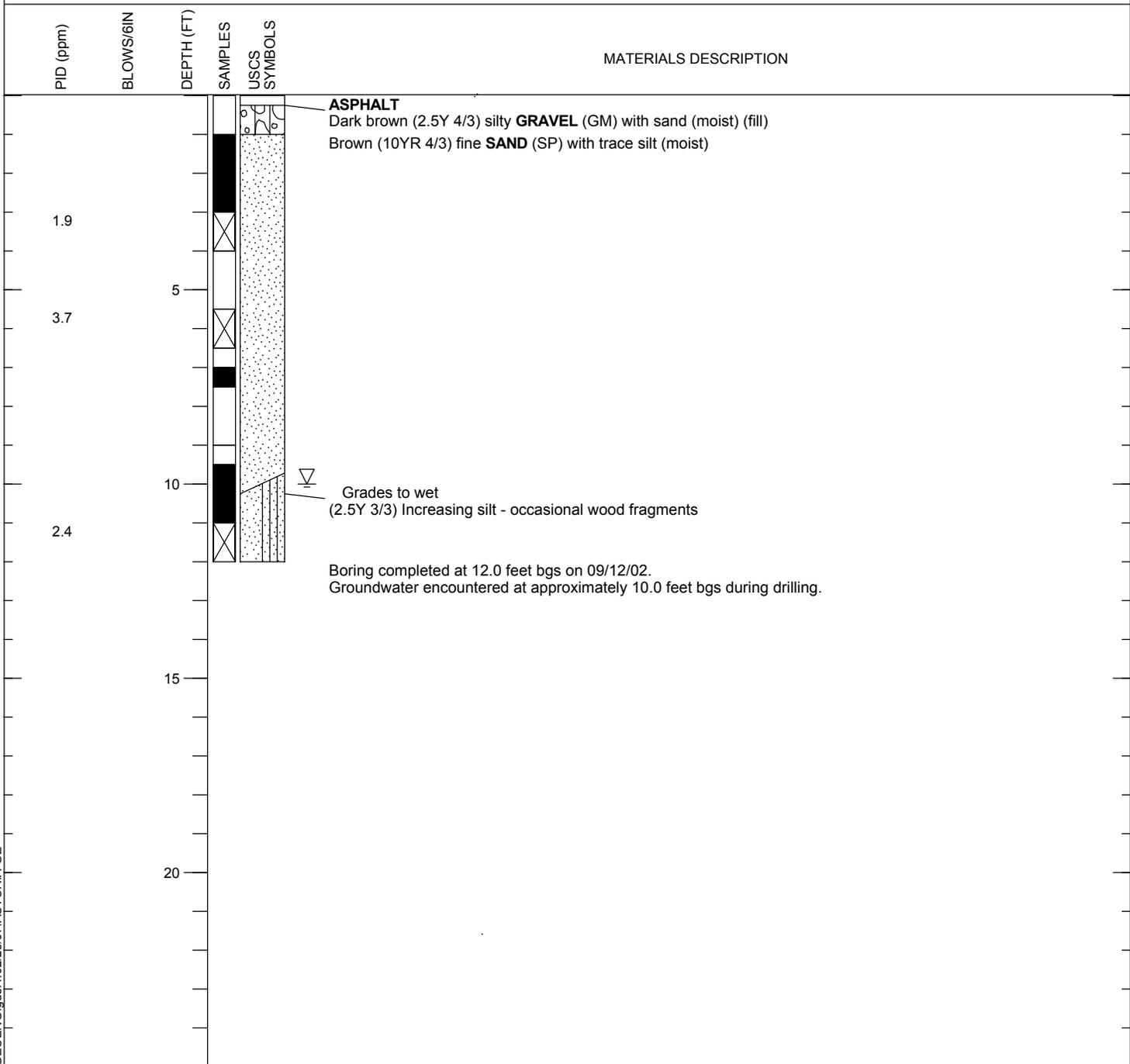


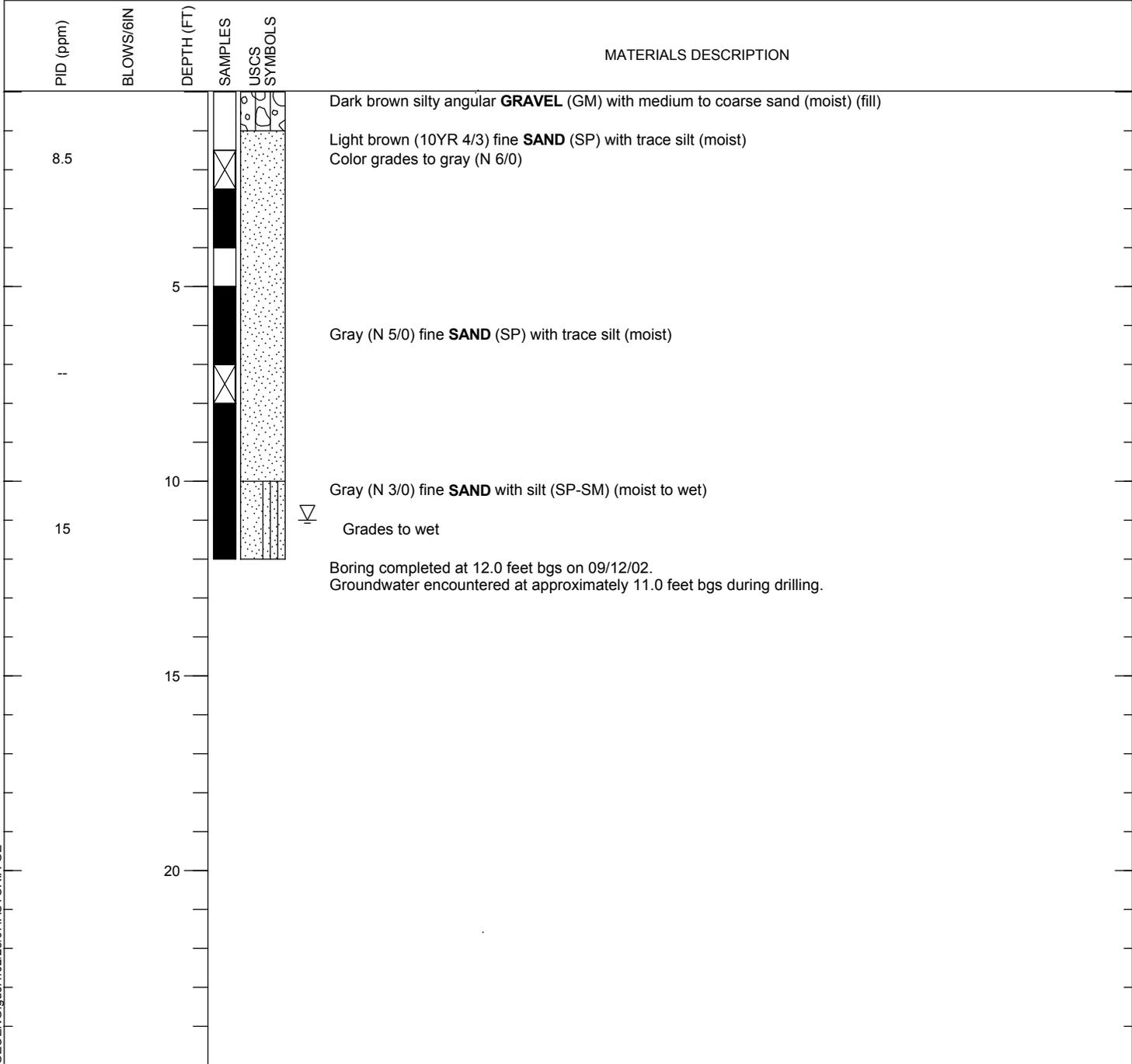
FIGURE B-118

LOG OF
SOIL BORING SB-617 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02



GEOENG_gds:4.02/28/07.ASTORIA-GE

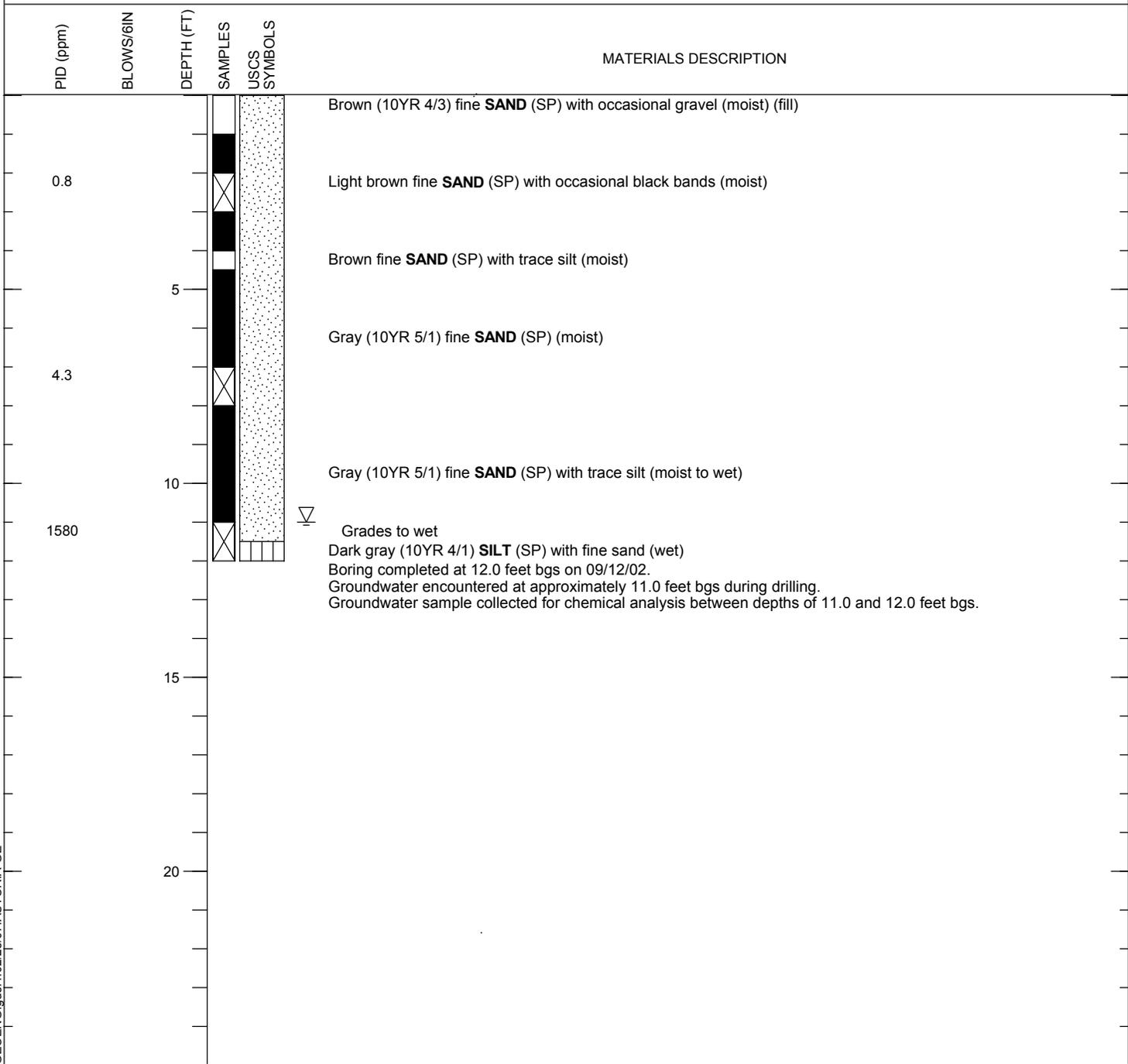
FIGURE B-119

**LOG OF
SOIL BORING SB-618 (N)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02



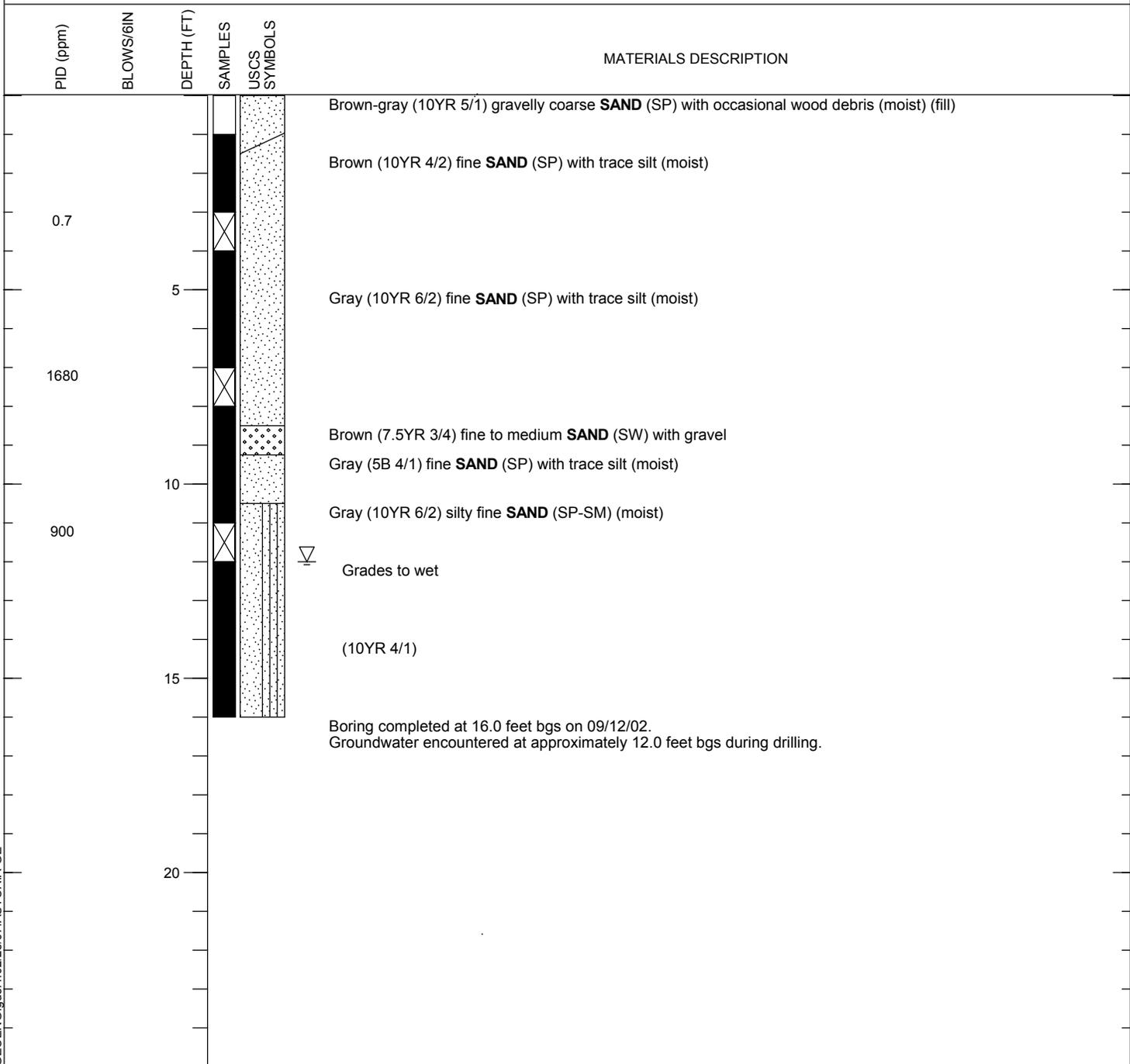
GEOENG_gds:4.02/28/07.ASTORIA-GE

FIGURE B-120
LOG OF
SOIL BORING SB-619 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02



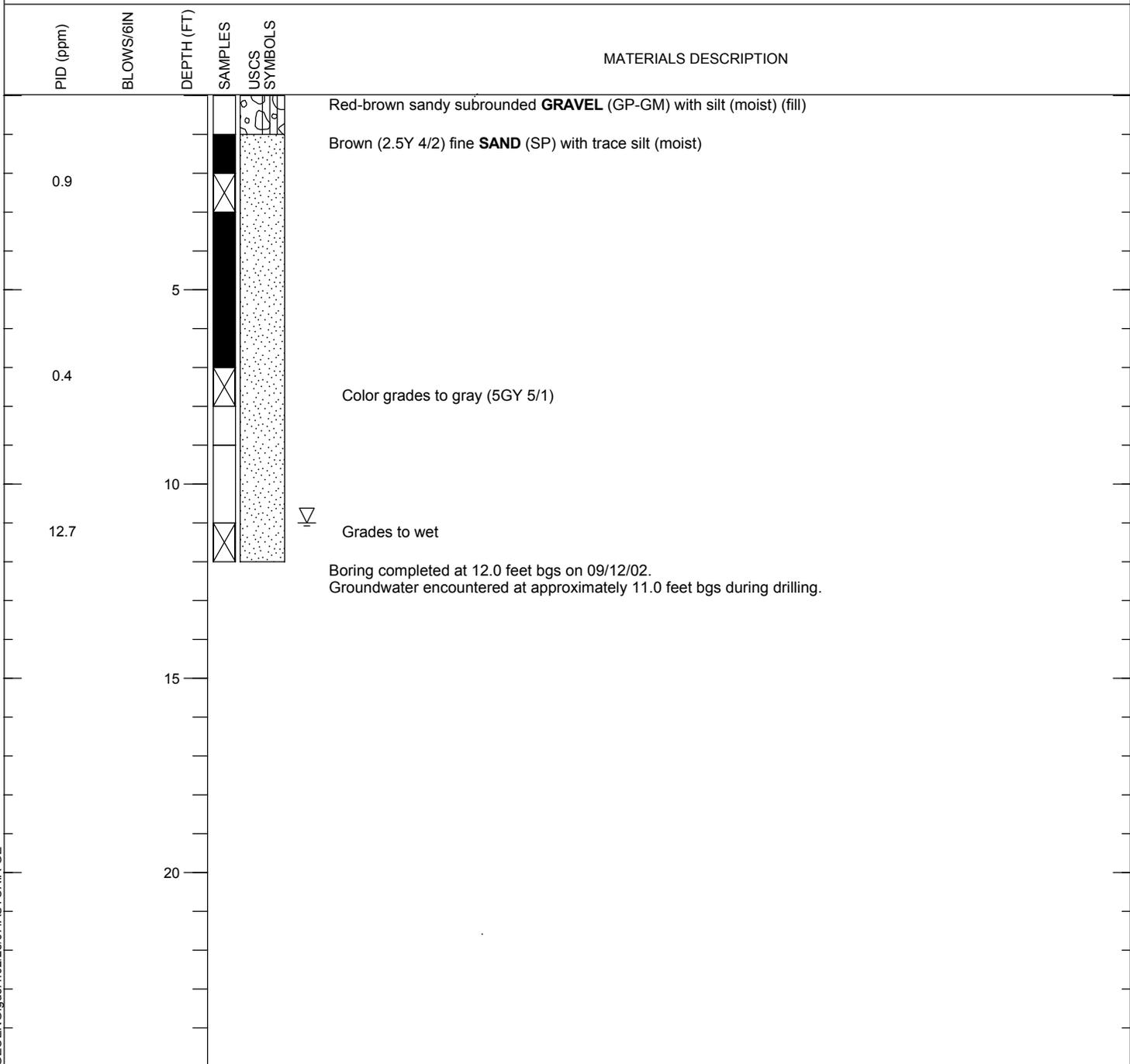
GEOENG_gds:4.02/28/07.ASTORIA-GE

FIGURE B-121
LOG OF
SOIL BORING SB-620 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02



GEOENG_gds:4.02/28/07.ASTORIA-GE

FIGURE B-122
LOG OF
SOIL BORING SB-621 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02

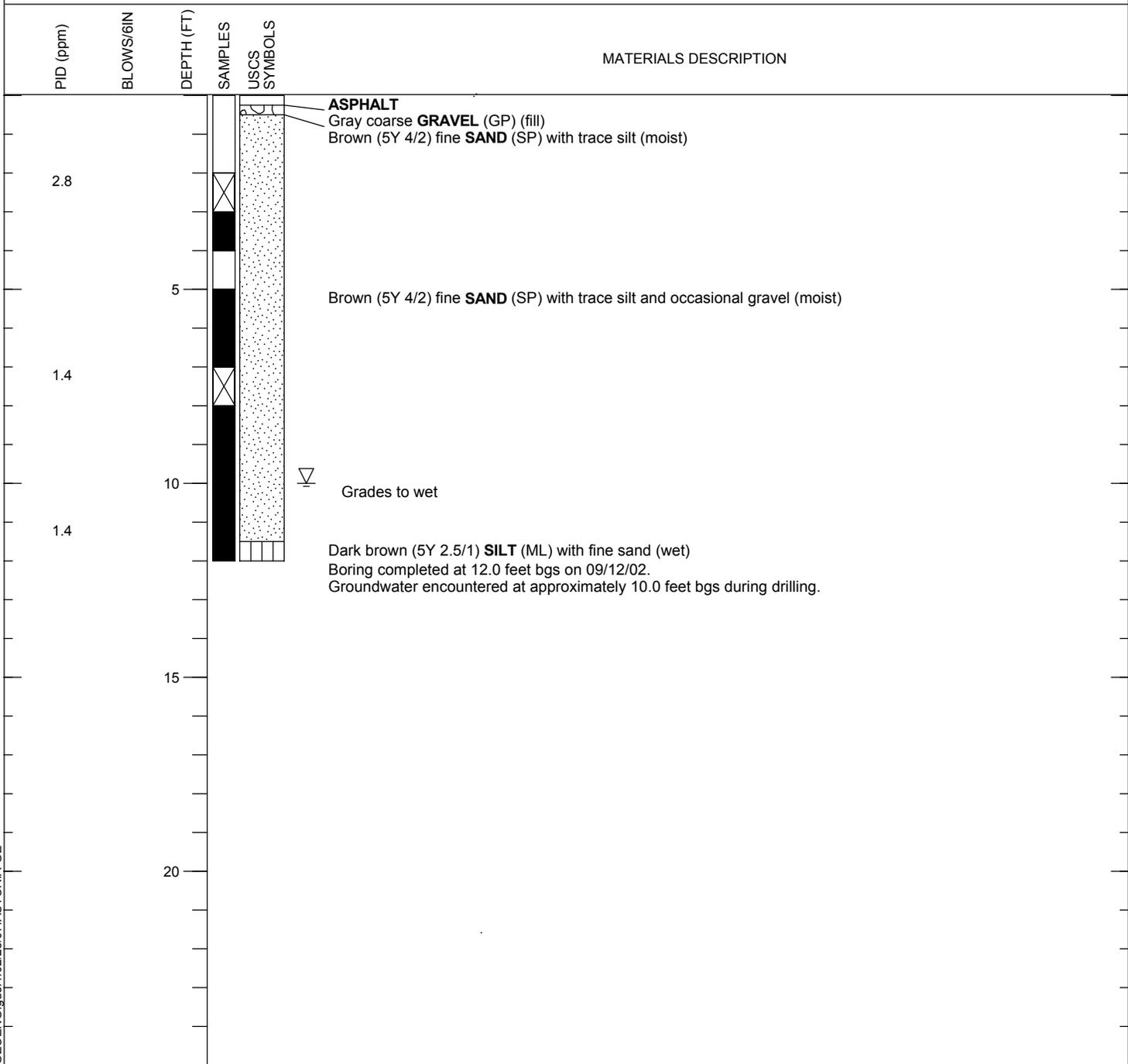


FIGURE B-123

LOG OF
SOIL BORING SB-622 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



GEOENG_gds:4.02/28/07.ASTORIA-GE

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02

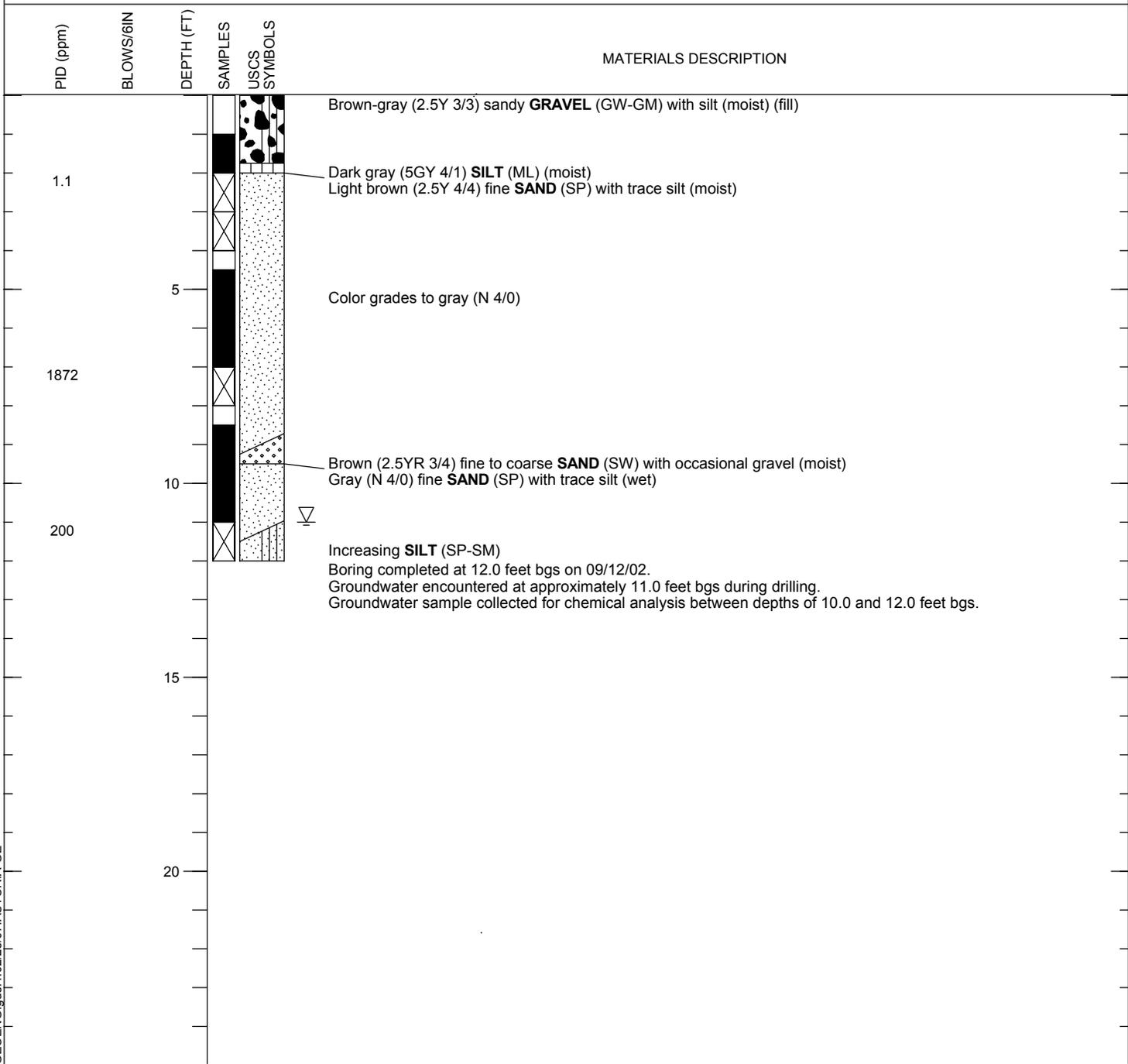


FIGURE B-124

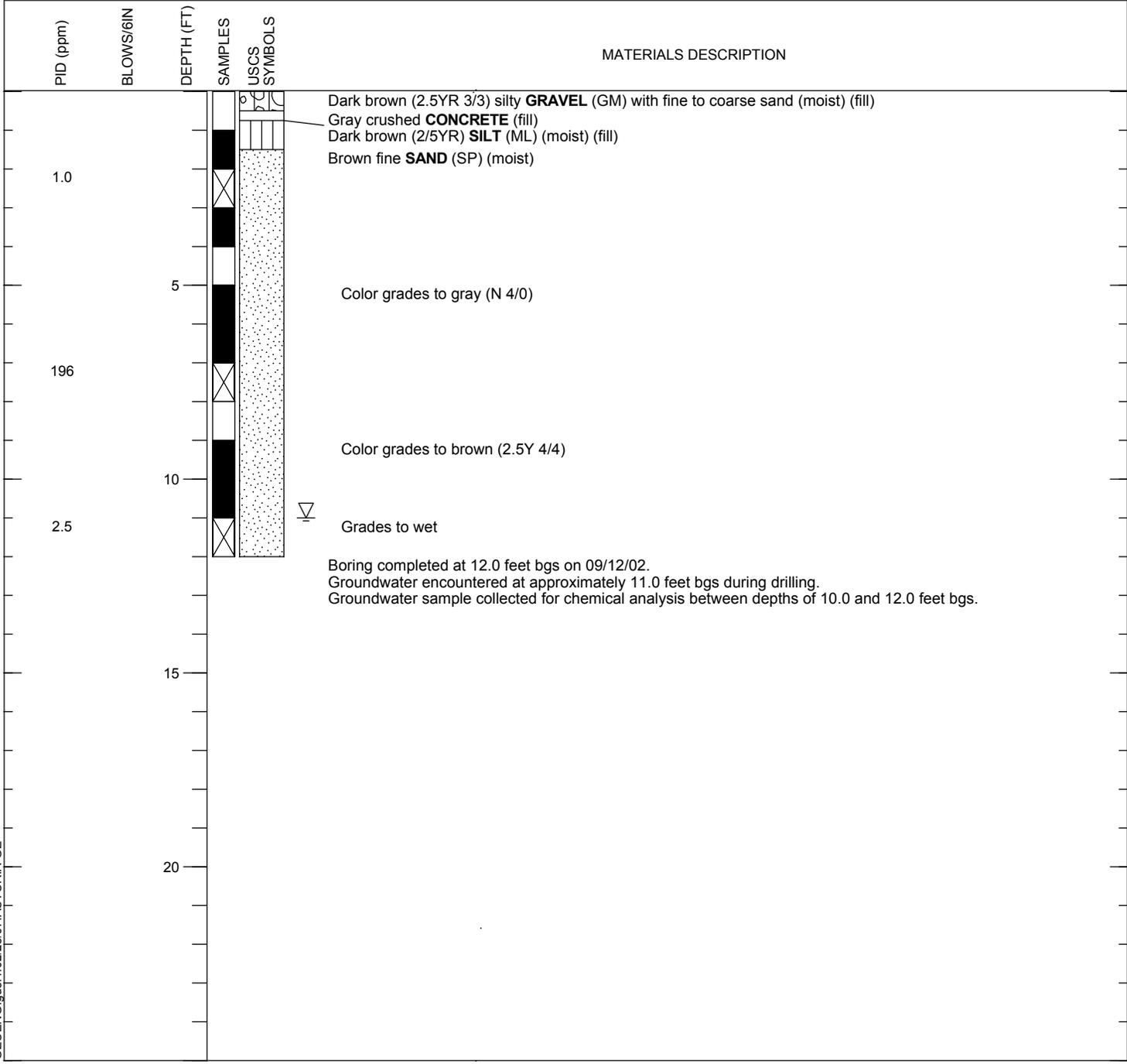
LOG OF
SOIL BORING SB-623 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



GEOENG_gds:4.02/28/07.ASTORIA-GE

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02



GEOENG.gds:4.02/28/07.ASTORIA-GE

FIGURE B-125

**LOG OF
SOIL BORING SB-624 (N)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02

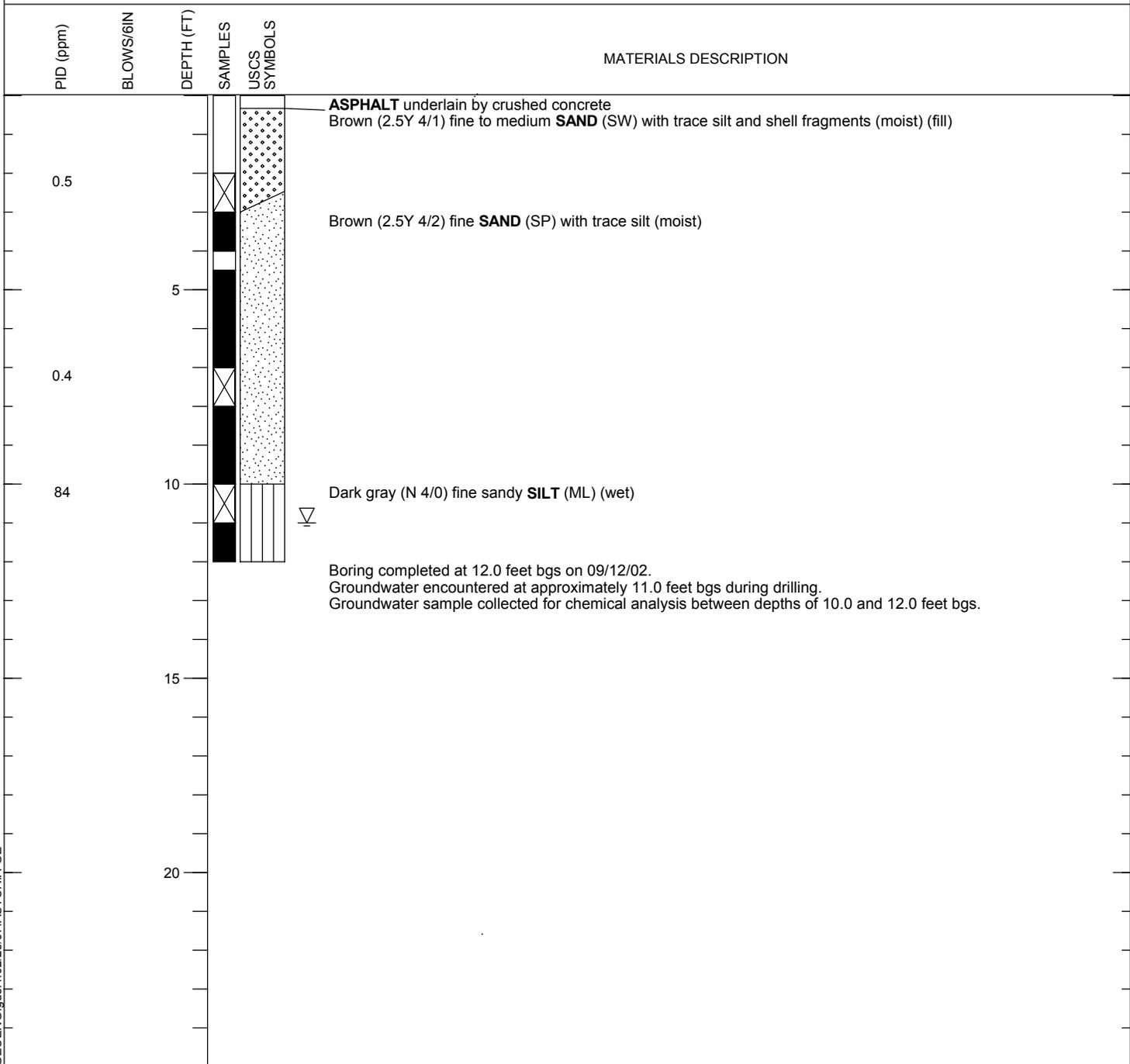


FIGURE B-126

LOG OF
SOIL BORING SB-625 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



GEOENG_gds:4.02/28/07.ASTORIA-GE

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	9824-005-00	REFERENCE POINT ELEVATION	
LOGGED BY	Jason S. O'Donnell	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Direct Push	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	09/12/02

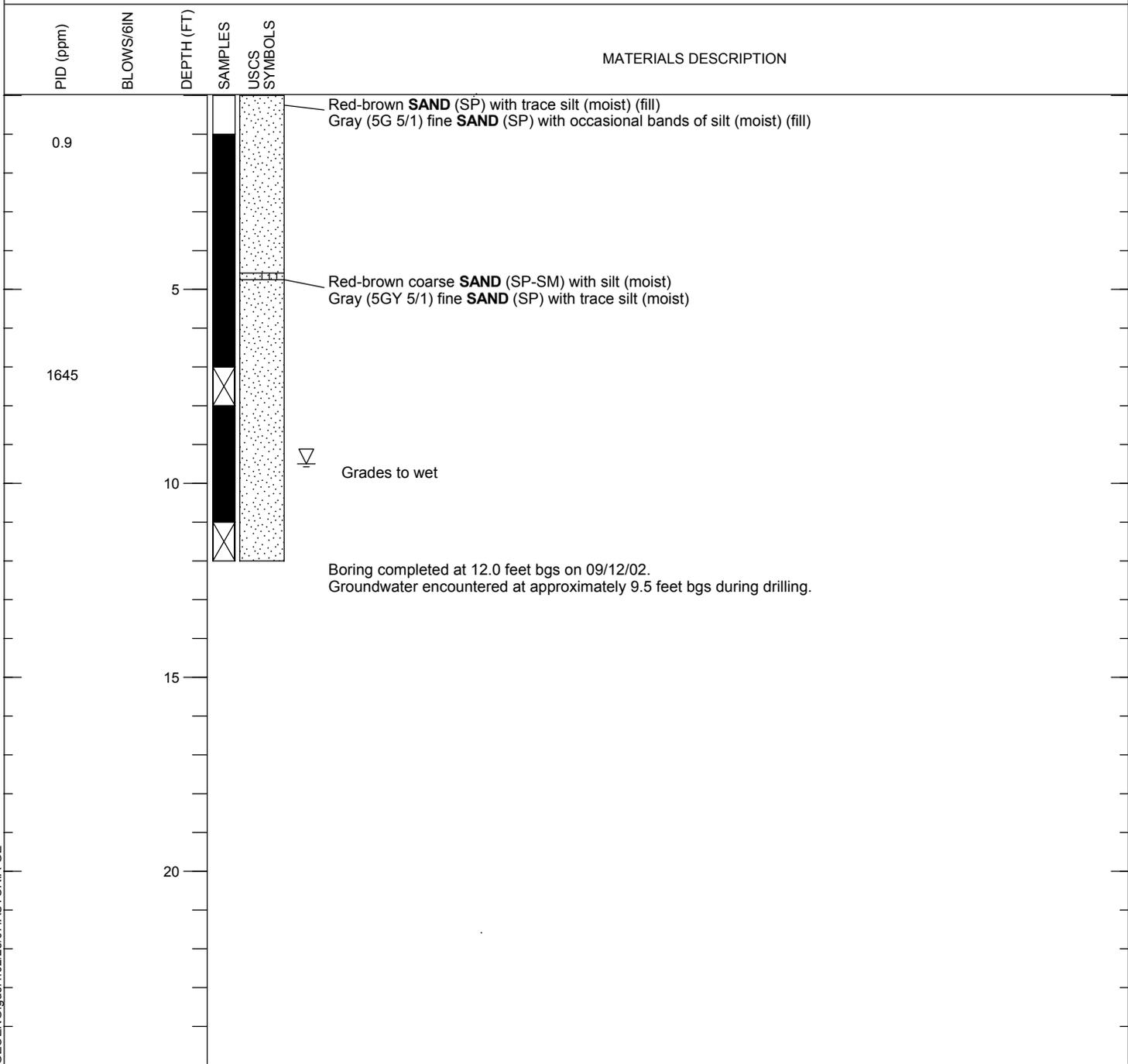


FIGURE B-127

LOG OF
SOIL BORING SB-626 (N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2003

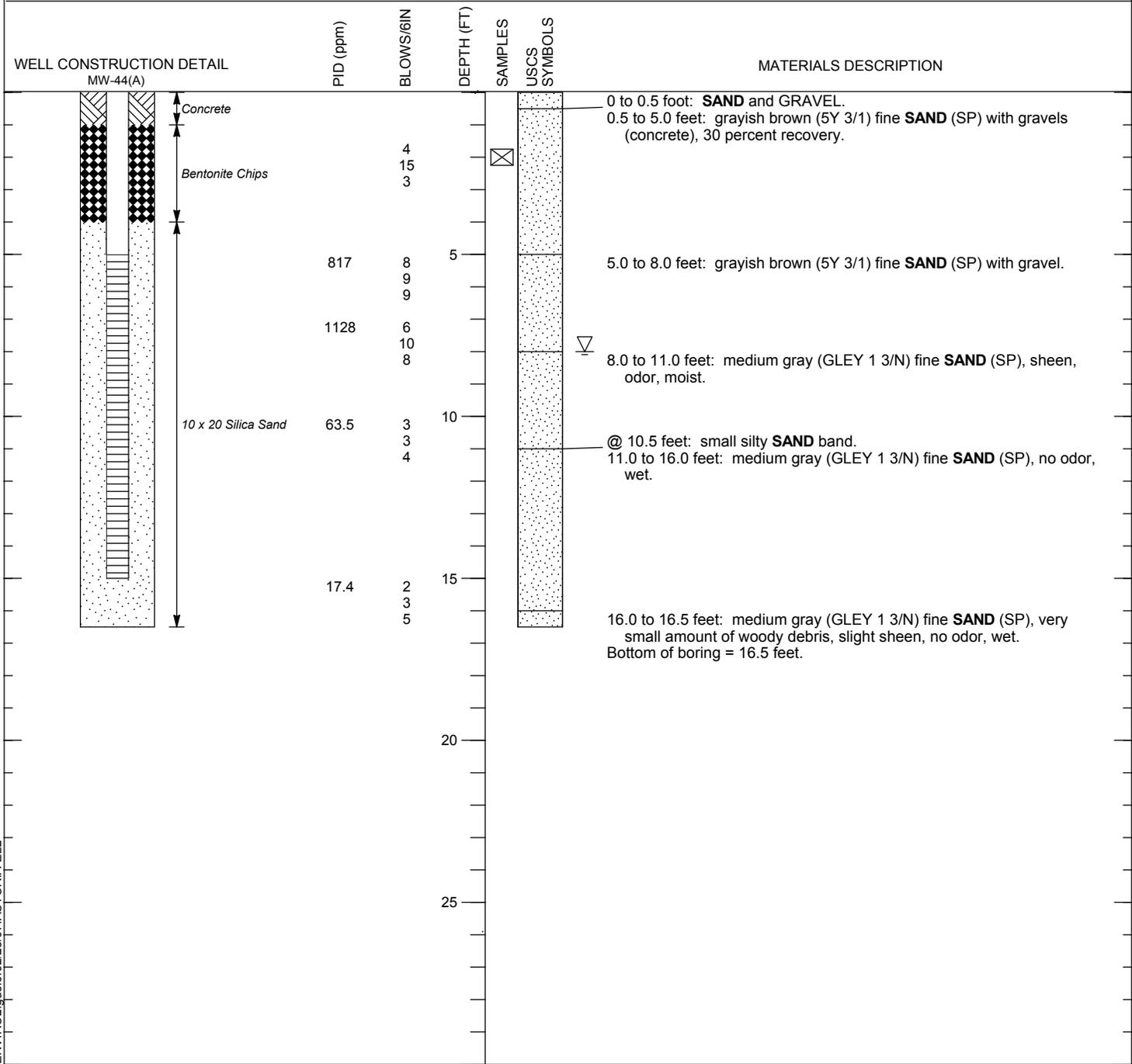


FIGURE B-128

LOG OF
SOIL BORING SB-627(N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	17 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2003

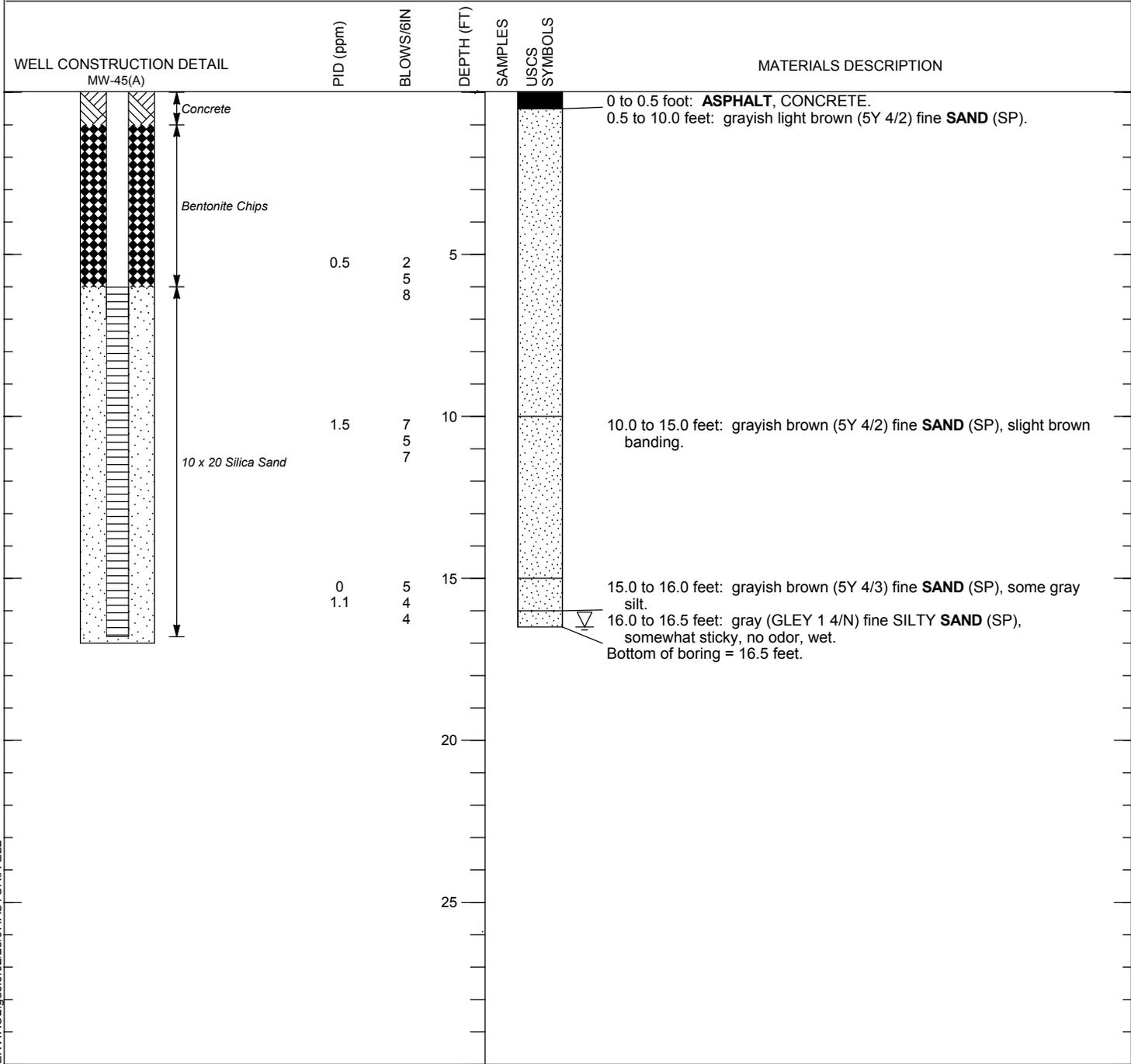


FIGURE B-129

LOG OF SOIL BORING SB-628(N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2003

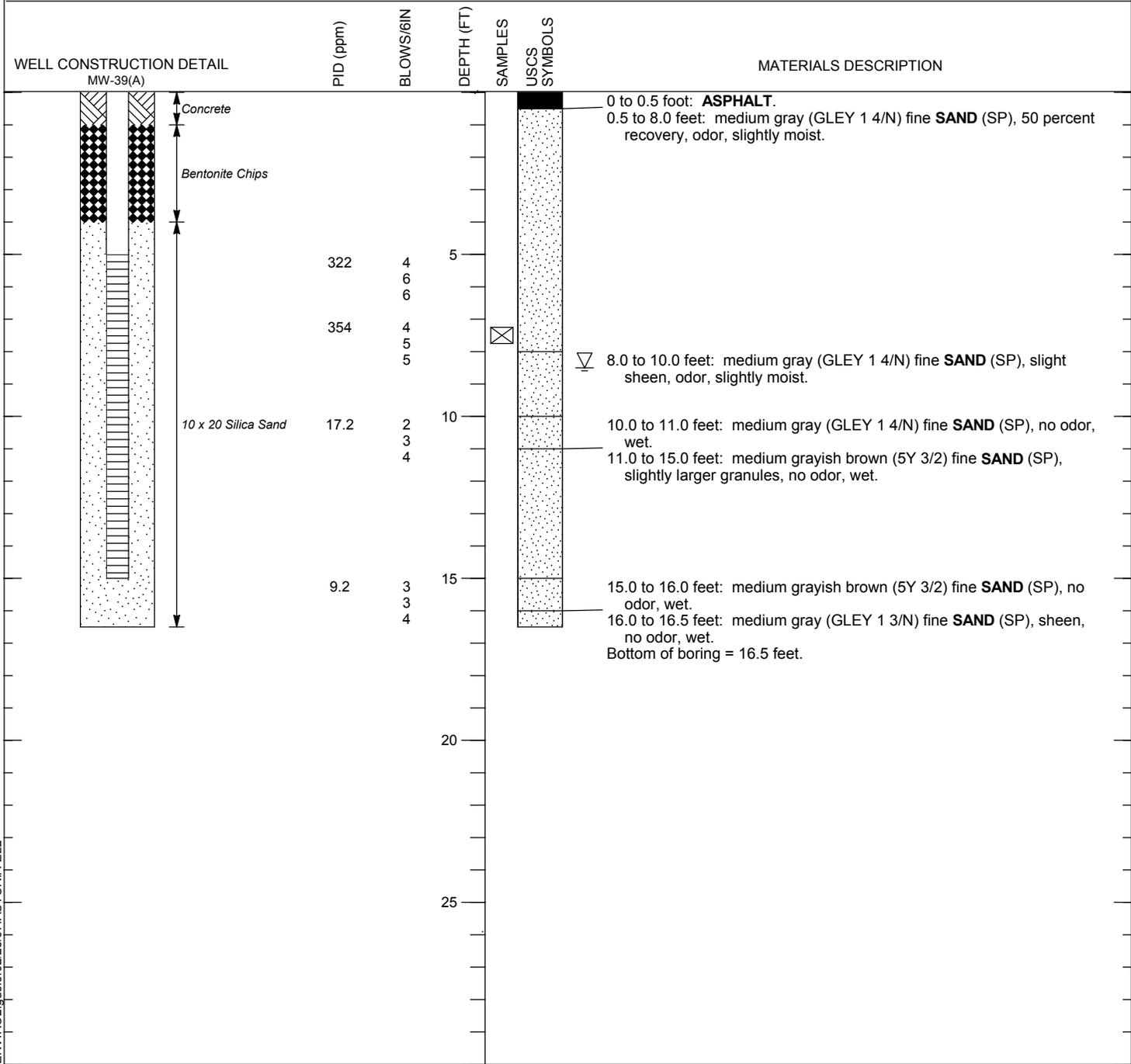


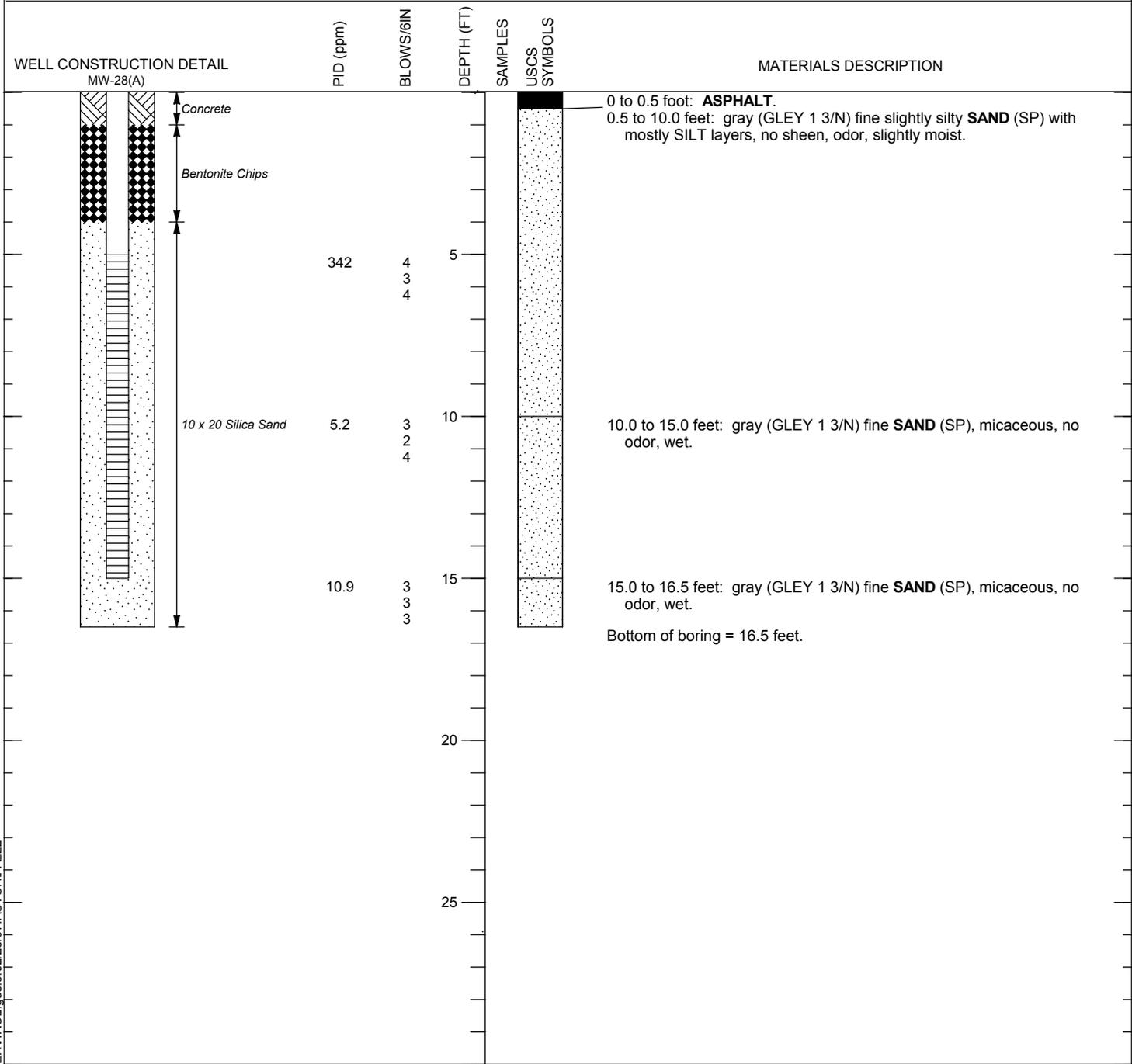
FIGURE B-130

LOG OF SOIL BORING SB-629(N)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/8/2003



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

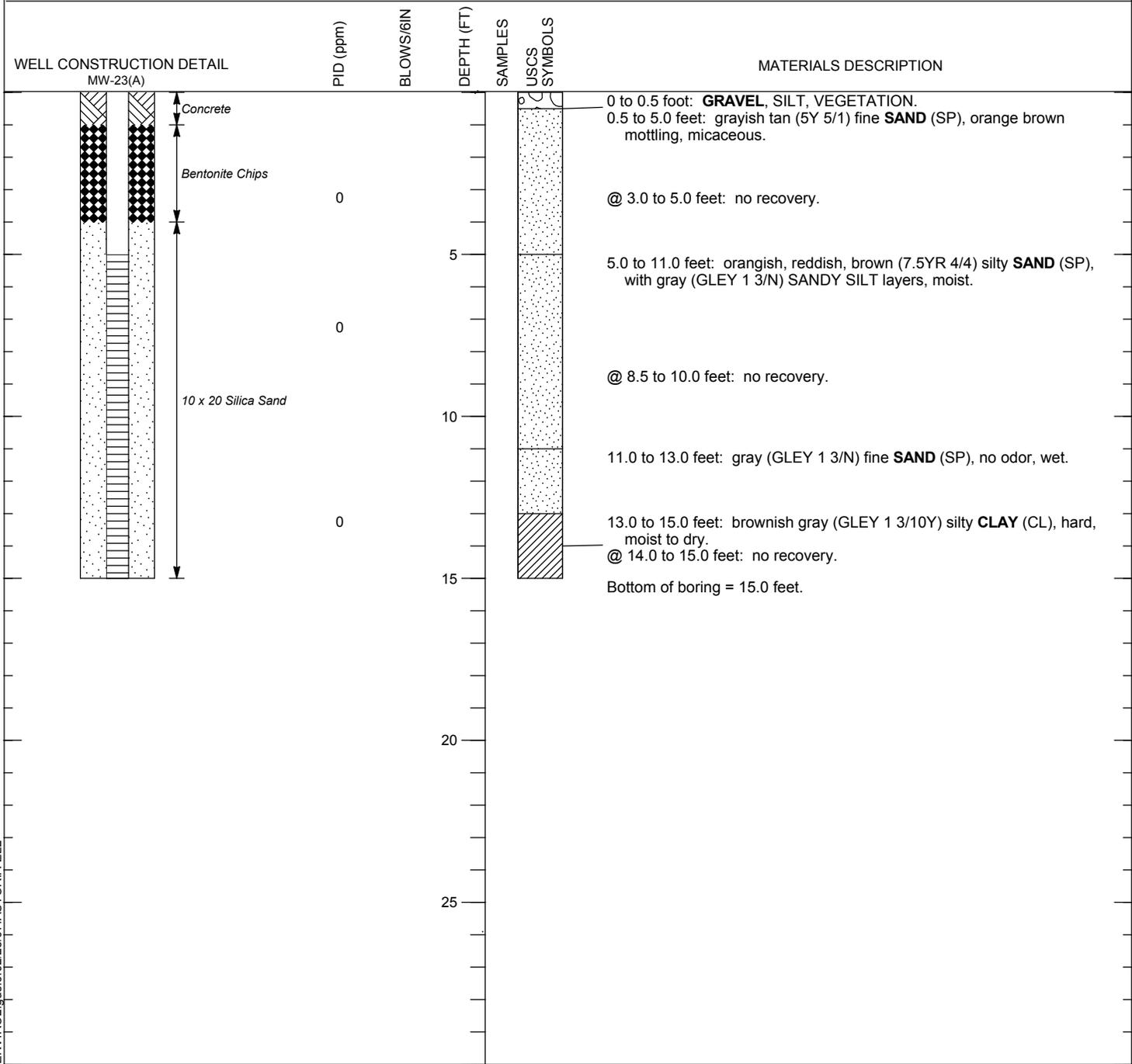
FIGURE B-131

**LOG OF
SOIL BORING SB-630(N)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/2003



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

FIGURE B-132

**LOG OF
SOIL BORING SB-631(N)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/8/2003

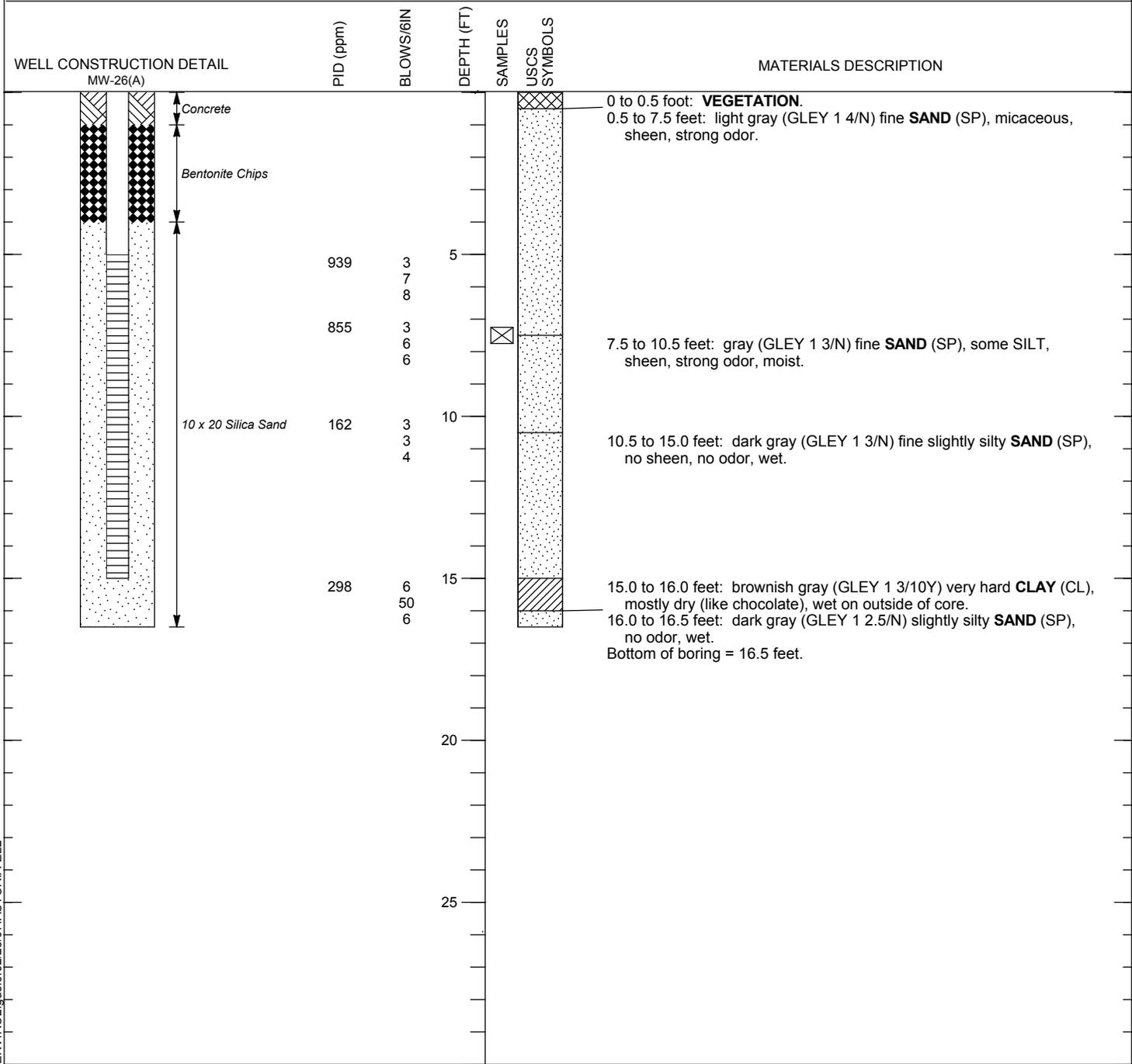


FIGURE B-133

LOG OF
SOIL BORING SB-632(N)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Former Veneer Plant	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/21/2002

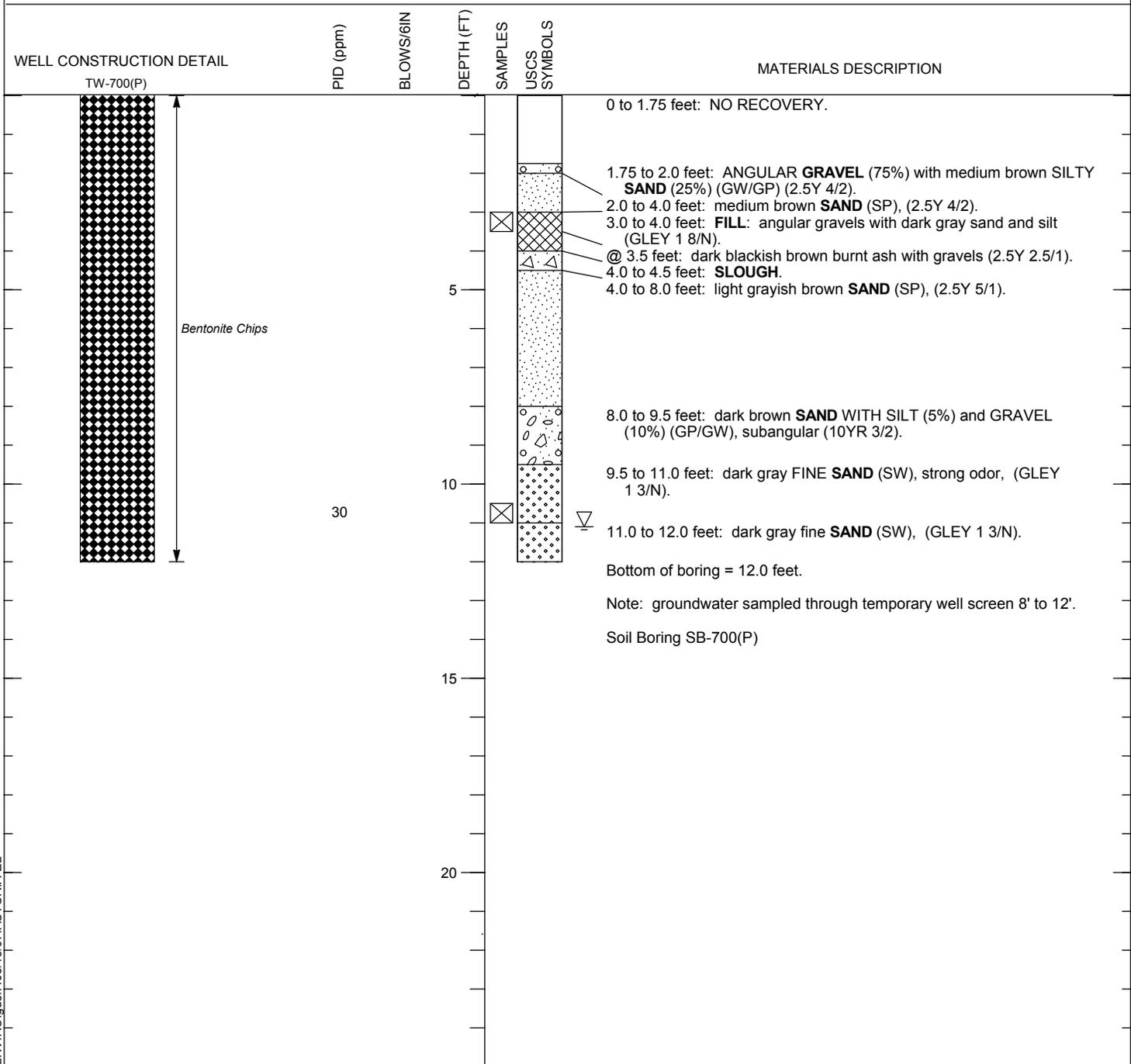


FIGURE B-134

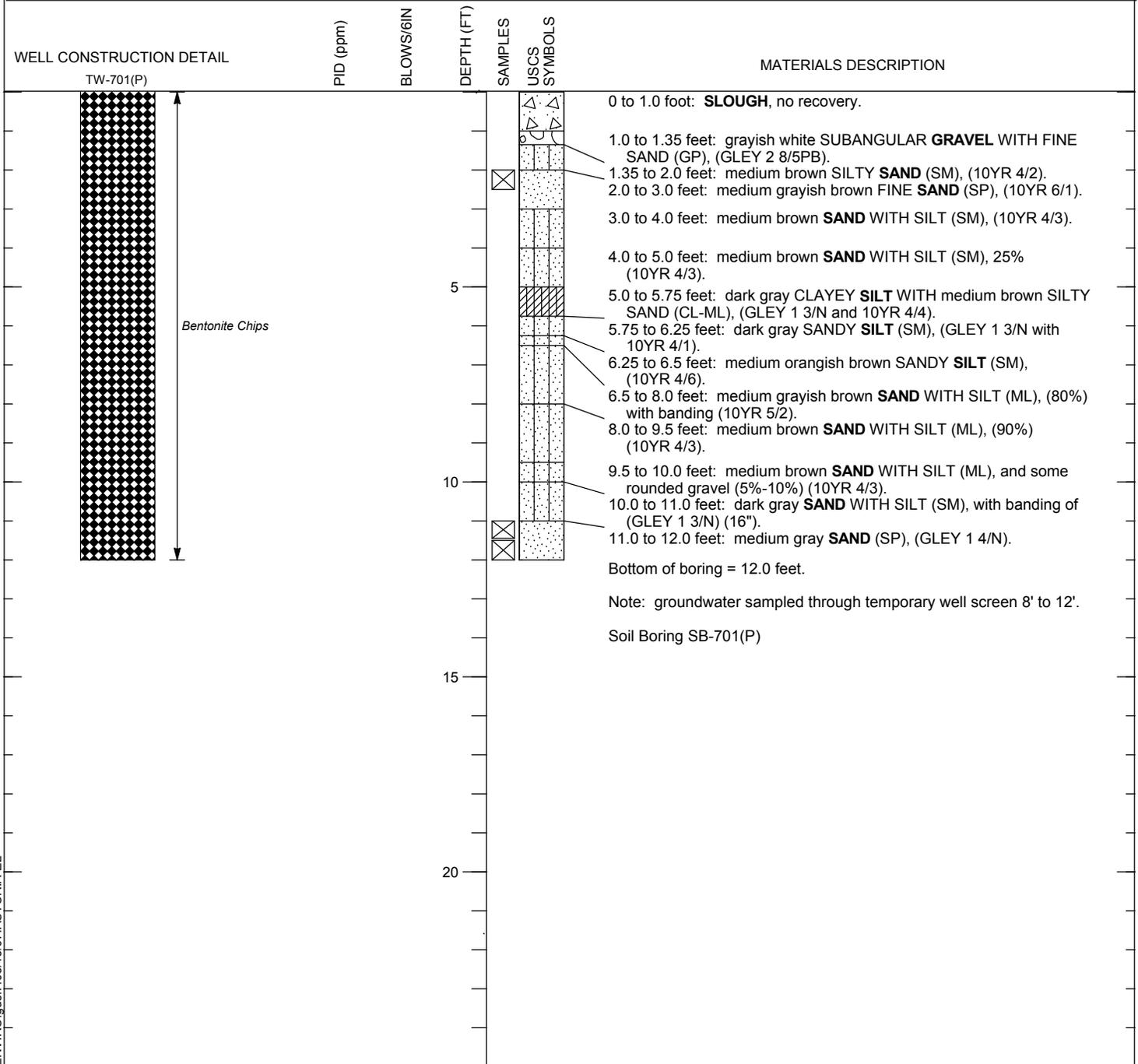
LOG OF SOIL BORING SB-700 (P)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Former Veneer Plant
 JOB NUMBER 10066.002
 LOGGED BY Melanie Hance
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 12 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/20/2002



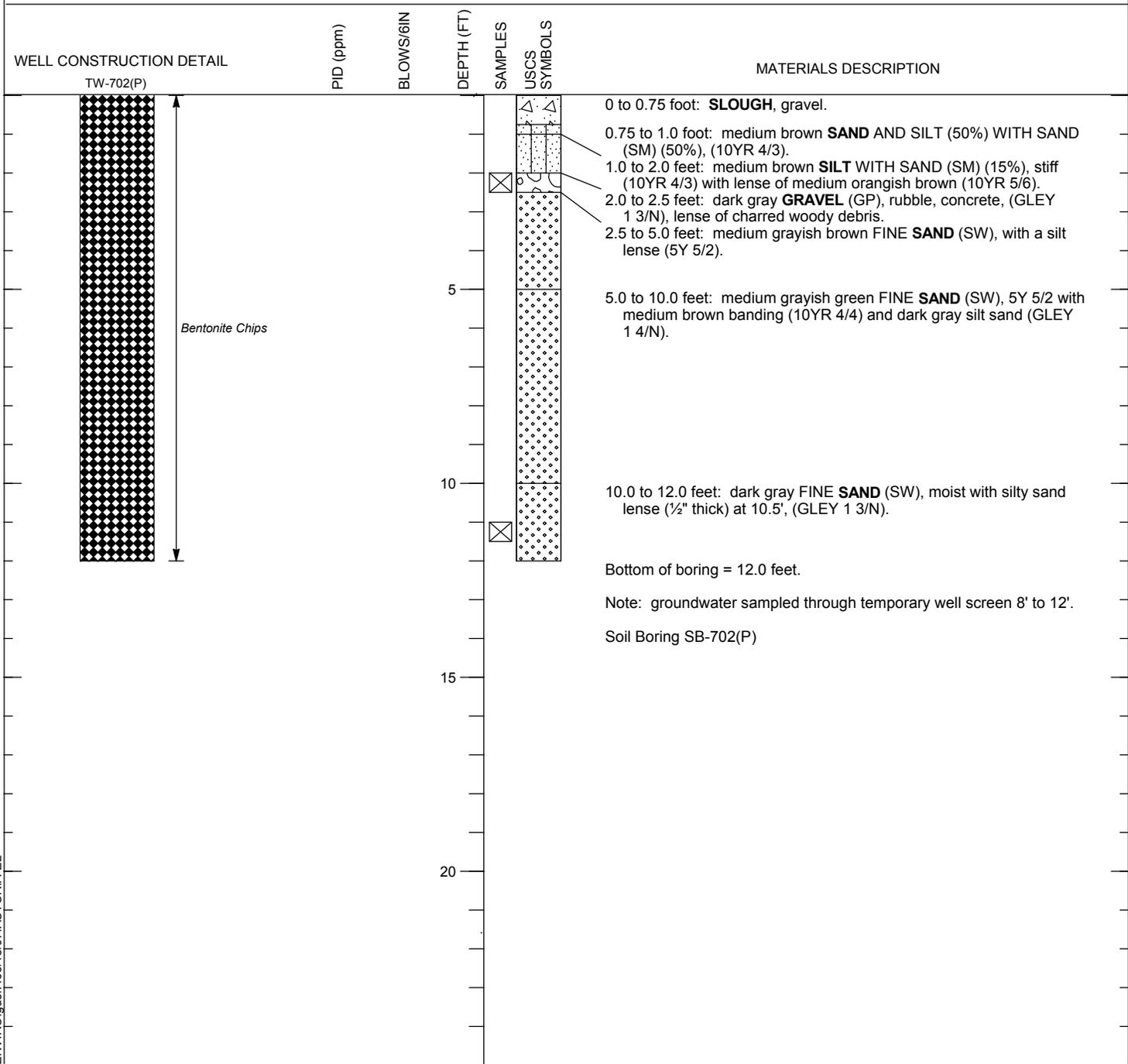
ENVIRO.gds:7.03/15/07_ASTORIA-EL

FIGURE B-135

LOG OF
 SOIL BORING SB-701 (P)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Former Veneer Plant	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/21/2002



ENVIRO.gds:7.03/15/07.ASTORIA-EL

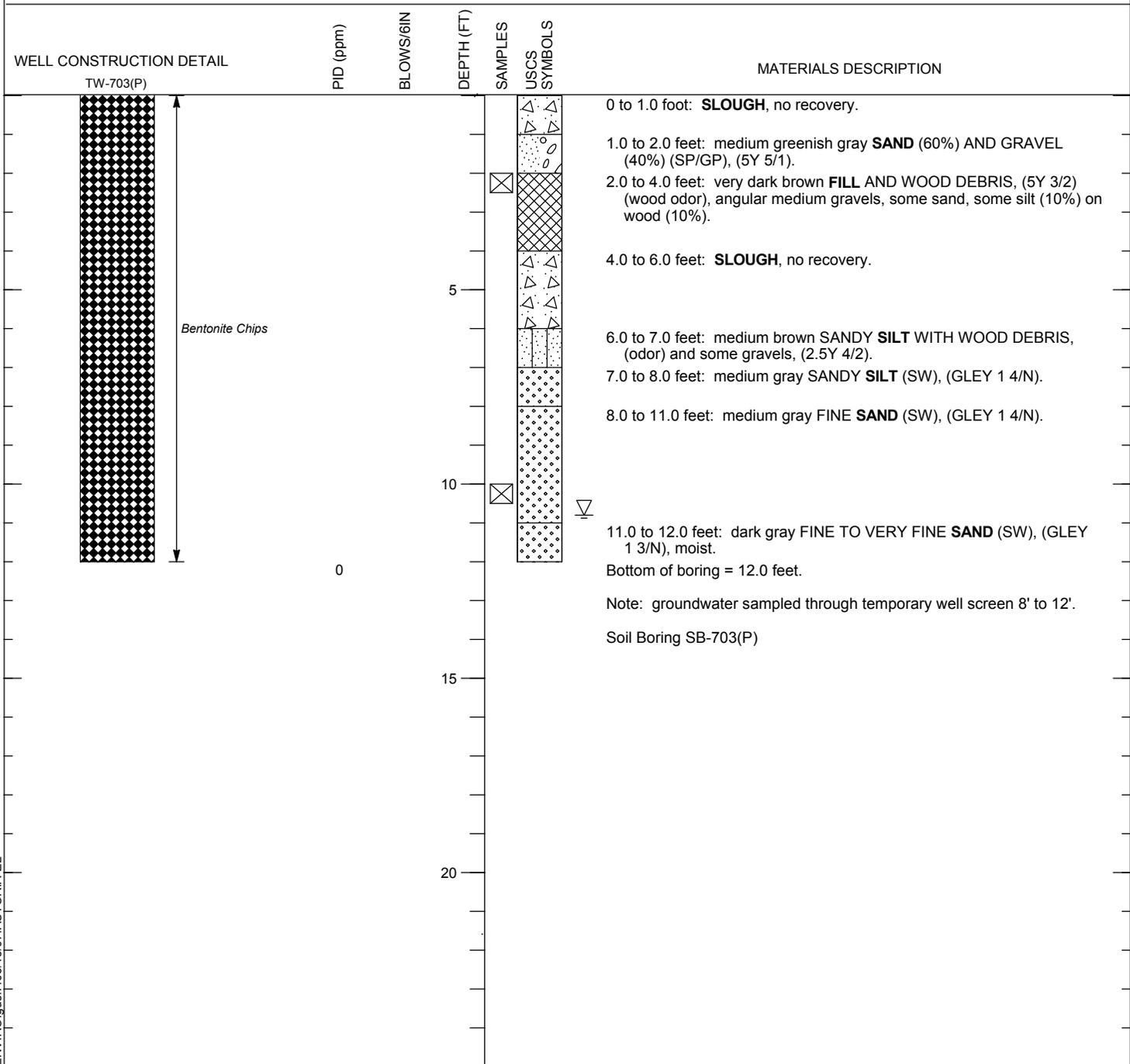
FIGURE B-136

**LOG OF
SOIL BORING SB-702 (P)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Former Veneer Plant	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/21/2002



ENVIRO.gds:7.03/15/07_ASTORIA-EL

FIGURE B-137
LOG OF
SOIL BORING SB-703 (P)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Former Veneer Plant
 JOB NUMBER 10066.002
 LOGGED BY Melanie Hance
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 12 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/21/2002

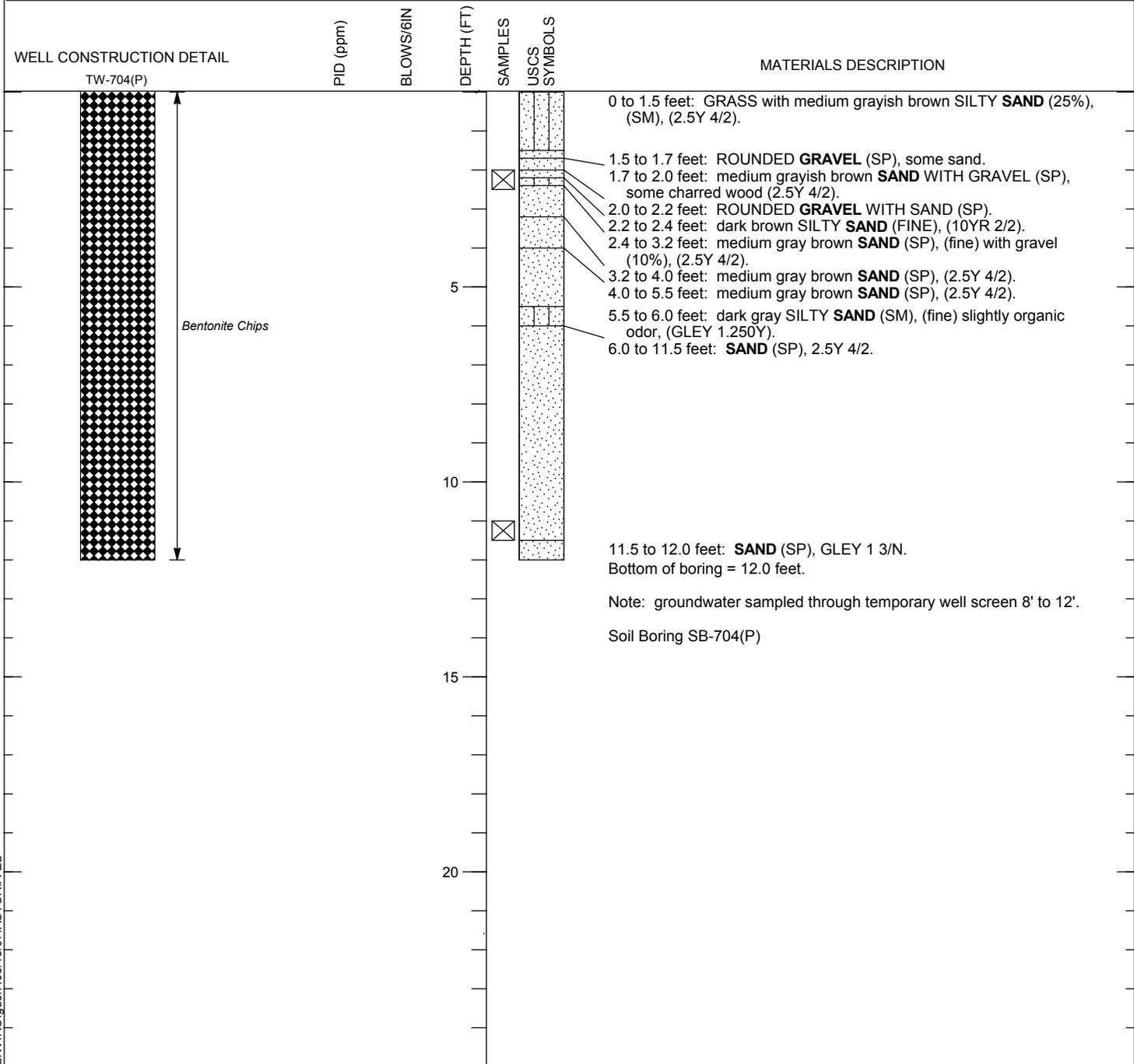


FIGURE B-138

LOG OF
 SOIL BORING SB-704 (P)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Former Veneer Plant	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/20/2002

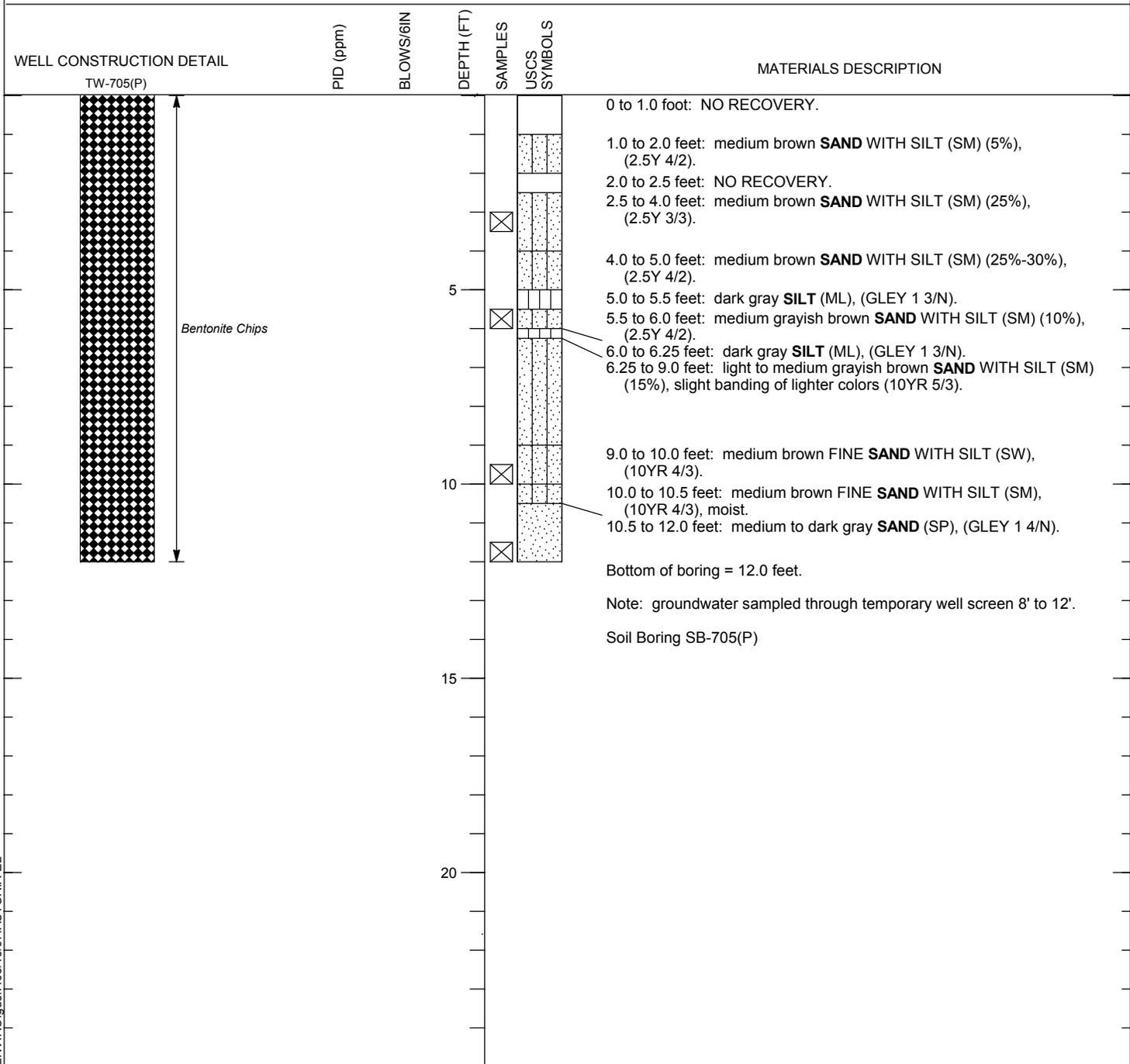


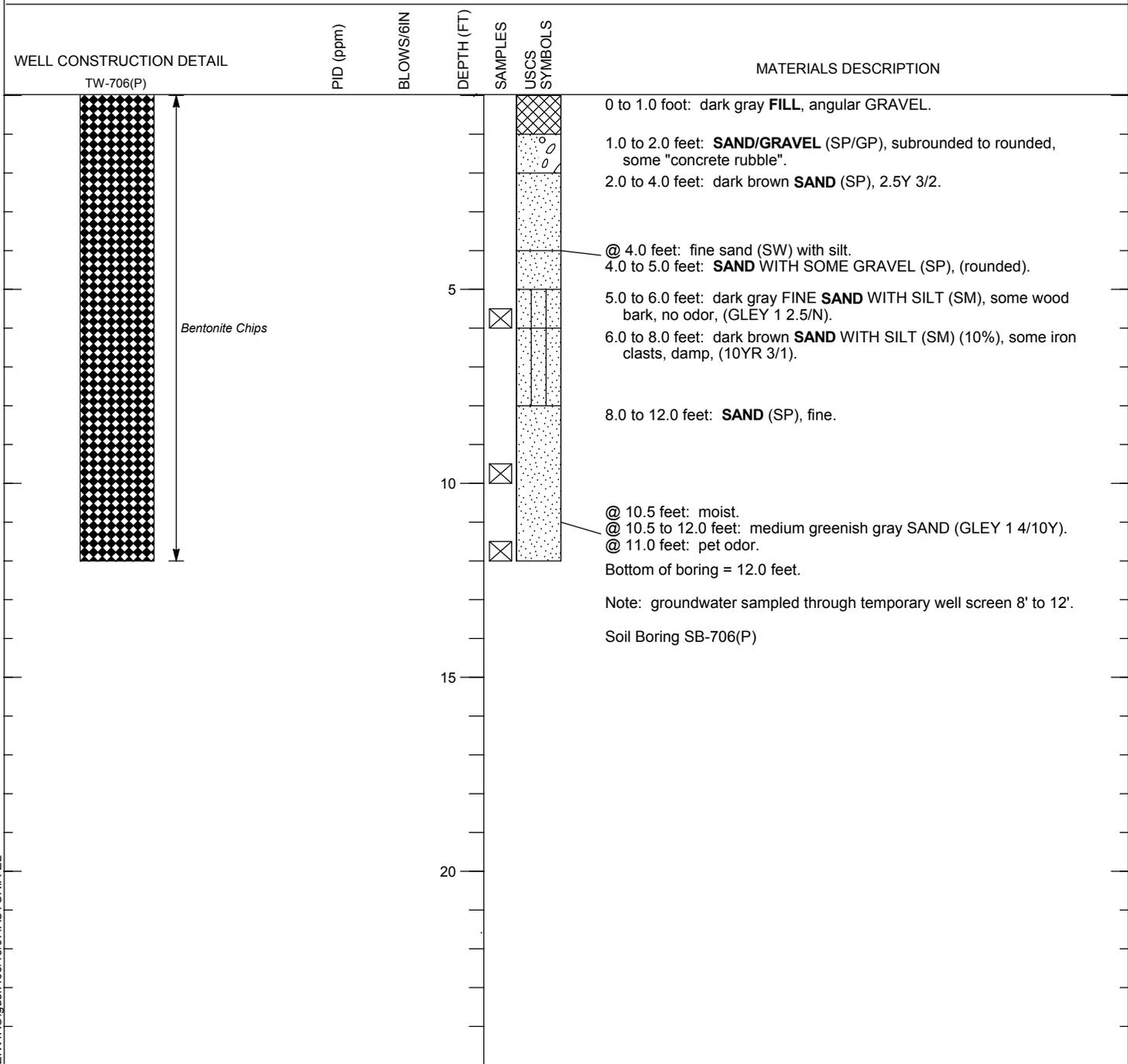
FIGURE B-139

LOG OF SOIL BORING SB-705 (P)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Former Steel Works	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Lynn Green	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/21/2002



ENVIRO.gds:7.03/15/07.ASTORIA-EL

FIGURE B-140

**LOG OF
SOIL BORING SB-706 (P)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Former Steel Works
 JOB NUMBER 10066.002
 LOGGED BY Melanie Hance
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 12 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/21/2002

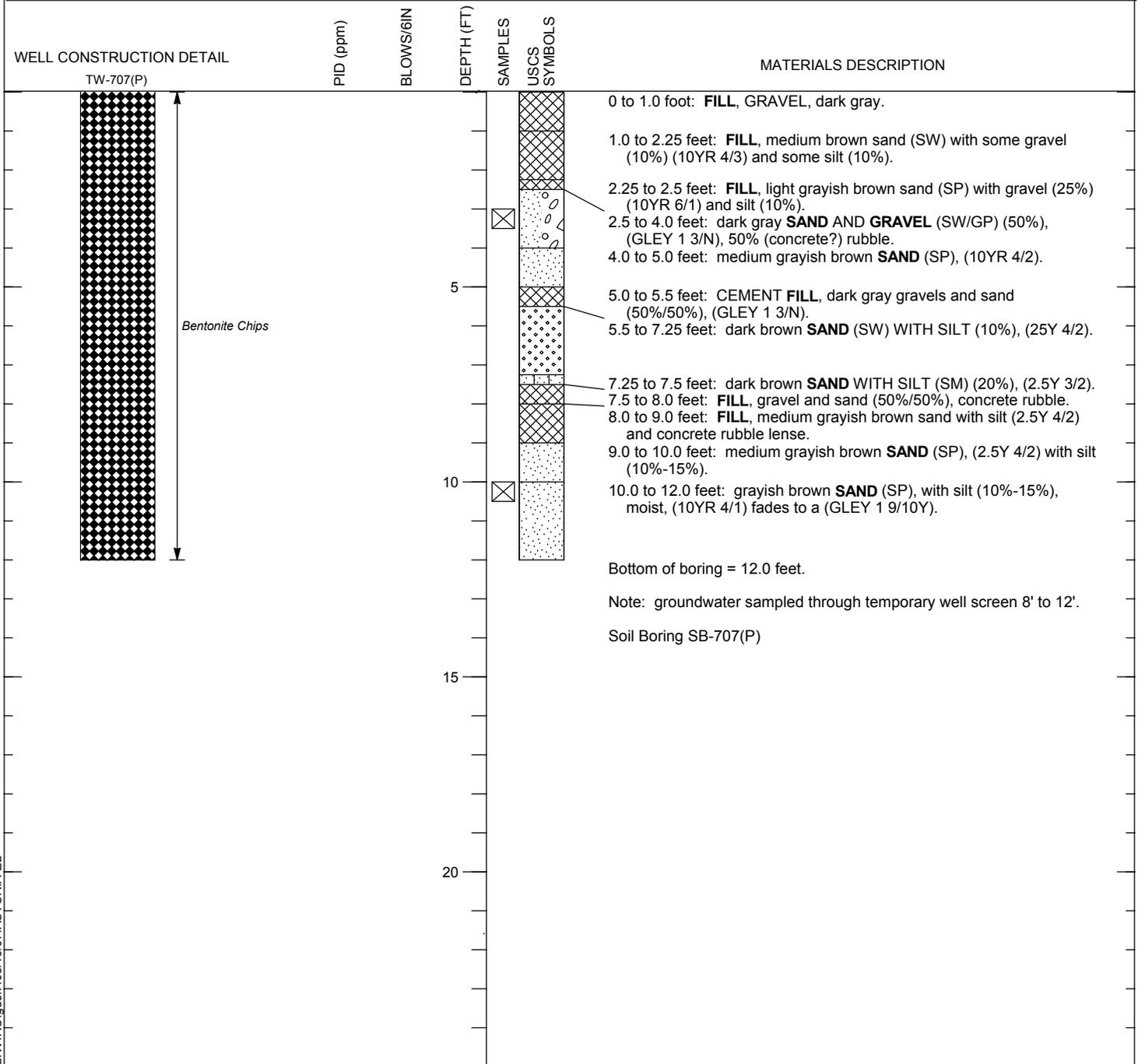


FIGURE B-141

LOG OF
 SOIL BORING SB-707 (P)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Former Steel Works
 JOB NUMBER 10066.002
 LOGGED BY Melanie Hance
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 12 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/20/2002

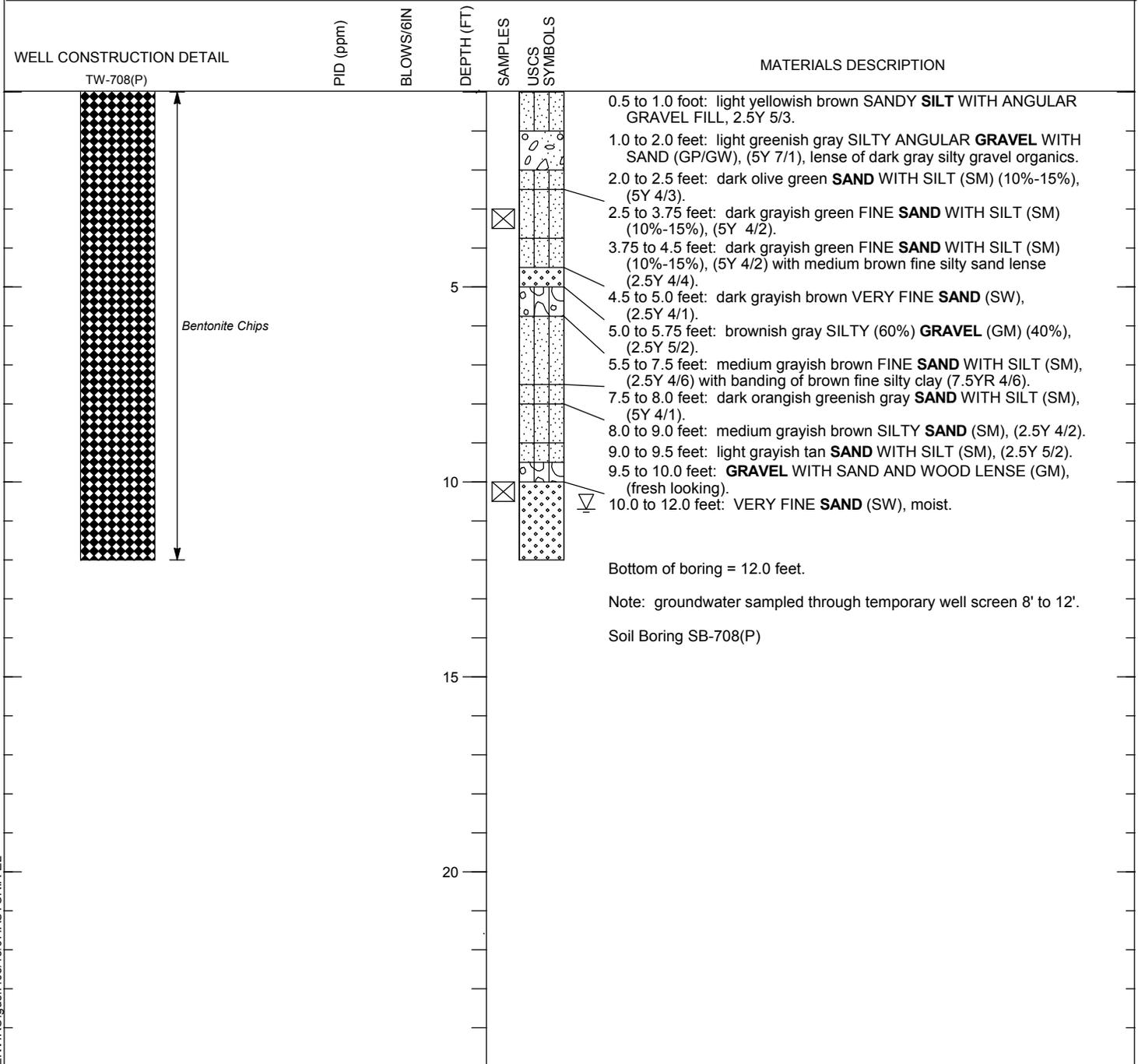
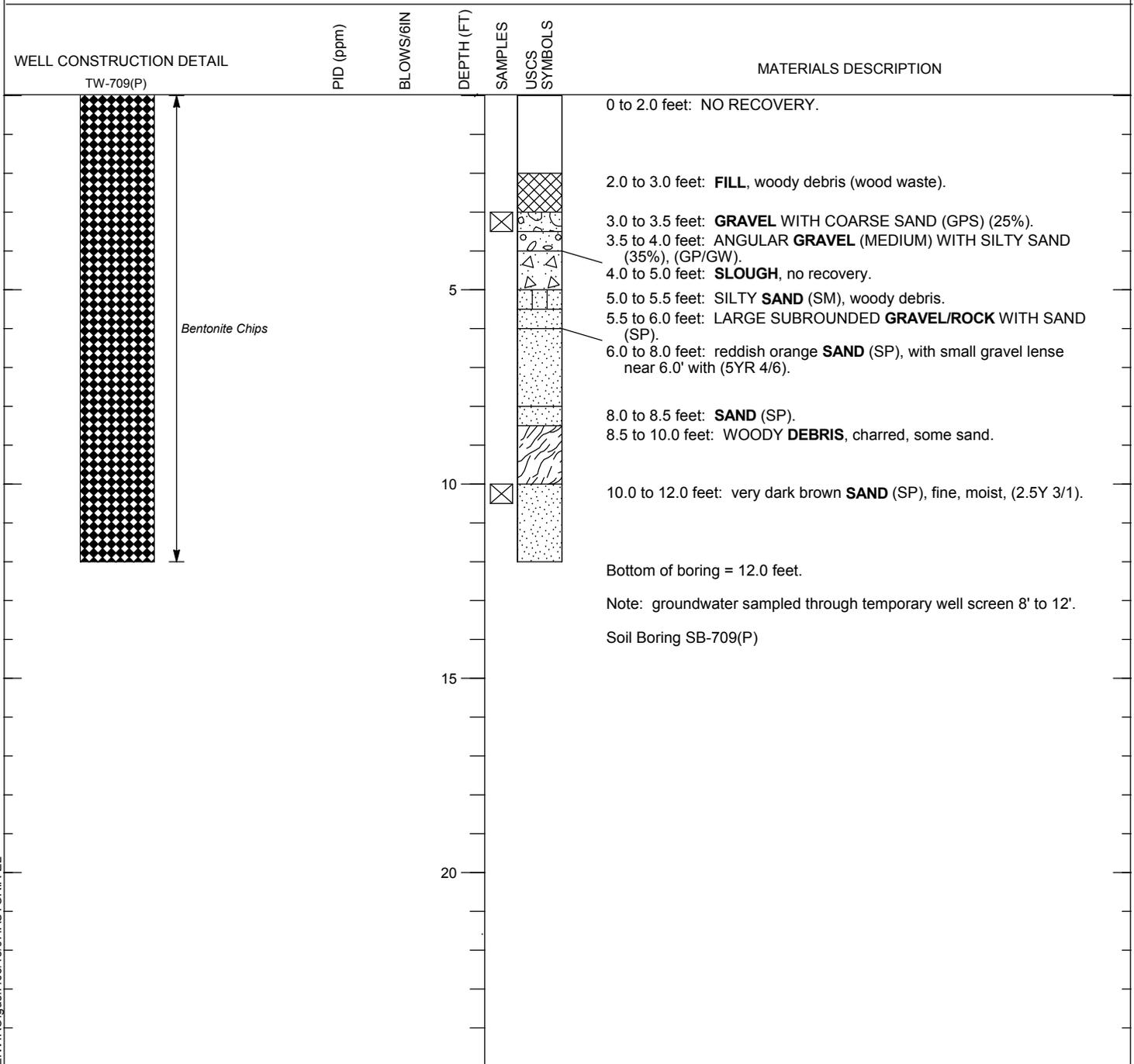


FIGURE B-142
 LOG OF
 SOIL BORING SB-708 (P)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria Oil Services
 JOB NUMBER 10066.002
 LOGGED BY Melanie Hance/Lynn Green
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 12 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/21/2002



ENVIRO.gds:7_03/15/07_ASTORIA-EL

FIGURE B-143

**LOG OF
SOIL BORING SB-709 (P)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria Oil Services	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance/Lynn Green	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/21/2002

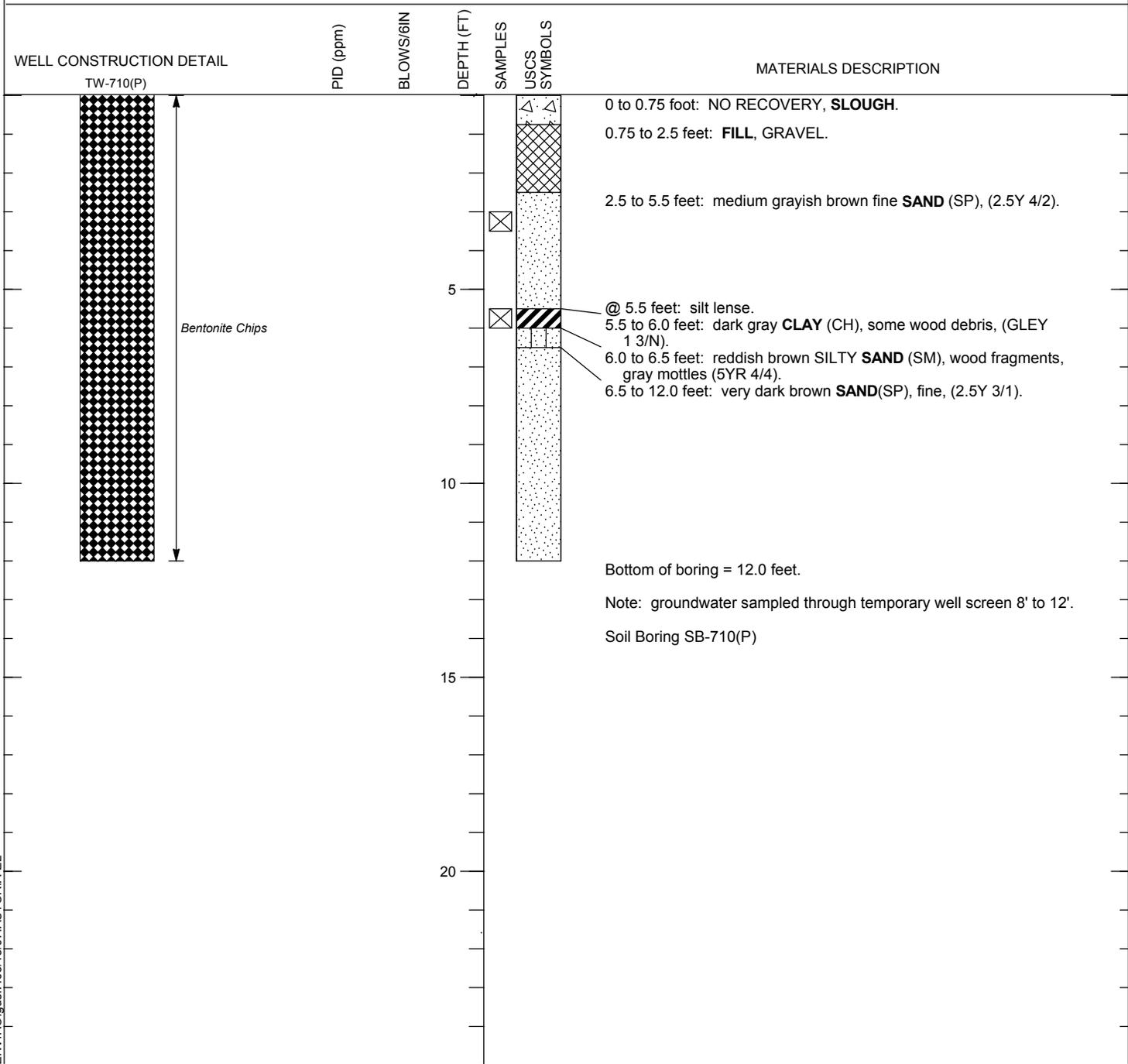
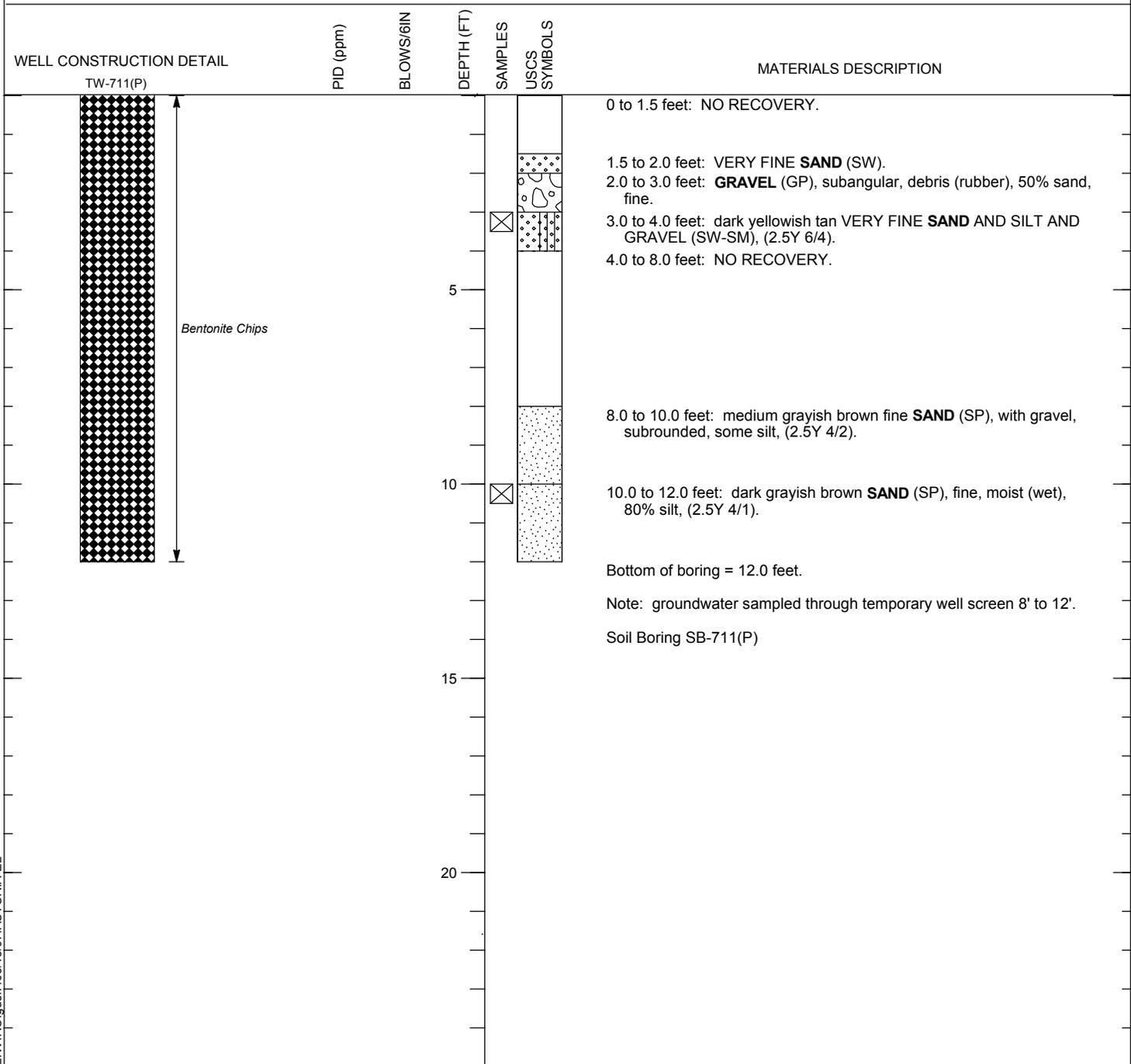


FIGURE B-144
LOG OF
SOIL BORING SB-710 (P)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria Oil Services	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance/Lynn Green	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/21/2002



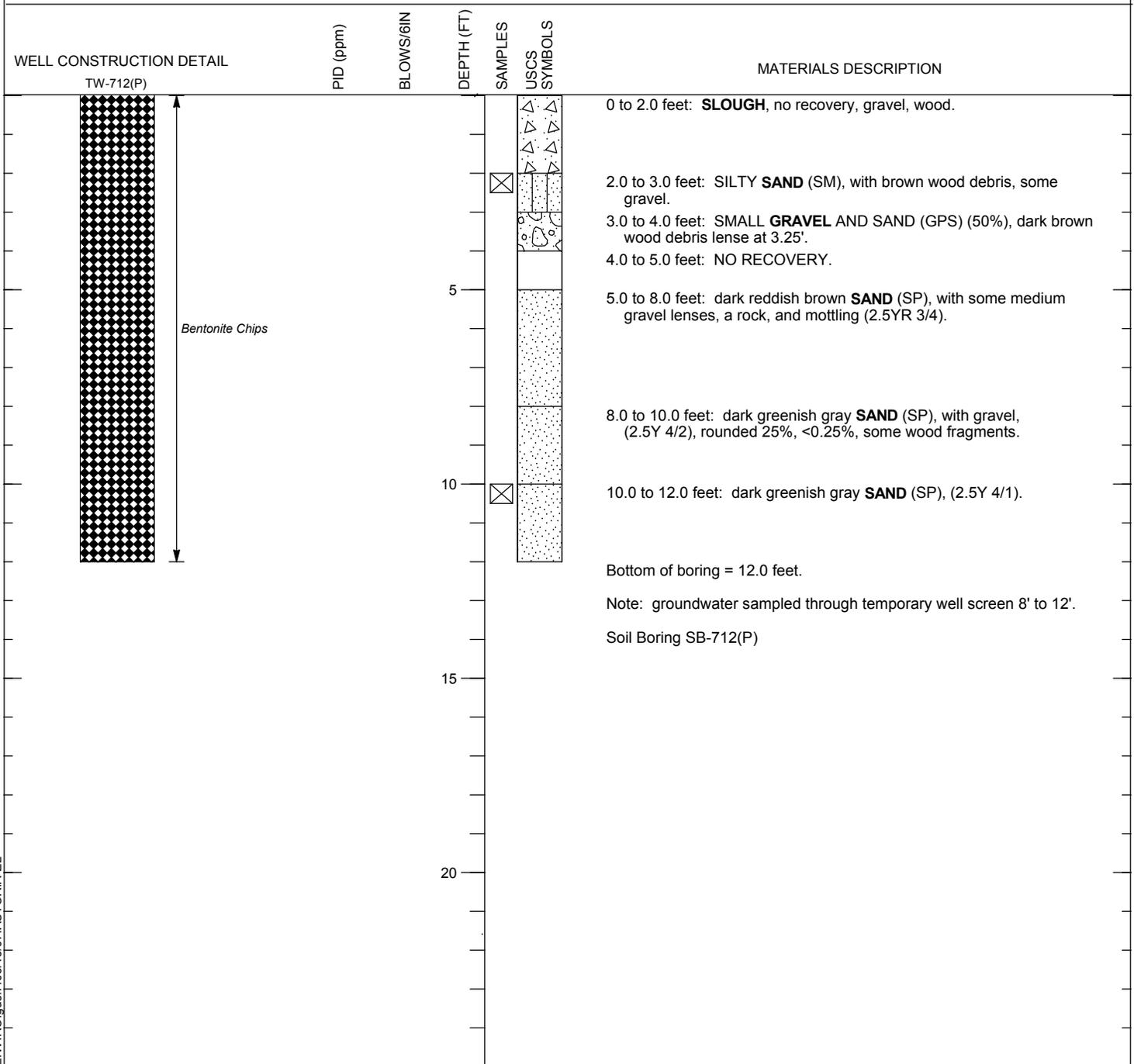
ENVIRO.gds:7.03/15/07.ASTORIA-EL

FIGURE B-145
LOG OF
SOIL BORING SB-711 (P)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria Oil Services
 JOB NUMBER 10066.002
 LOGGED BY Melanie Hance/Lynn Green
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 12 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/21/2002



ENVIRO.gds:7.03/15/07.ASTORIA-EL

FIGURE B-146
LOG OF
SOIL BORING SB-712 (P)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Pier 3	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/21/2002

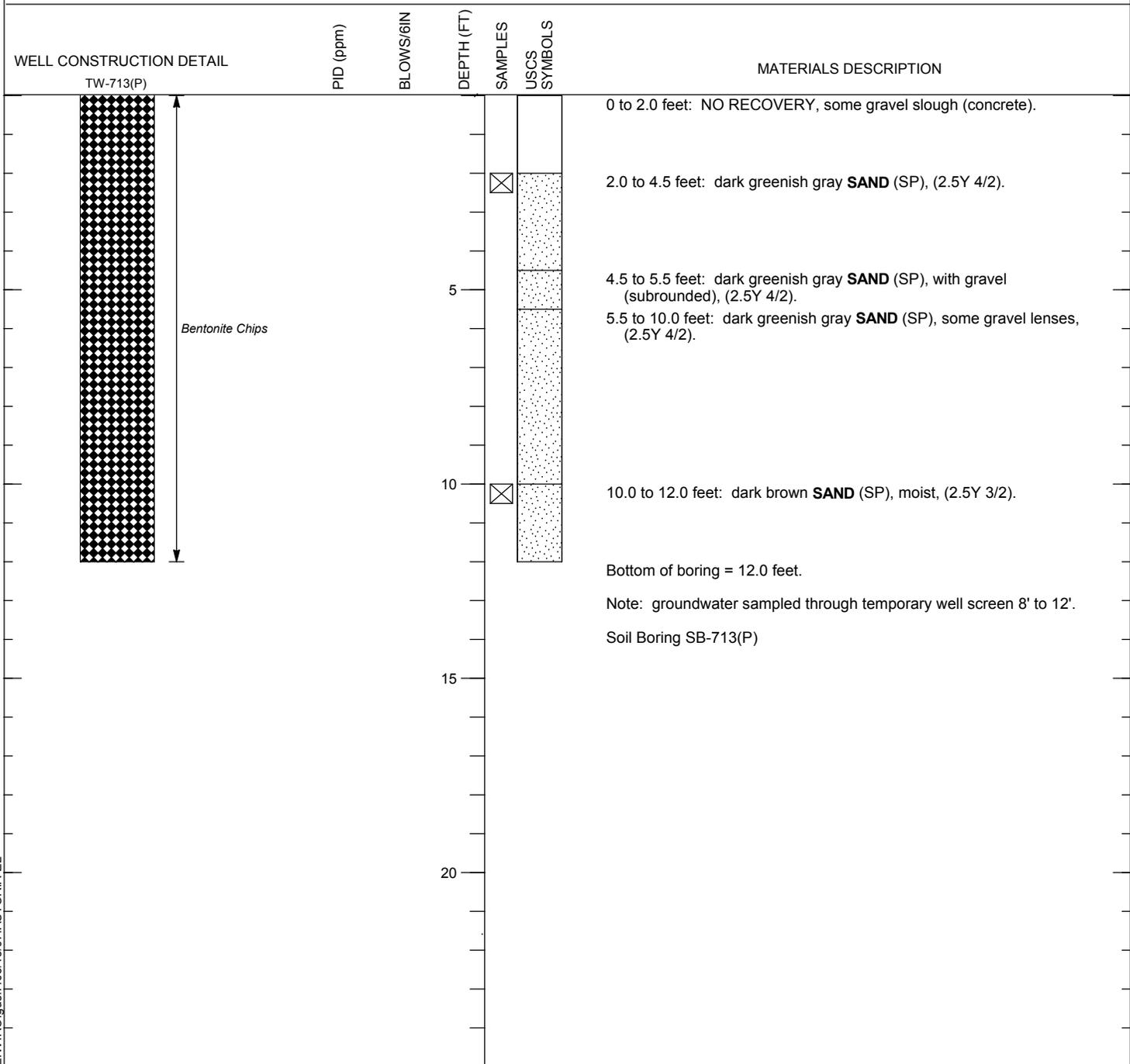


FIGURE B-147

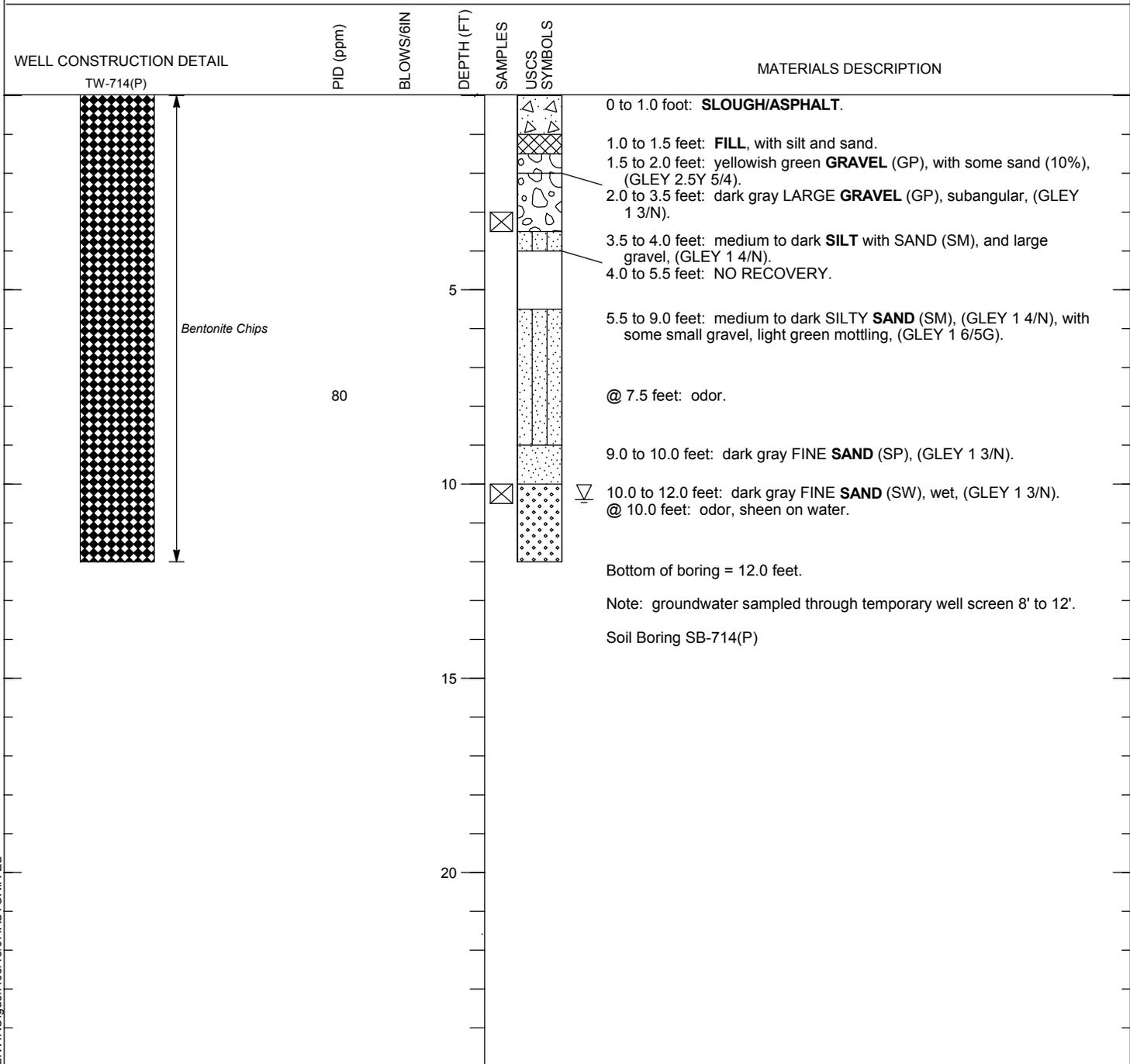
LOG OF SOIL BORING SB-713 (P)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



ENVIRO.gds:7.03/15/07.ASTORIA-EL

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Port Shop	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/21/2002



ENVIRO.gds:7.03/15/07.ASTORIA-EL

FIGURE B-148

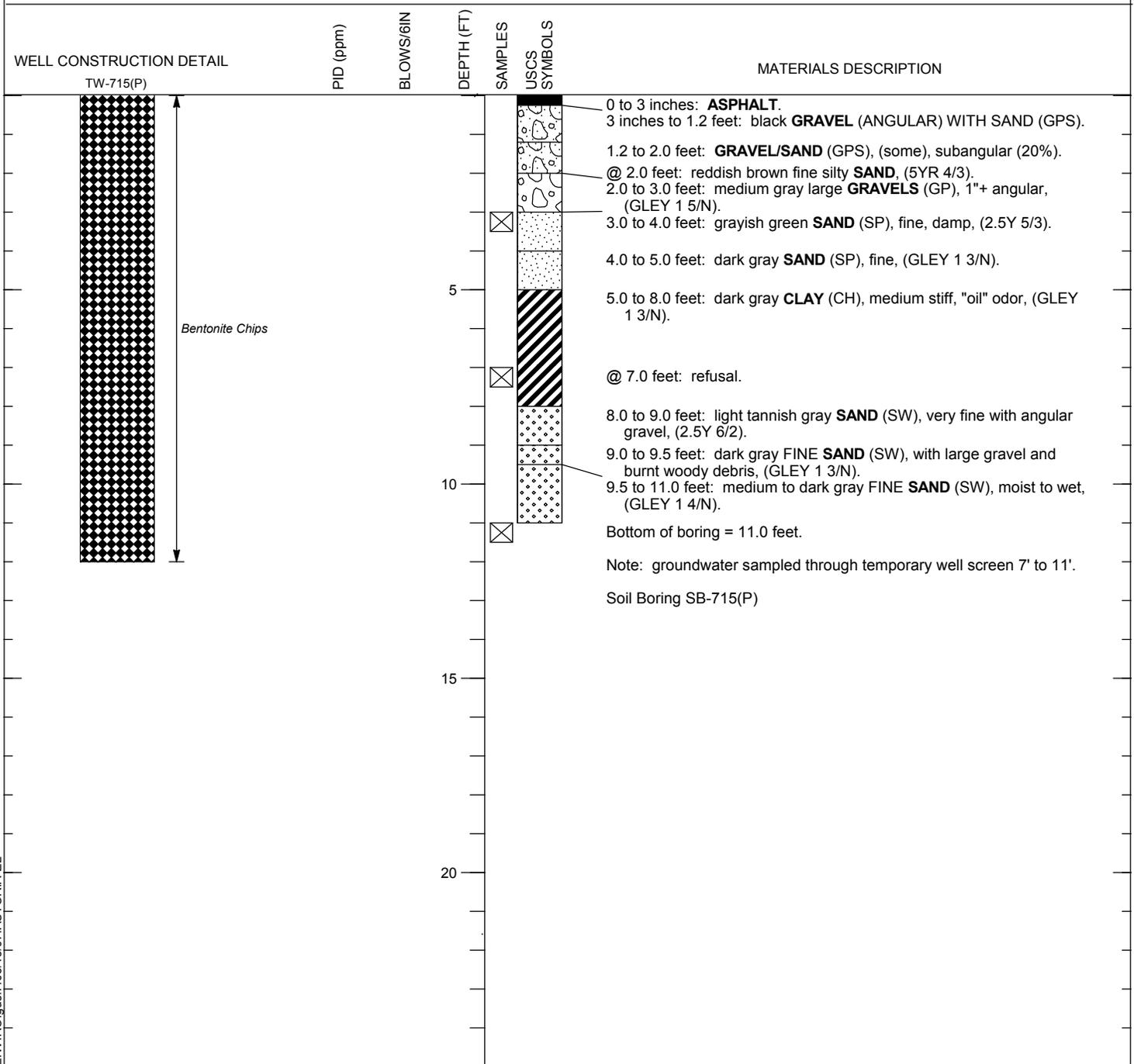
LOG OF SOIL BORING SB-714 (P)

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Port Shop
 JOB NUMBER 10066.002
 LOGGED BY Melanie Hance/Lynn Green
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 11 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/21/2002

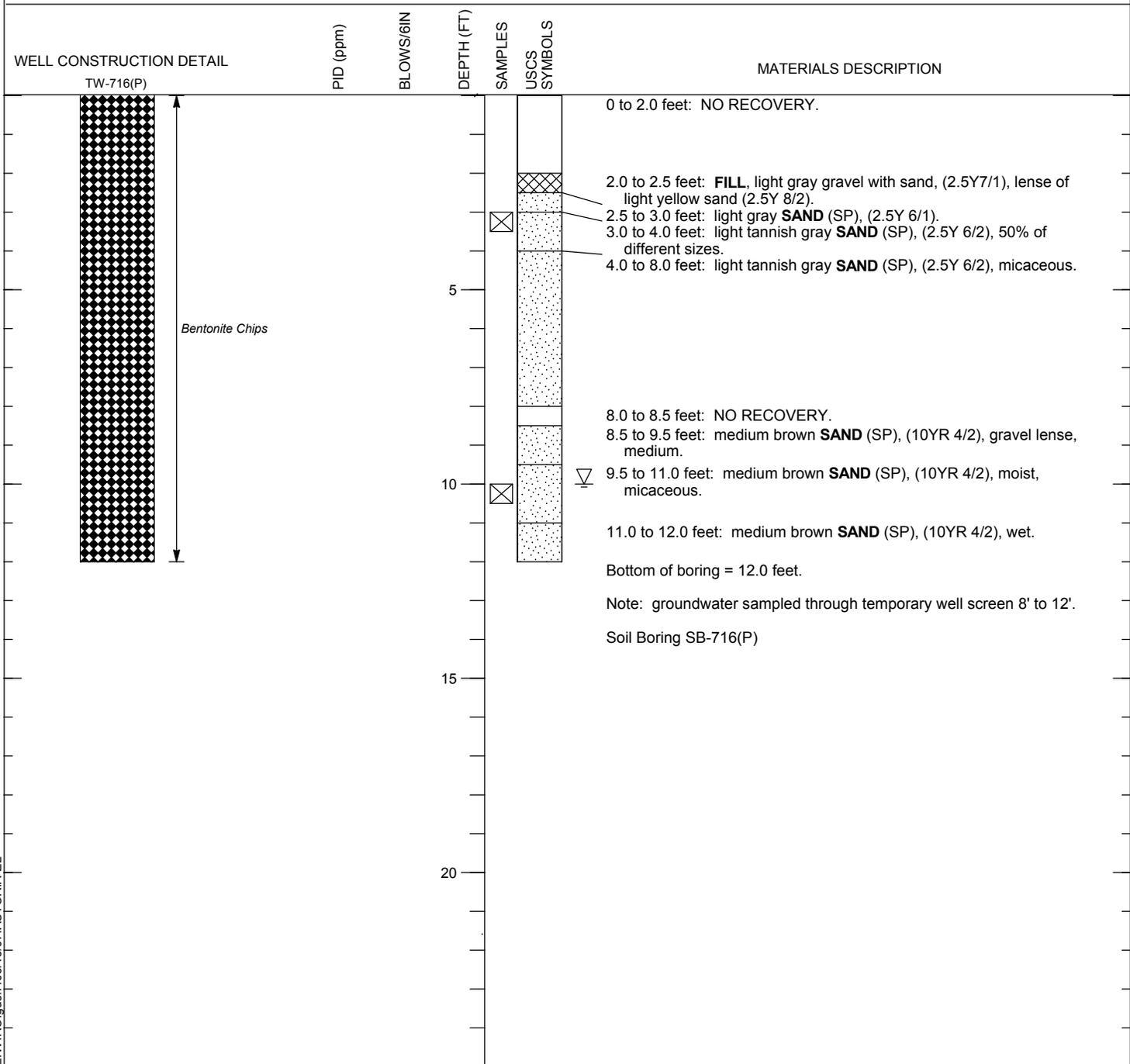


ENVIRO.gds:7.03/15/07_ASTORIA-EL

FIGURE B-149
LOG OF
SOIL BORING SB-715 (P)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Former Steel Works	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/20/2002



ENVIRO.gds:7.03/15/07.ASTORIA-EL

FIGURE B-150
LOG OF
SOIL BORING SB-716 (P)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Former Steel Works
 JOB NUMBER 10066.002
 LOGGED BY Melanie Hance
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 12 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/20/2002

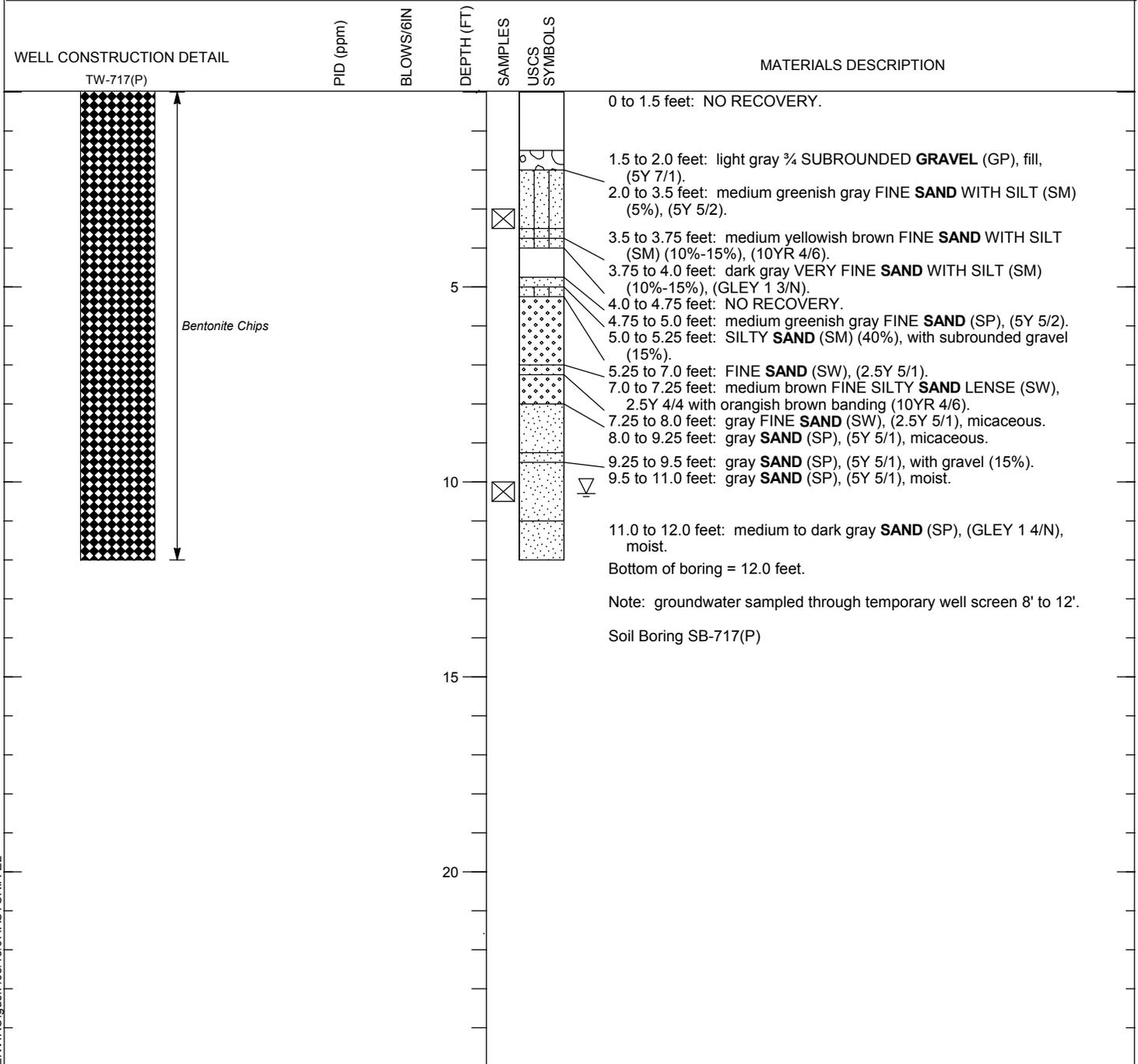


FIGURE B-151

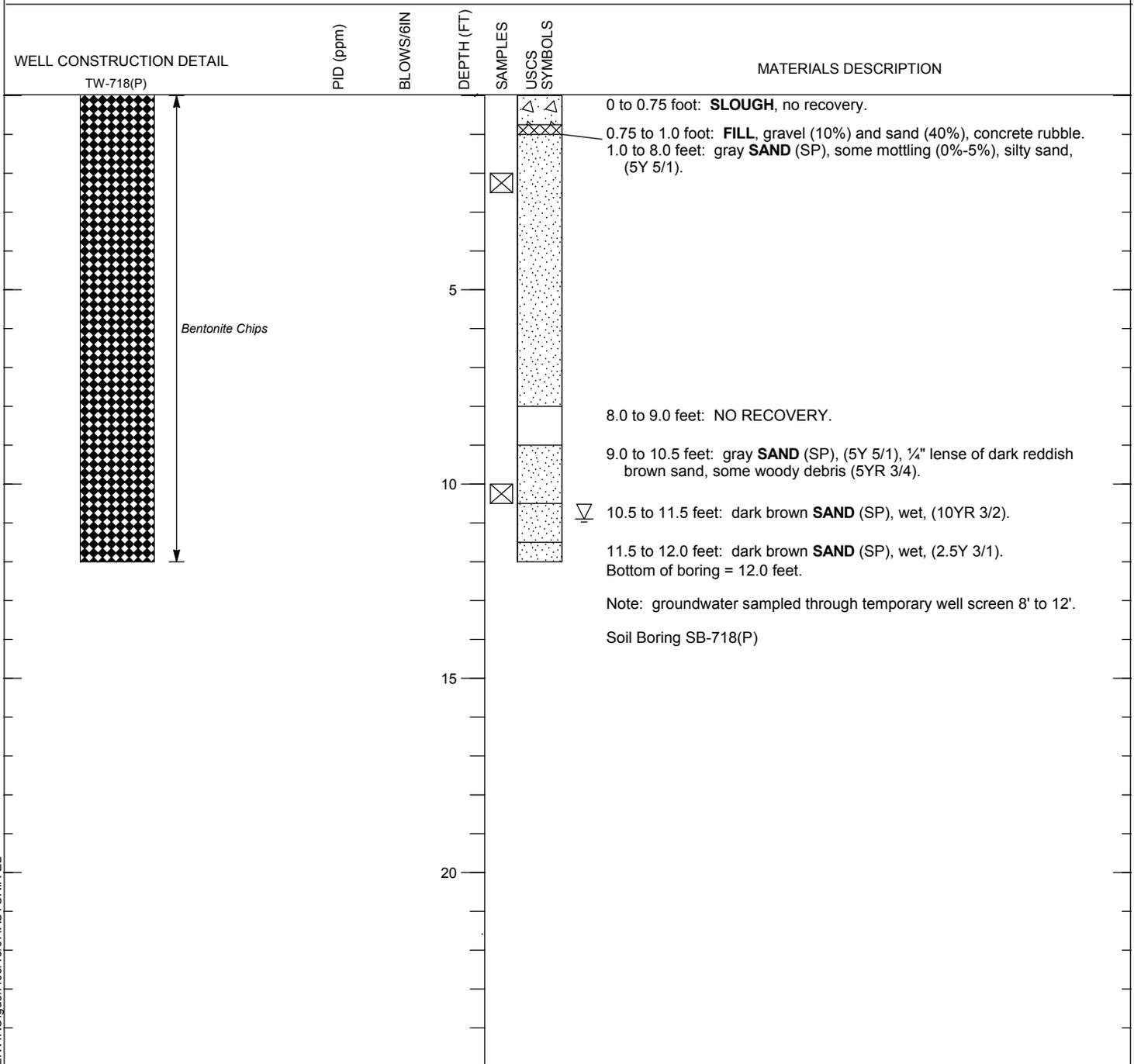
LOG OF SOIL BORING SB-717 (P)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Former Veneer Plant
 JOB NUMBER 10066.002
 LOGGED BY Melanie Hance
 DRILLING METHOD Geoprobe
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 12 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/21/2002



ENVIRO.gds:7.03/15/07.ASTORIA-EL

FIGURE B-152
LOG OF
SOIL BORING SB-718 (P)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Port	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Hance	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/23/2002

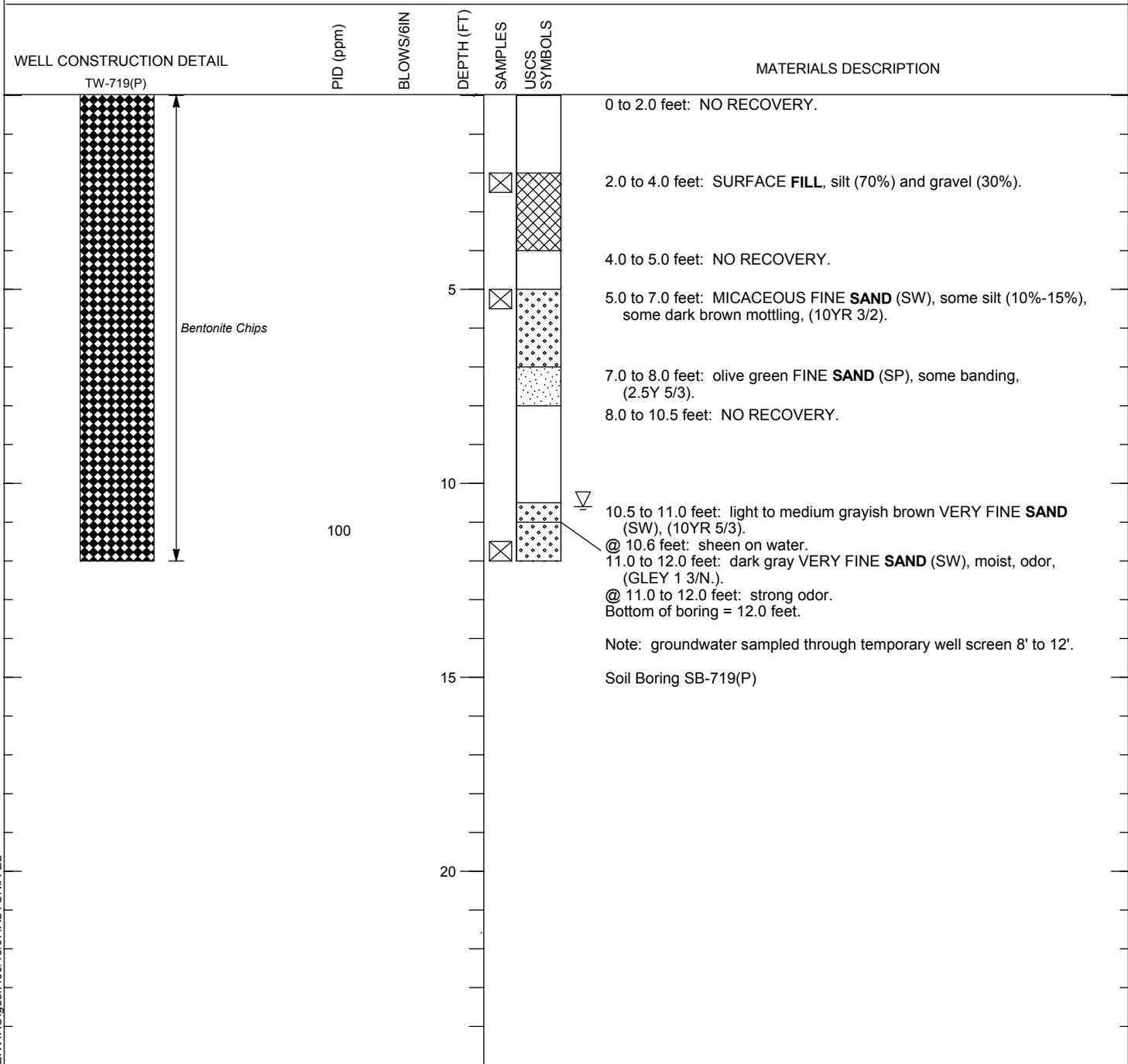


FIGURE B-153

LOG OF SOIL BORING SB-719 (P)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



ENVIRO.gds:7.03/15/07.ASTORIA-EL

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Former Veneer Plant	SURFACE ELEVATION	
JOB NUMBER	10066.002	REFERENCE POINT ELEVATION	
LOGGED BY	Lynn Green	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/23/2002

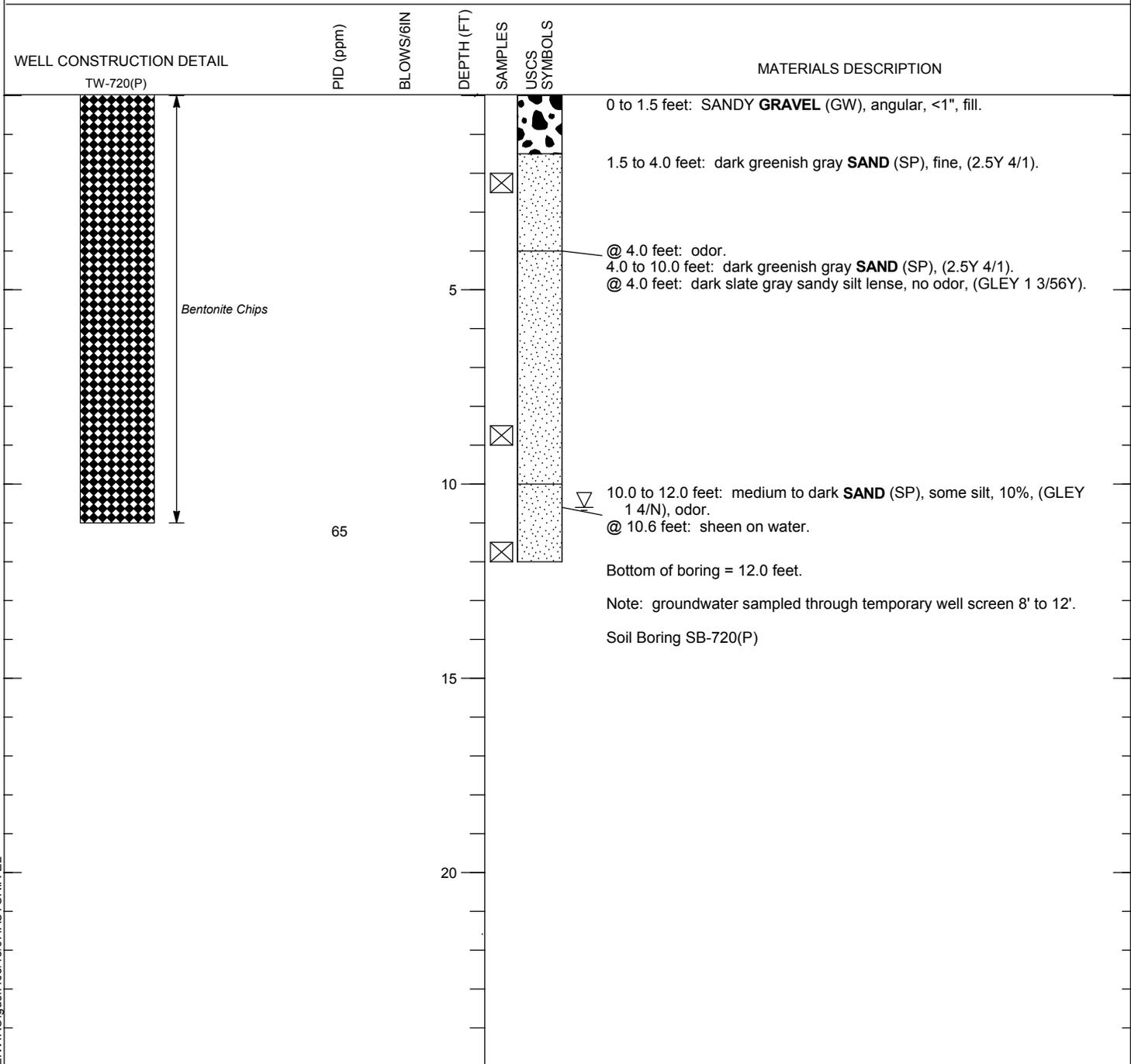


FIGURE B-154

LOG OF SOIL BORING SB-720 (P)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon



ENVIRO.gds:7_03/15/07_ASTORIA-EL

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	10 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004

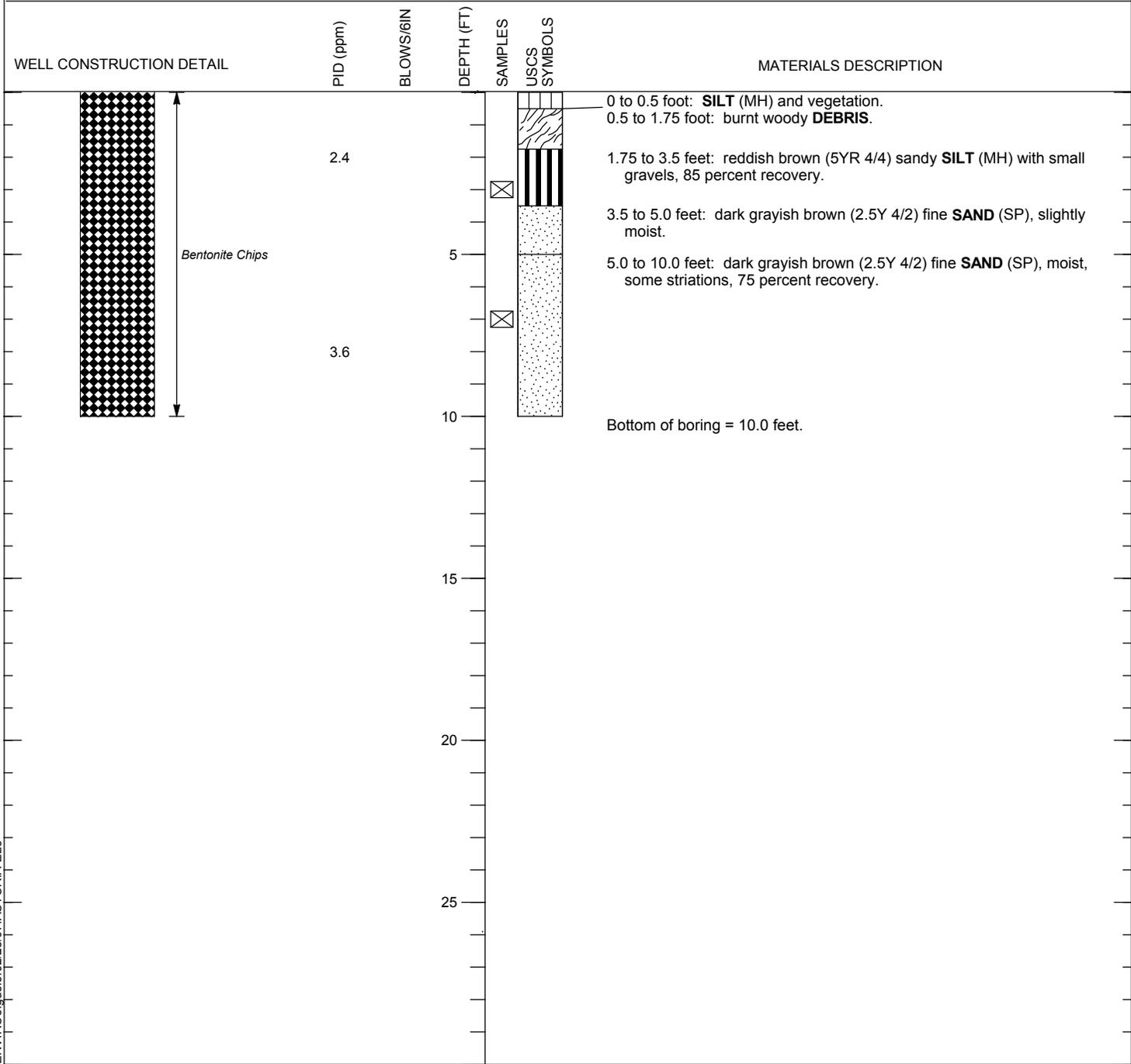


FIGURE B-155

LOG OF SOIL BORING SB-721(P)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002

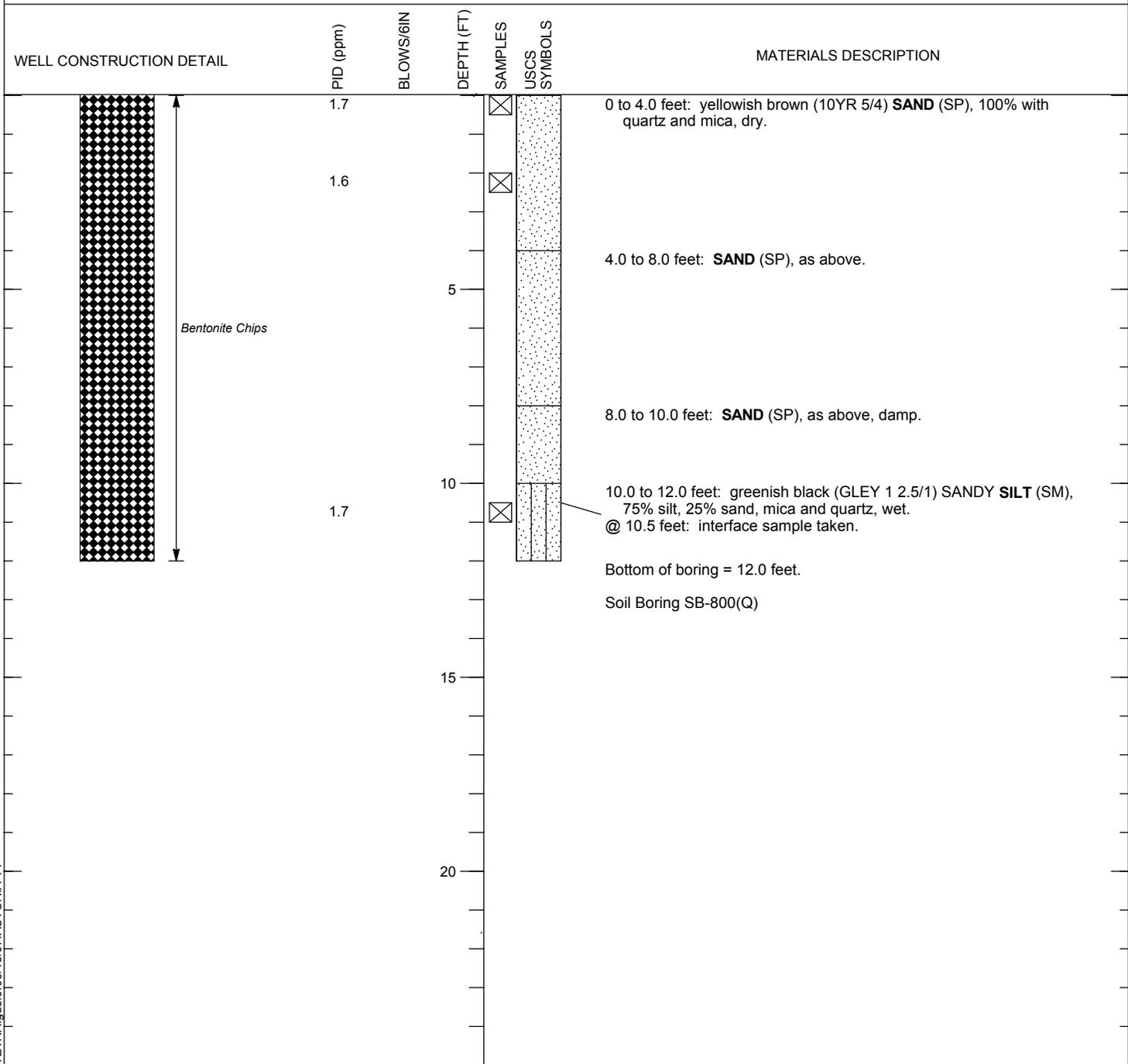


FIGURE B-156

LOG OF SOIL BORING SB-800 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2002

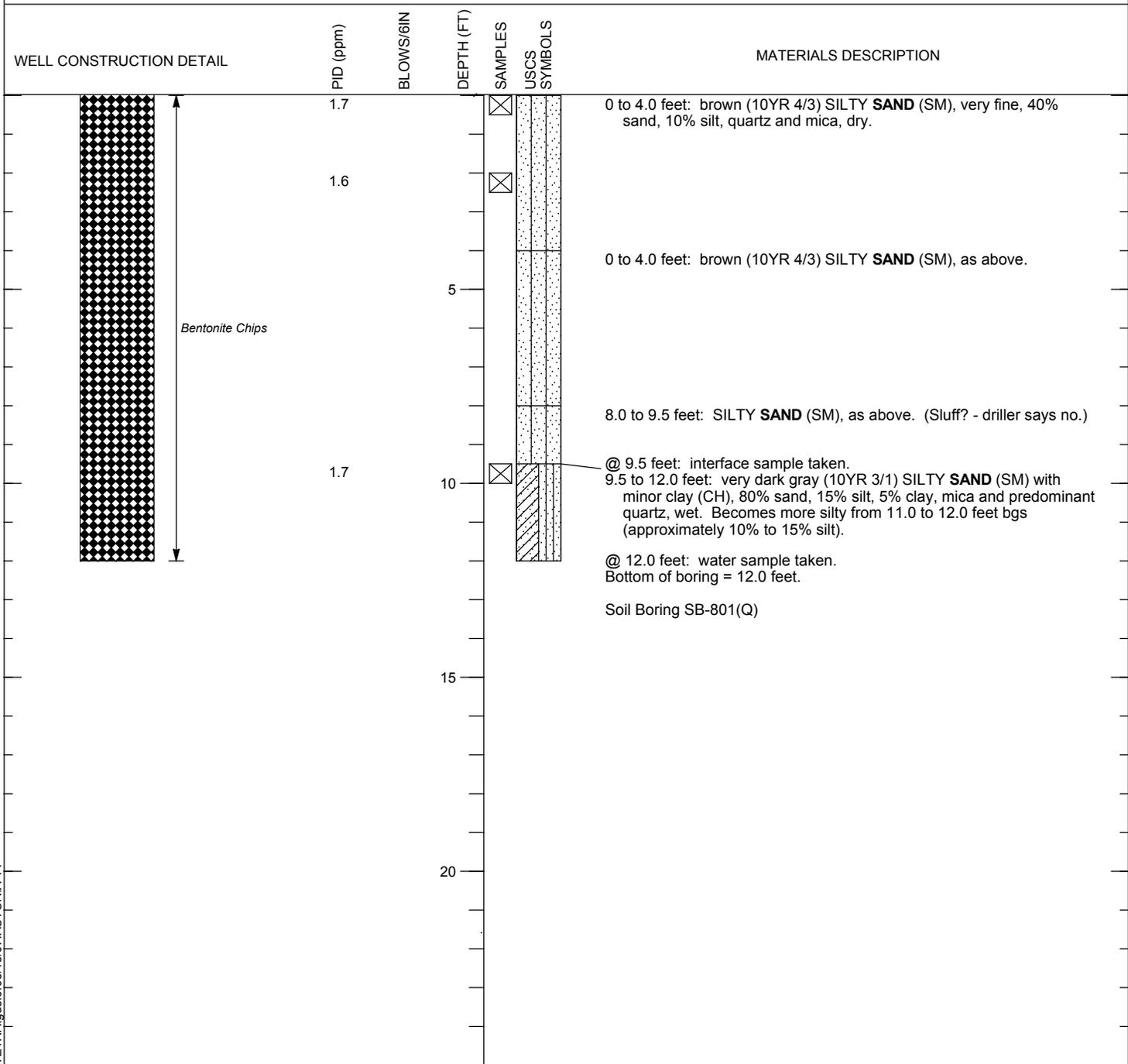


FIGURE B-157

LOG OF SOIL BORING SB-801 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2002

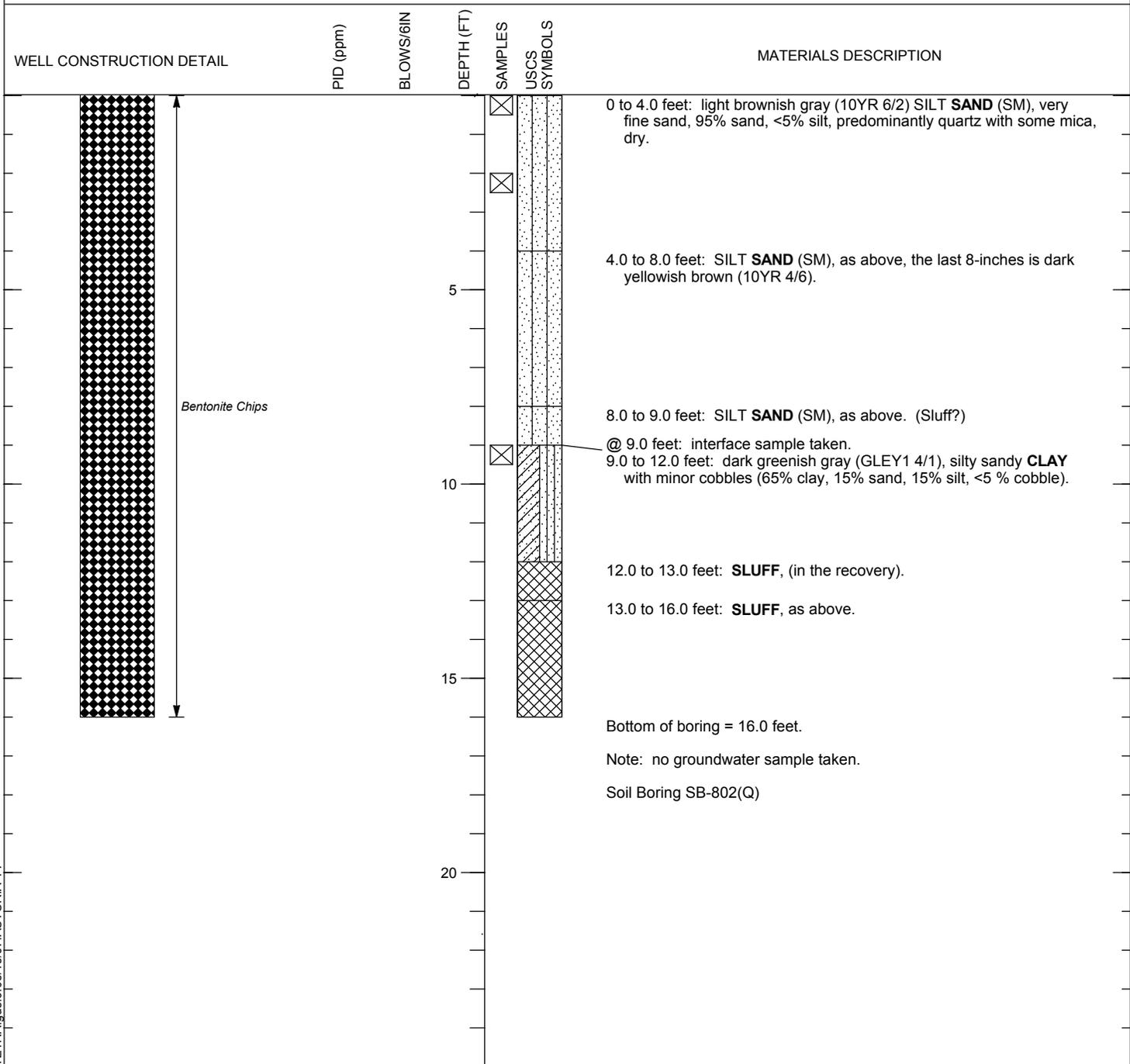


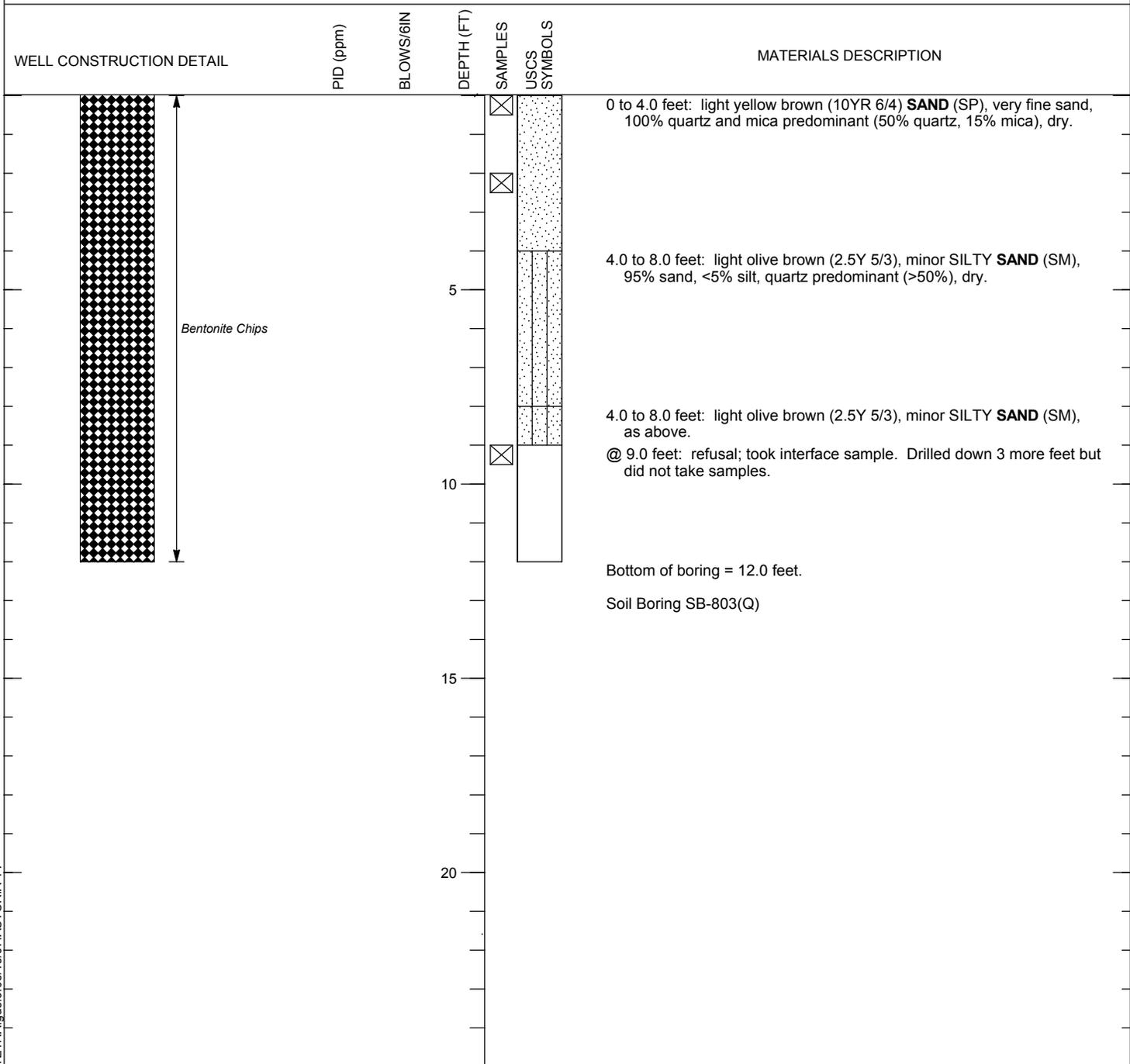
FIGURE B-158

LOG OF SOIL BORING SB-802 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2002



TETRAgds.03/15/07.ASTORIA-TT

FIGURE B-159
LOG OF
SOIL BORING SB-803 (Q)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2002

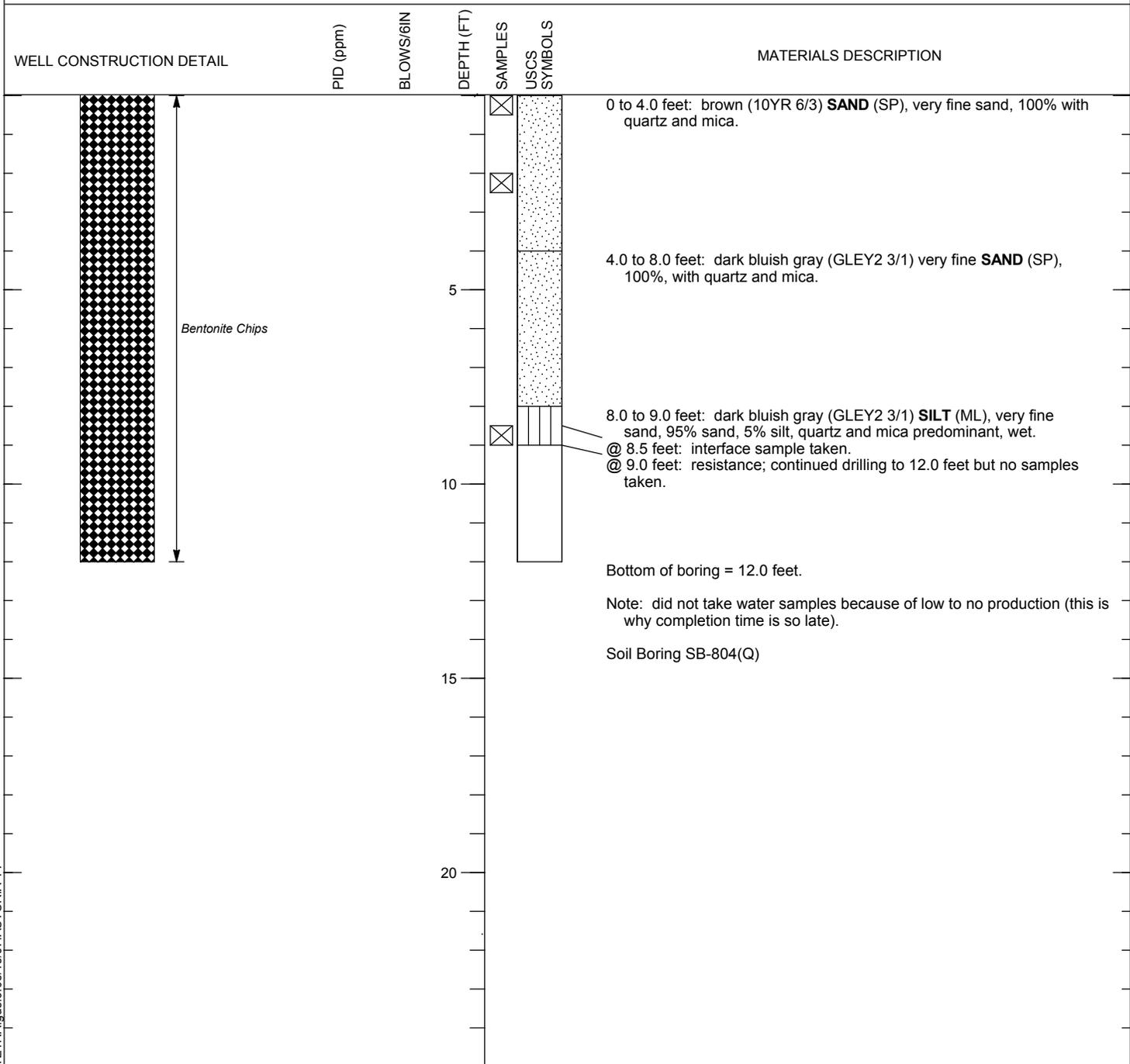


FIGURE B-160

LOG OF
SOIL BORING SB-804 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2002

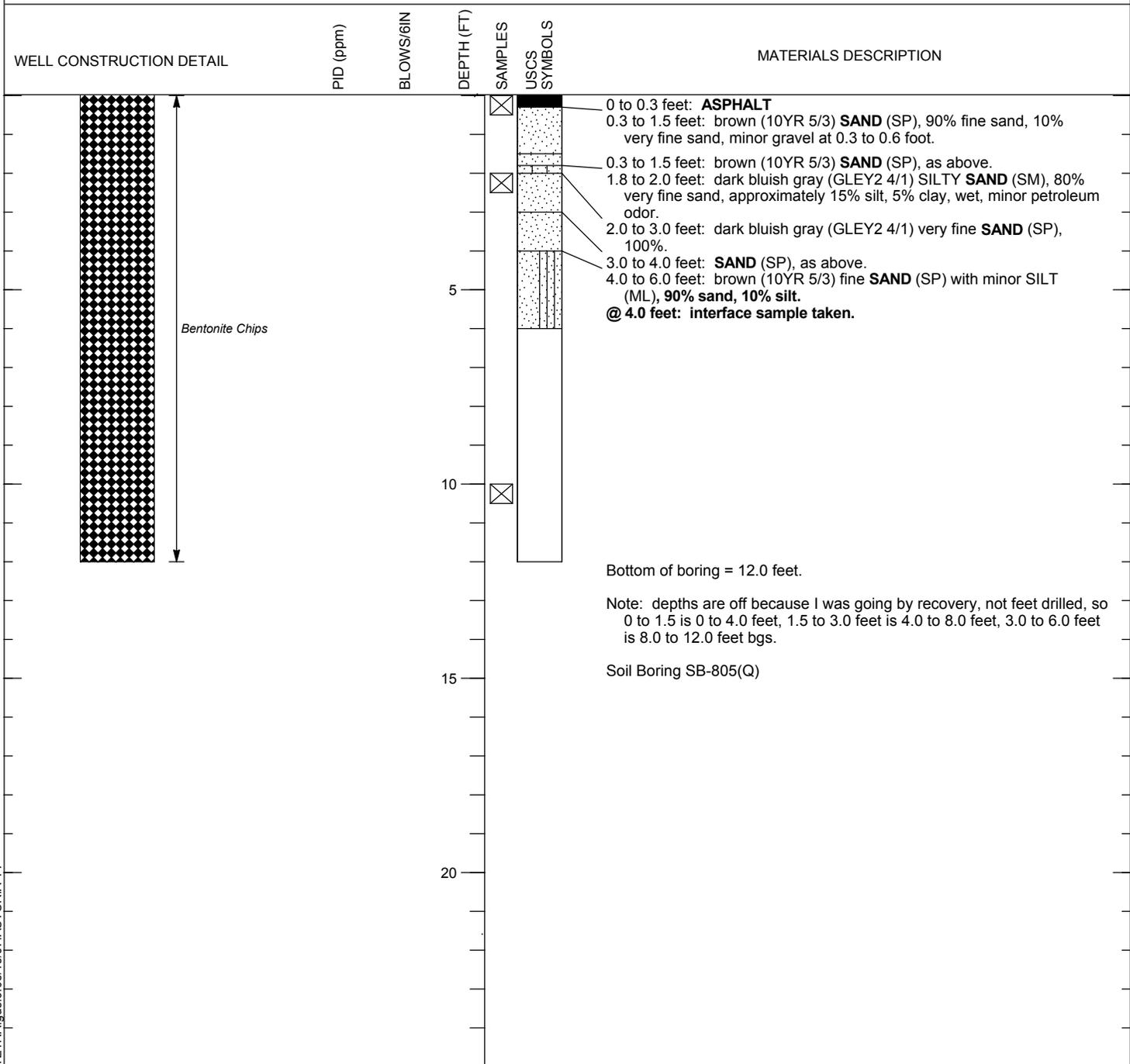


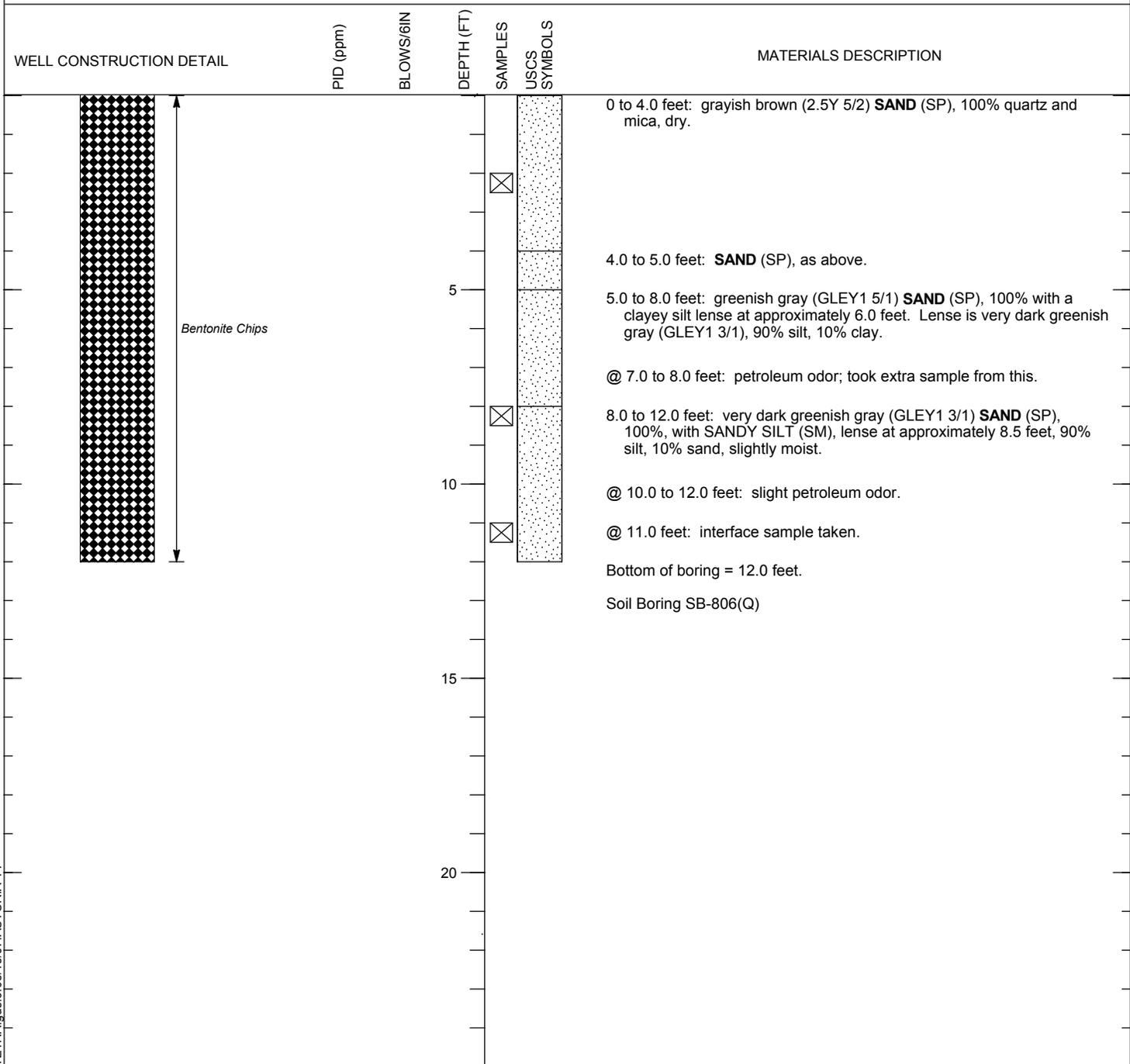
FIGURE B-161

**LOG OF
SOIL BORING SB-805 (Q)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2002



TETRAgds.03/15/07.ASTORIA-TT

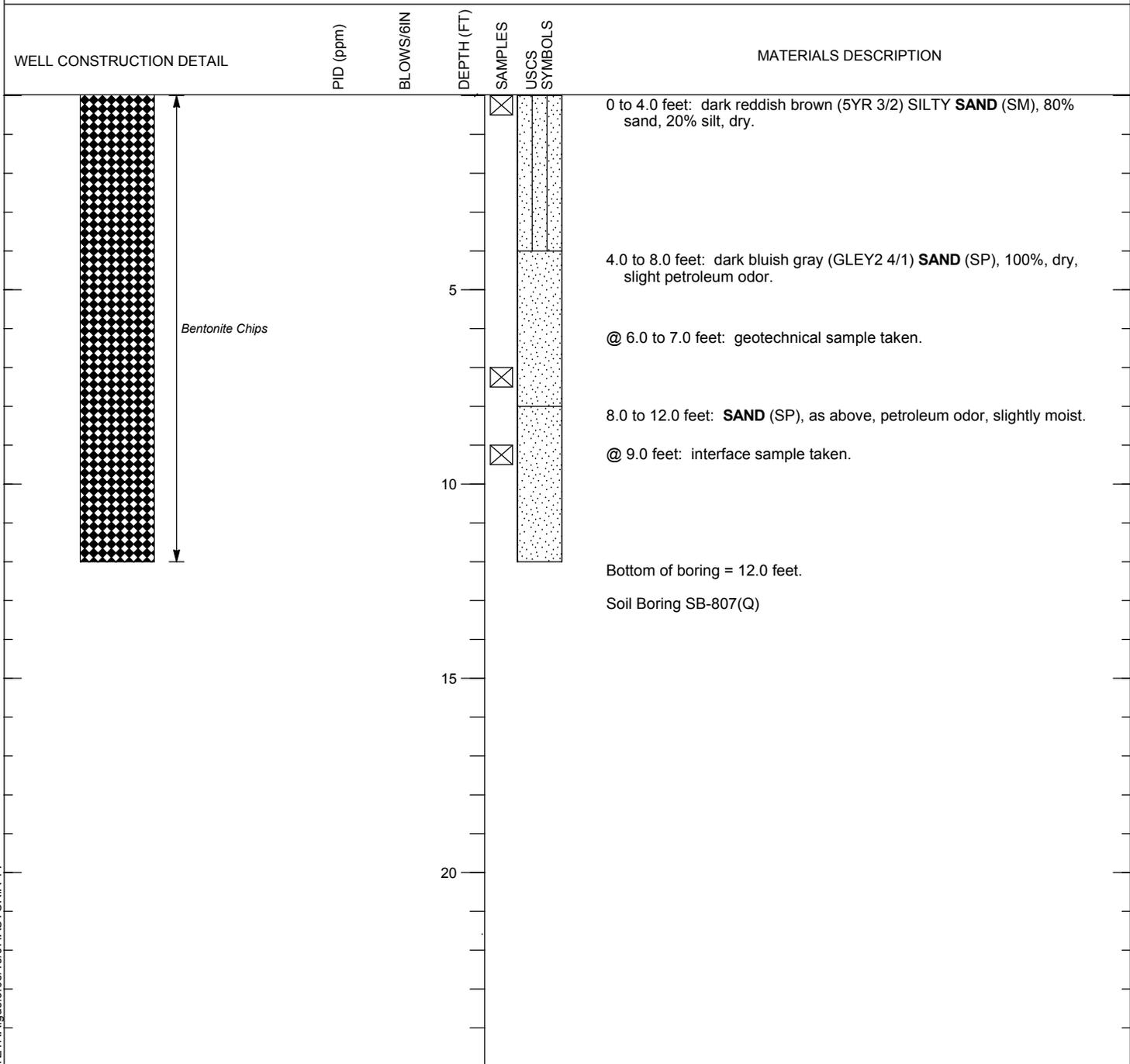
FIGURE B-162

LOG OF
SOIL BORING SB-806 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2002



TETRAgds.03/15/07.ASTORIA-TT

FIGURE B-163
LOG OF
SOIL BORING SB-807 (Q)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	0 feet
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	

WELL CONSTRUCTION DETAIL	PID (ppm)	BLOWS/6IN	DEPTH (FT)	SAMPLES	USCS SYMBOLS	MATERIALS DESCRIPTION
						Not drilled due to lack of access. Soil Boring SB-808(Q)
			5			
			10			
			15			
			20			

TETRAgds.03/15/07.ASTORIA-TT

FIGURE B-164

**LOG OF
SOIL BORING SB-808 (Q)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2002

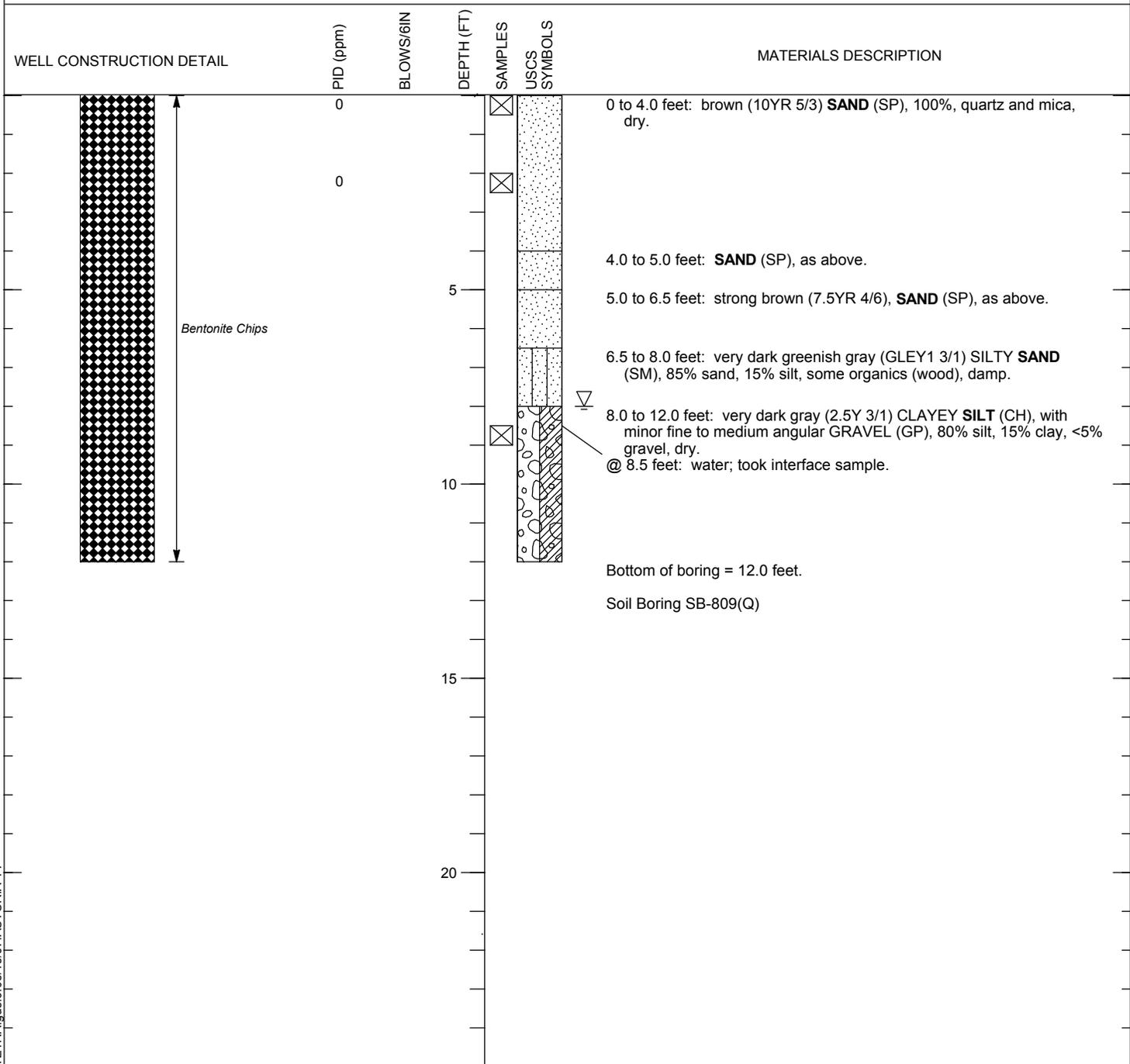


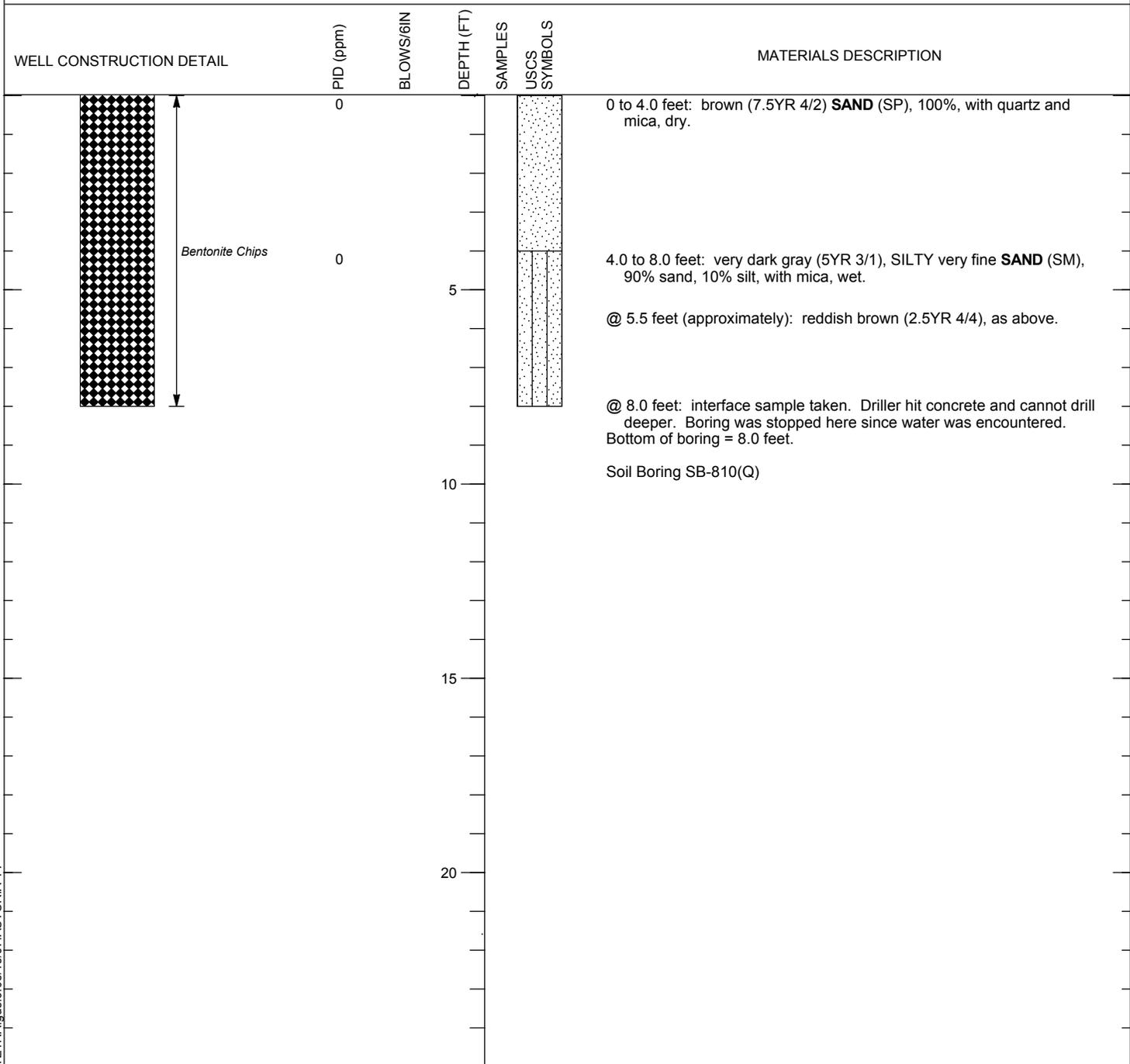
FIGURE B-165

LOG OF
SOIL BORING SB-809 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	8 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2002



TETRAgds.03/15/07.ASTORIA-TT

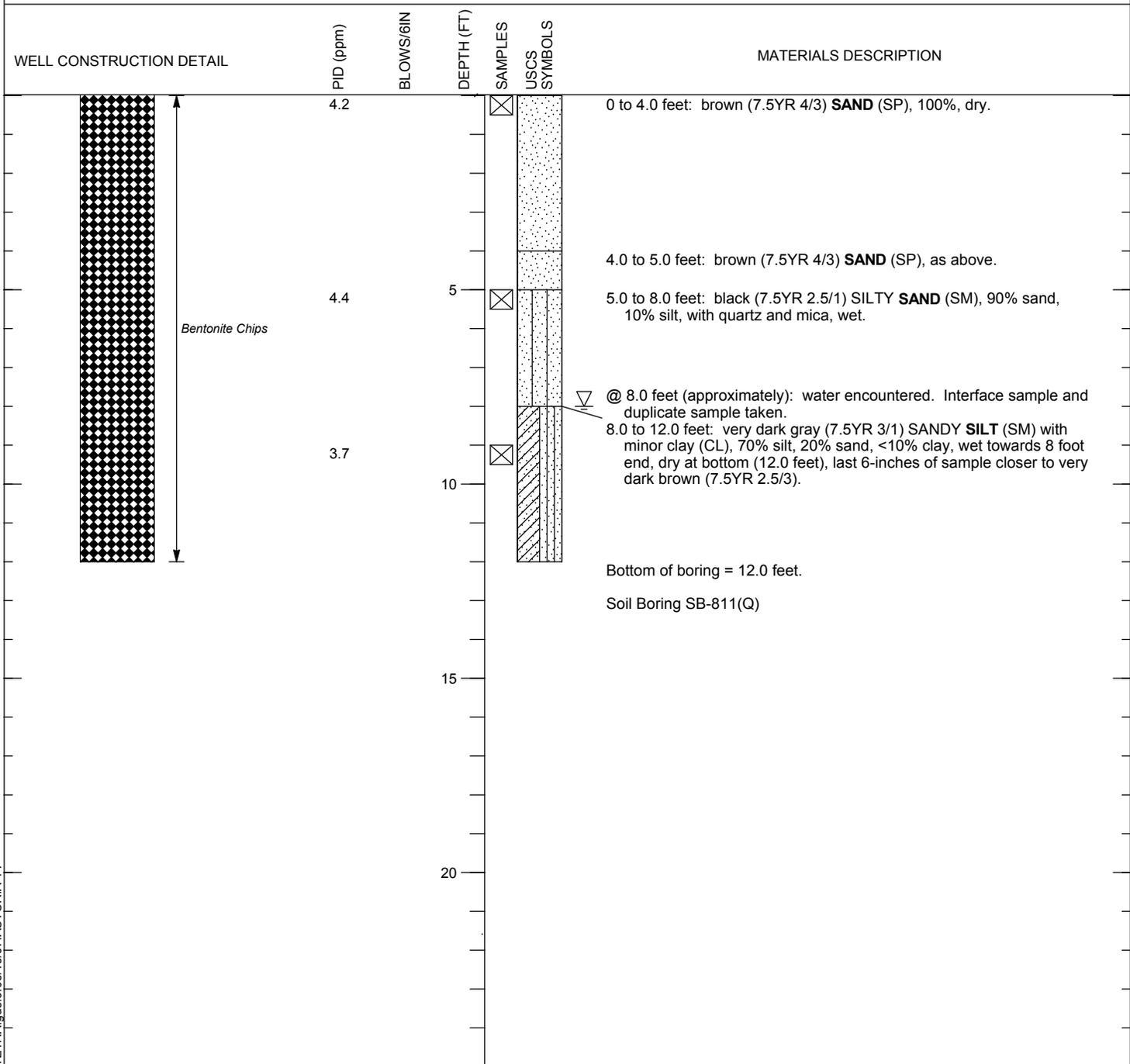
FIGURE B-166

LOG OF SOIL BORING SB-810 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002



TETRAgds.03/15/07.ASTORIA-TT

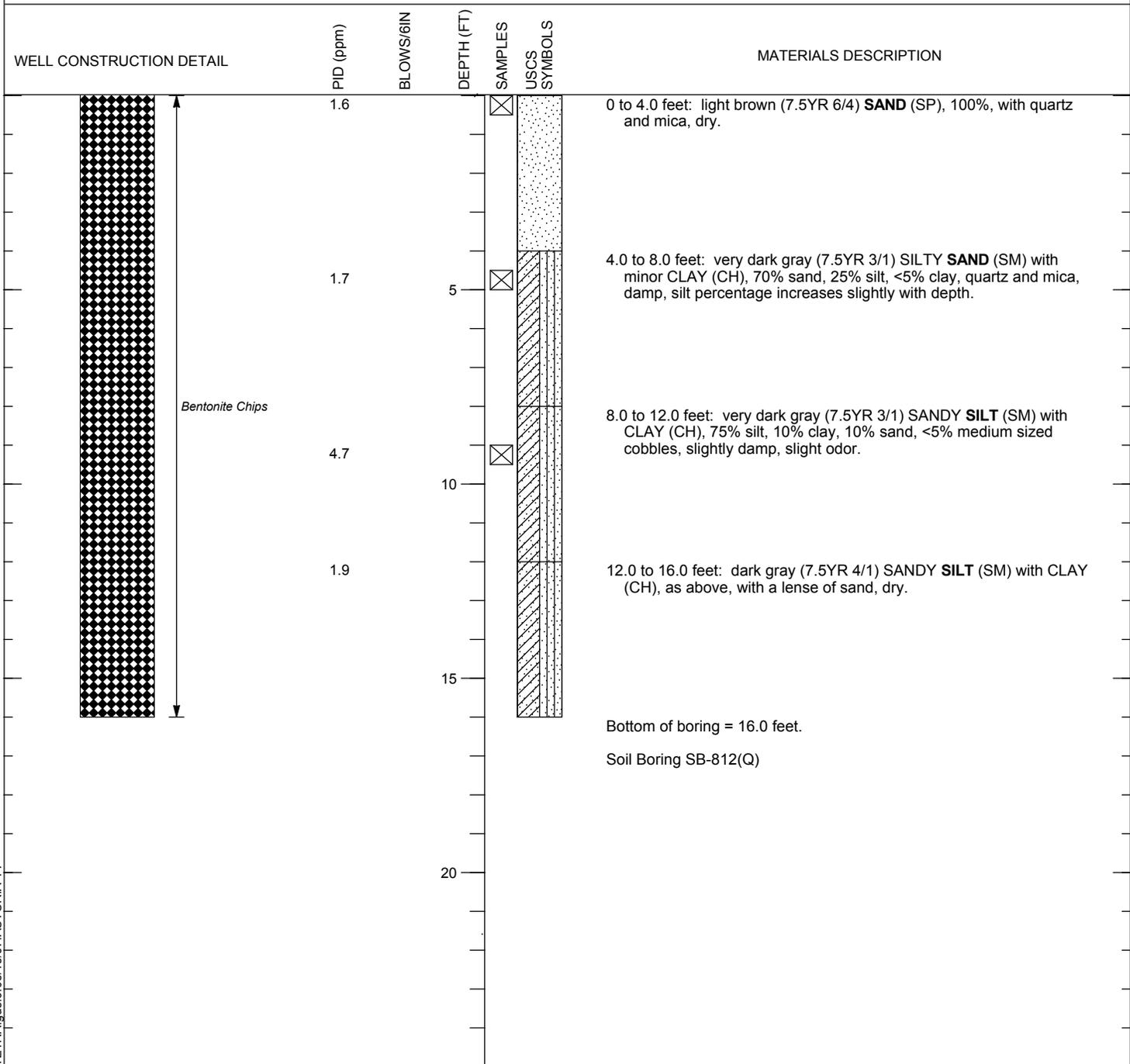
FIGURE B-167

LOG OF SOIL BORING SB-811 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002



TETRAgds.03/15/07.ASTORIA-TT

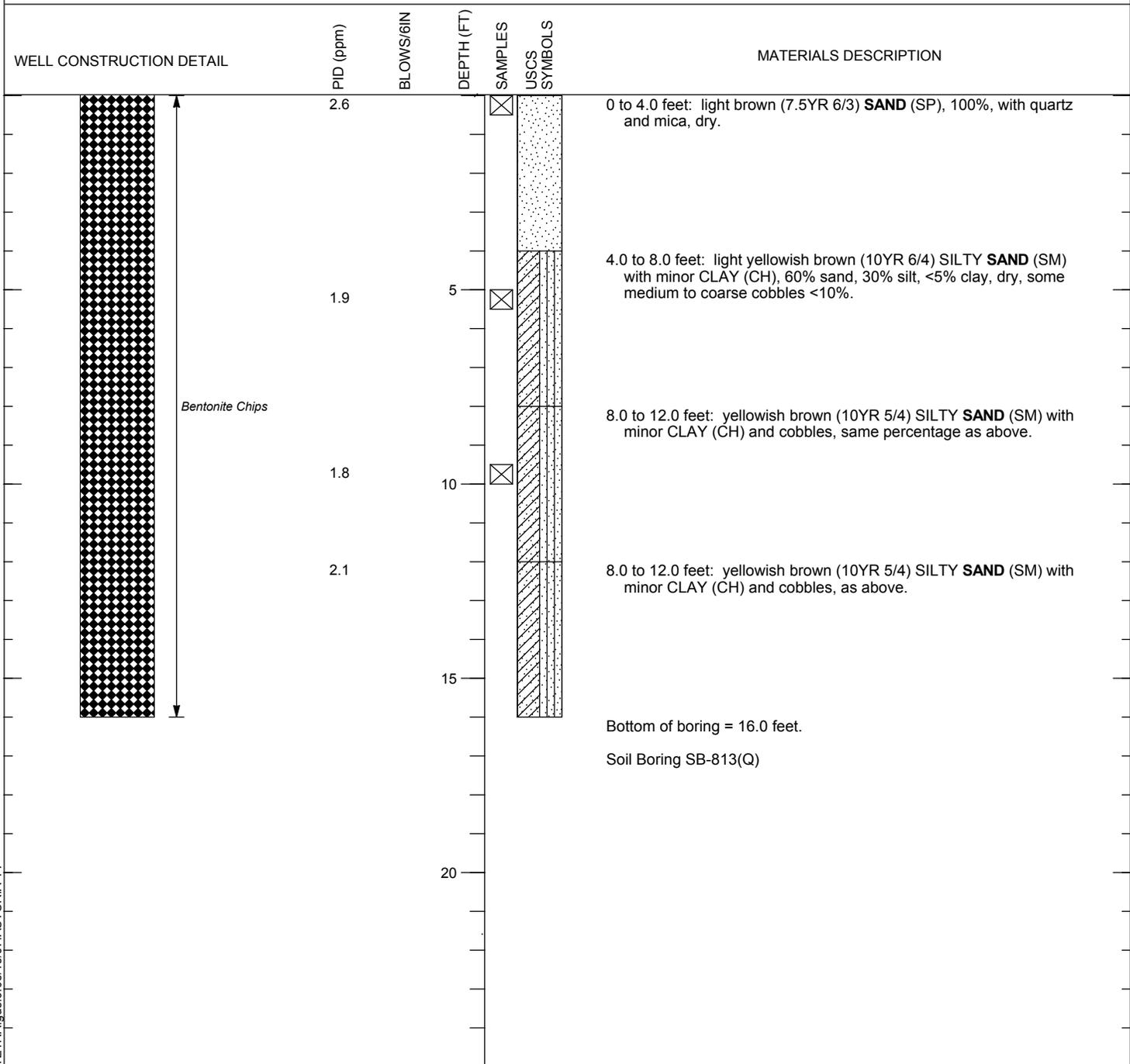
FIGURE B-168

LOG OF SOIL BORING SB-812 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002



TETRAgds.6.03/15/07.ASTORIA-TT

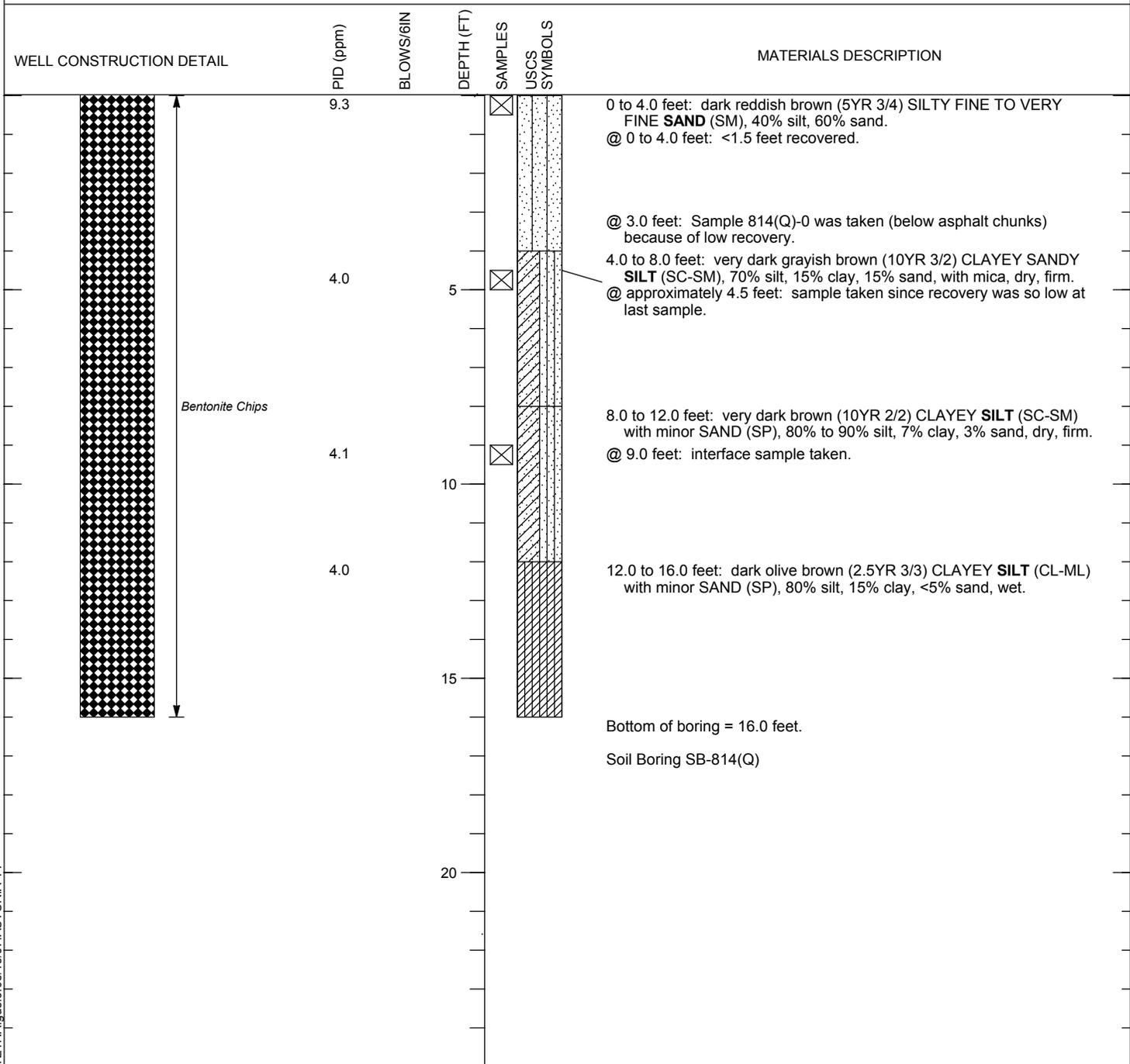
FIGURE B-169

LOG OF SOIL BORING SB-813 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002



TETRAgds.03/15/07.ASTORIA-TT

FIGURE B-170

LOG OF SOIL BORING SB-814 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002

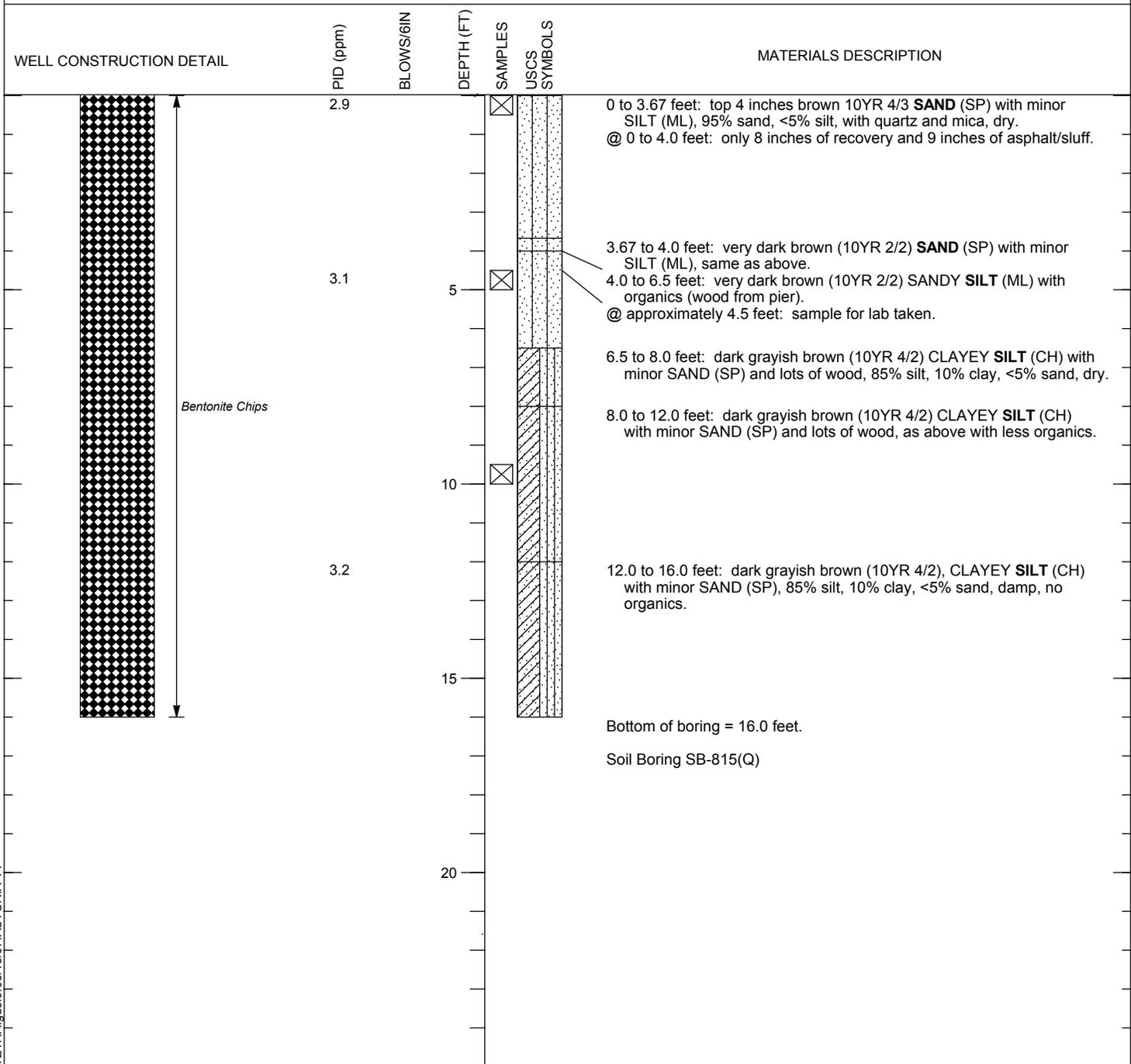


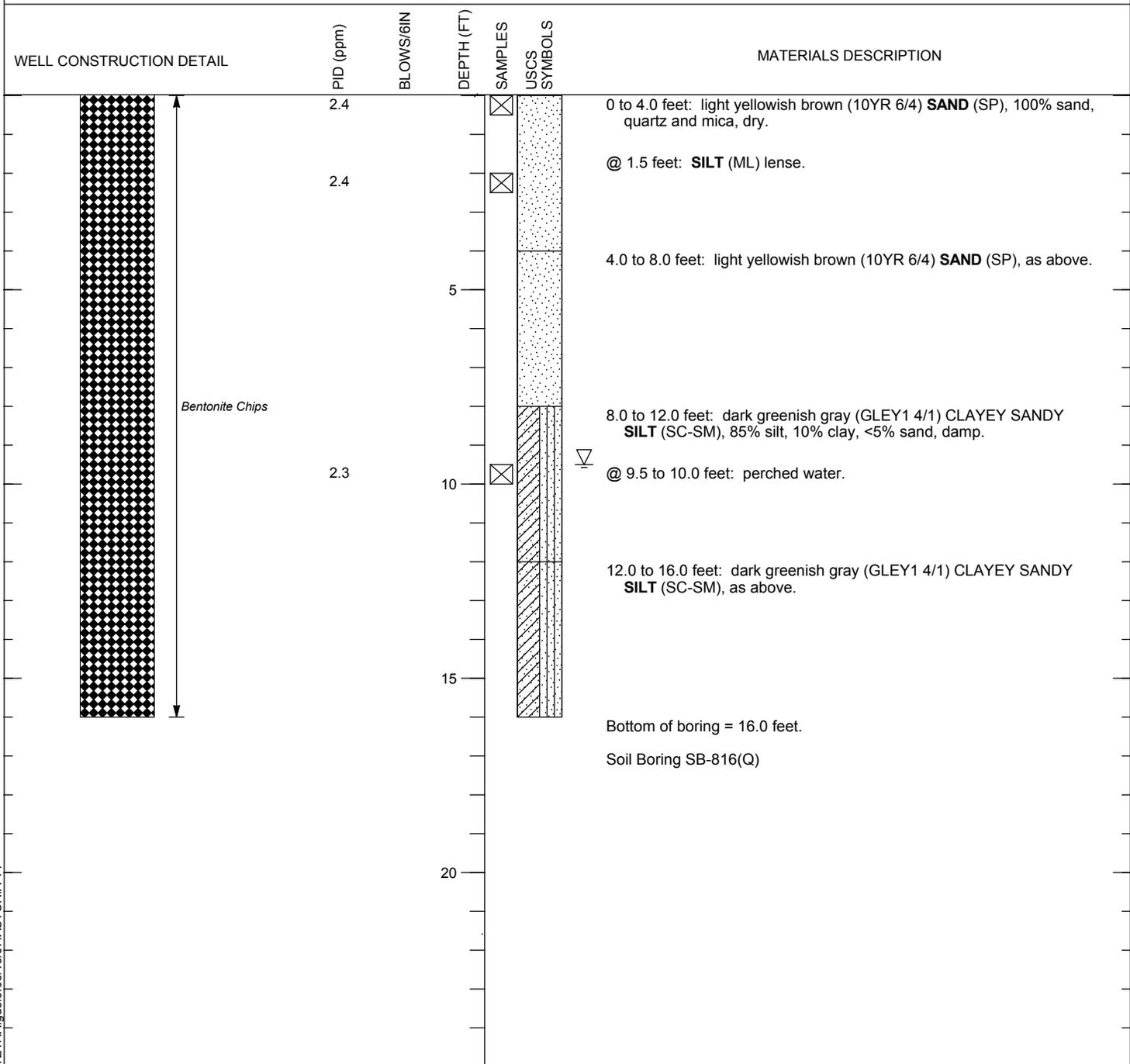
FIGURE B-171

**LOG OF
SOIL BORING SB-815 (Q)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002



TETRAgds.03/15/07.ASTORIA-TT

FIGURE B-172

LOG OF SOIL BORING SB-816 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002

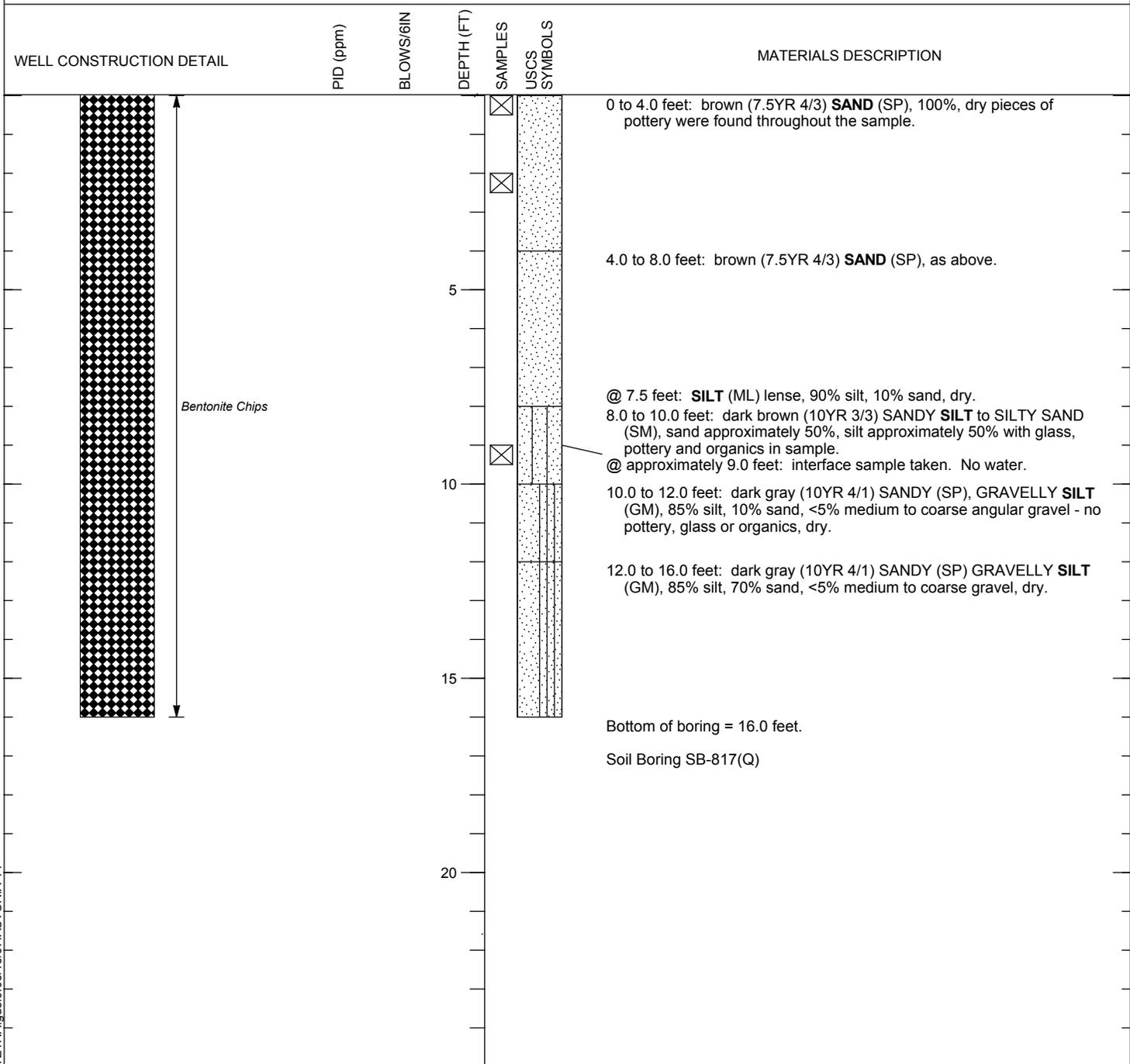


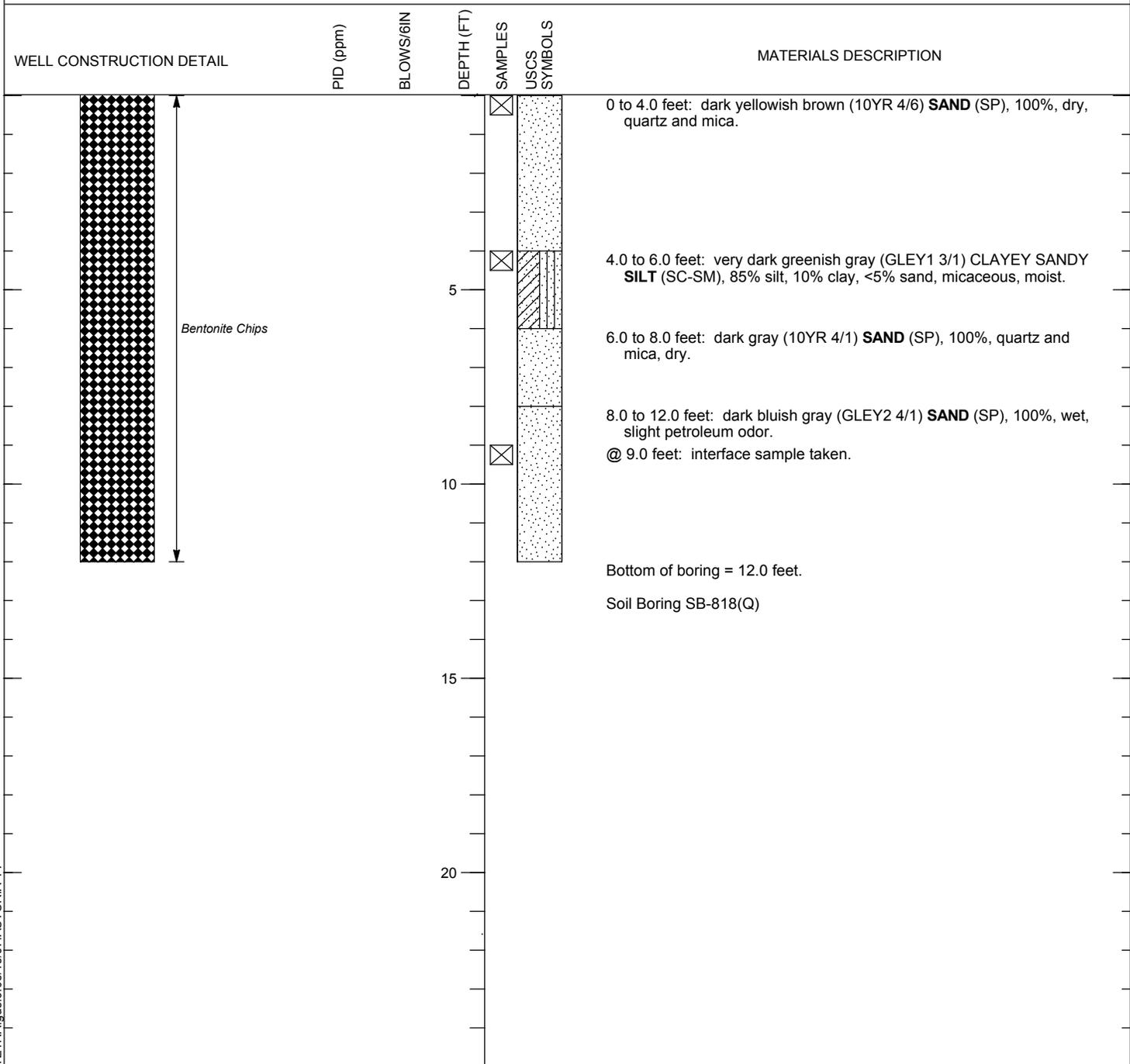
FIGURE B-173

LOG OF
SOIL BORING SB-817 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002



TETRAgds.03/15/07.ASTORIA-TT

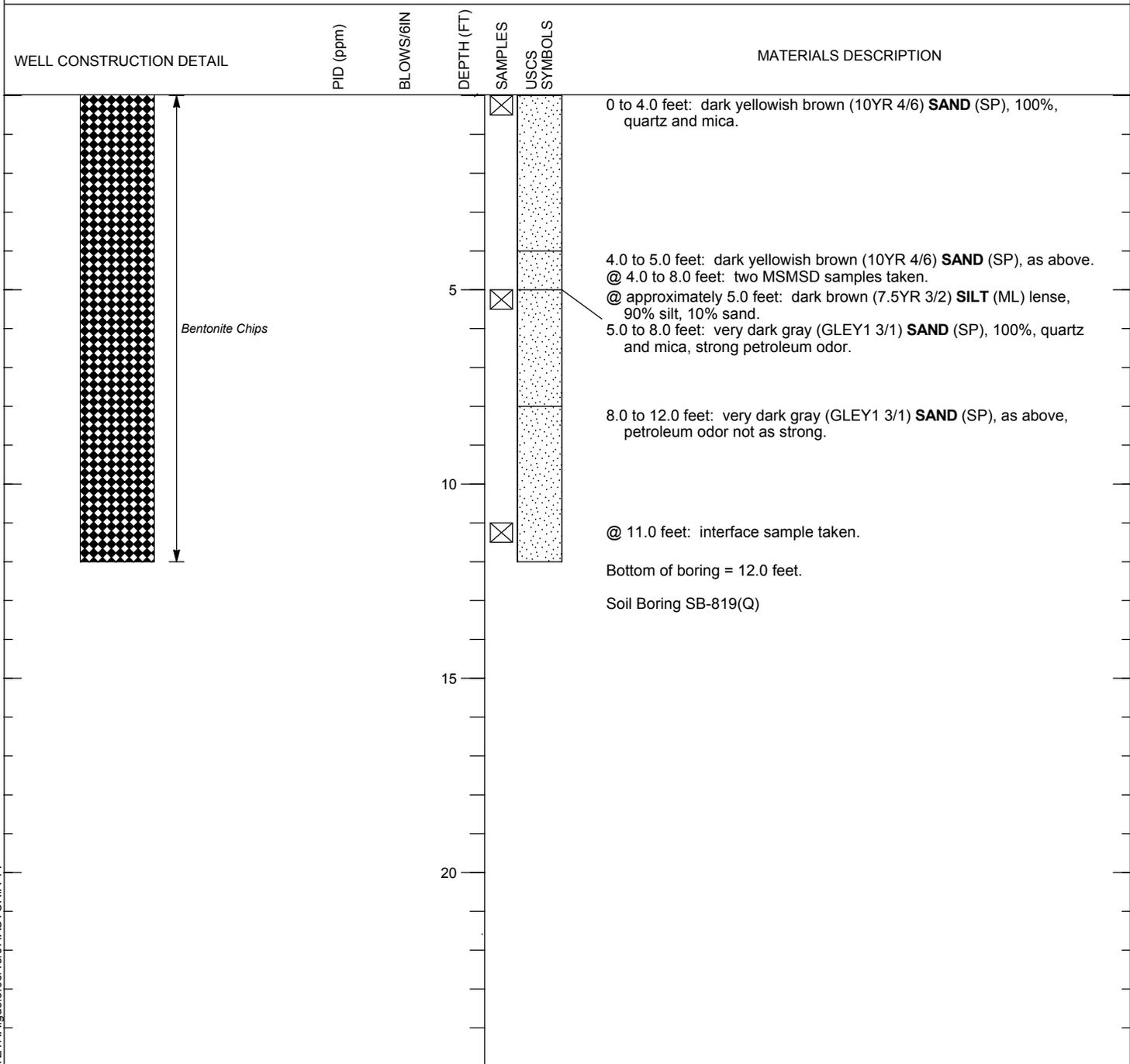
FIGURE B-174

LOG OF SOIL BORING SB-818 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002



TETRAgds.03/15/07.ASTORIA-TT

FIGURE B-175
LOG OF
SOIL BORING SB-819 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002

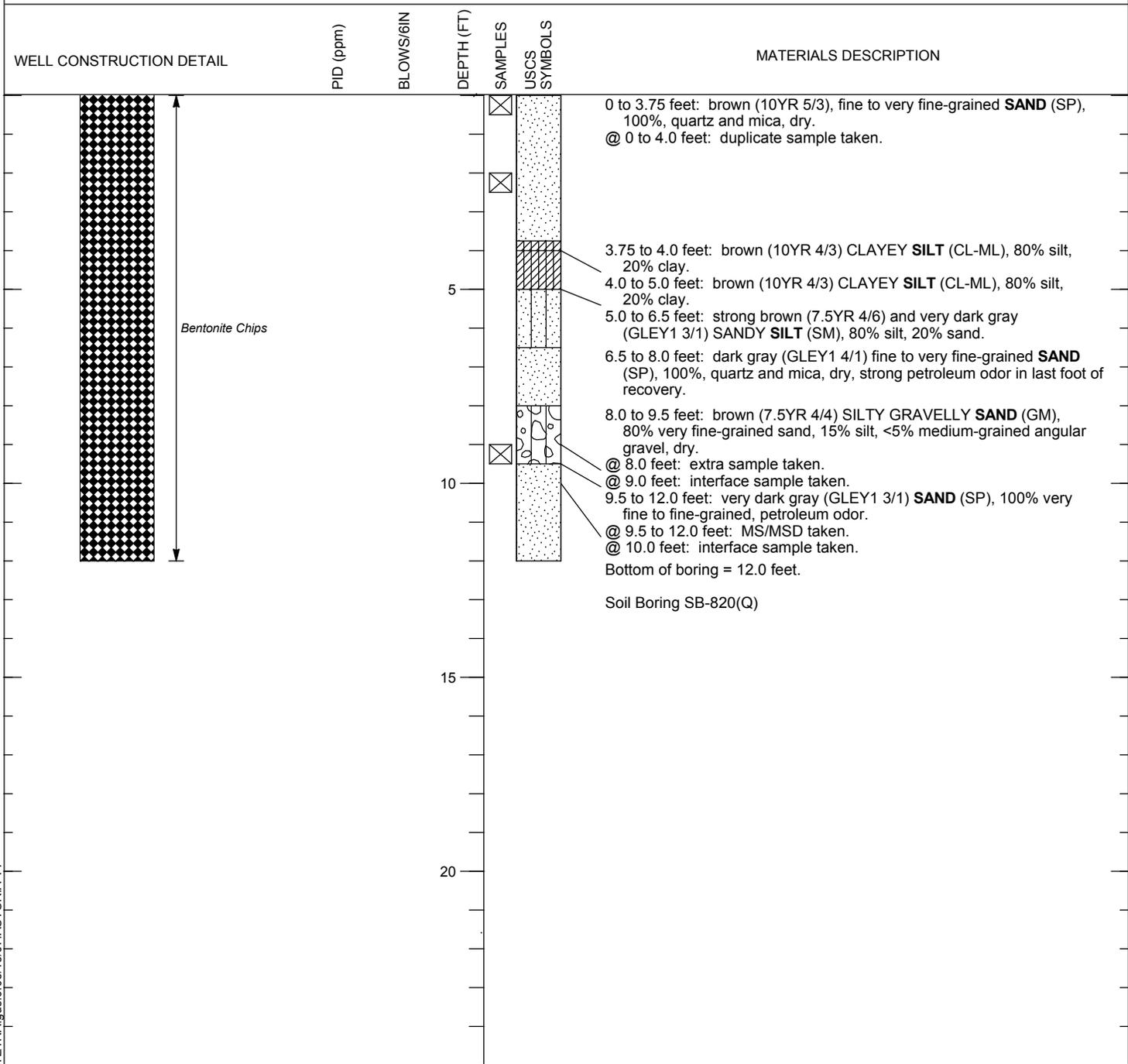


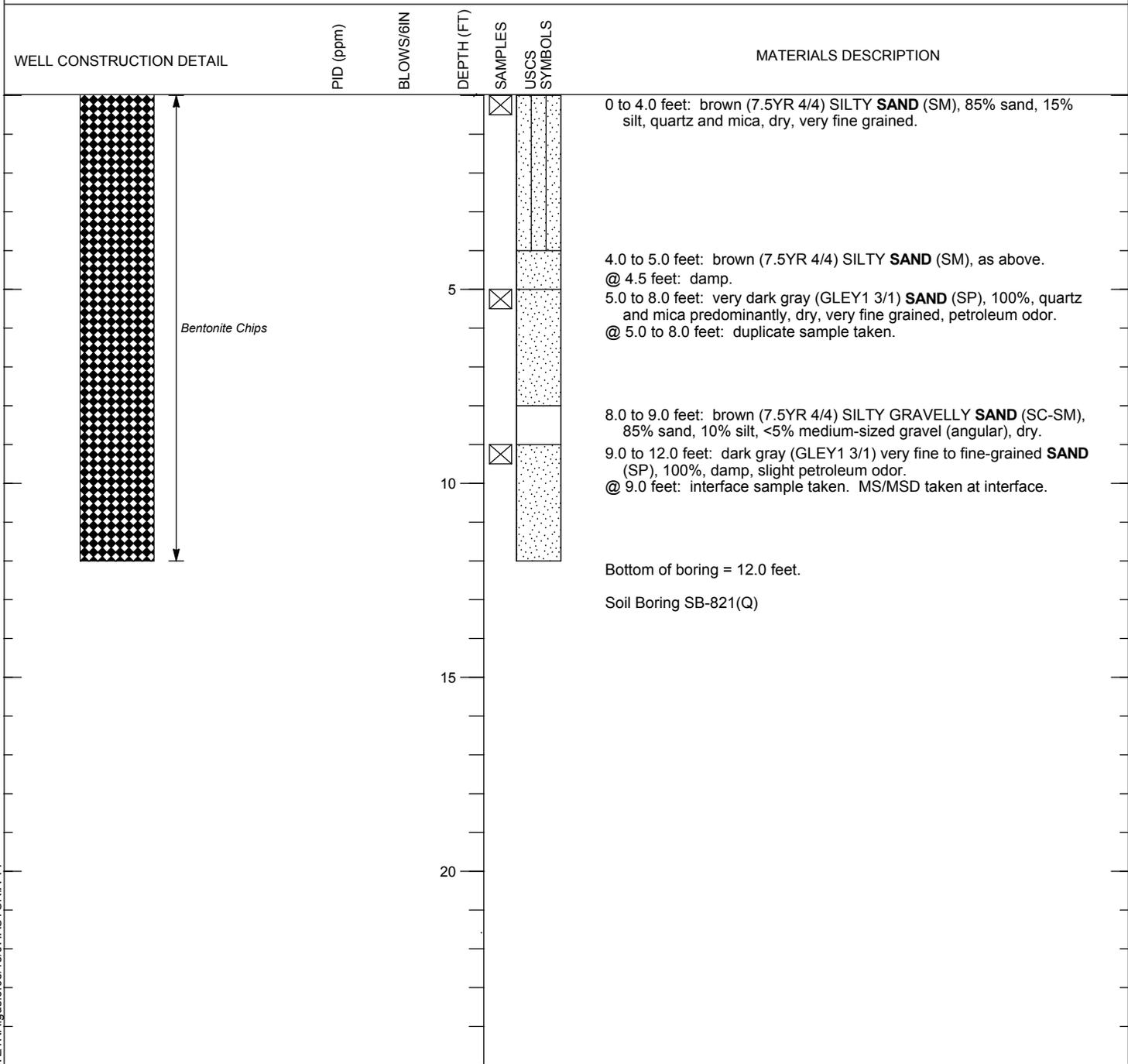
FIGURE B-176

LOG OF
 SOIL BORING SB-820 (Q)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002



TETRAgds.03/15/07.ASTORIA-TT

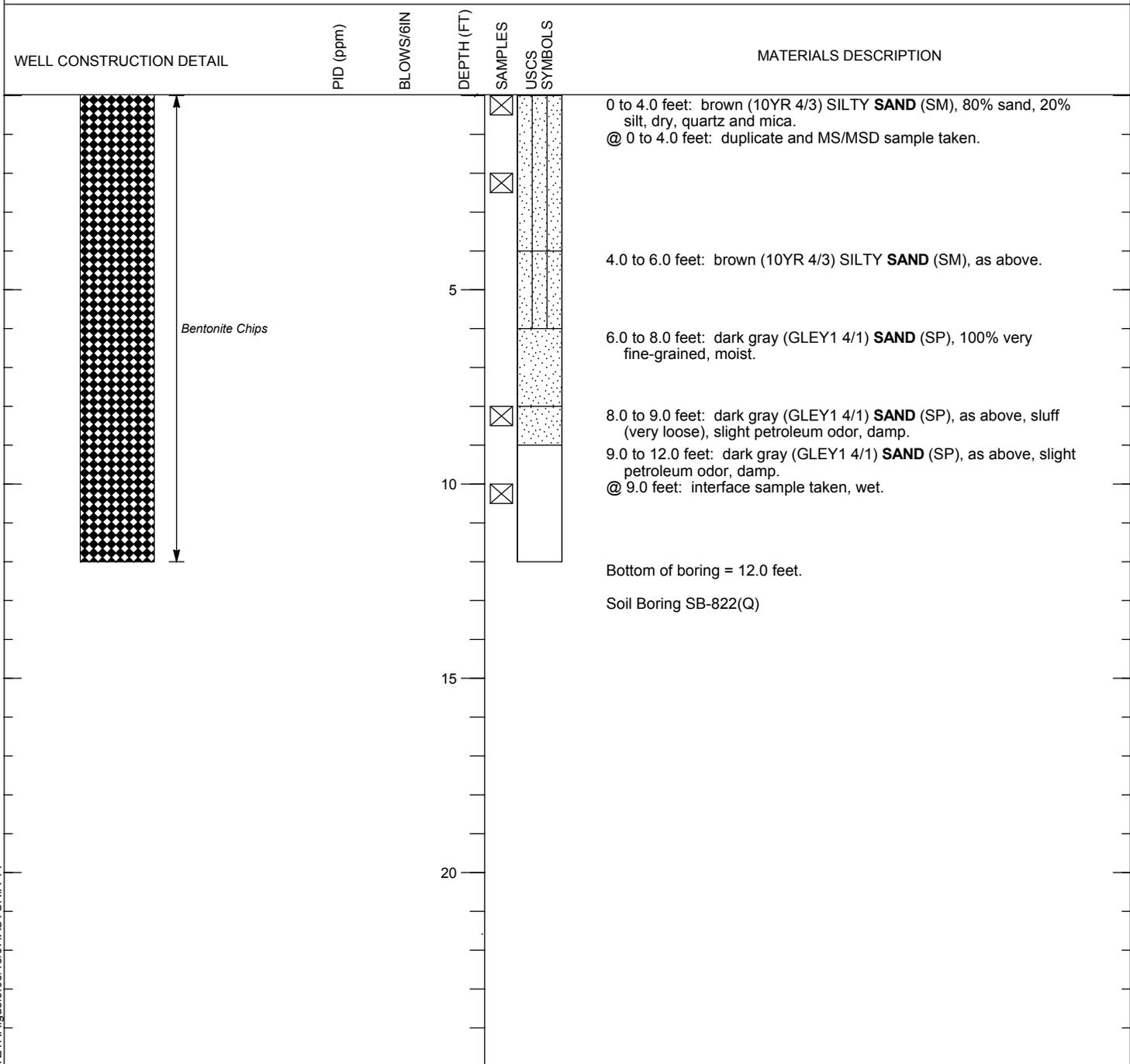
FIGURE B-177

LOG OF
SOIL BORING SB-821 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/29/2002



TETRAgds.03/15/07.ASTORIA-TT

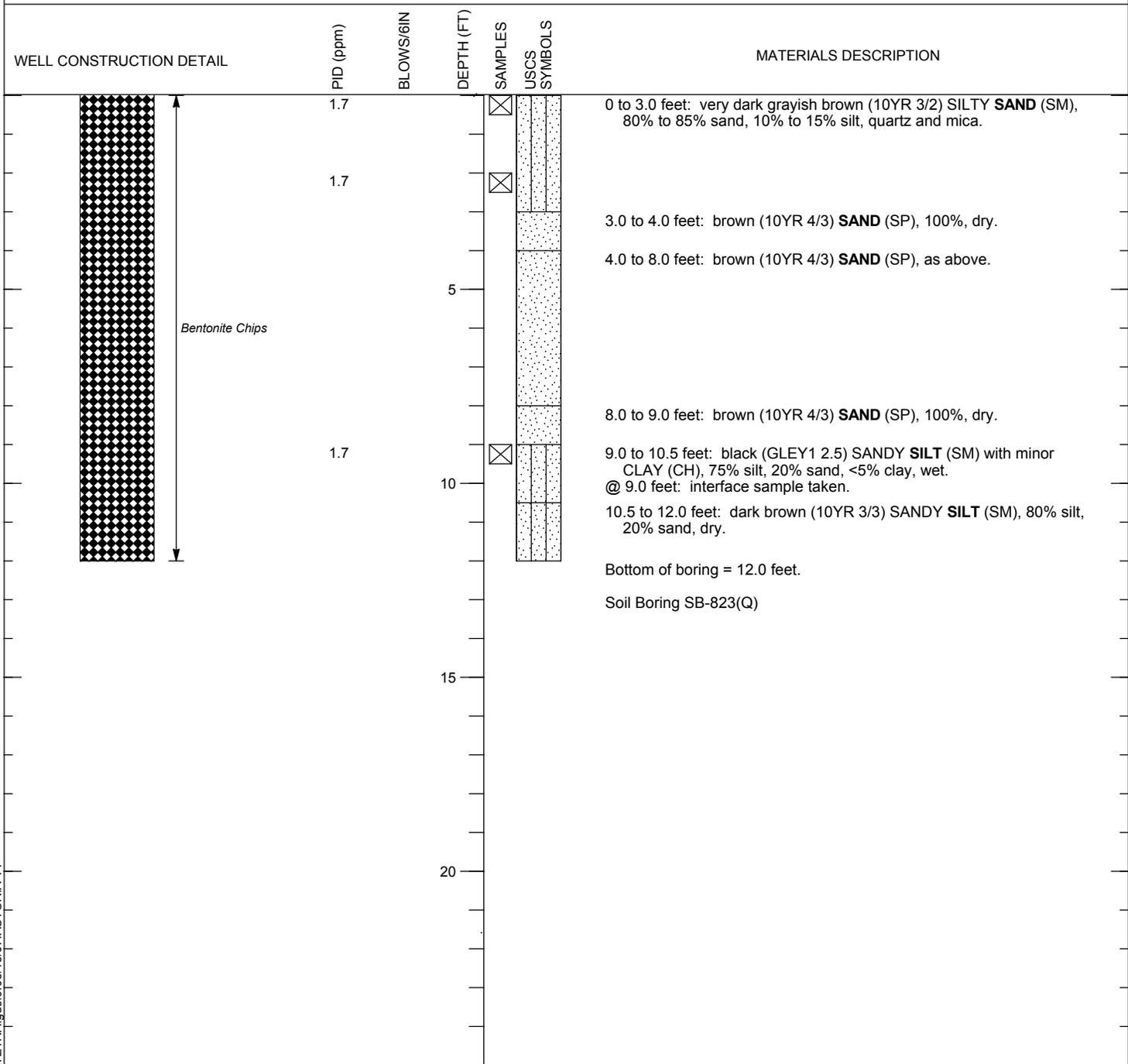
FIGURE B-178

LOG OF SOIL BORING SB-822 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002



TETRAgds.6.03/15/07.ASTORIA-TT

FIGURE B-179

LOG OF SOIL BORING SB-823 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002

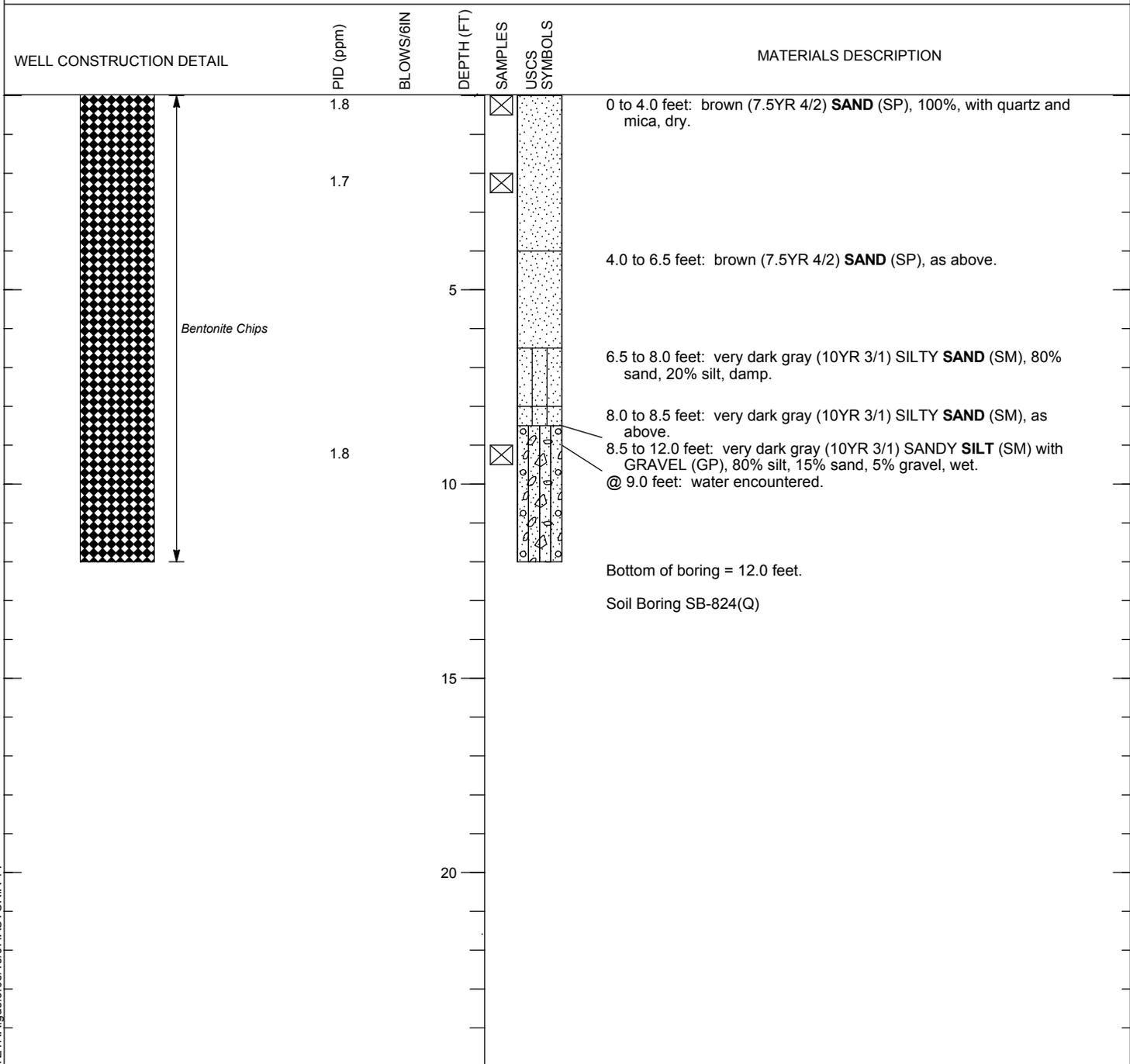


FIGURE B-180

LOG OF SOIL BORING SB-824 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002

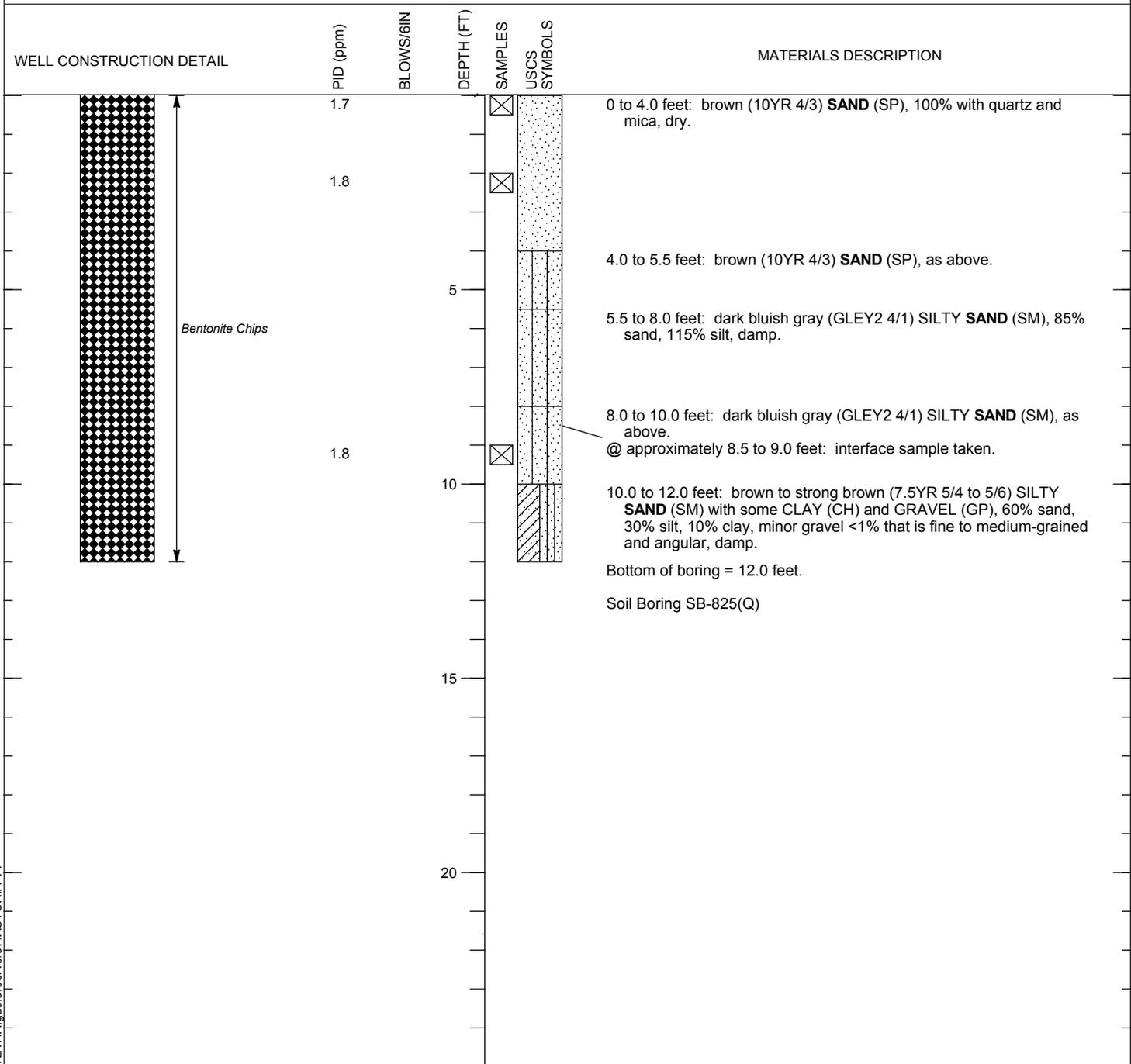


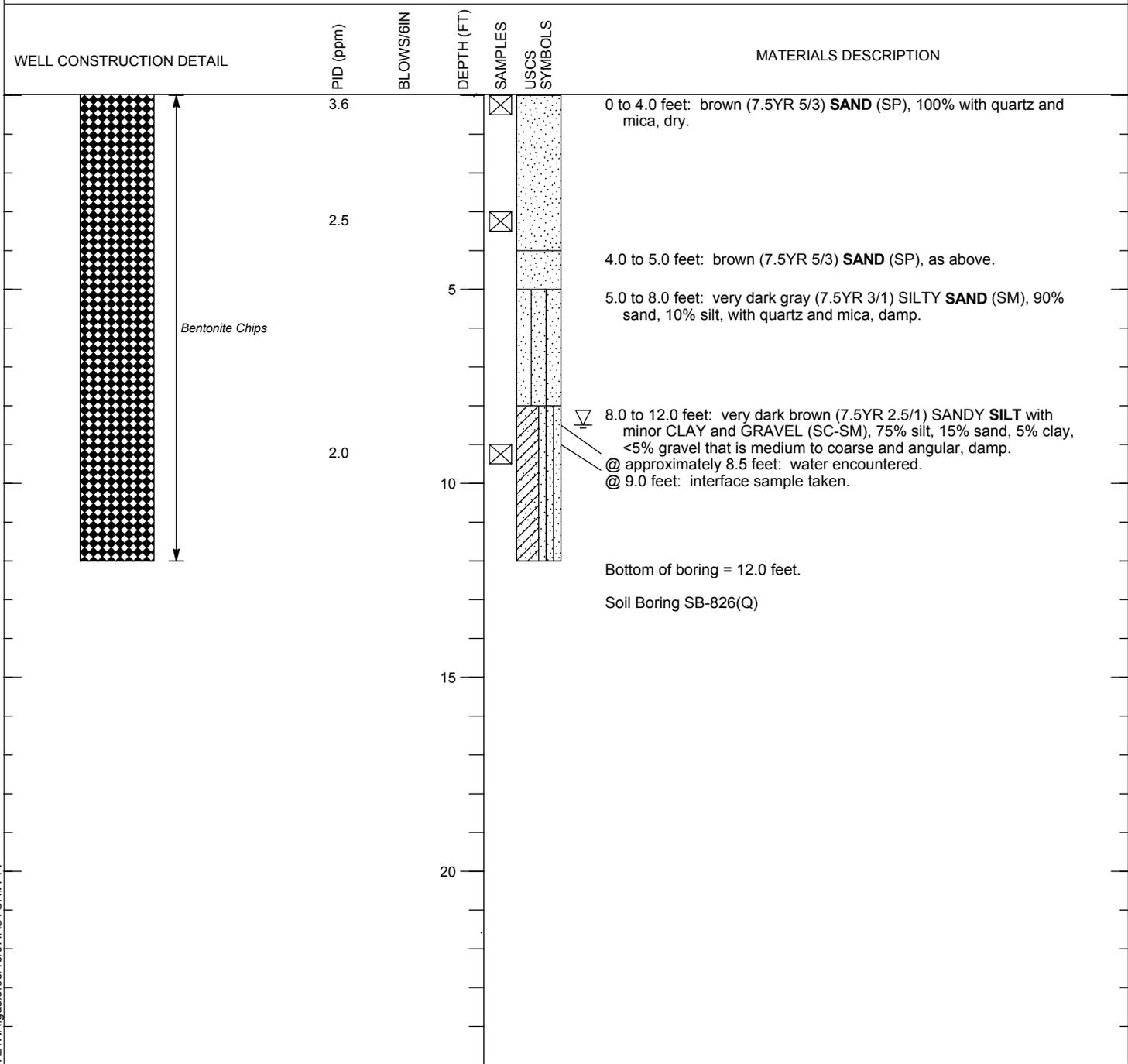
FIGURE B-181

LOG OF
SOIL BORING SB-825 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2002



TETRAgds.03/15/07.ASTORIA-TT

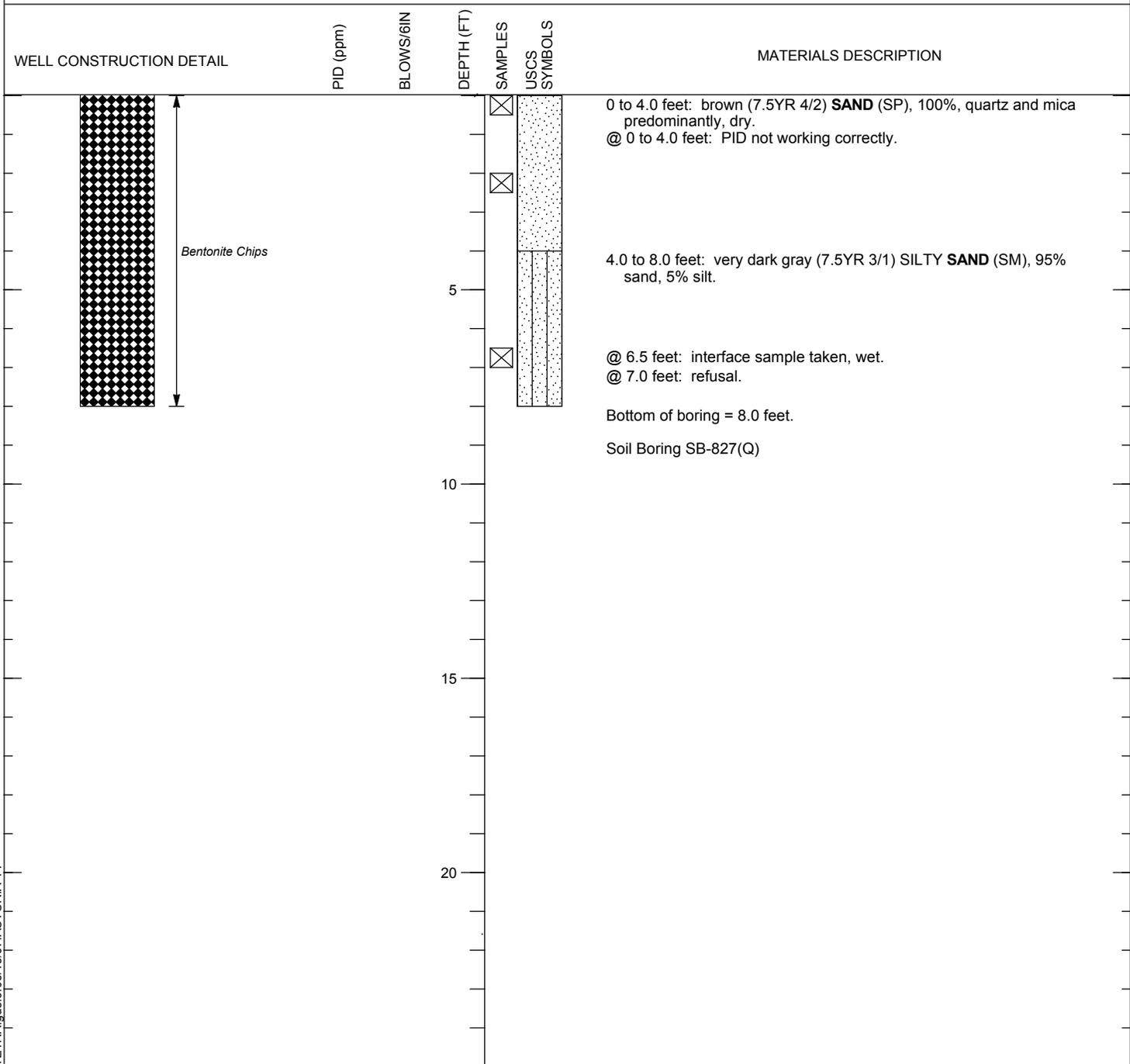
FIGURE B-182

LOG OF
SOIL BORING SB-826 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	8 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002



TETRAgds.03/15/07.ASTORIA-TT

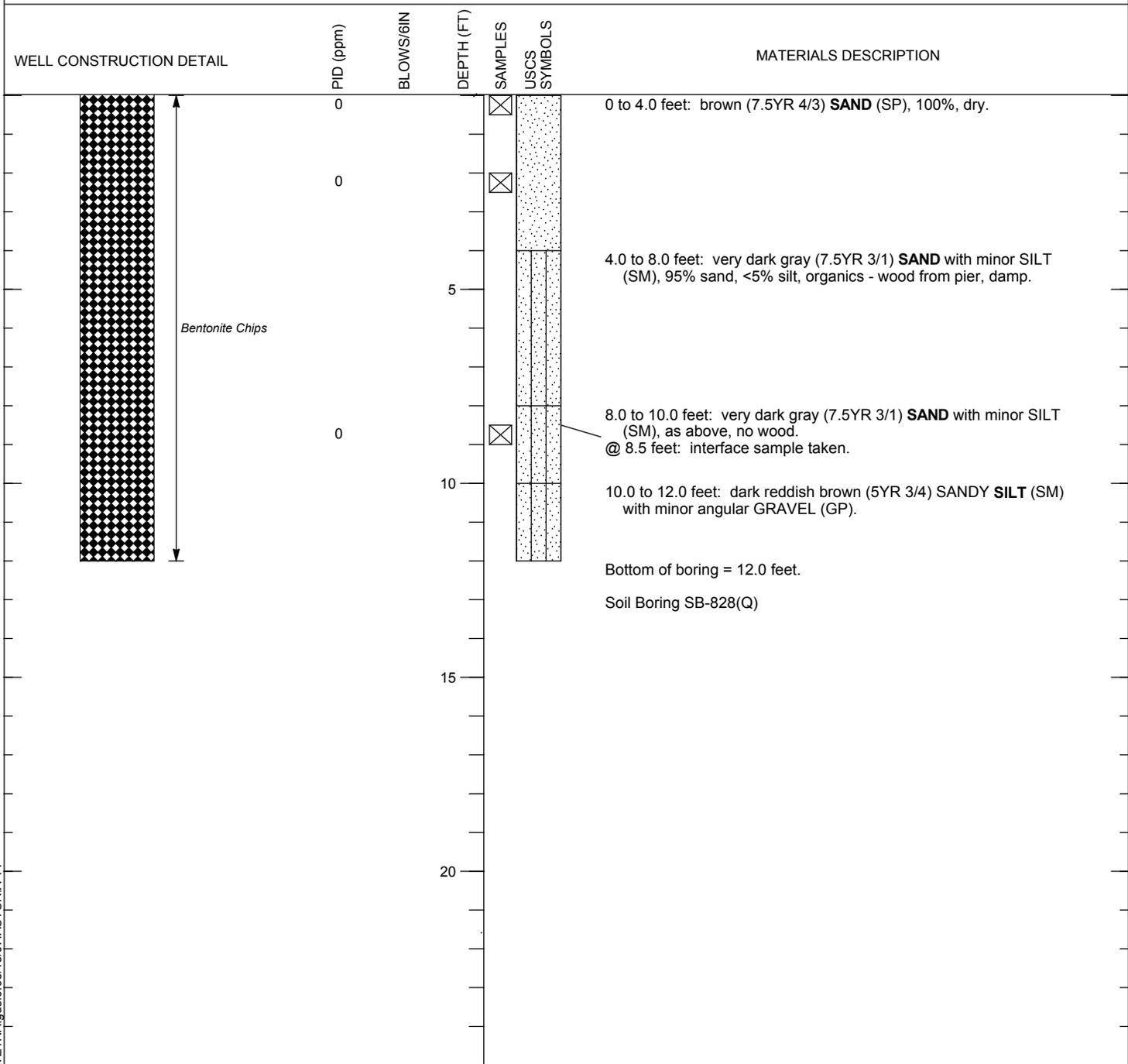
FIGURE B-183

LOG OF SOIL BORING SB-827 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002



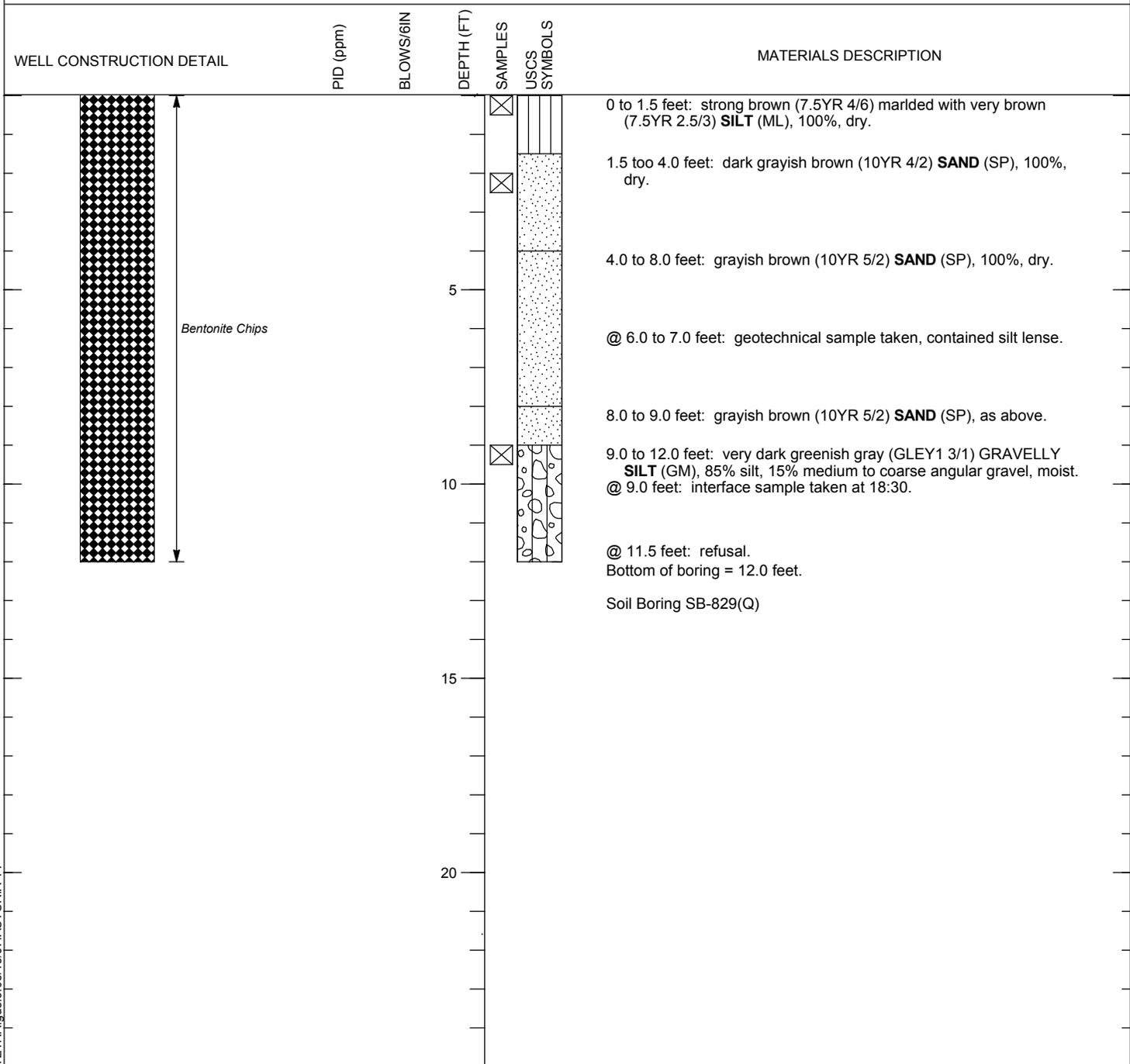
TETRAgds.03/15/07.ASTORIA-TT

FIGURE B-184
LOG OF
SOIL BORING SB-828 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	11.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002



TETRAgds.03/15/07.ASTORIA-TT

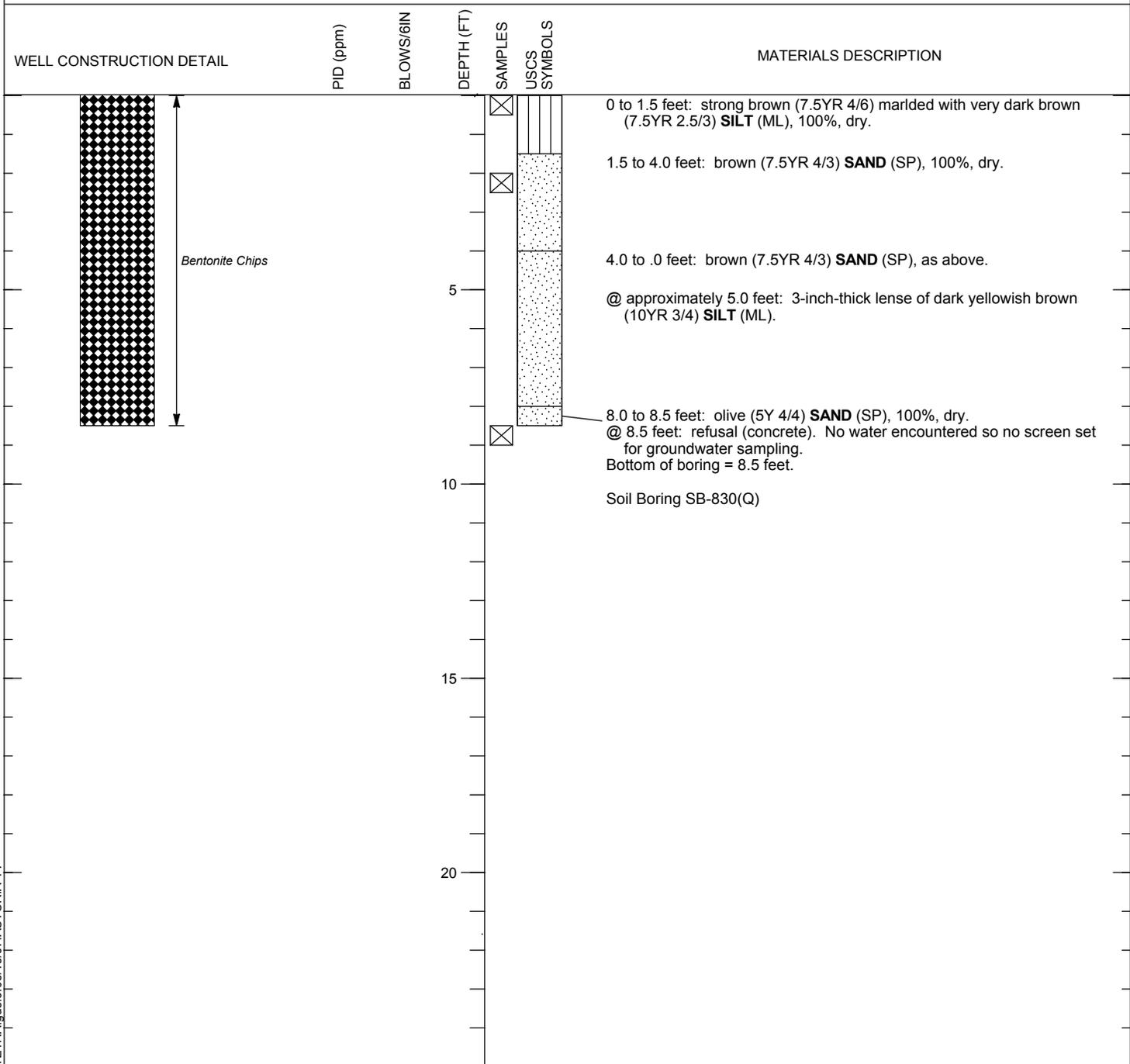
FIGURE B-185

LOG OF SOIL BORING SB-829 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	8.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002



TETRAgds.03/15/07.ASTORIA-TT

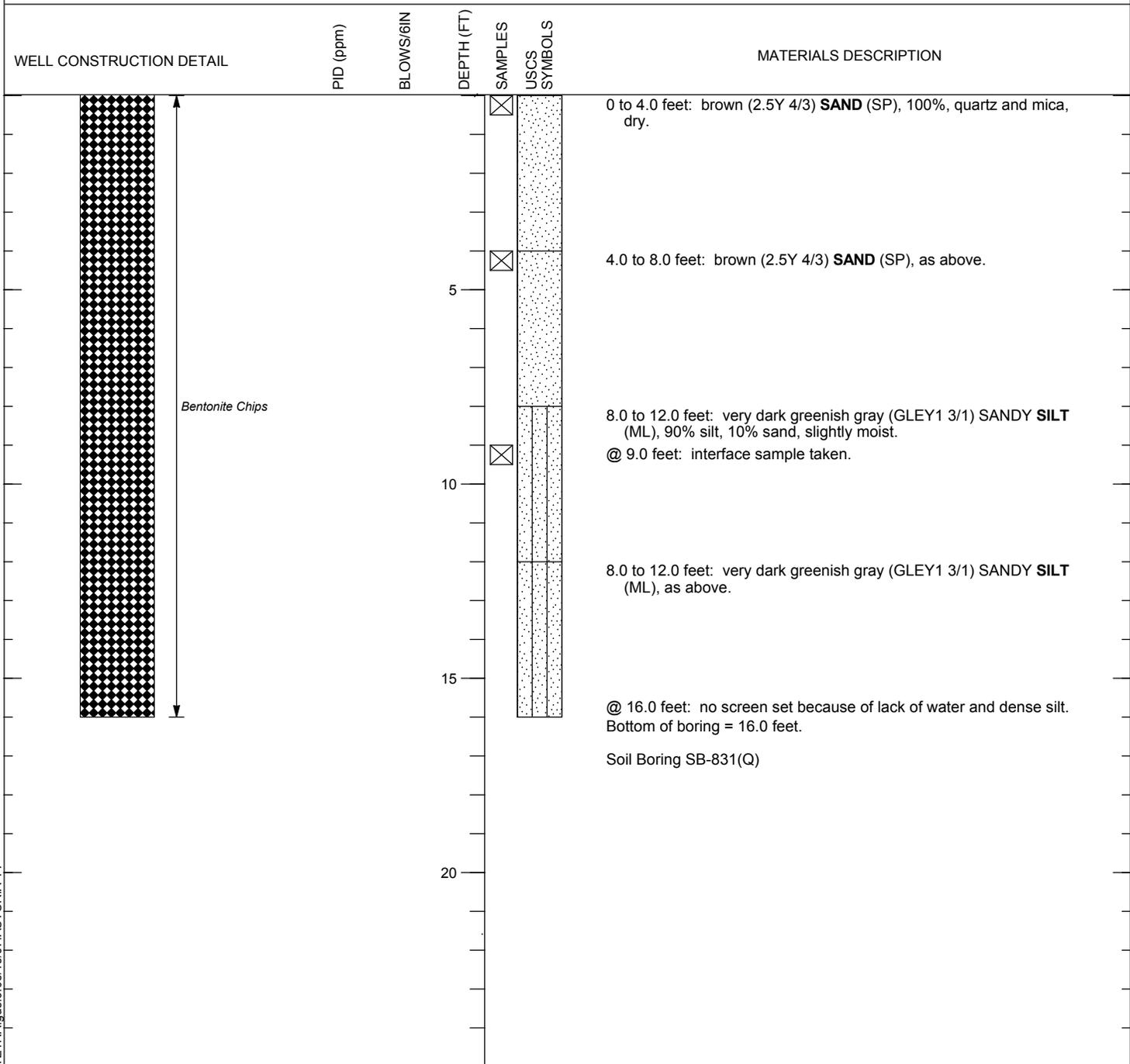
FIGURE B-186

LOG OF SOIL BORING SB-830 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002



TETRAgds.6.03/15/07.ASTORIA-TT

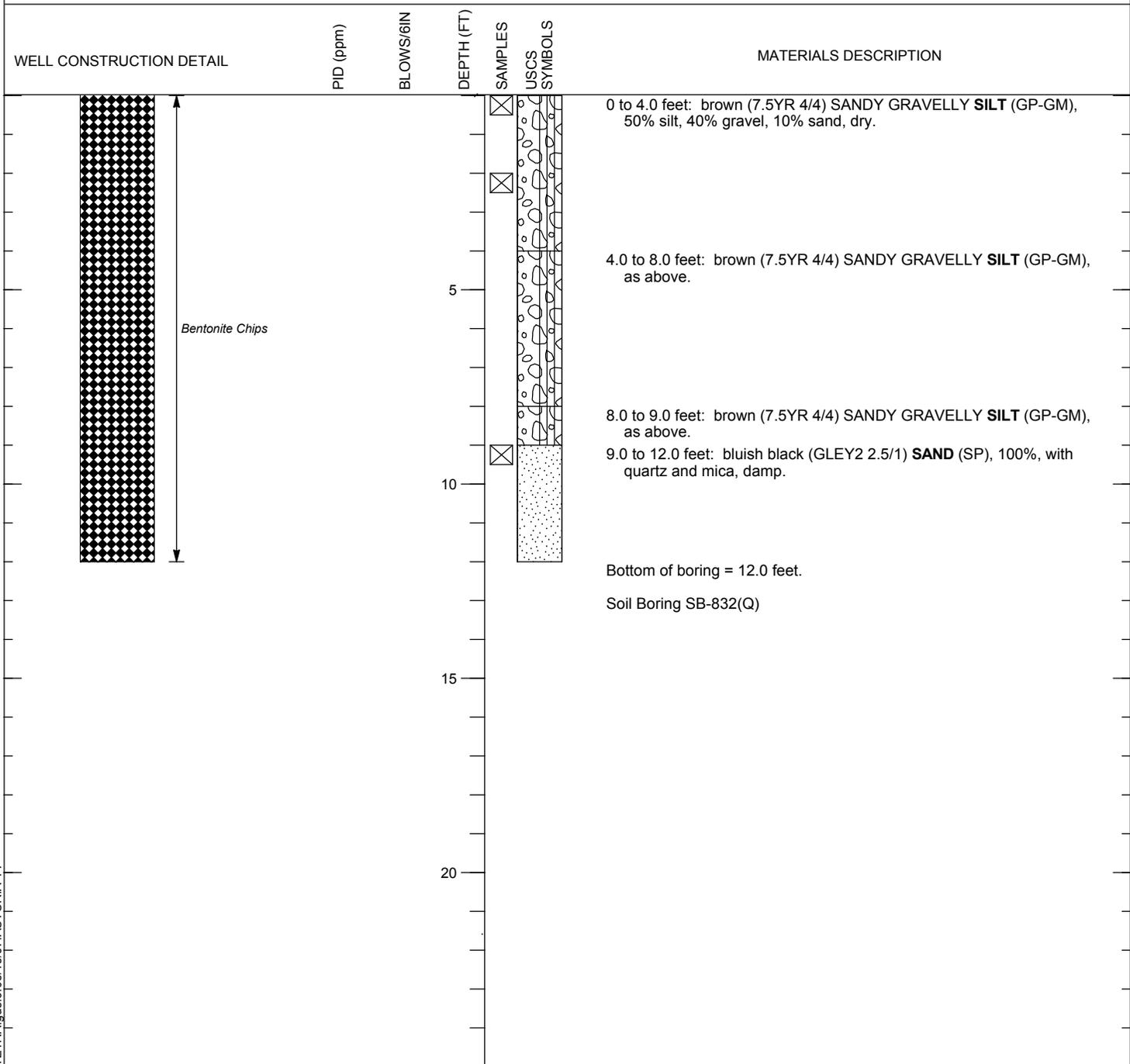
FIGURE B-187

LOG OF
SOIL BORING SB-831 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002

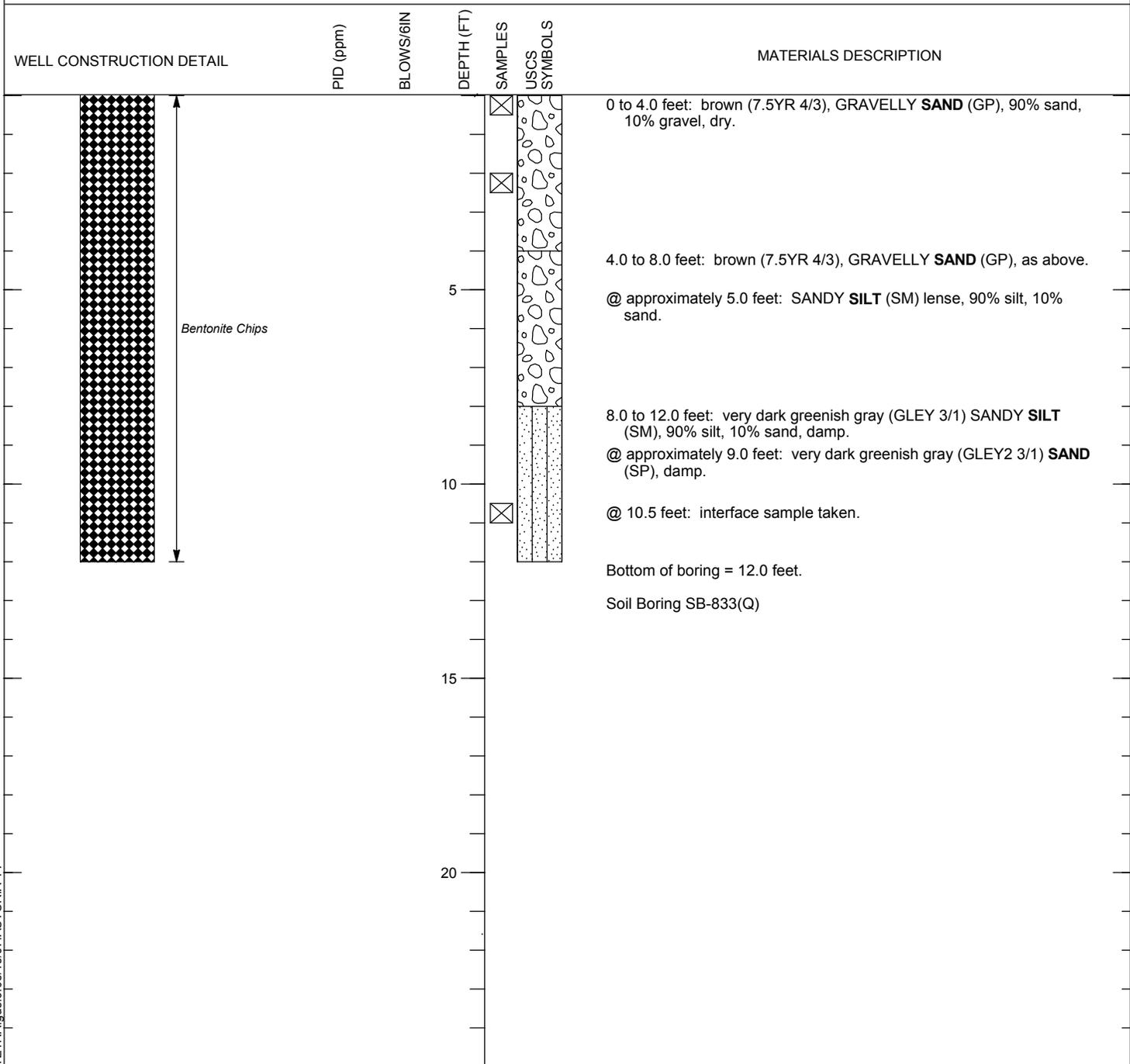


TETRAgds.03/15/07.ASTORIA-TT

FIGURE B-188
LOG OF
SOIL BORING SB-832 (Q)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY	Nicole Kapise	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2002



TETRAgds.03/15/07.ASTORIA-TT

FIGURE B-189
LOG OF
SOIL BORING SB-833 (Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 15 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 9/5/2003

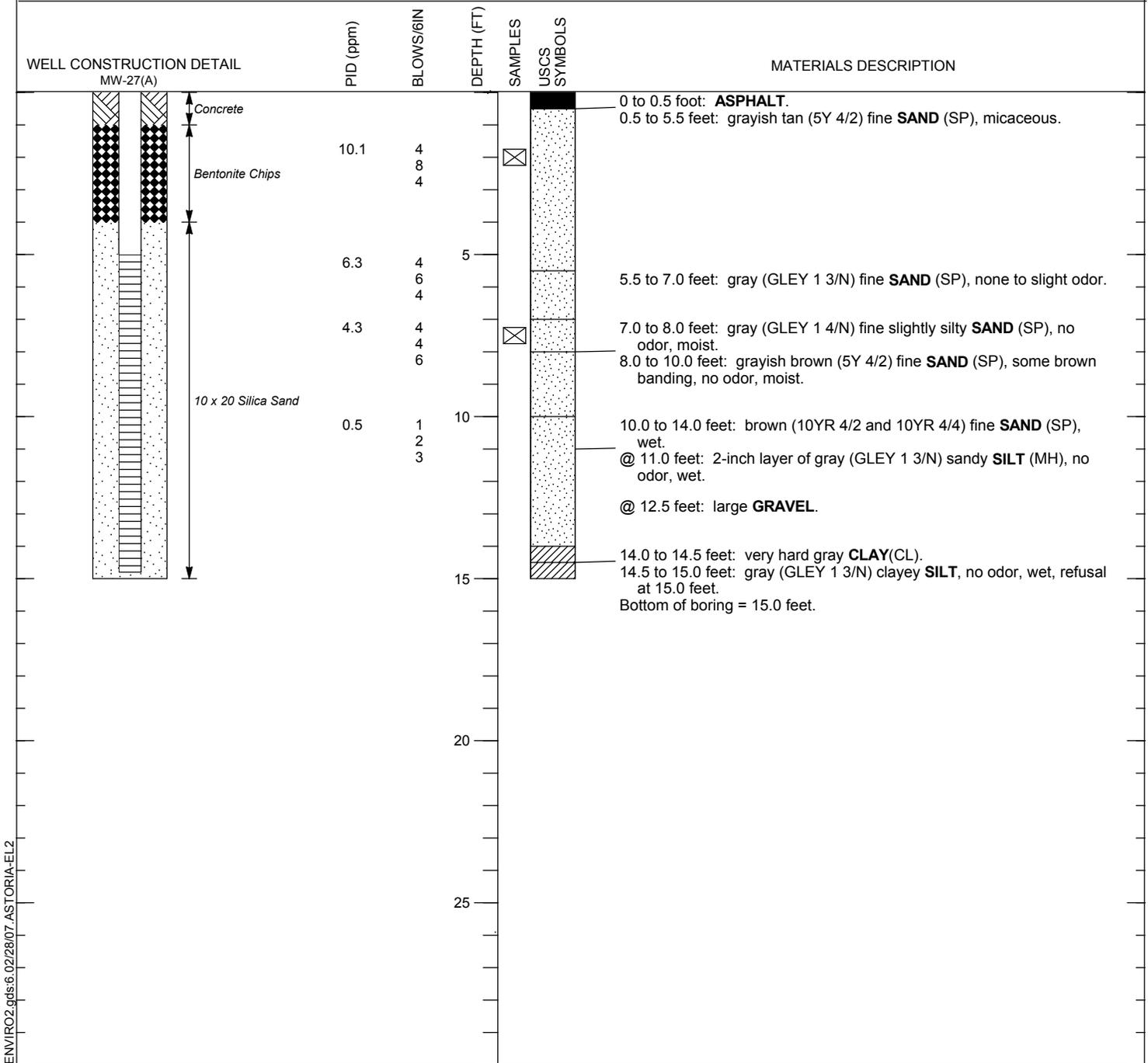


FIGURE B-190

LOG OF
 SOIL BORING SB-834(Q)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/5/2003

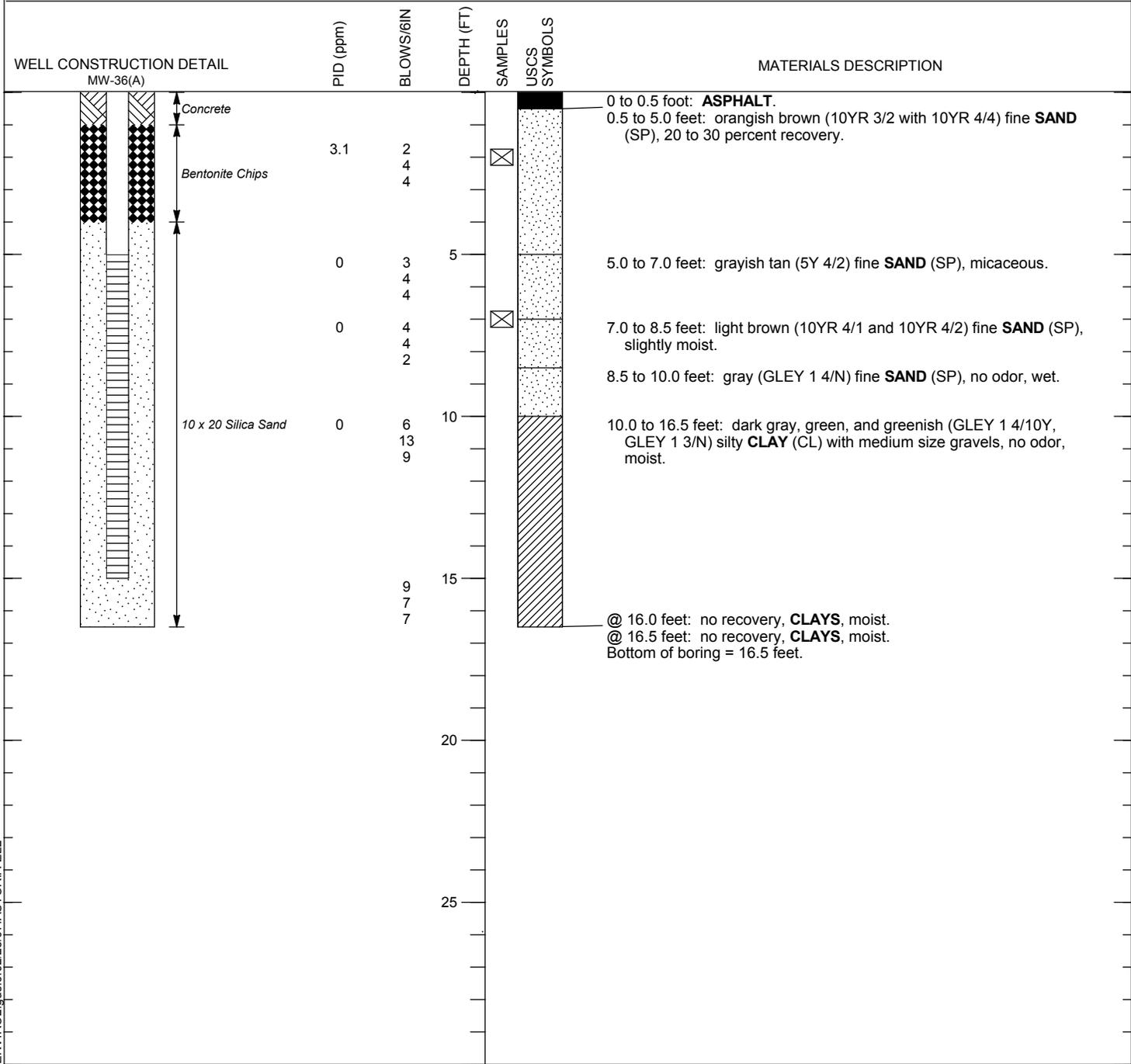


FIGURE B-191

LOG OF SOIL BORING SB-835(Q)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/26/2002

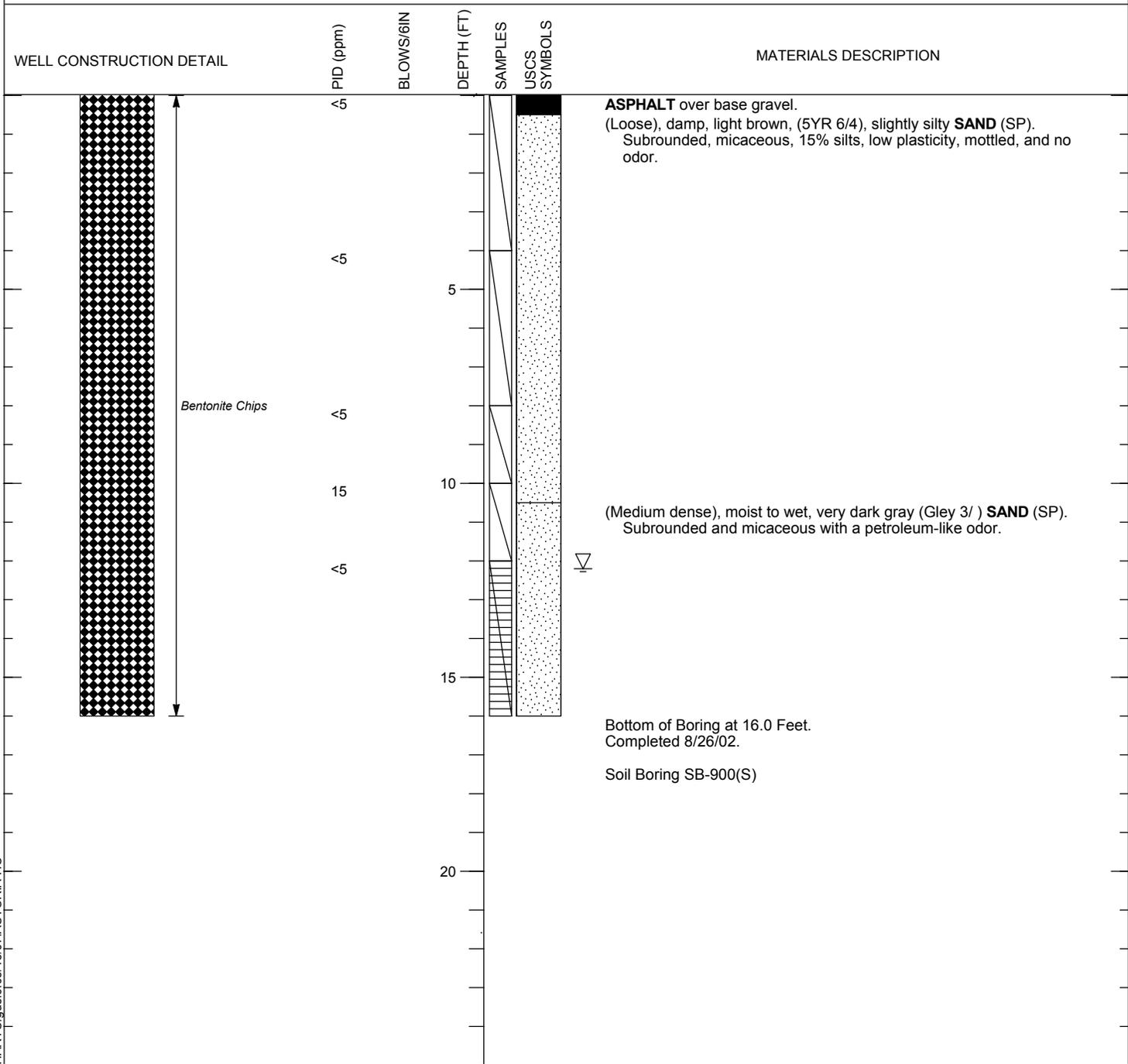


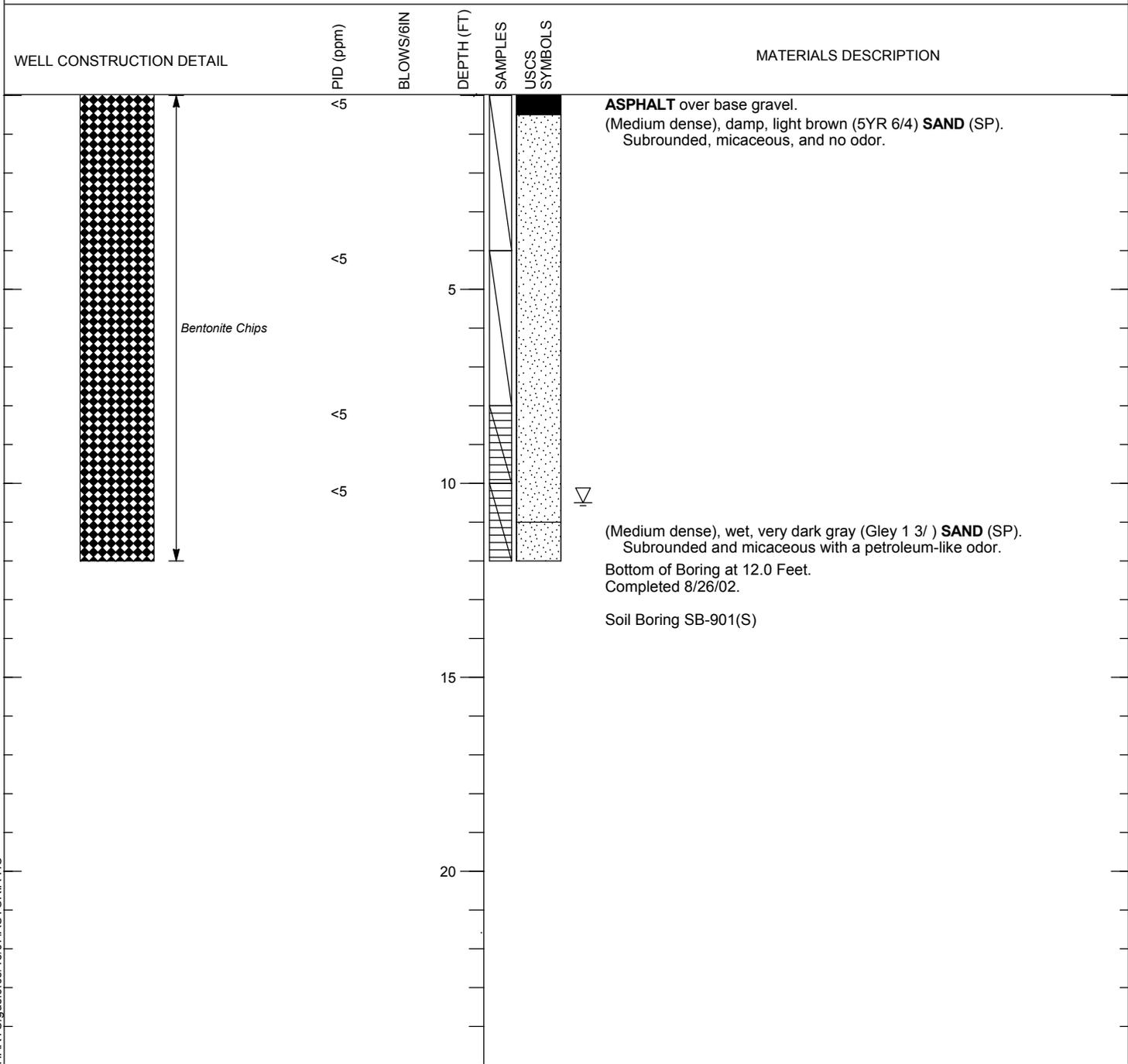
FIGURE B-192

LOG OF
SOIL BORING SB-900 (S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/26/2002



HARTC.gds\6.03\15\07.ASTORIA-HC

FIGURE B-193

LOG OF SOIL BORING SB-901 (S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/26/2002

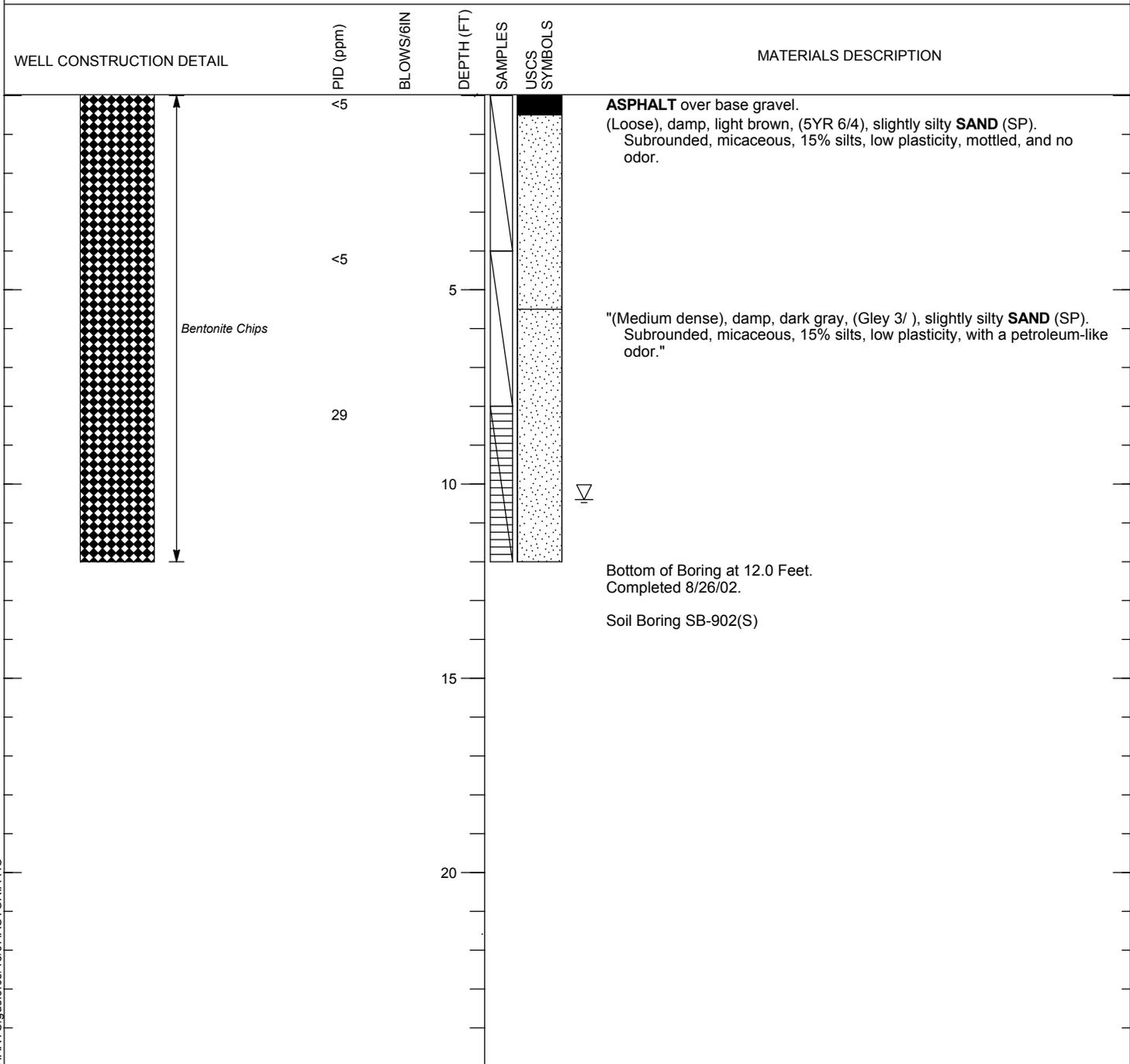


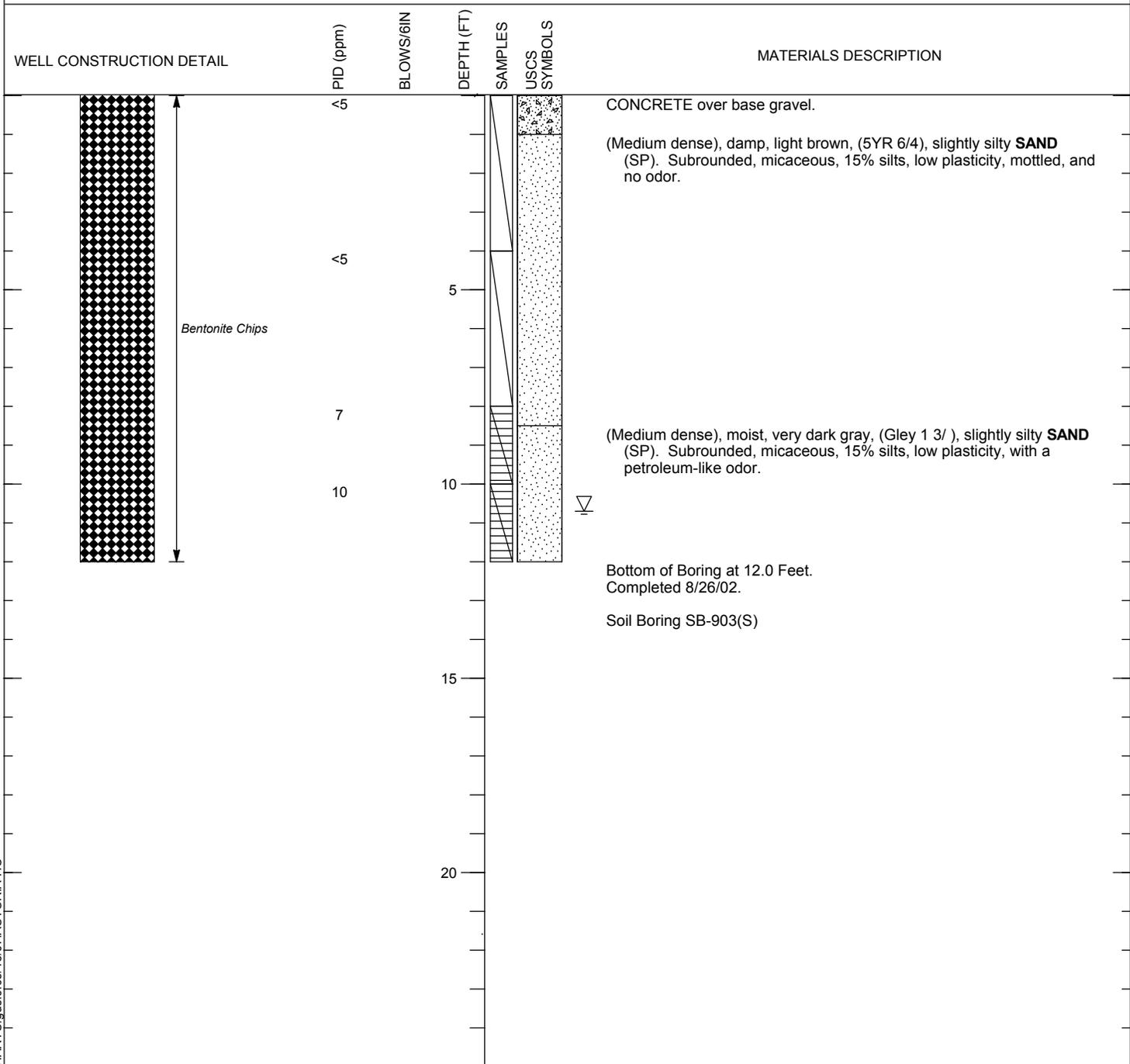
FIGURE B-194

LOG OF
 SOIL BORING SB-902 (S)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/26/2002



HARTC.gds\6.03\15\07.ASTORIA-HC

FIGURE B-195

**LOG OF
SOIL BORING SB-903 (S)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/26/2002

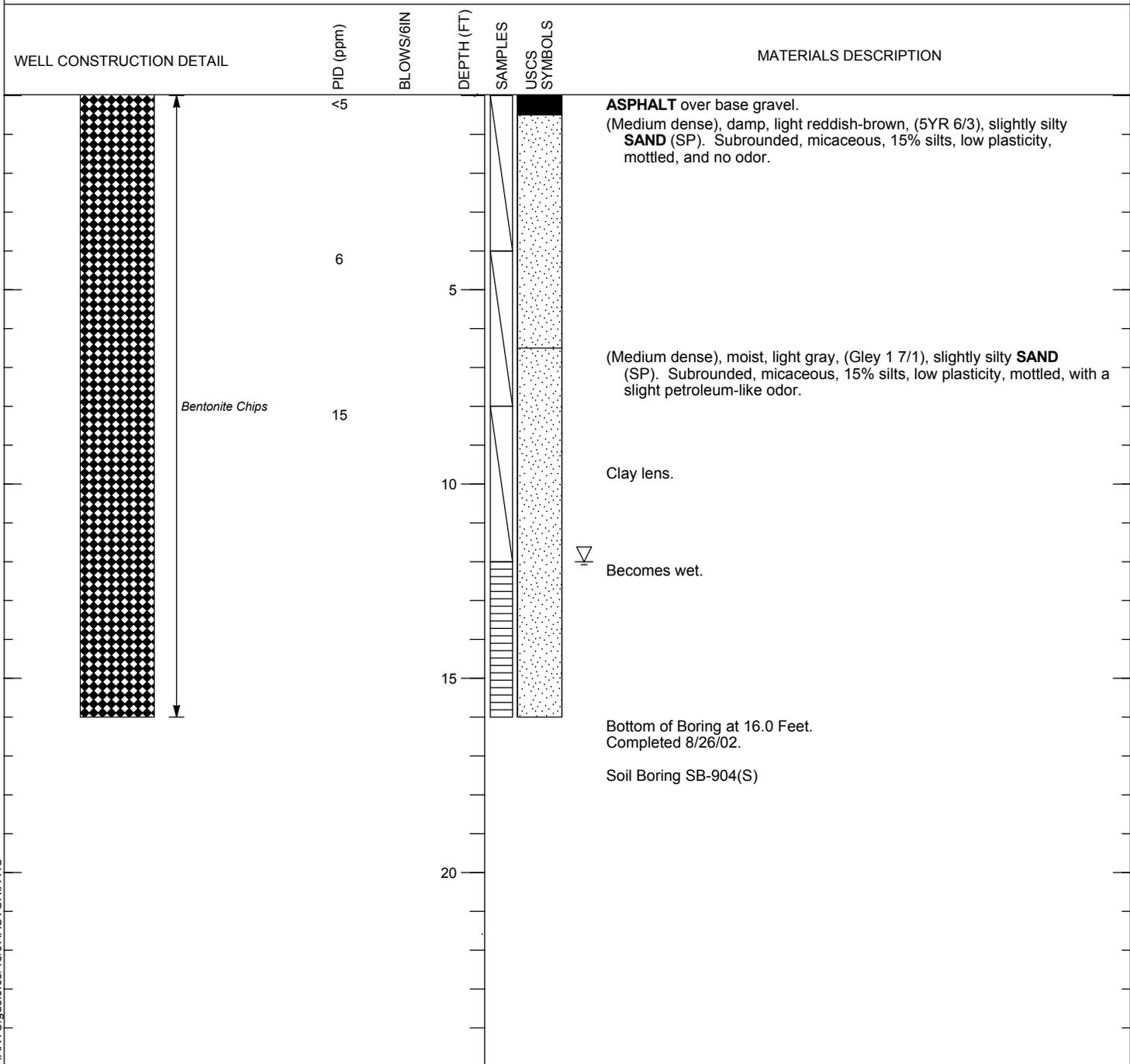


FIGURE B-196

LOG OF
SOIL BORING SB-904 (S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/26/2002

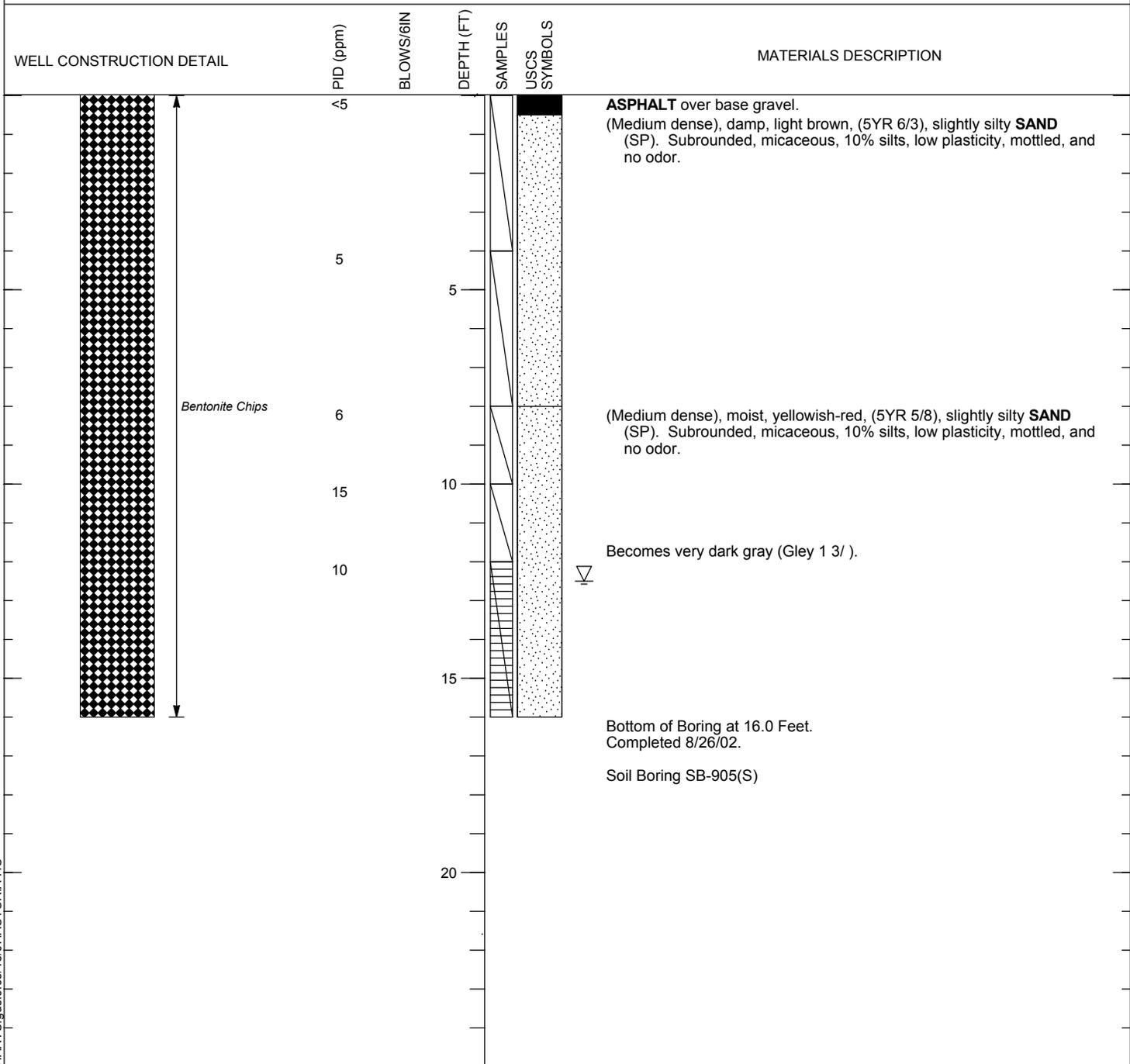


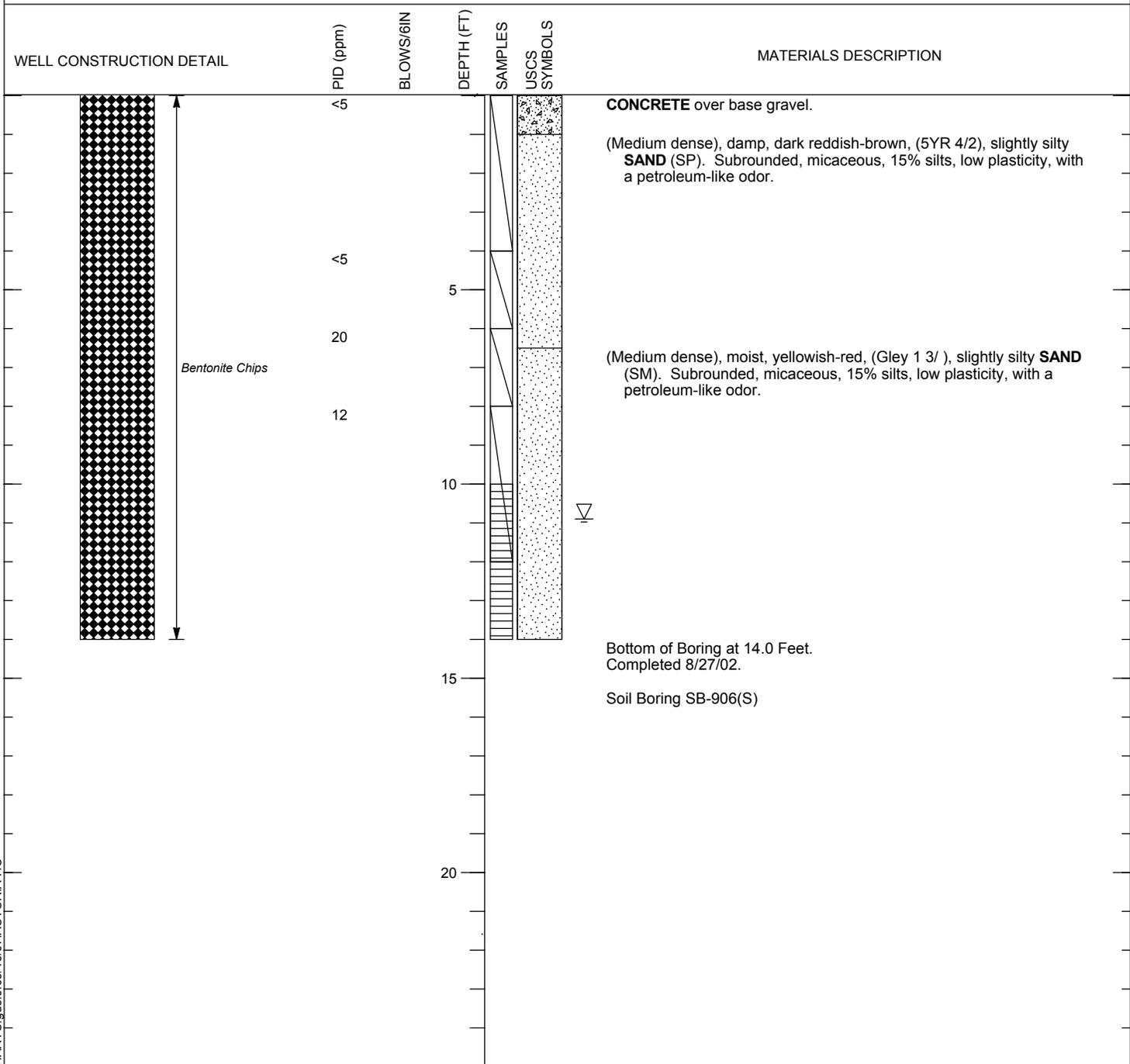
FIGURE B-197

LOG OF
SOIL BORING SB-905 (S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	14 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/27/2002



HARTC.gds6.03/15/07.ASTORIA-HC

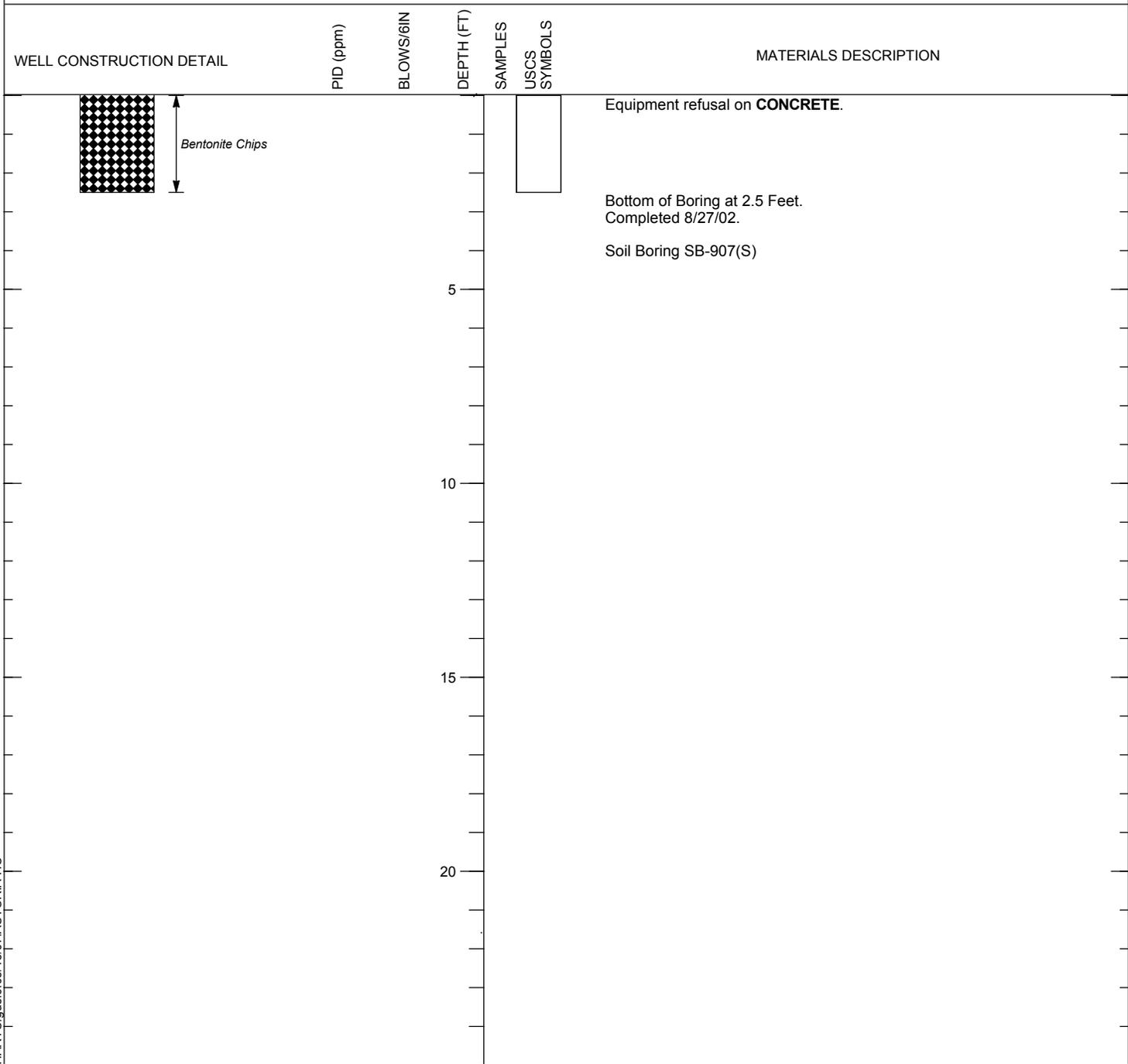
FIGURE B-198

LOG OF SOIL BORING SB-906 (S)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	2.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/27/2002



HARTC.gds\6.03\15\07.ASTORIA-HC

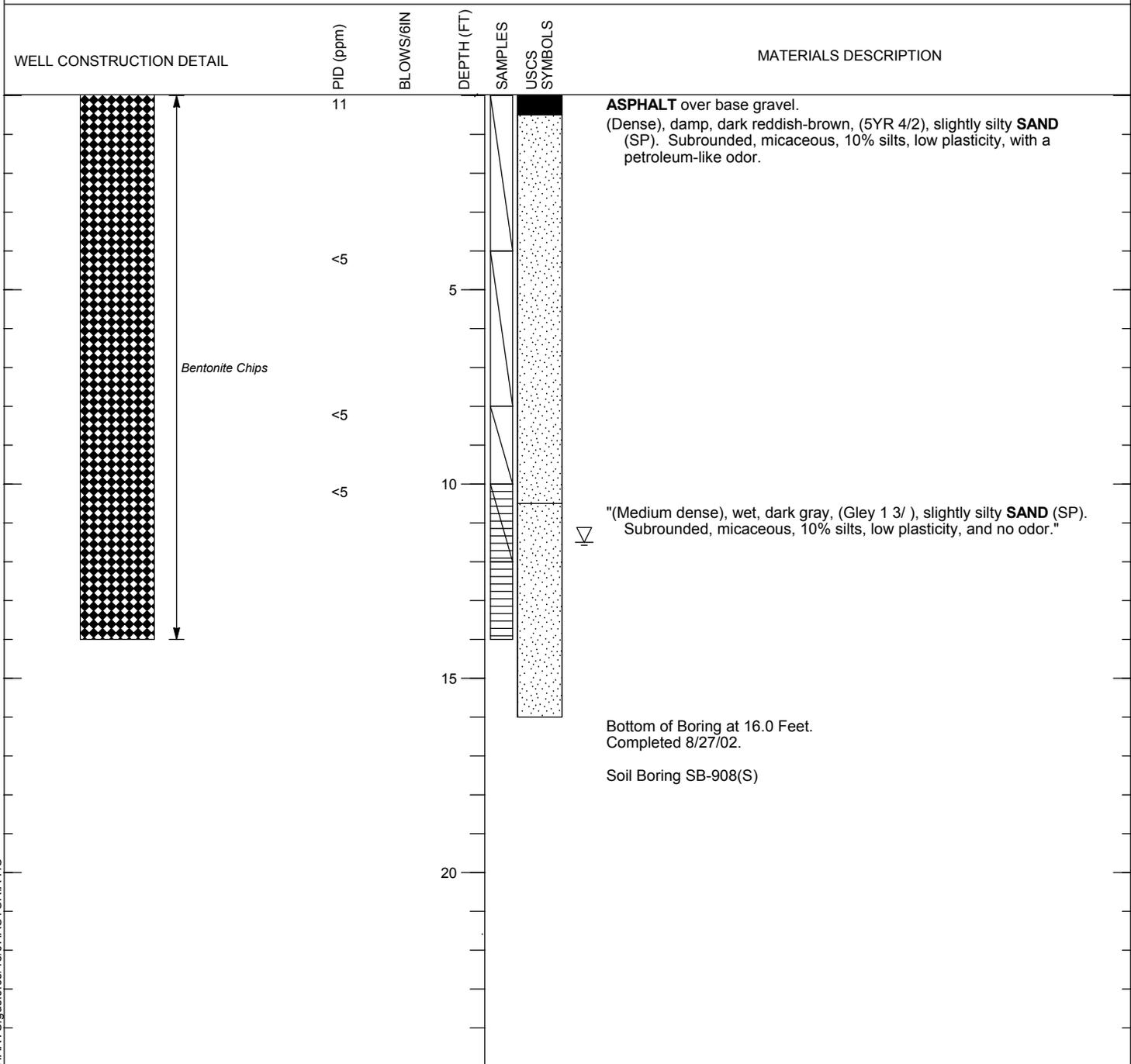
FIGURE B-199

**LOG OF
SOIL BORING SB-907 (S)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	14 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/27/2002



HARTC.gds\6.03\15\07.ASTORIA-HC

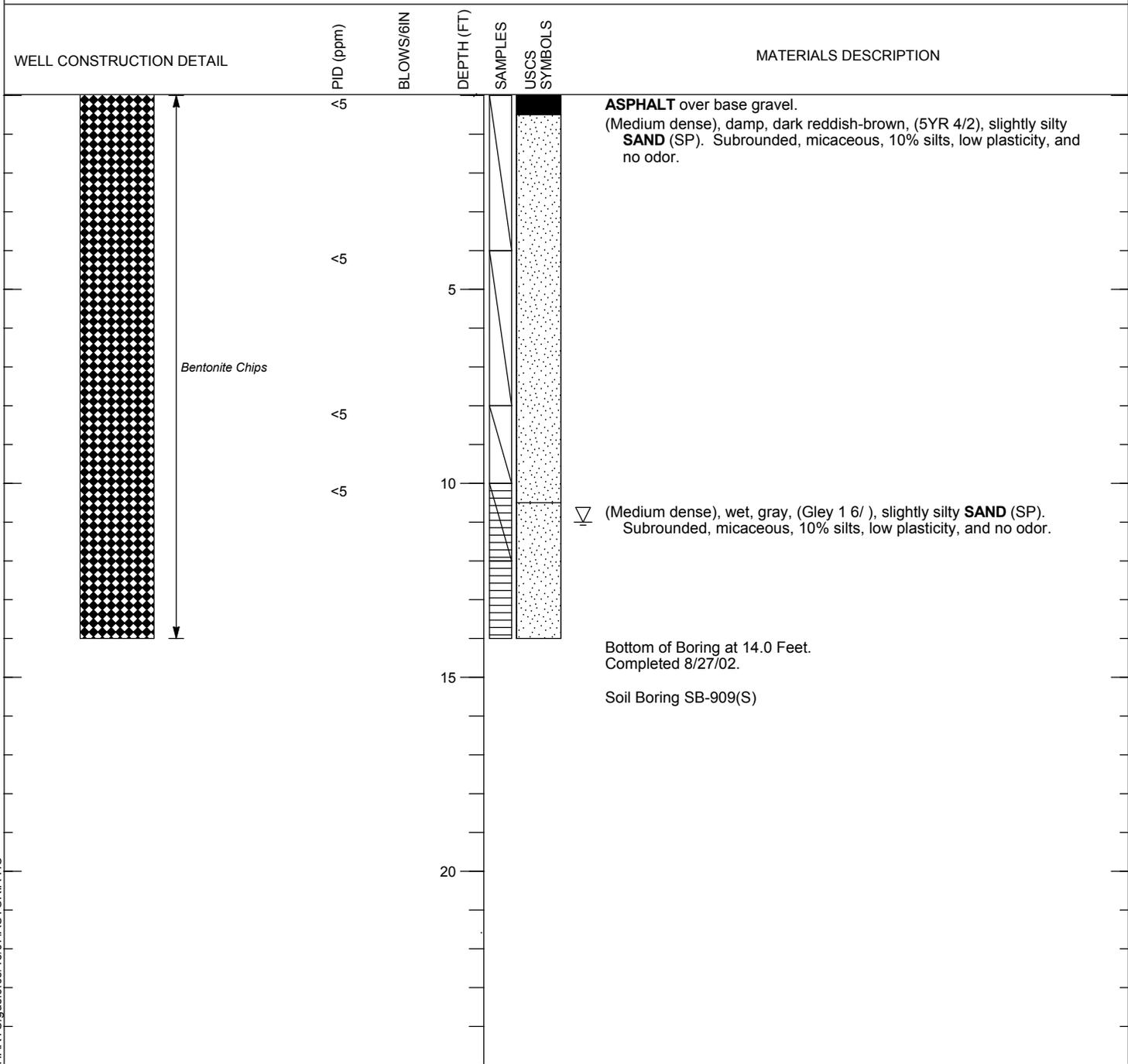
FIGURE B-200

LOG OF SOIL BORING SB-908 (S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	14 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/27/2002



HARTC.gds6.03/15/07.ASTORIA-HC

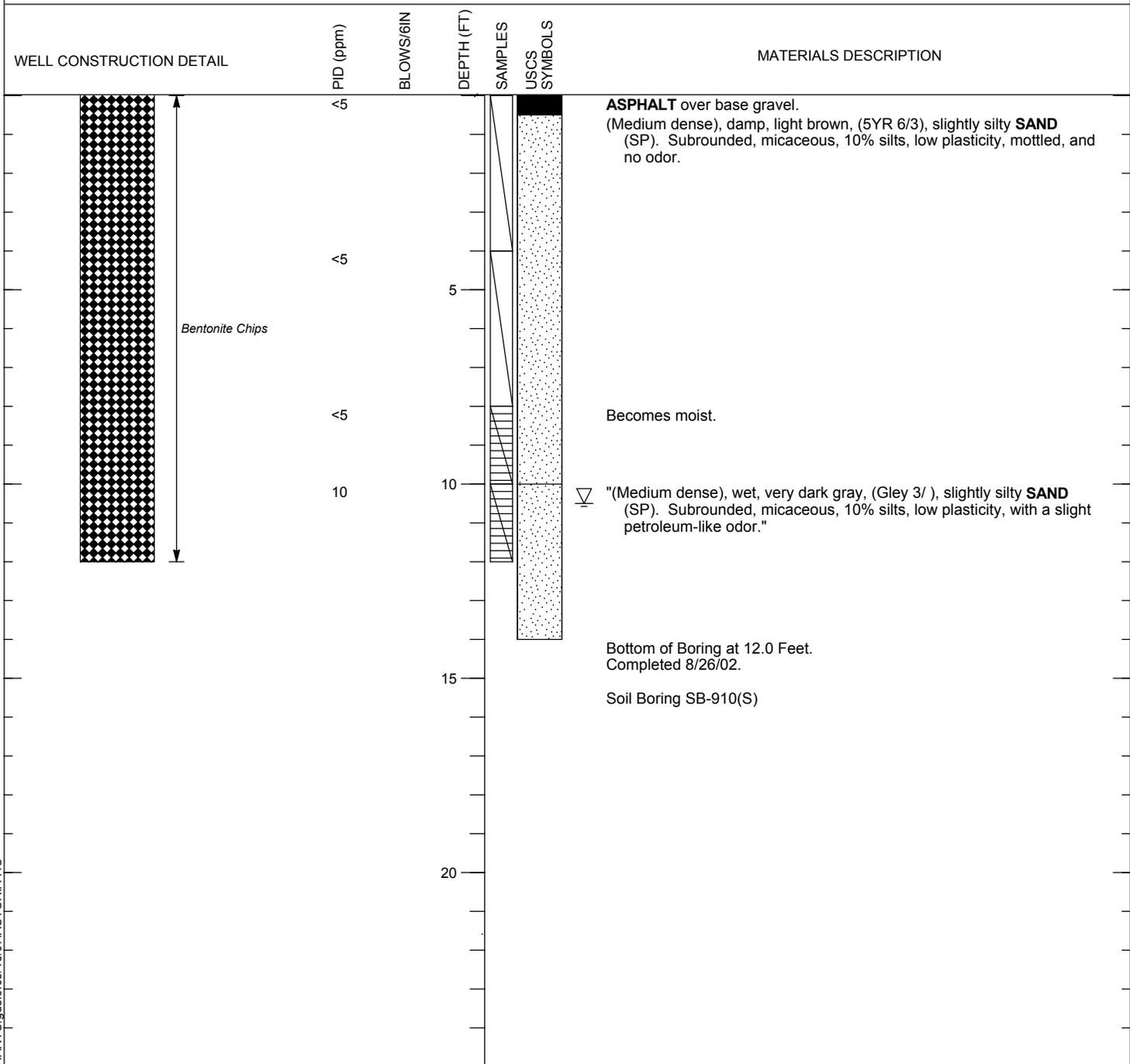
FIGURE B-201

**LOG OF
SOIL BORING SB-909 (S)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	12 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/27/2002



HARTC.gds\6.03\15\07.ASTORIA-HC

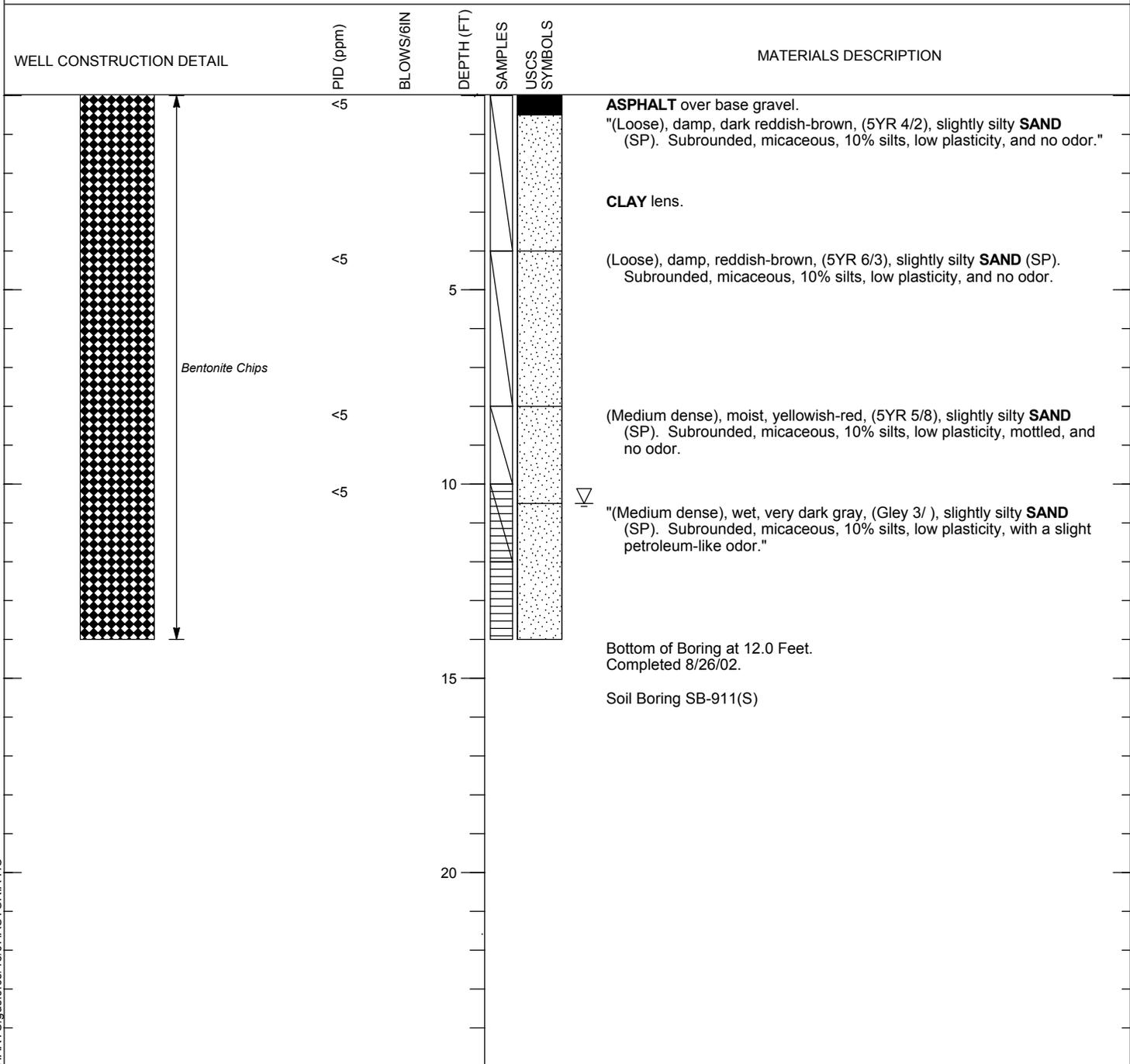
FIGURE B-202

LOG OF
SOIL BORING SB-910 (S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	14 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER		REFERENCE POINT ELEVATION	
LOGGED BY		REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY		DATE STARTED	8/27/2002



HARTC.gds6.03/15/07.ASTORIA-HC

FIGURE B-203

**LOG OF
SOIL BORING SB-911 (S)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/3/2003

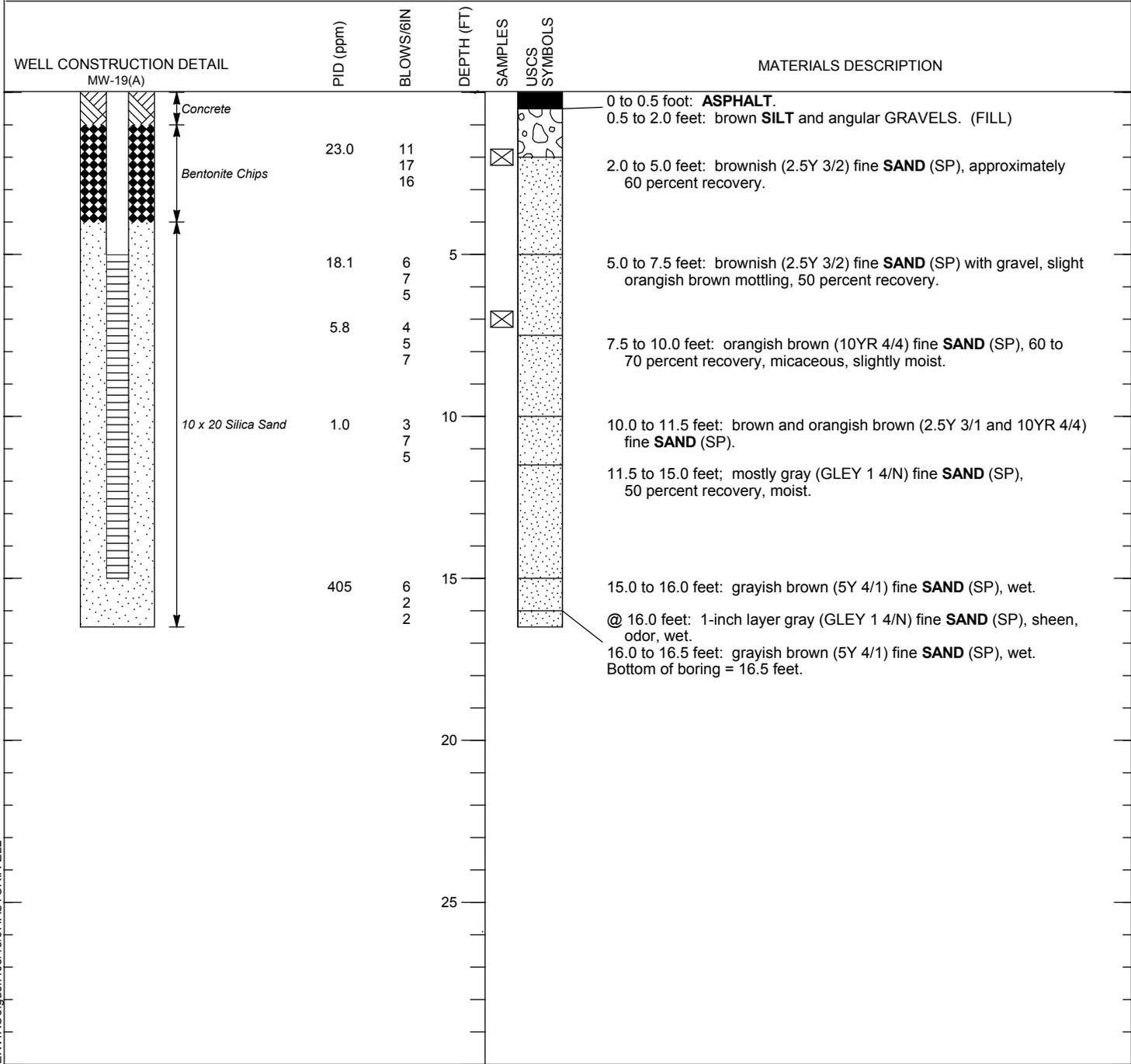


FIGURE B-204

LOG OF
SB-912(S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/3/2003

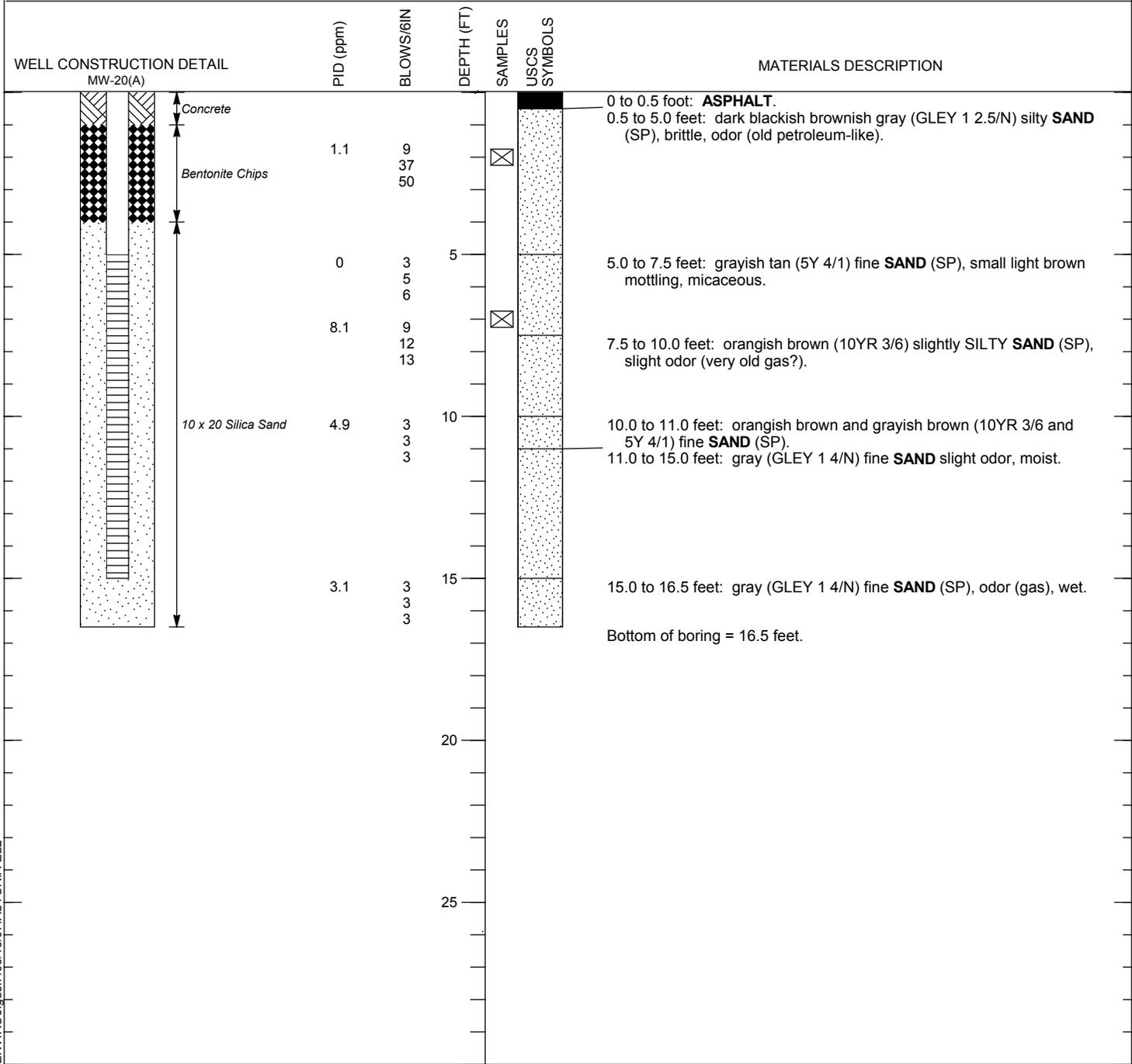


FIGURE B-205

LOG OF
SB-913(S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



ENVIRO3.gds:7.03/15/07.ASTORIA-EL2

PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16.5 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 9/3/2003

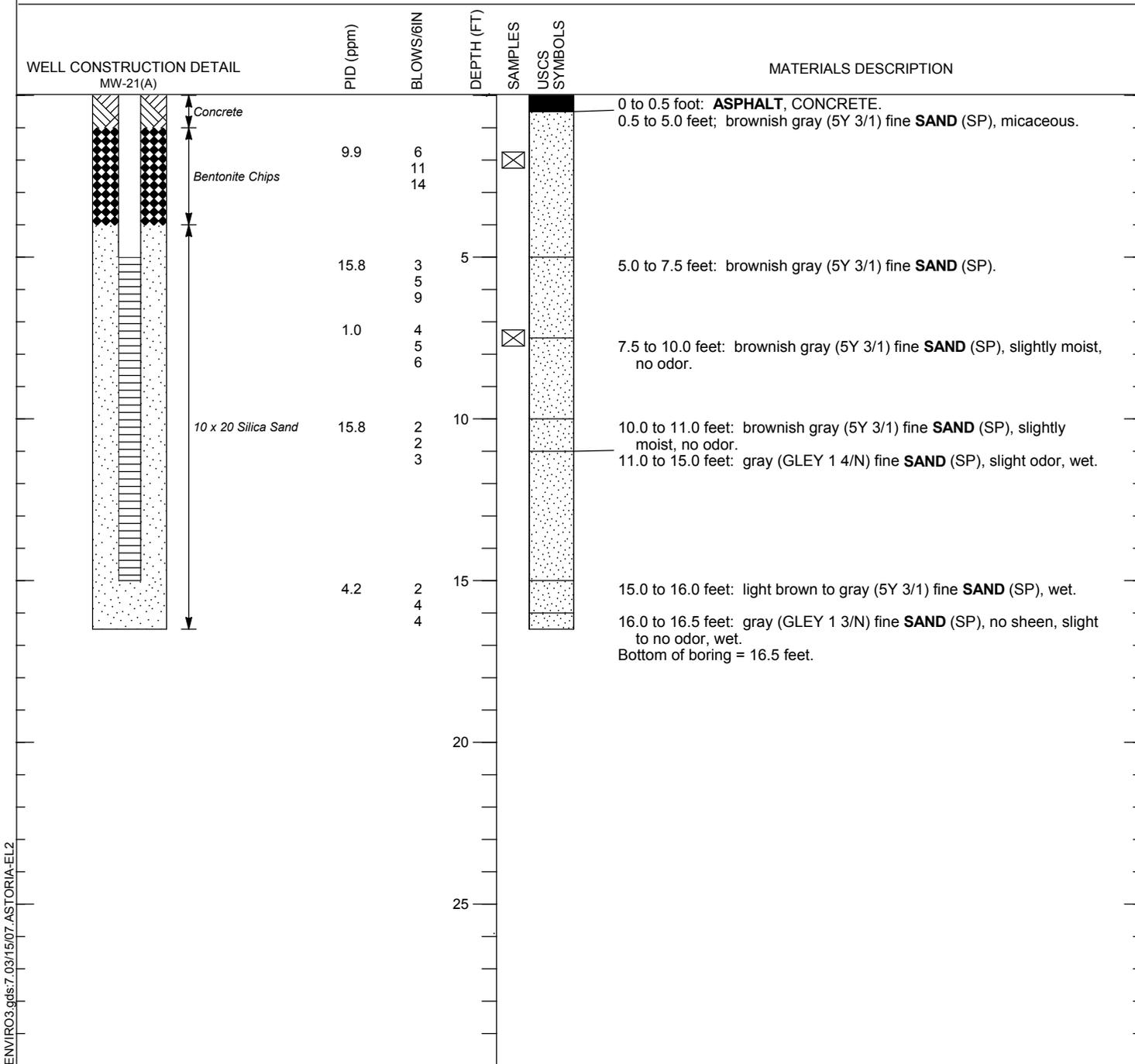
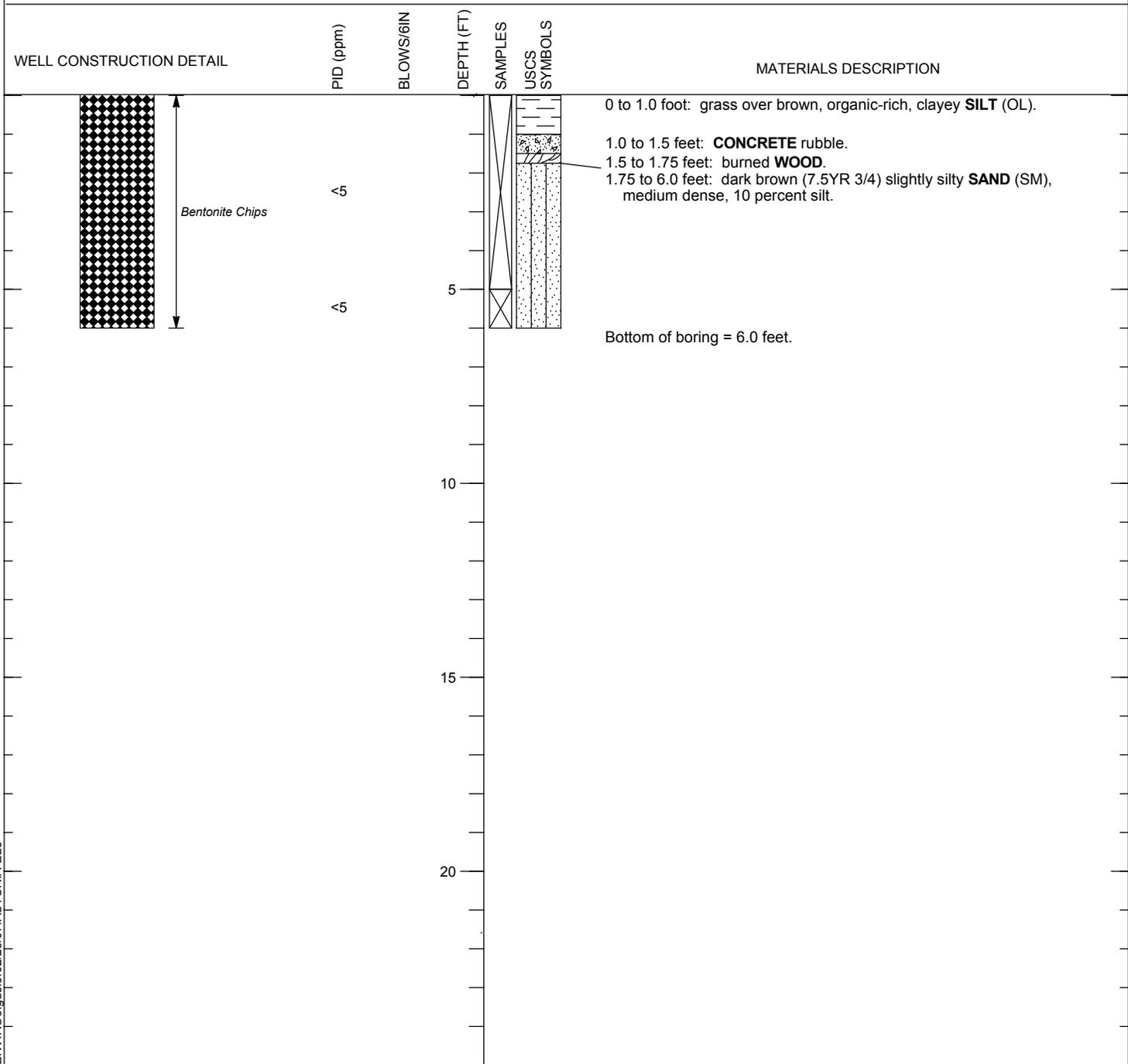


FIGURE B-206

LOG OF SB-914(S)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	6 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Hart Crowser	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

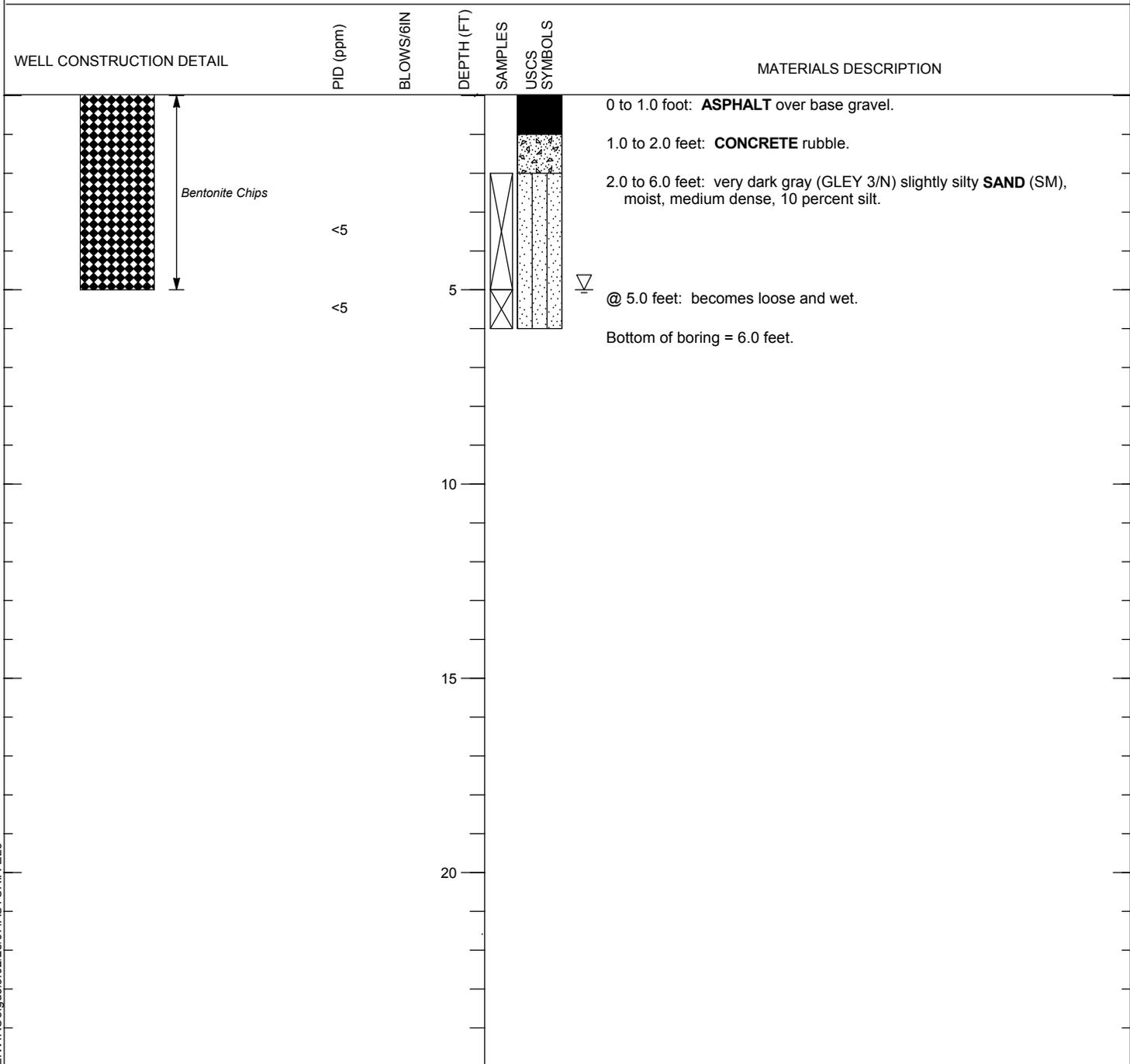
FIGURE B-207

**LOG OF
SOIL BORING SB-915(S)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Hart Crowser	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



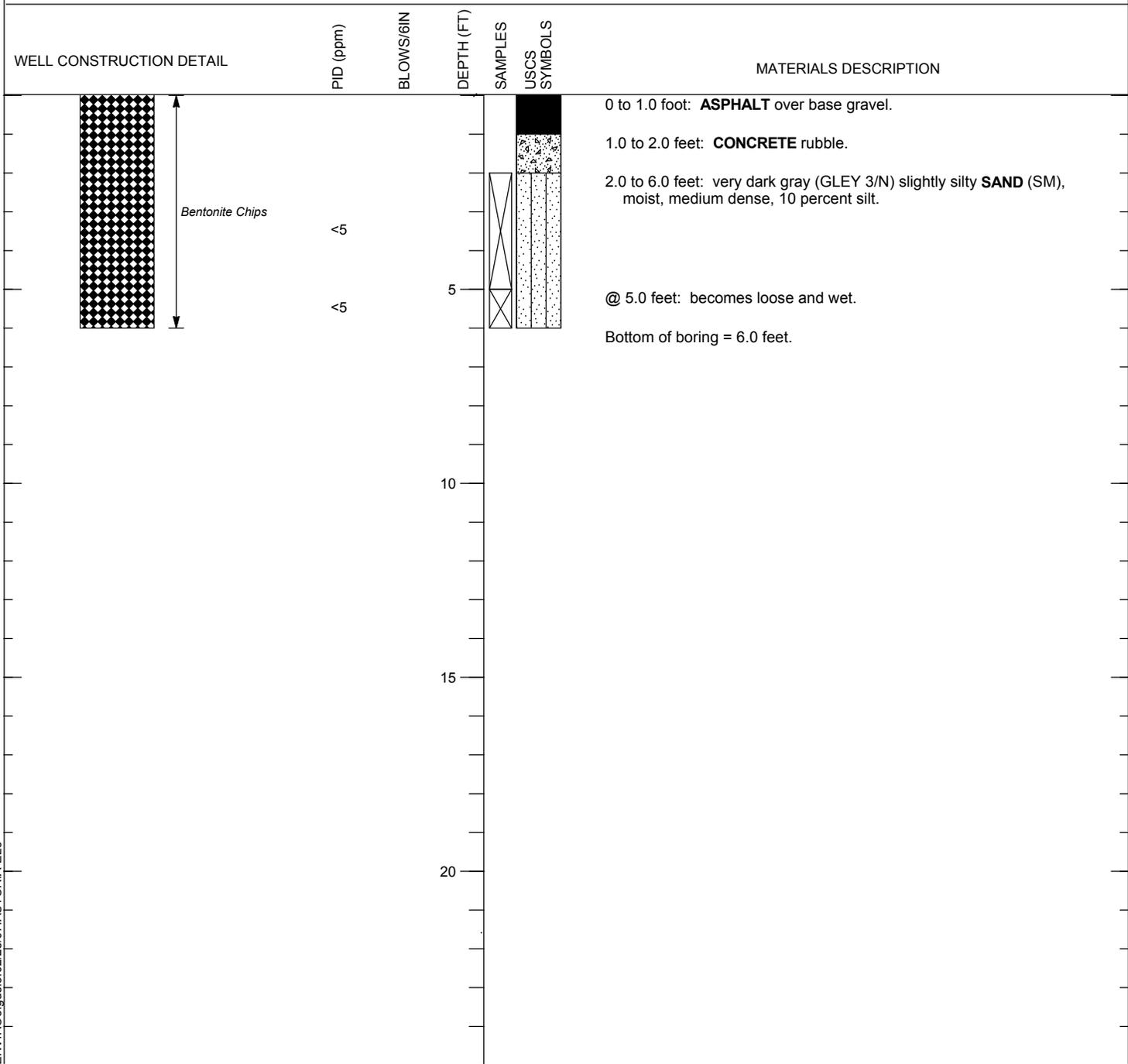
ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

FIGURE B-208
LOG OF
SOIL BORING SB-916A(S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	6 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Hart Crowser	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004

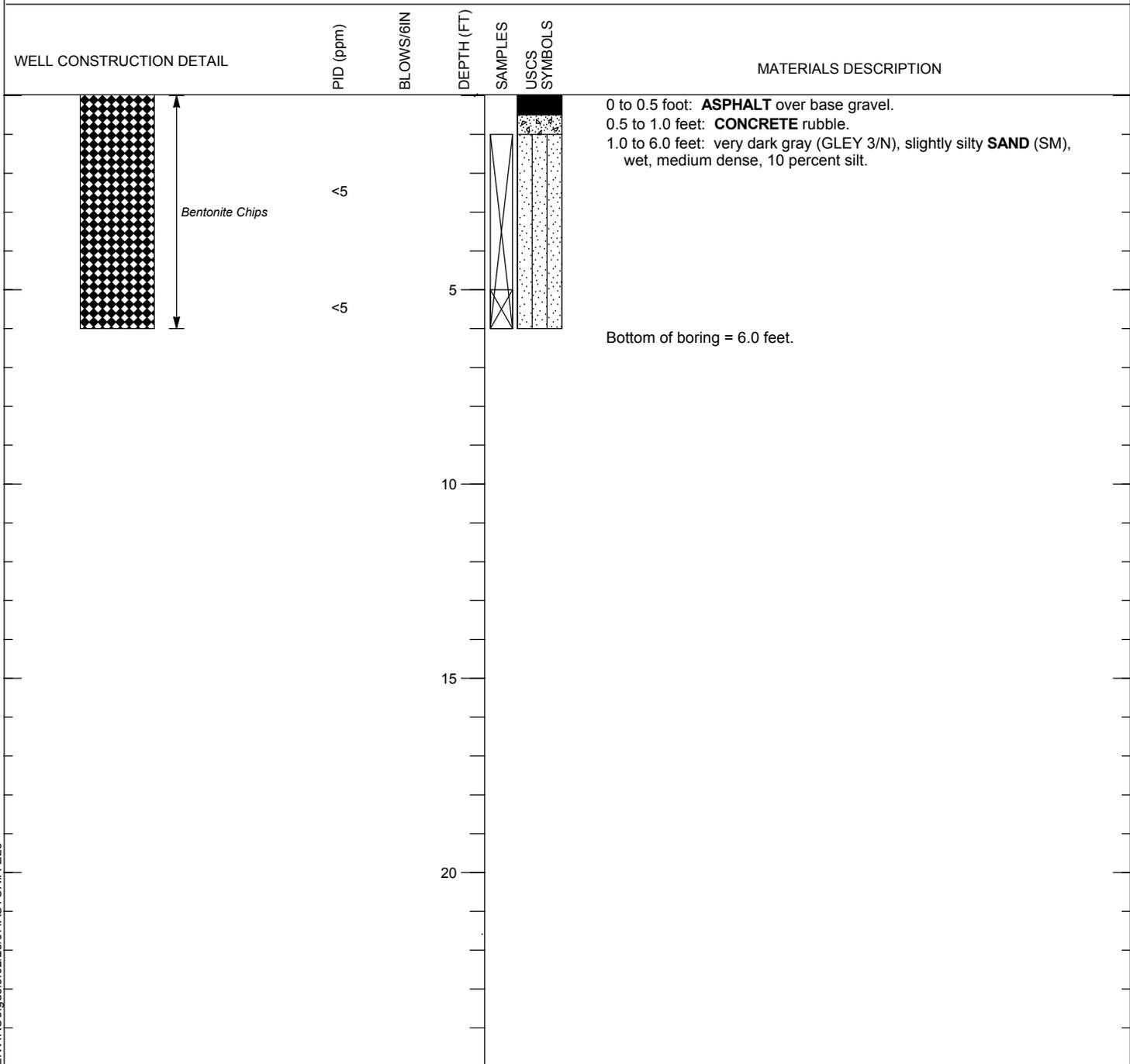


ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

FIGURE B-209
LOG OF
SOIL BORING SB-916B(S)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	6 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Hart Crowser	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

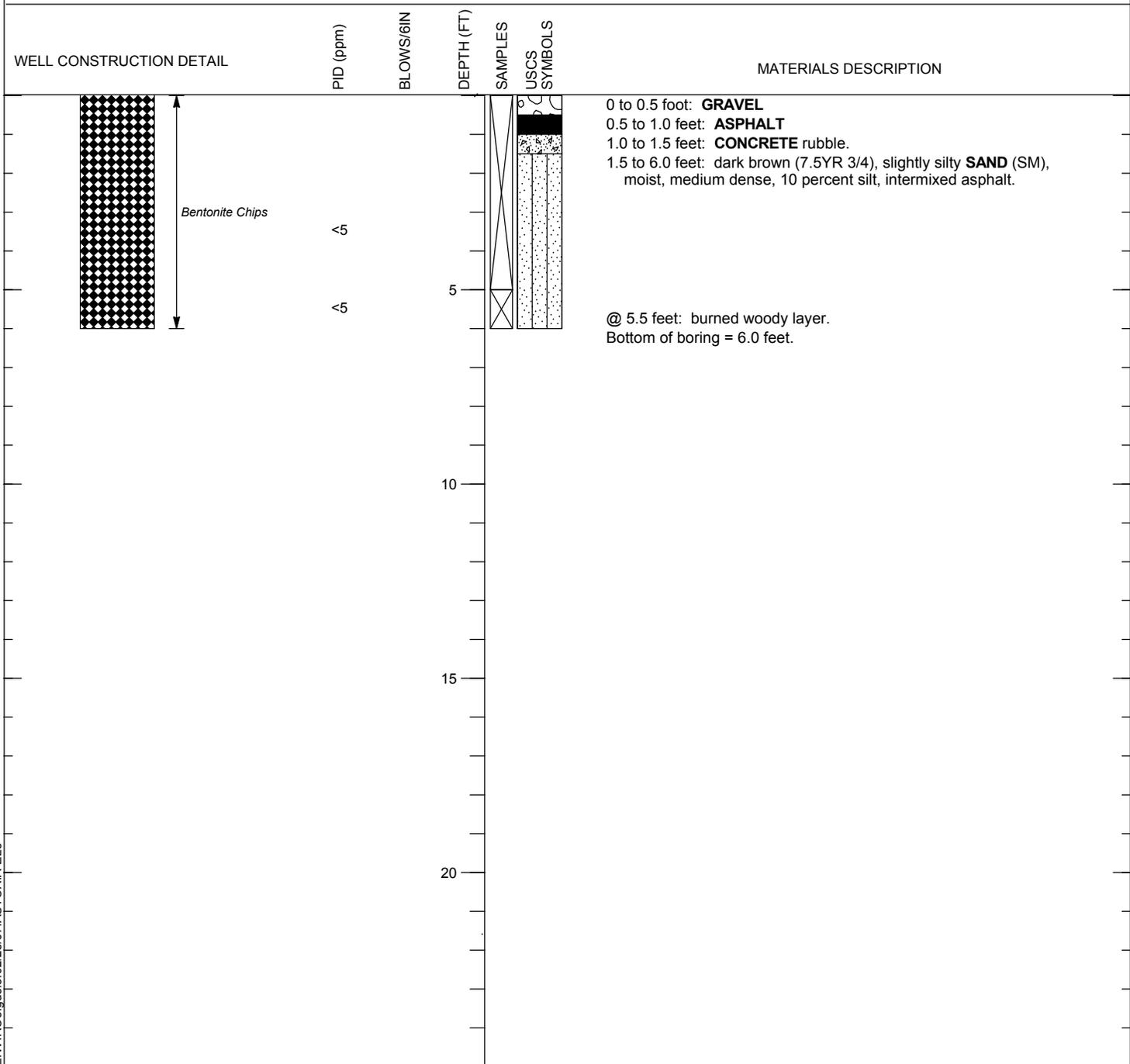
FIGURE B-210

**LOG OF
SOIL BORING SB-917(S)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	6 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Hart Crowser	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



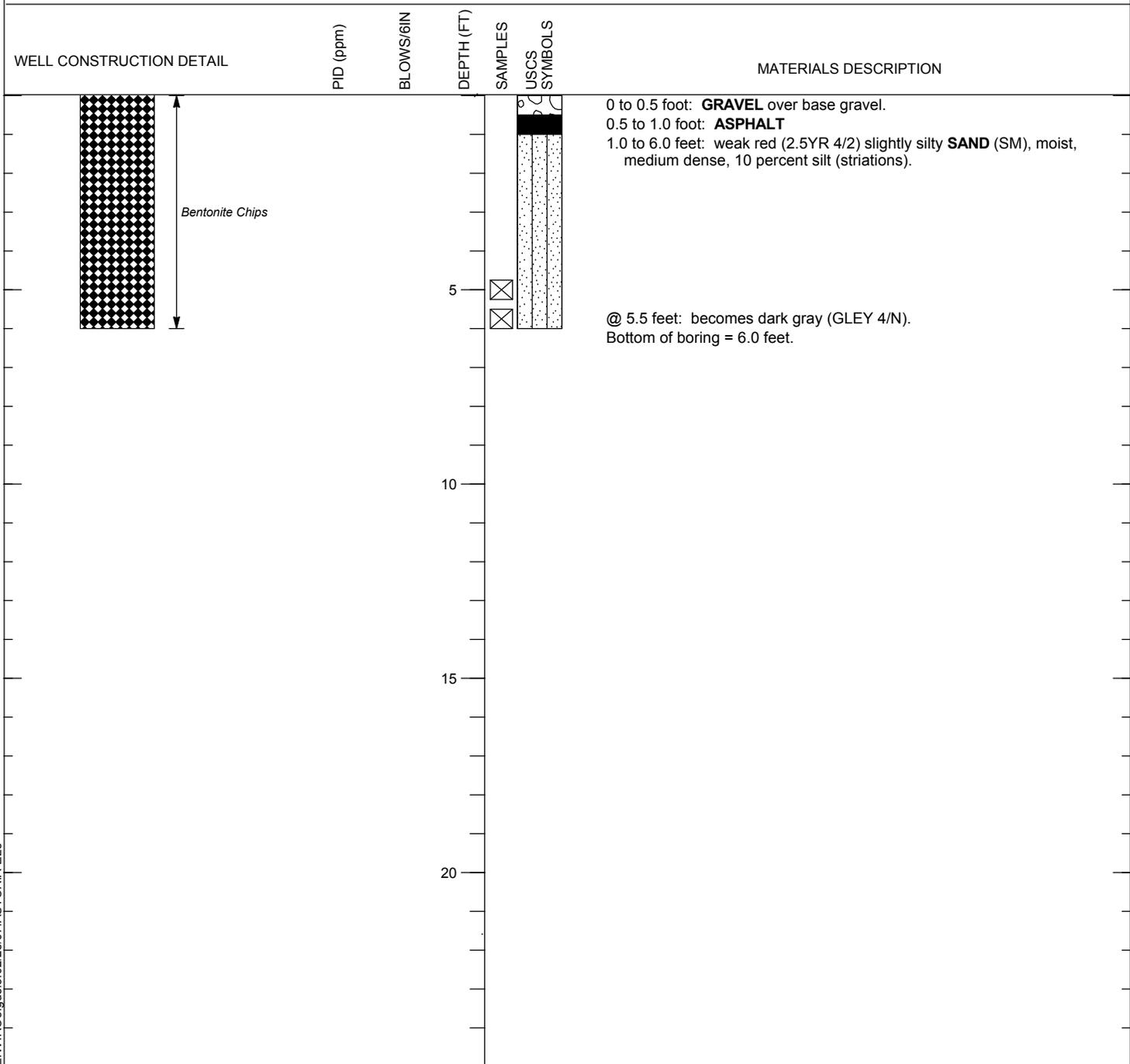
ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

FIGURE B-211
LOG OF
SOIL BORING SB-918(S)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	6 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.003	REFERENCE POINT ELEVATION	
LOGGED BY	Hart Crowser	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	3/31/2004



ENVIRO3.gds:3.02/28/07.ASTORIA-EL3

FIGURE B-212

**LOG OF
SOIL BORING SB-919(S)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	26.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/9/2003

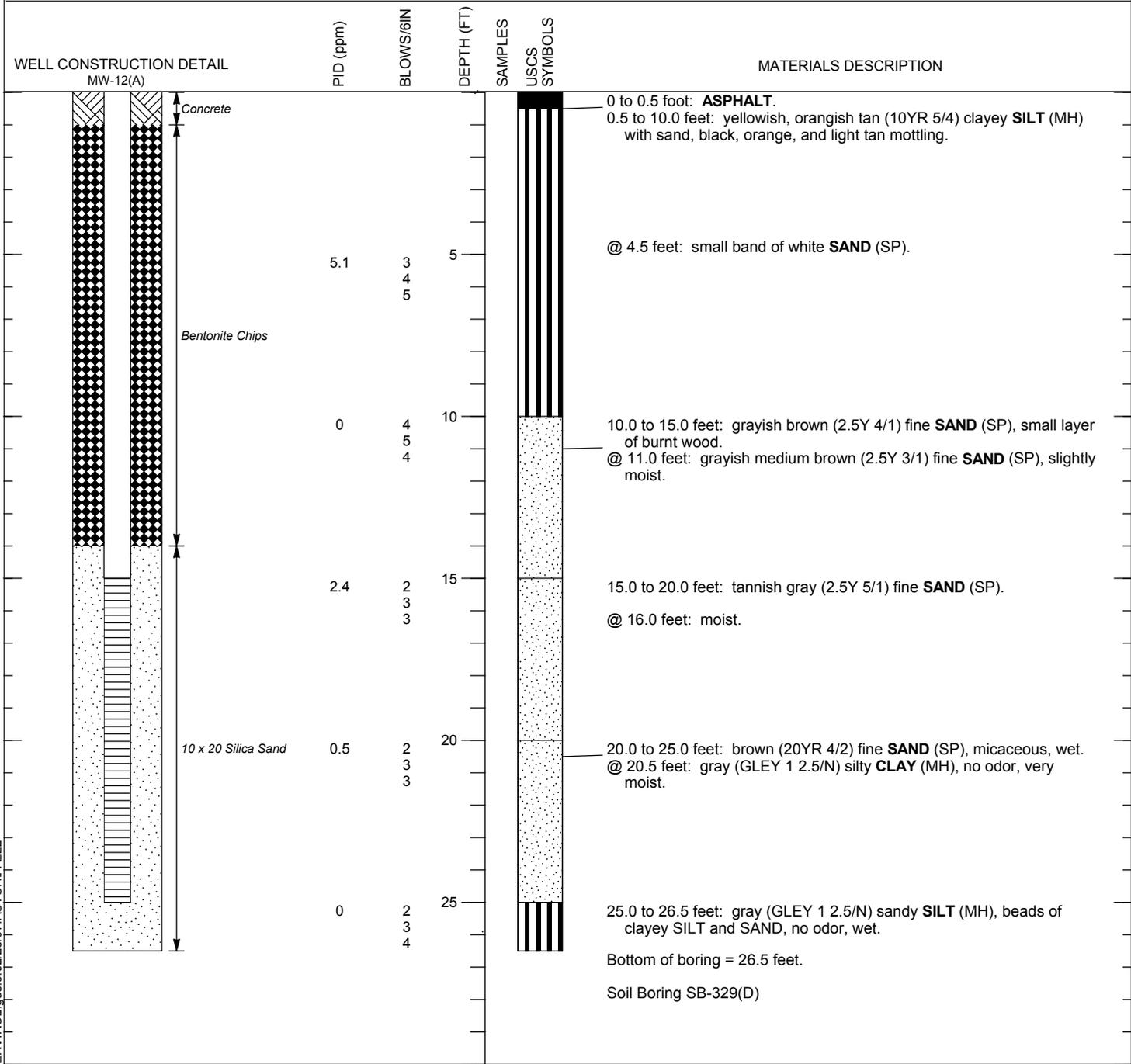


FIGURE B-213
LOG OF
MONITORING WELL MW-12(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	27 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/9/2003

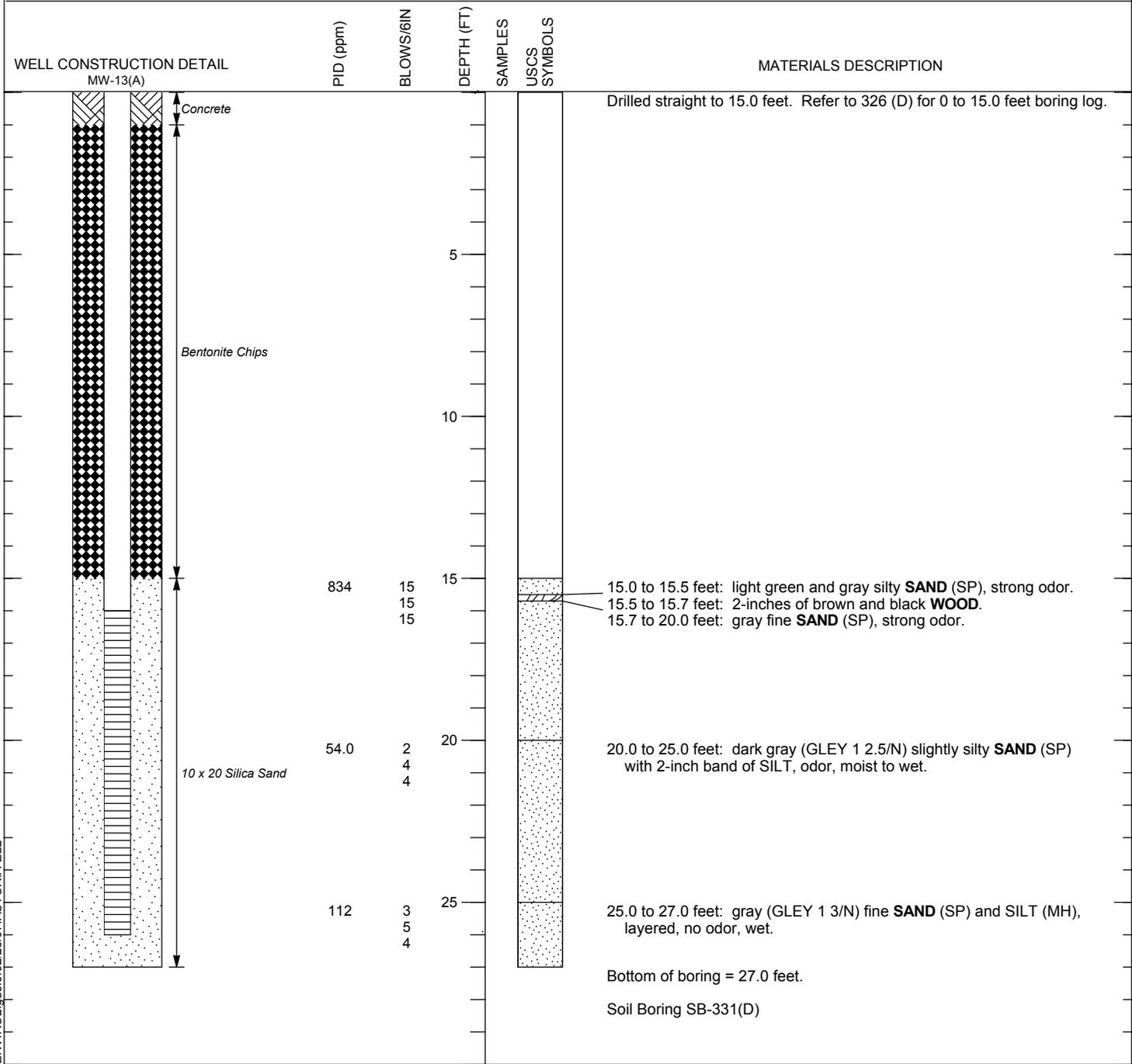


FIGURE B-214

LOG OF
MONITORING WELL MW-13(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	20 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe and Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/2003

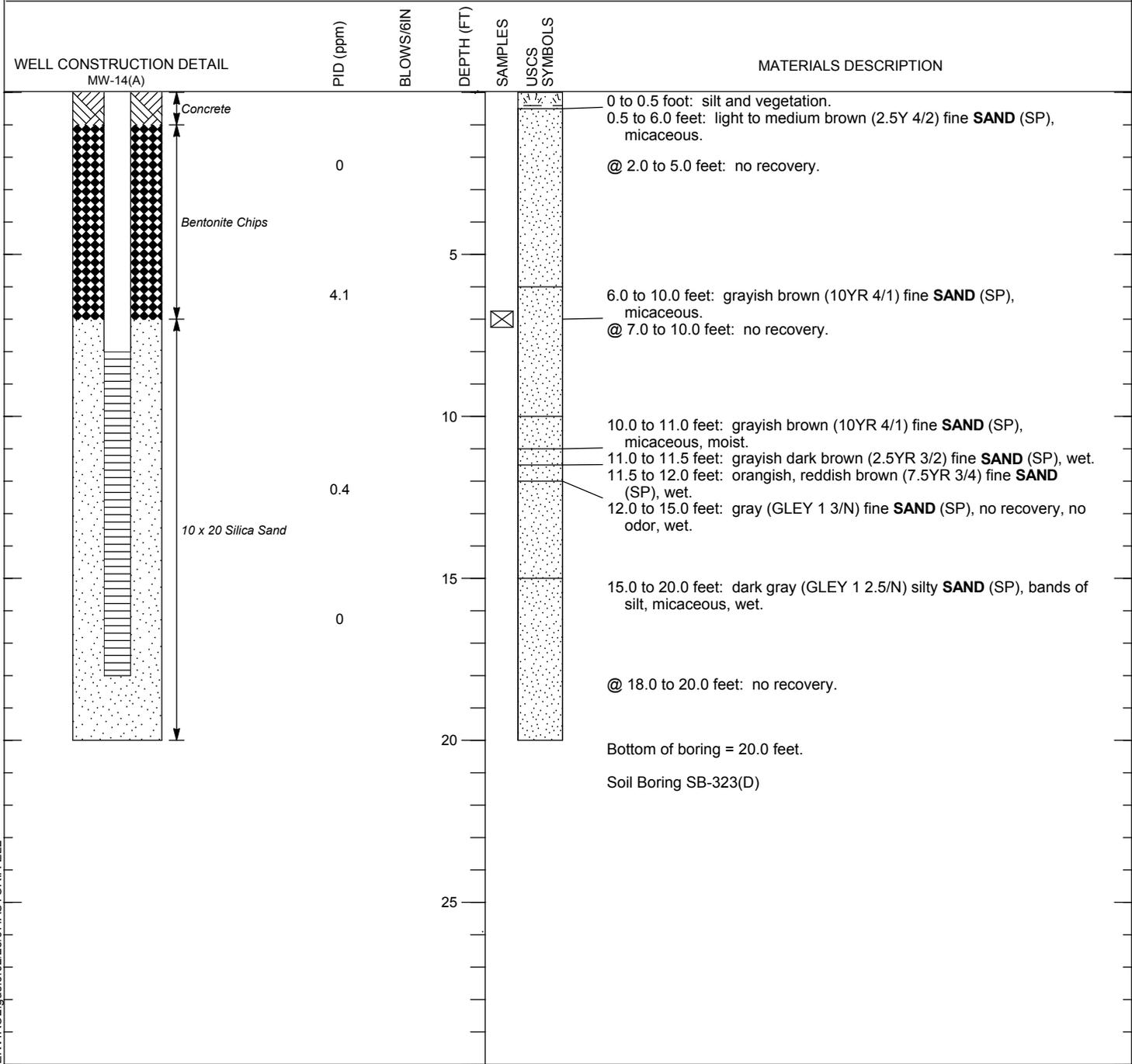


FIGURE B-215

LOG OF
MONITORING WELL MW-14(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/9/2003

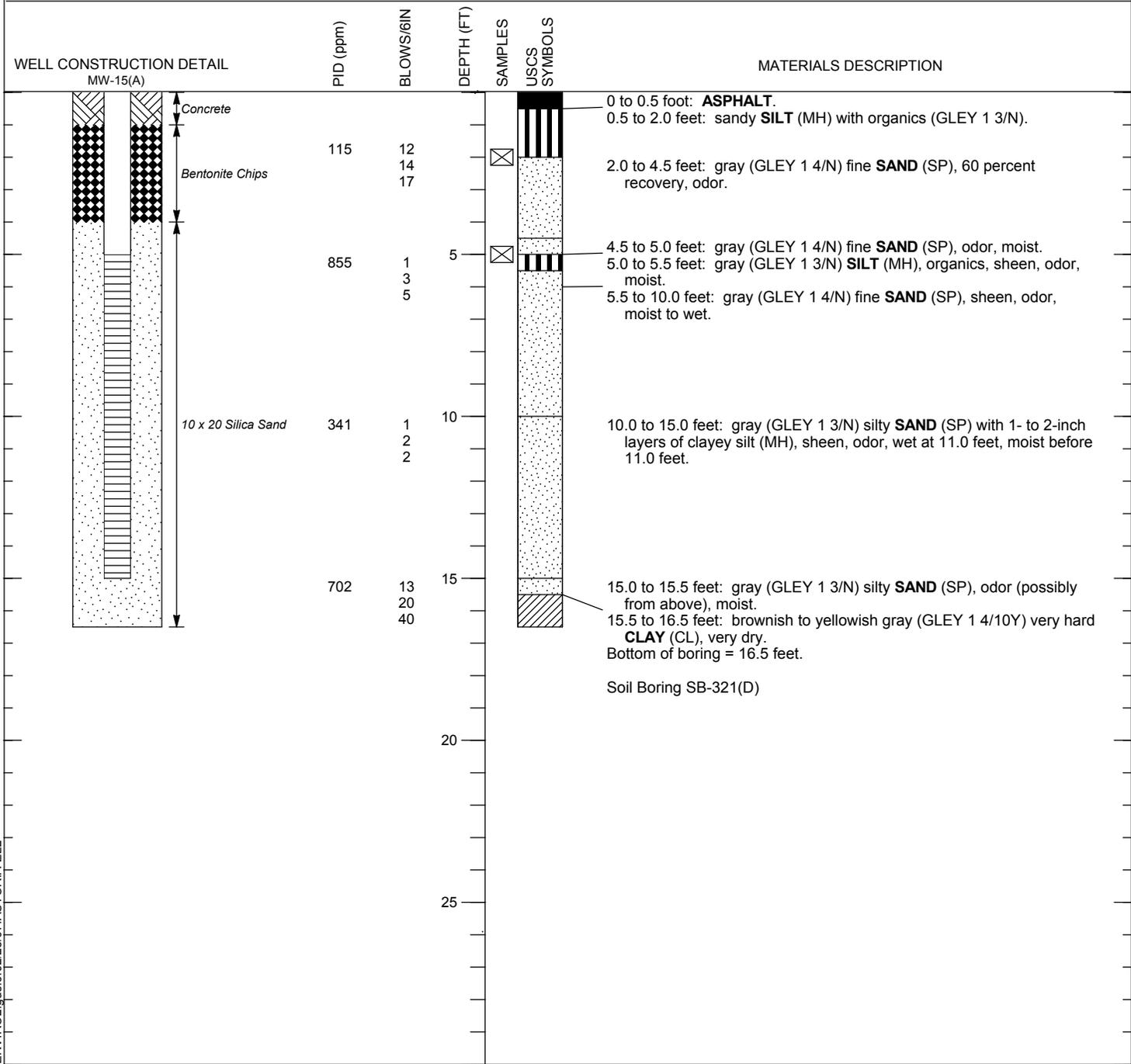


FIGURE B-216

**LOG OF
MONITORING WELL MW-15(A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/9/2003

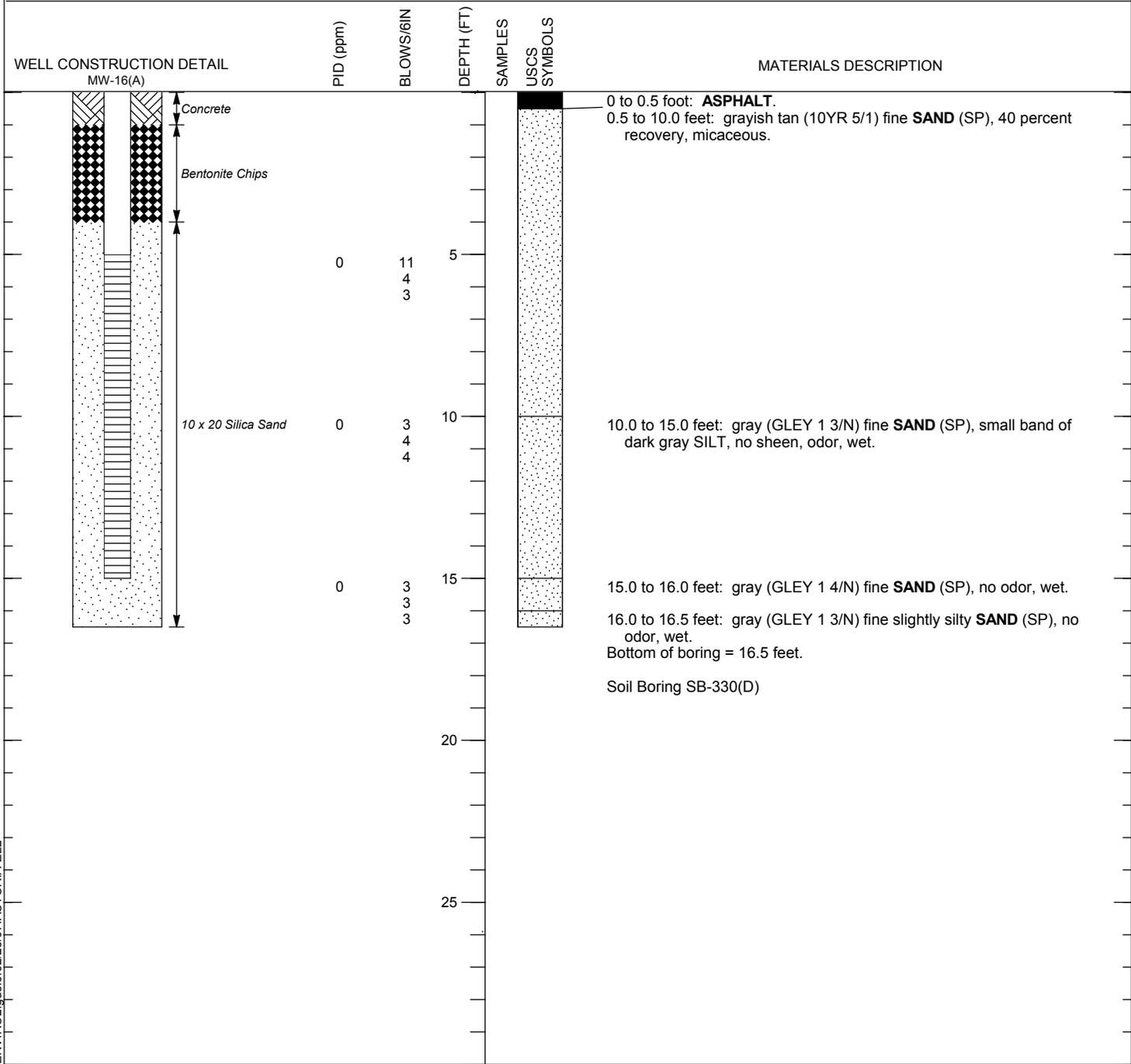


FIGURE B-217

**LOG OF
MONITORING WELL MW-16(A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/4/2003

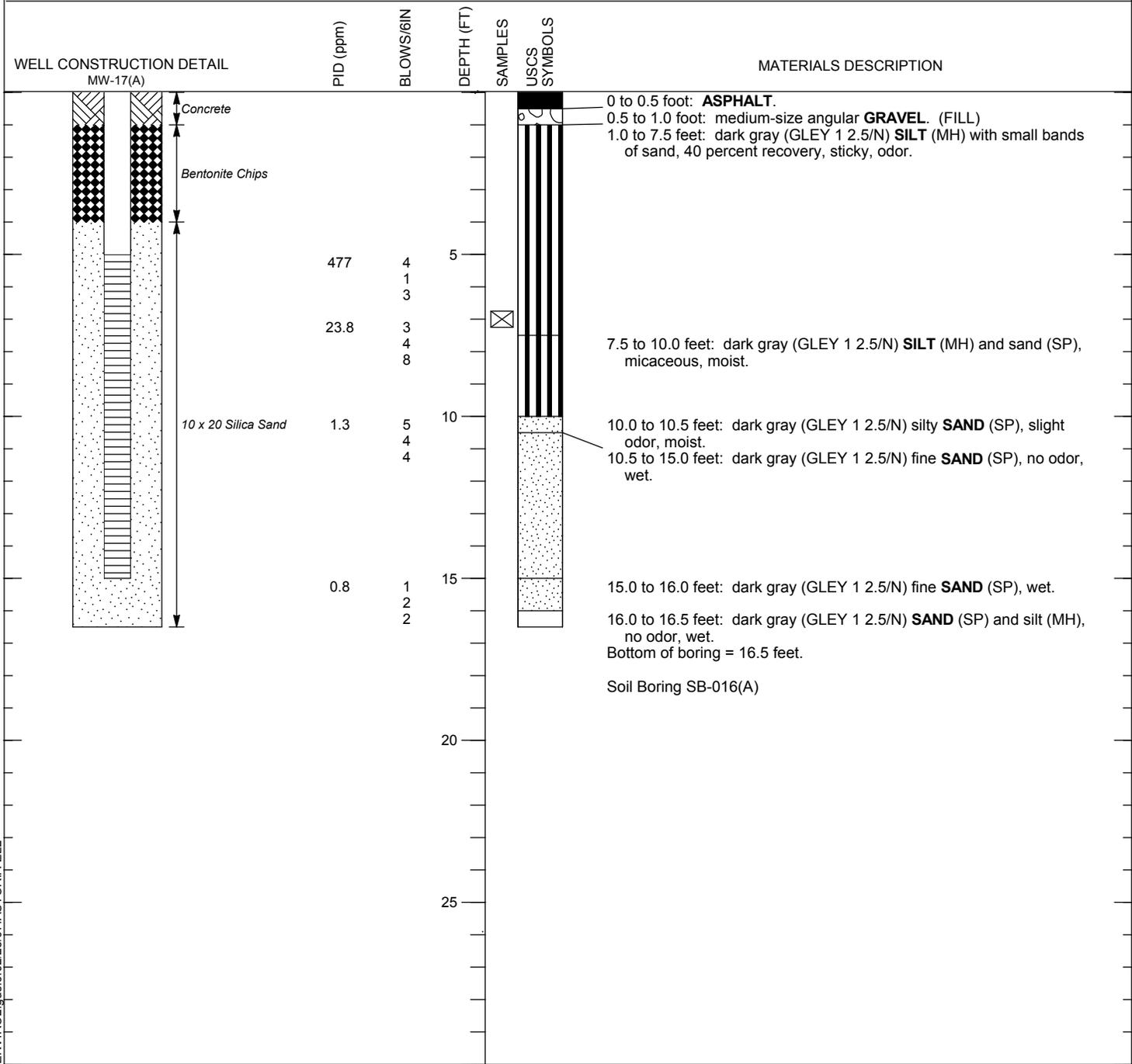


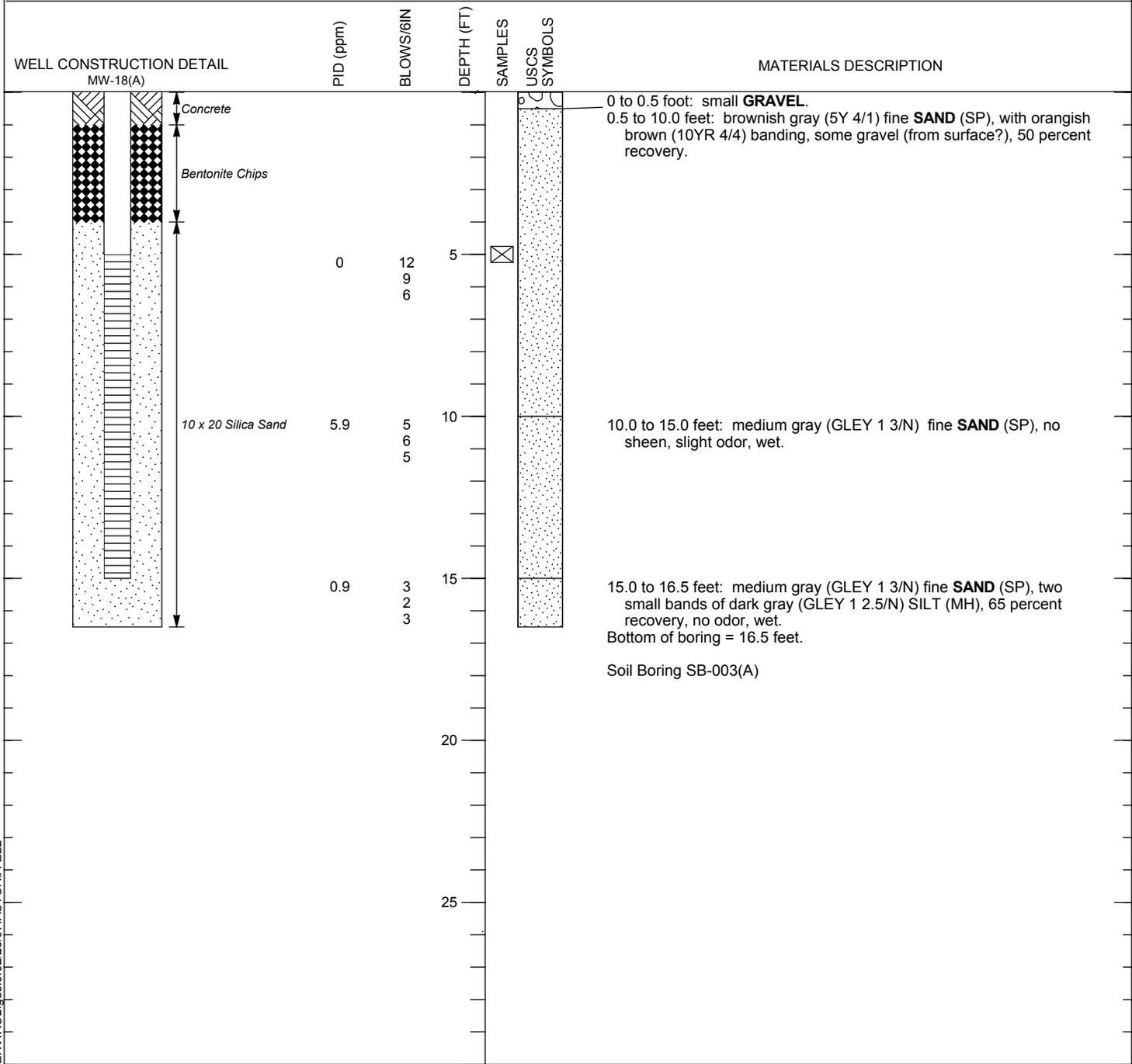
FIGURE B-218

LOG OF
MONITORING WELL MW-17(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/4/2003



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

FIGURE B-219
LOG OF
MONITORING WELL MW-18(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/3/2003

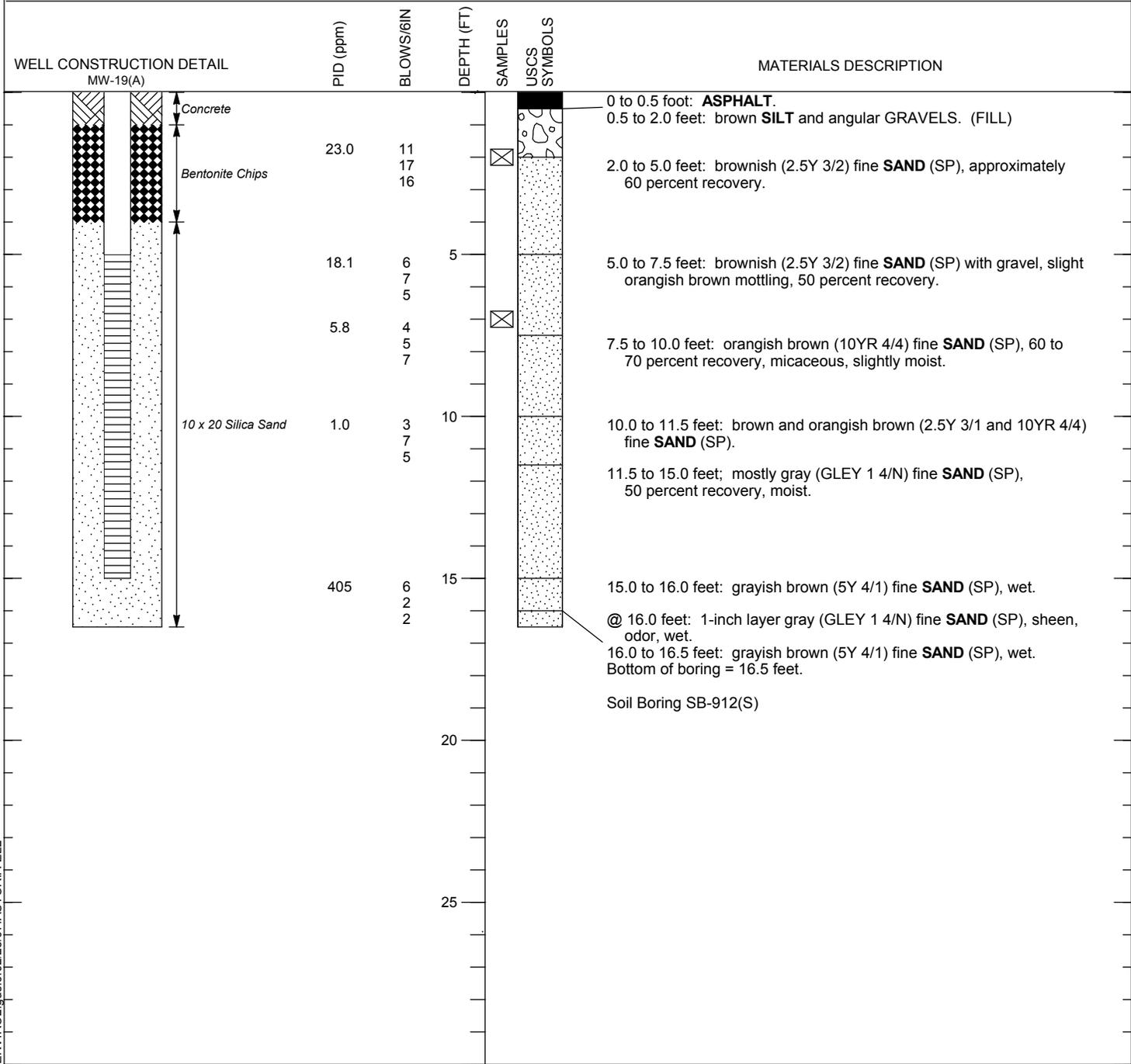


FIGURE B-220
LOG OF
MONITORING WELL MW-19(A)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/3/2003

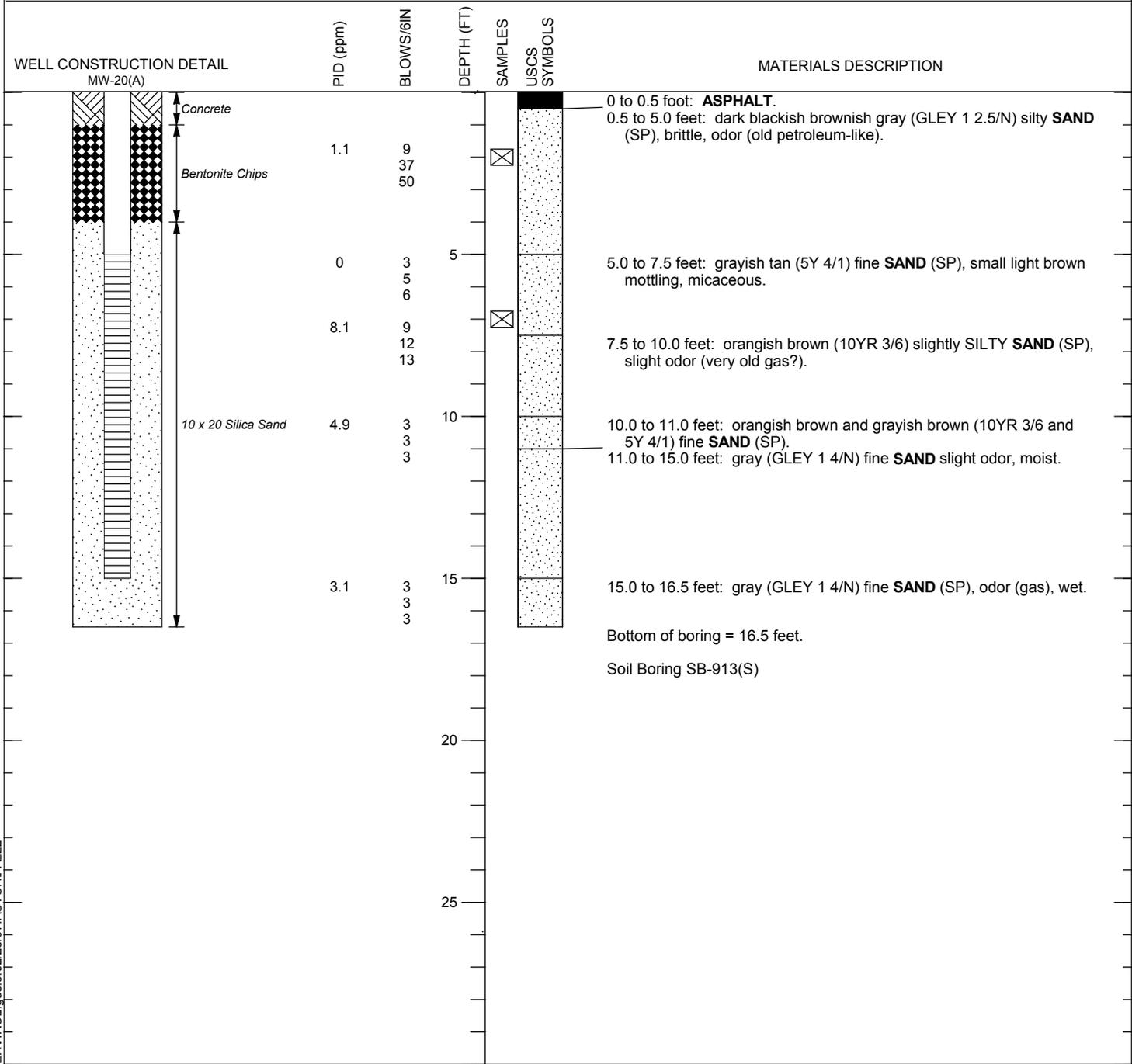


FIGURE B-221

**LOG OF
MONITORING WELL MW-20(A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/3/2003

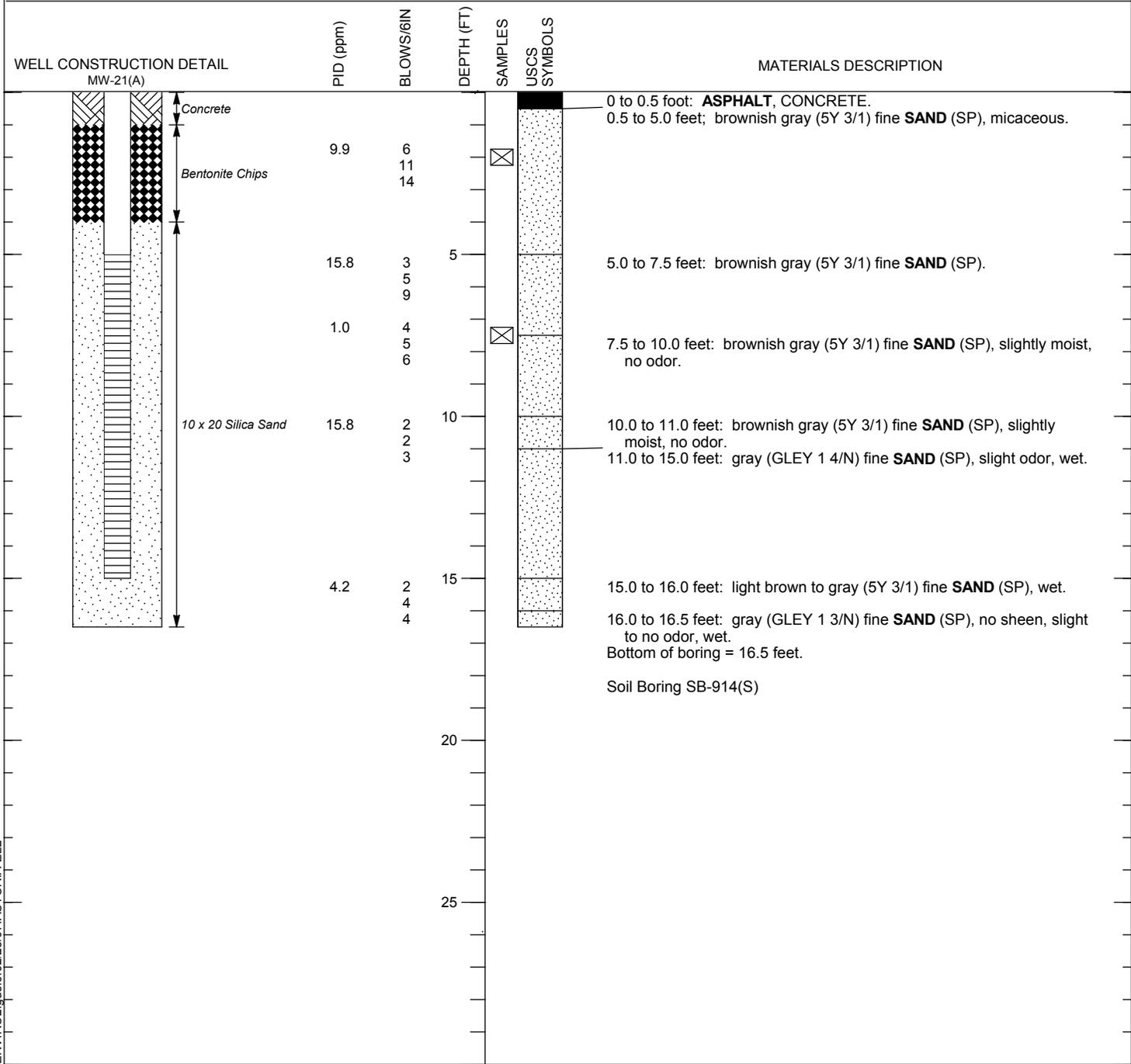
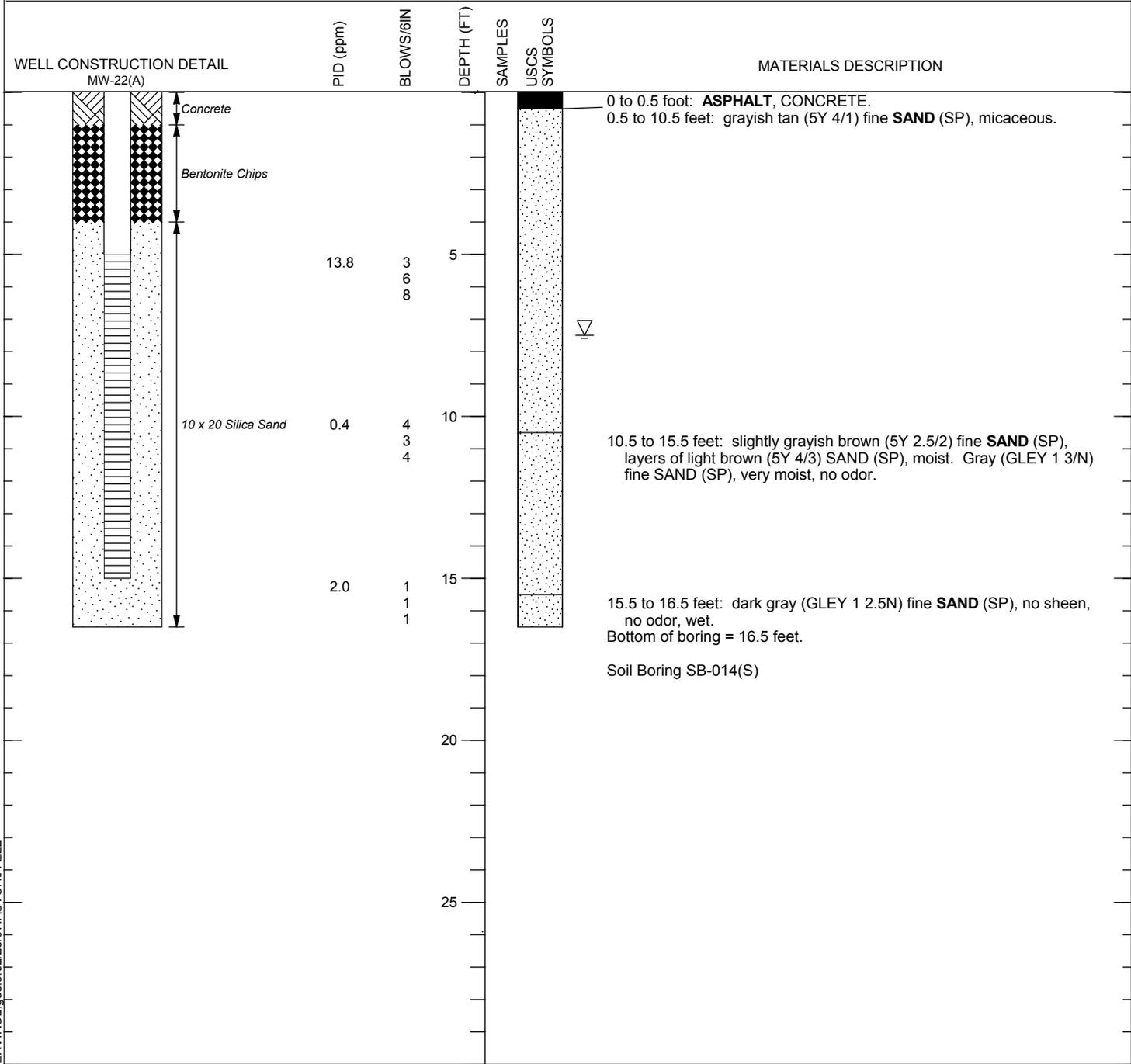


FIGURE B-222
LOG OF
MONITORING WELL MW-21(A)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/2/2003



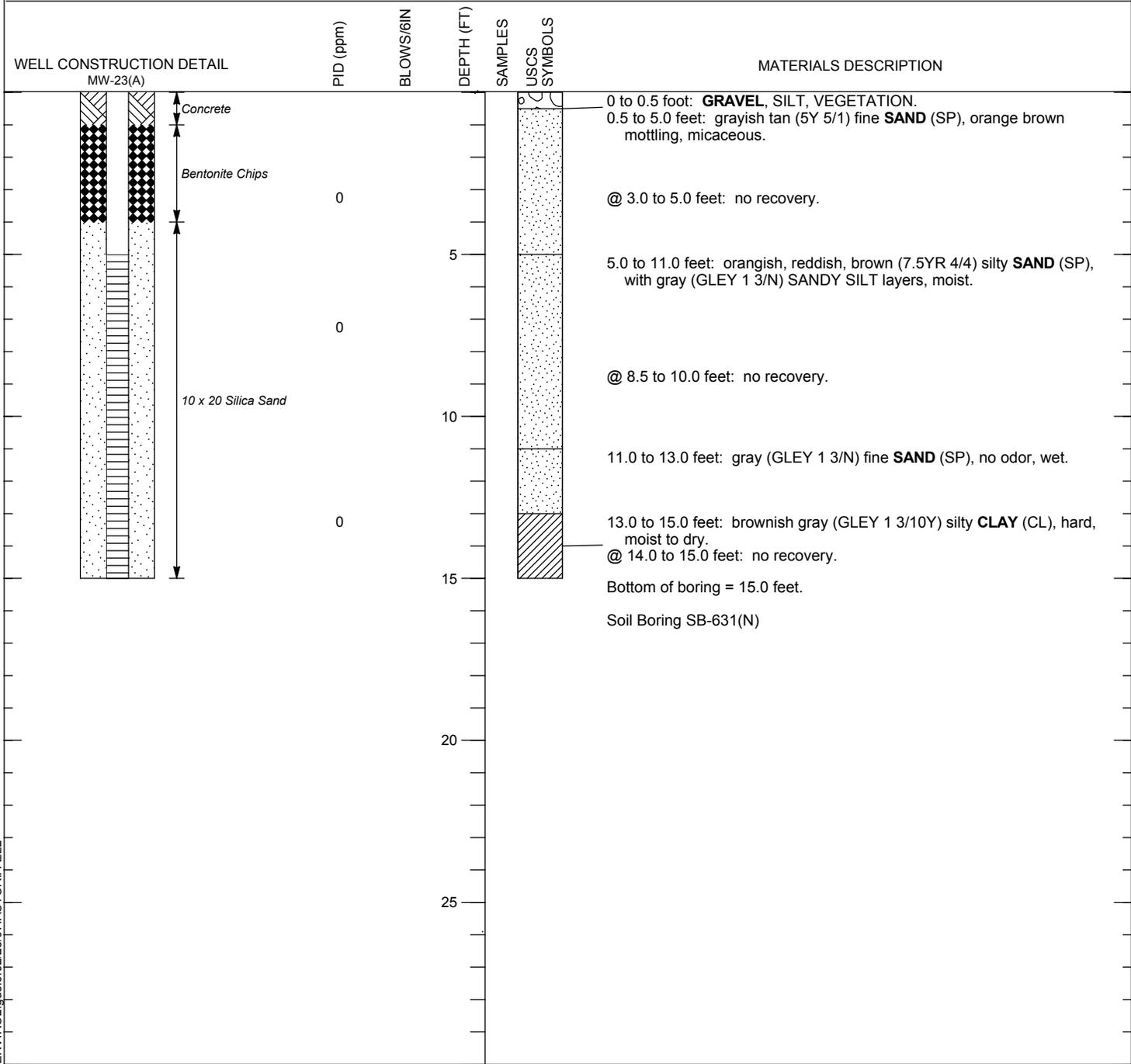
ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

FIGURE B-223
LOG OF
MONITORING WELL MW-22(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/2003



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

FIGURE B-224
LOG OF
MONITORING WELL MW-23(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/8/2003

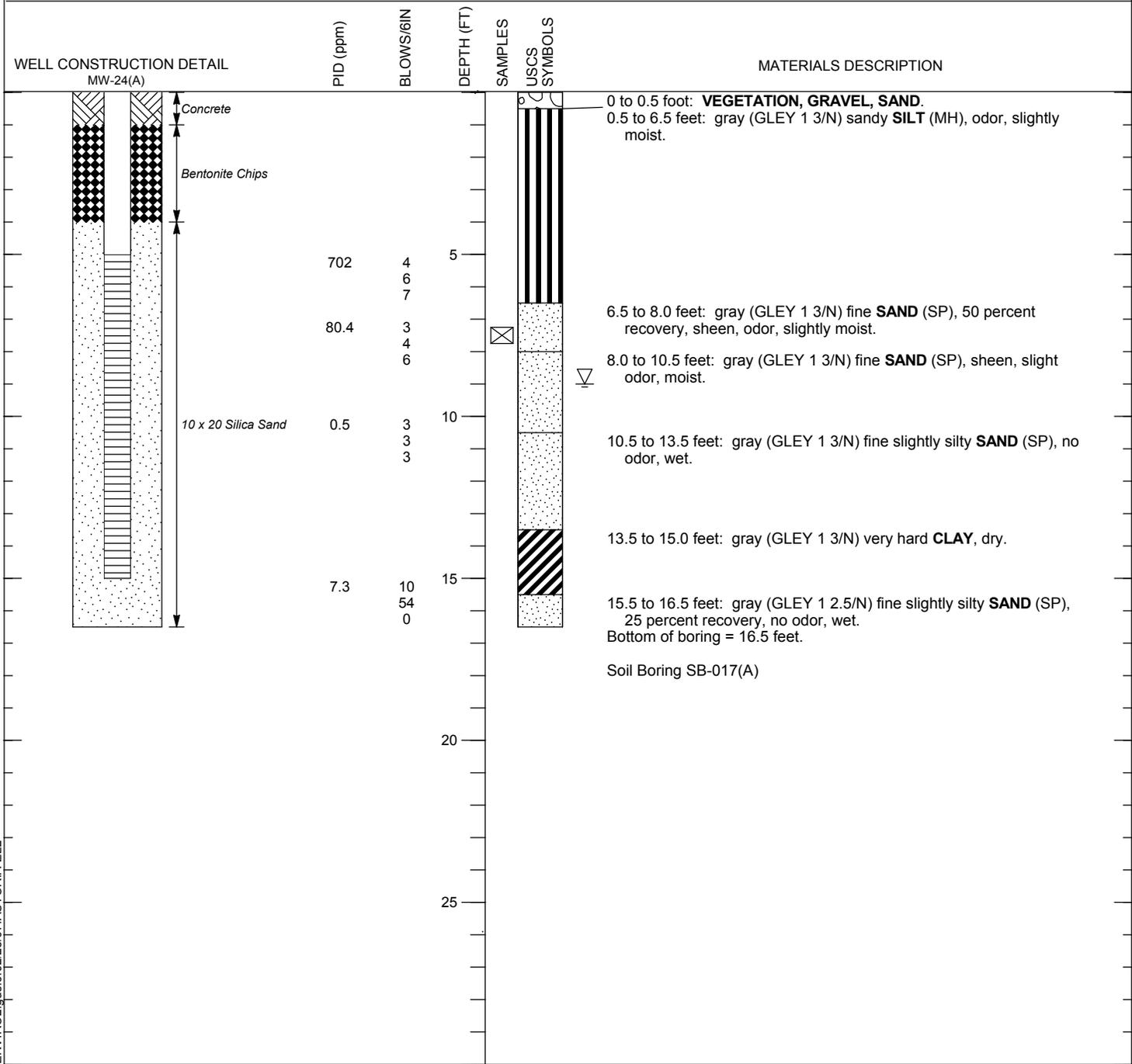


FIGURE B-225
LOG OF
MONITORING WELL MW-24(A)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/8/2003

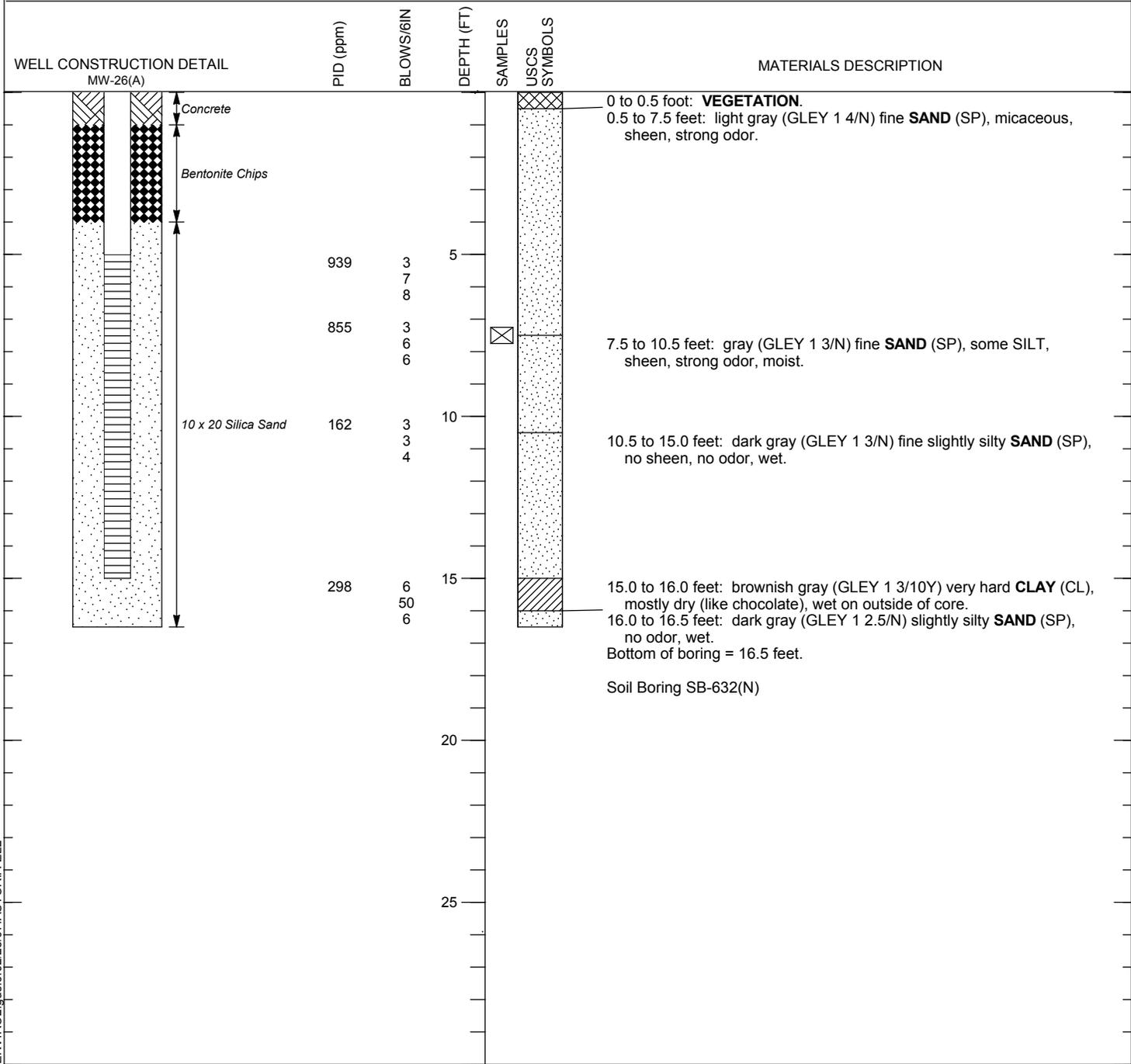


FIGURE B-226
LOG OF
MONITORING WELL MW-26(A)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 15 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 9/5/2003

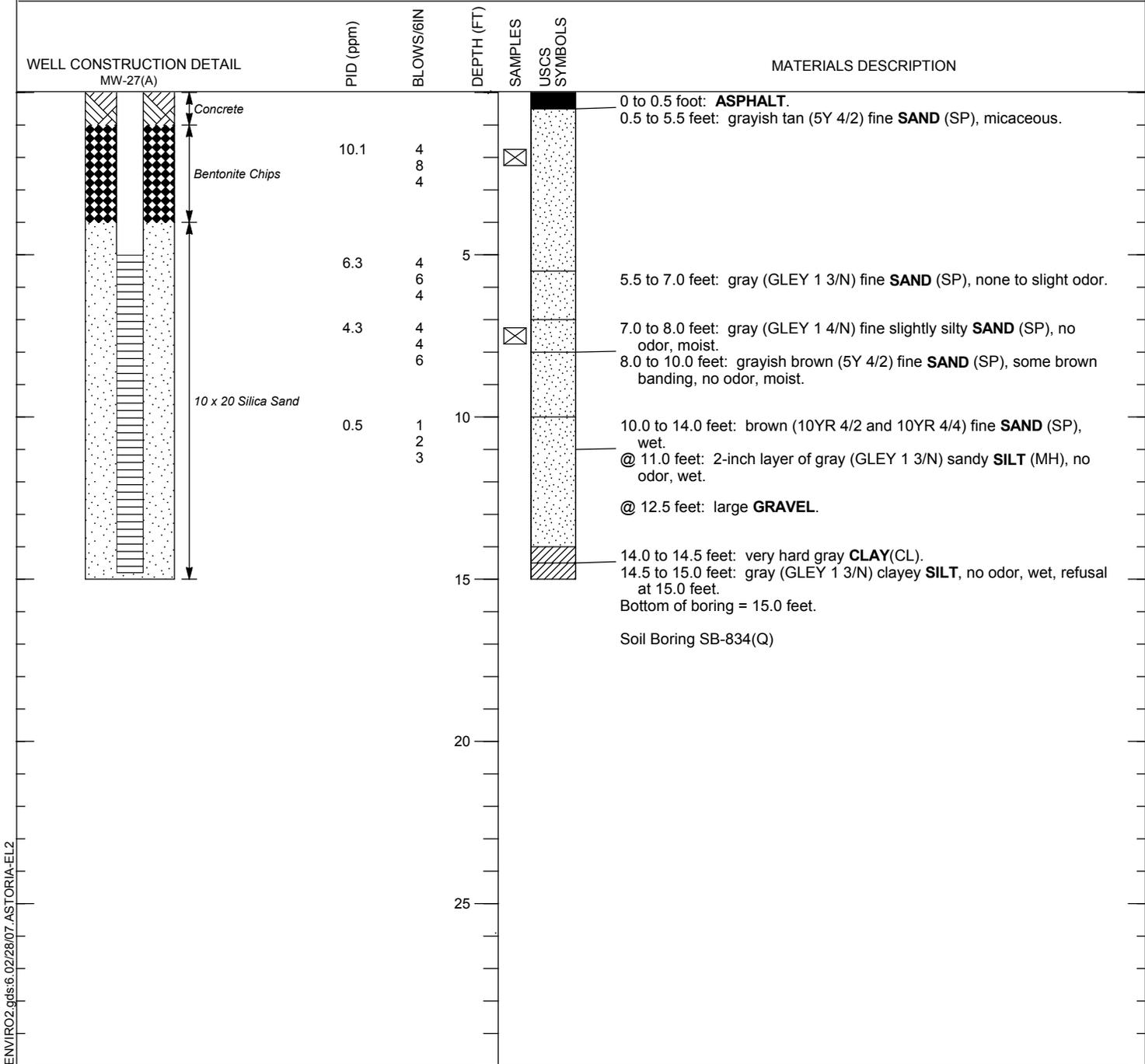
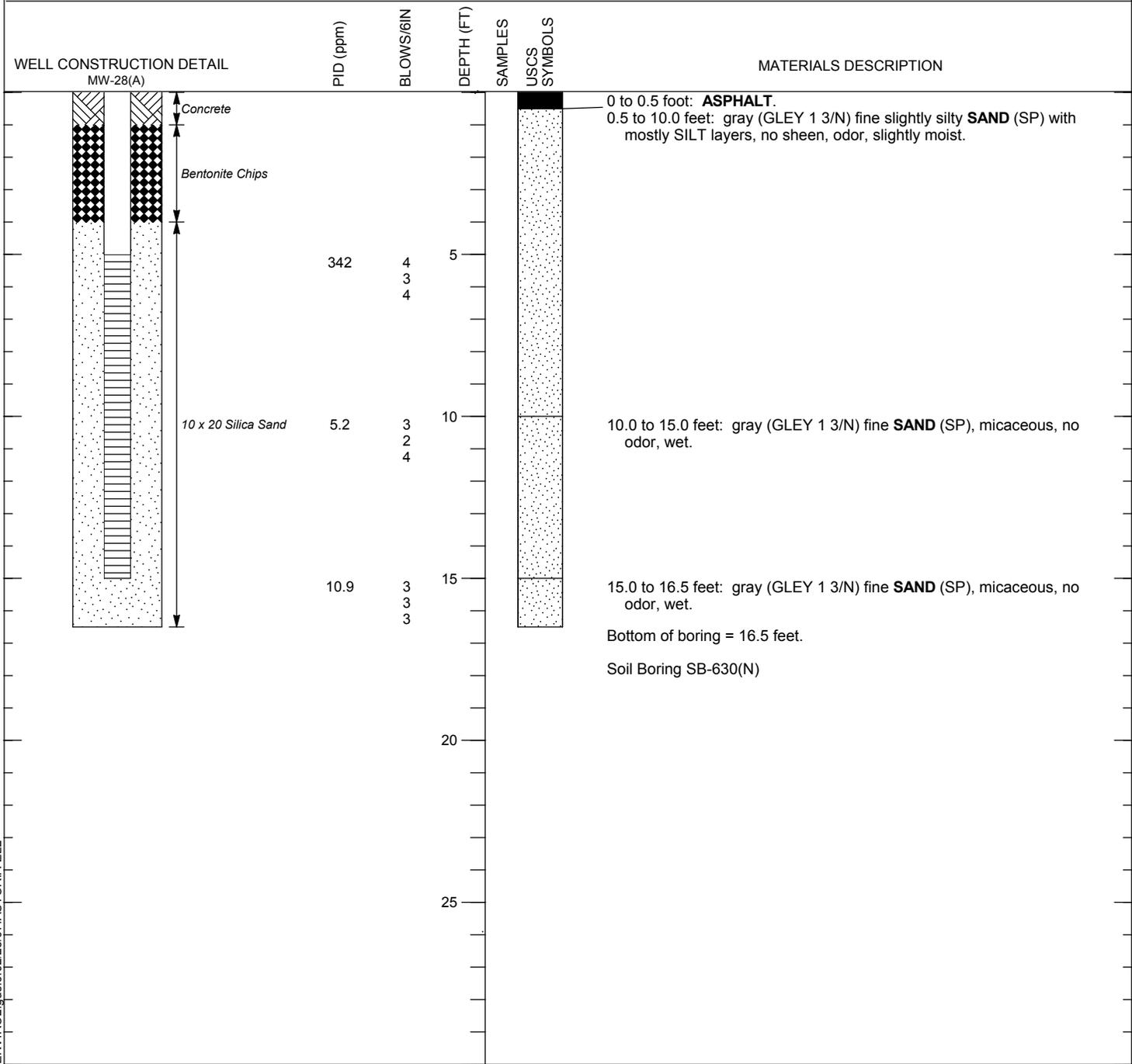


FIGURE B-227

LOG OF
 MONITORING WELL MW-27(A)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/8/2003



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

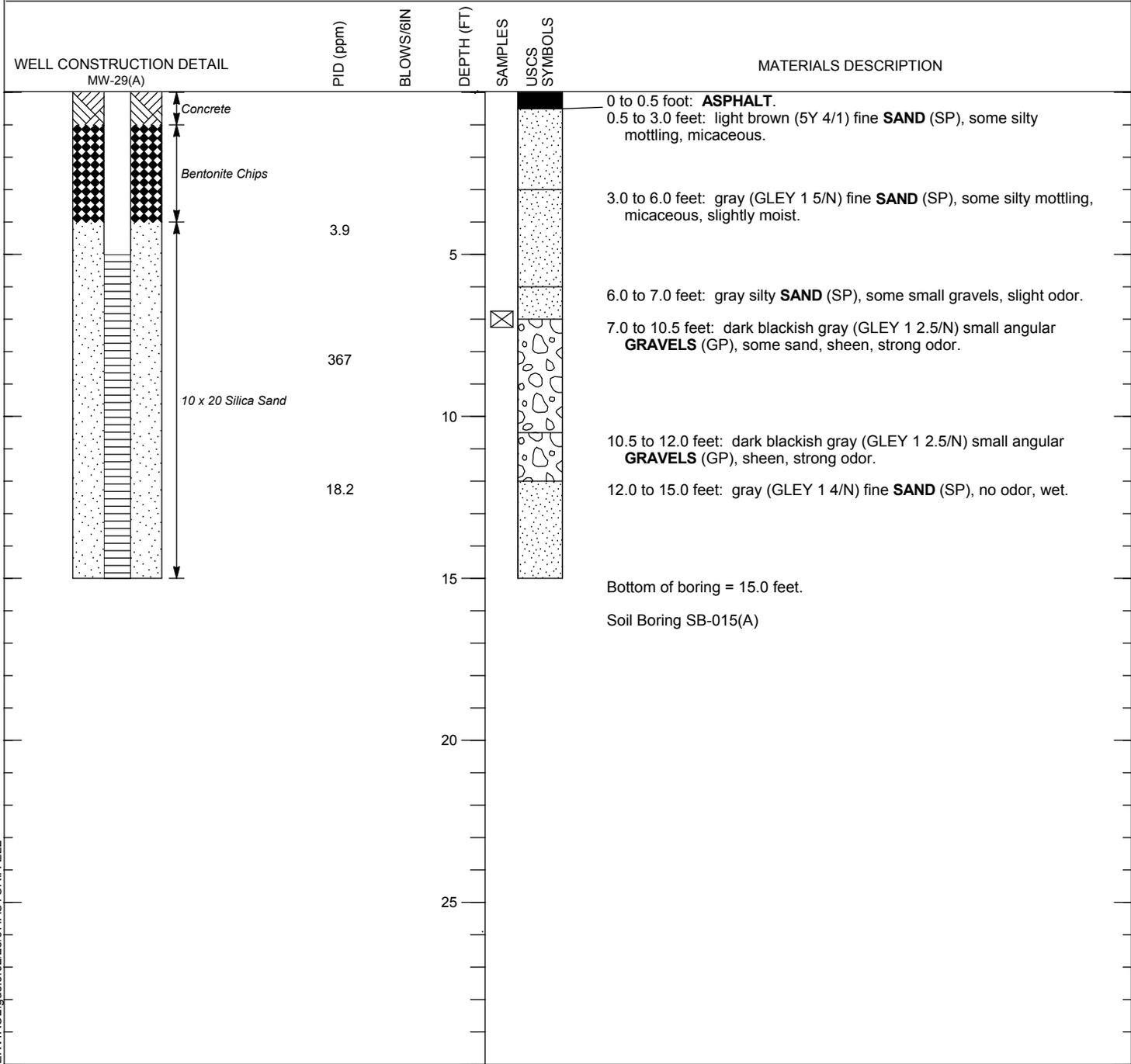
FIGURE B-228

**LOG OF
MONITORING WELL MW-28(A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Geoprobe and Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/10/2003



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

FIGURE B-229

**LOG OF
MONITORING WELL MW-29(A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/3/2003

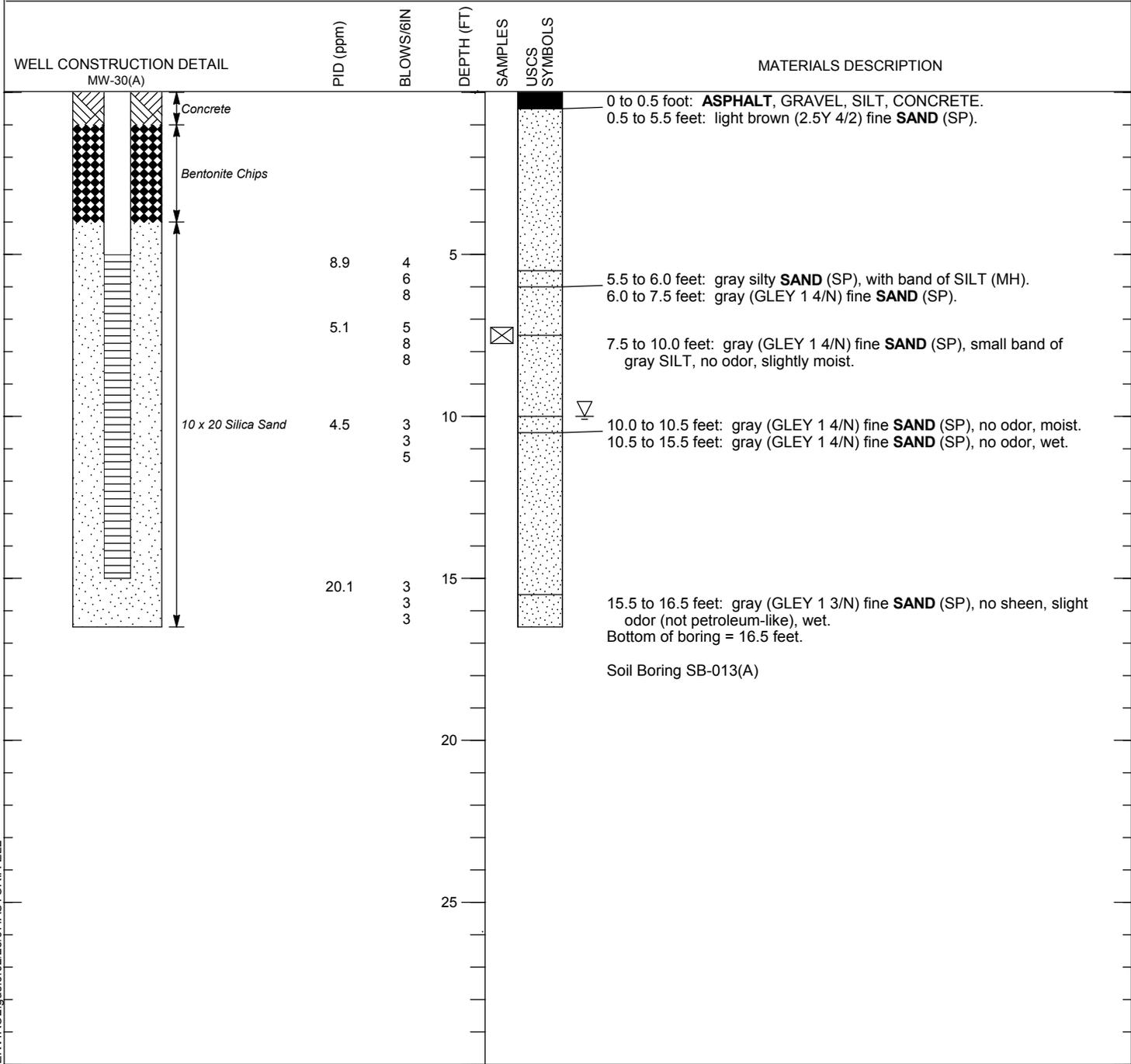


FIGURE B-230
LOG OF
MONITORING WELL MW-30(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/2/2003

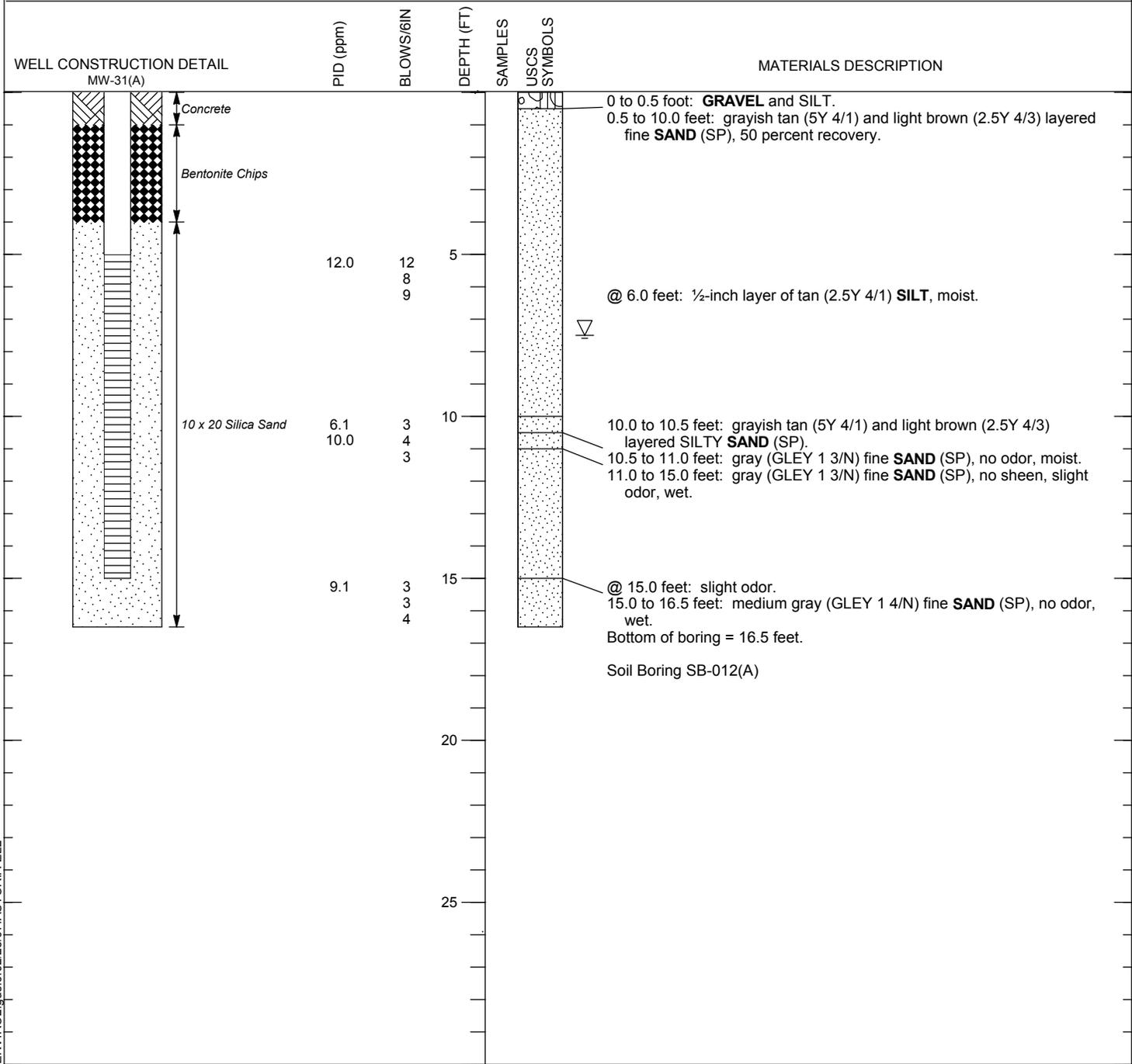


FIGURE B-231

**LOG OF
MONITORING WELL MW-31(A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16.5 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/27/2003

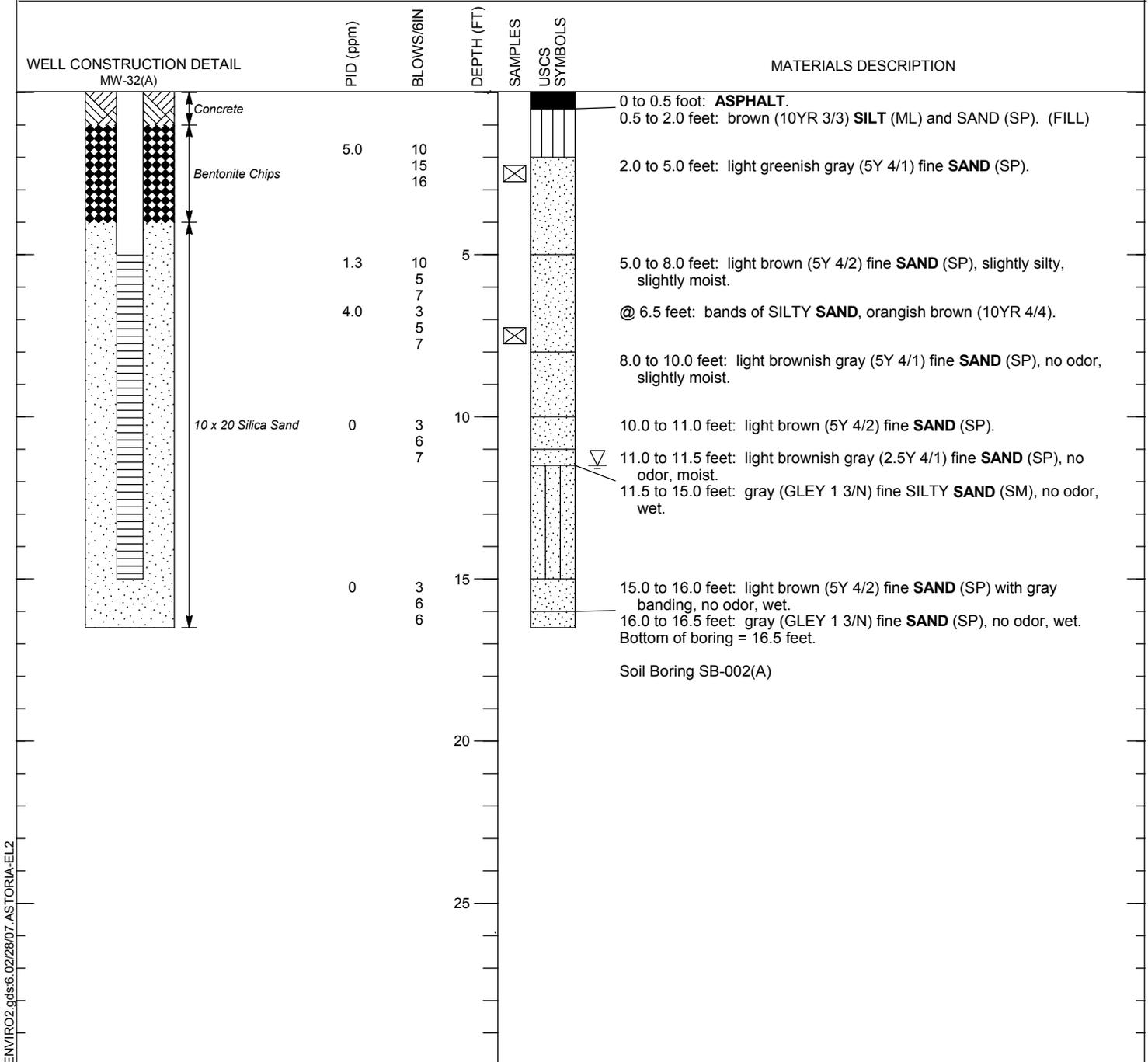


FIGURE B-232

LOG OF
 MONITORING WELL MW-32(A)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	17 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2003

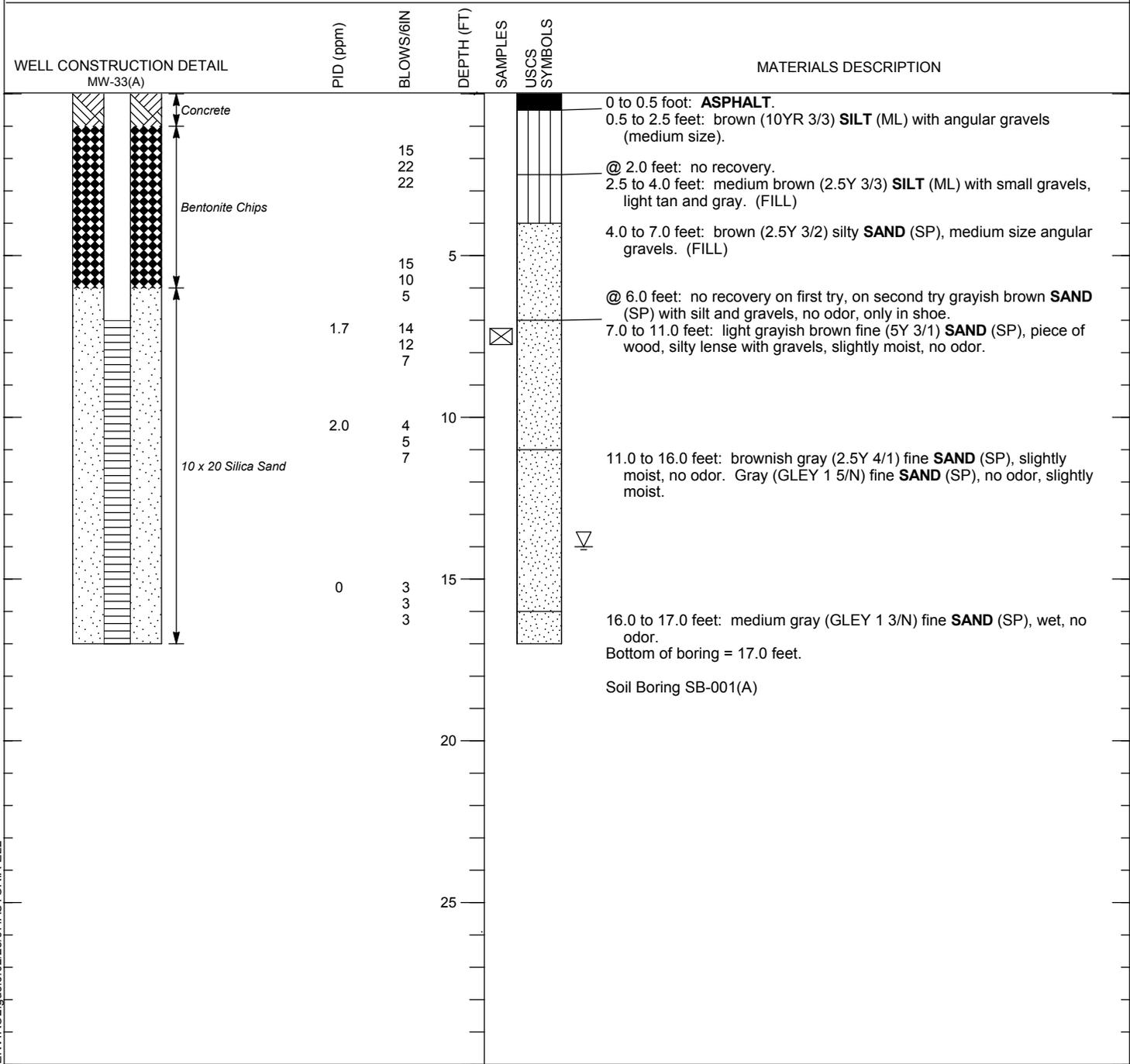


FIGURE B-233

LOG OF
MONITORING WELL MW-33(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT Astoria Area-Wide Petroleum Site
 LOCATION Astoria, Oregon
 JOB NUMBER 10077.004
 LOGGED BY Melanie Bocianowski
 DRILLING METHOD Hollow-stem Auger
 DRILLING COMPANY Geo-Tech Explorations, Inc.

TOTAL DEPTH 16.5 feet
 SURFACE ELEVATION
 REFERENCE POINT ELEVATION
 REFERENCE POINT DESCRIPTION
 DATUM
 DATE STARTED 8/27/2003

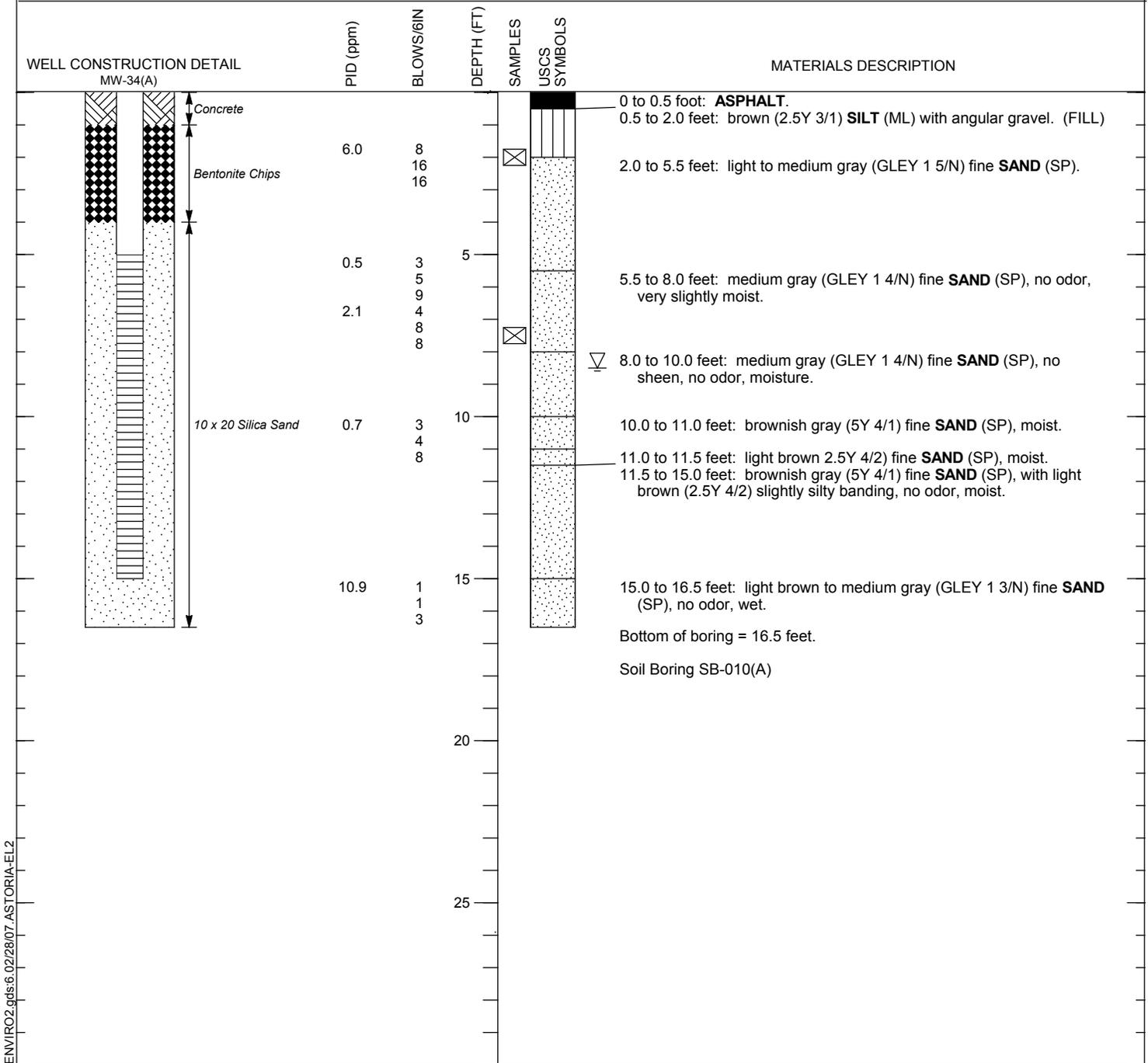


FIGURE B-234

LOG OF
 MONITORING WELL MW-34(A)

Remedial Investigation/Feasibility Study
 Astoria Area-Wide Petroleum Site
 Astoria, Oregon

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/3/2003

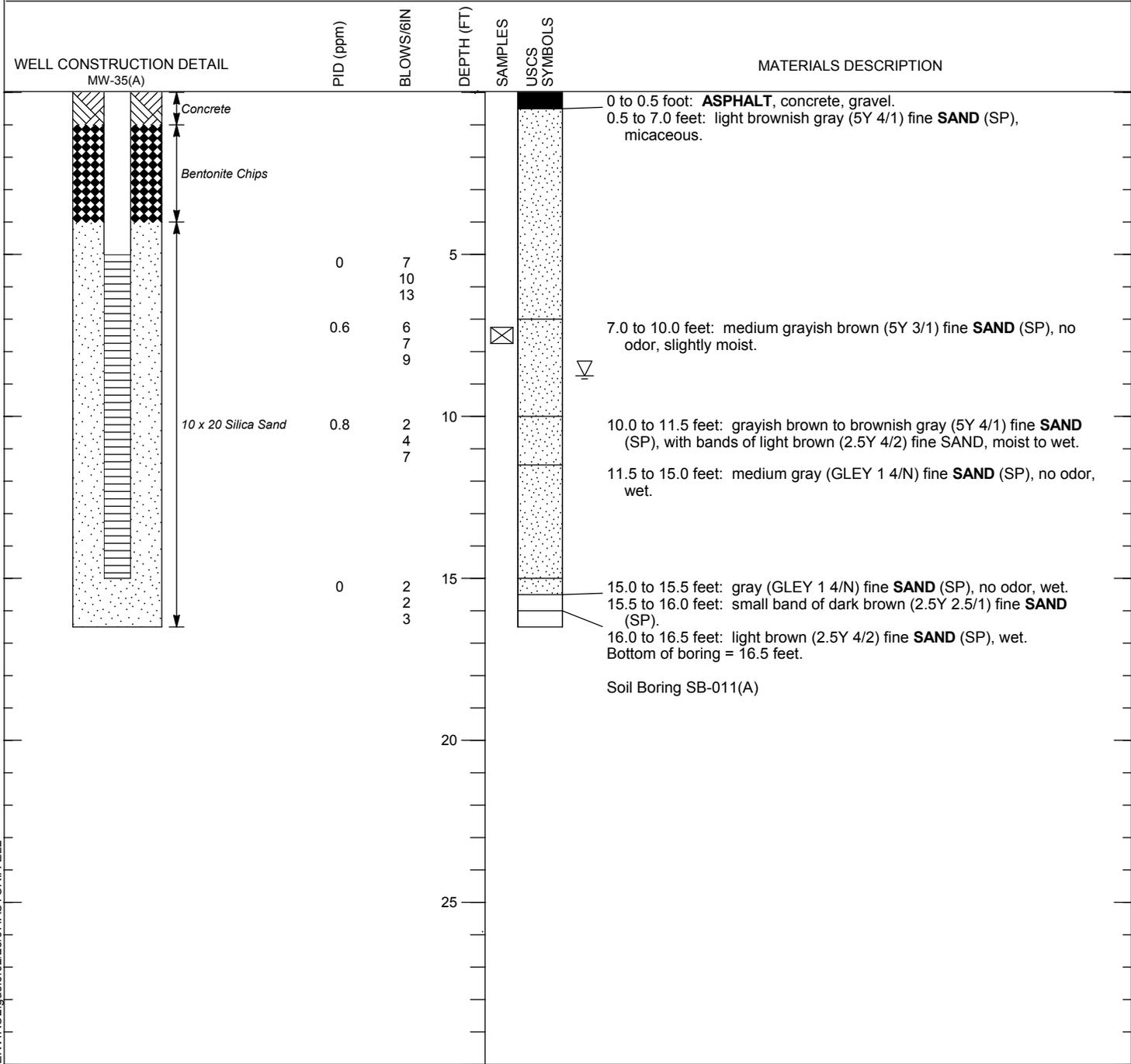


FIGURE B-235

LOG OF
MONITORING WELL MW-35(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/5/2003

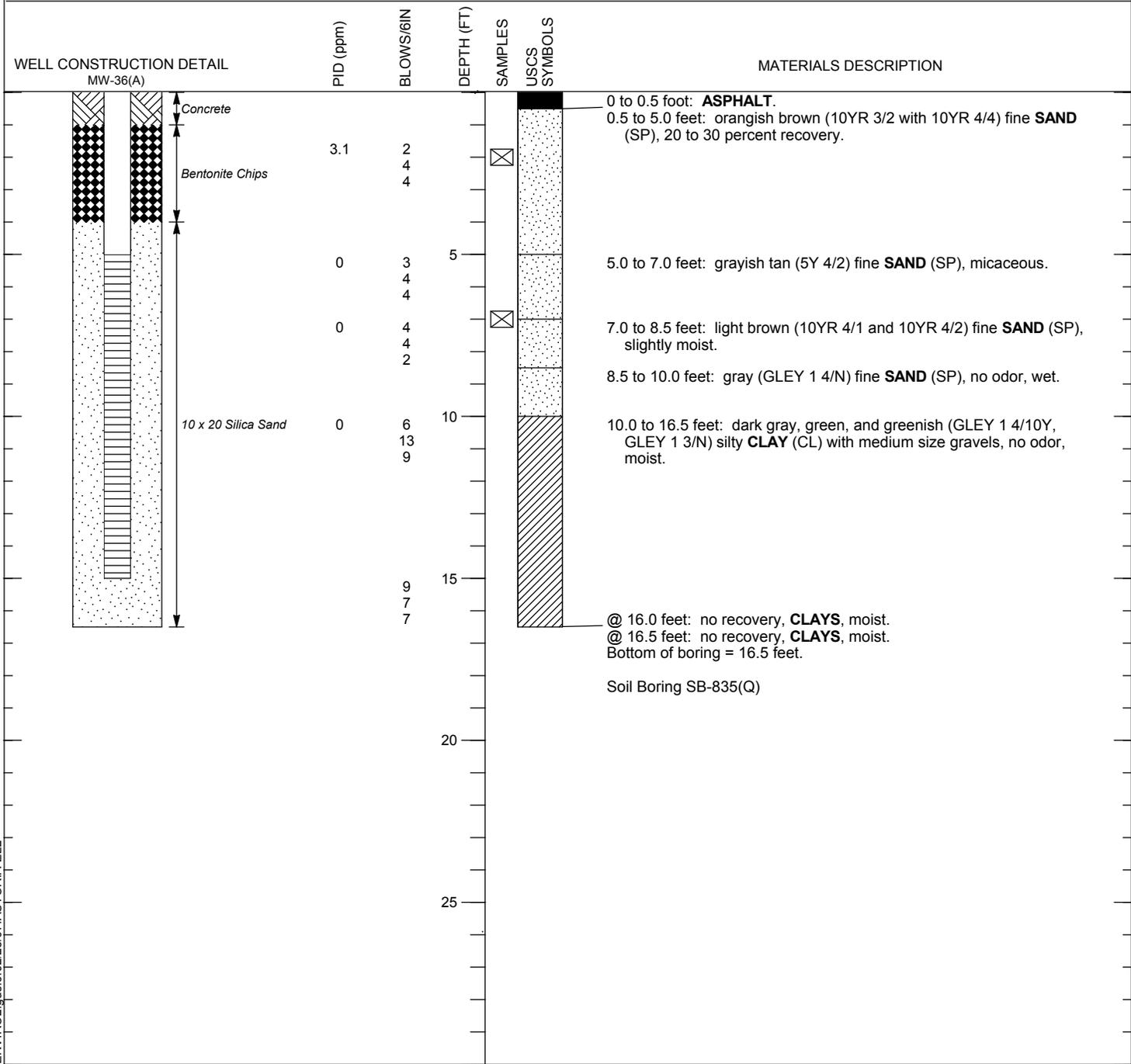


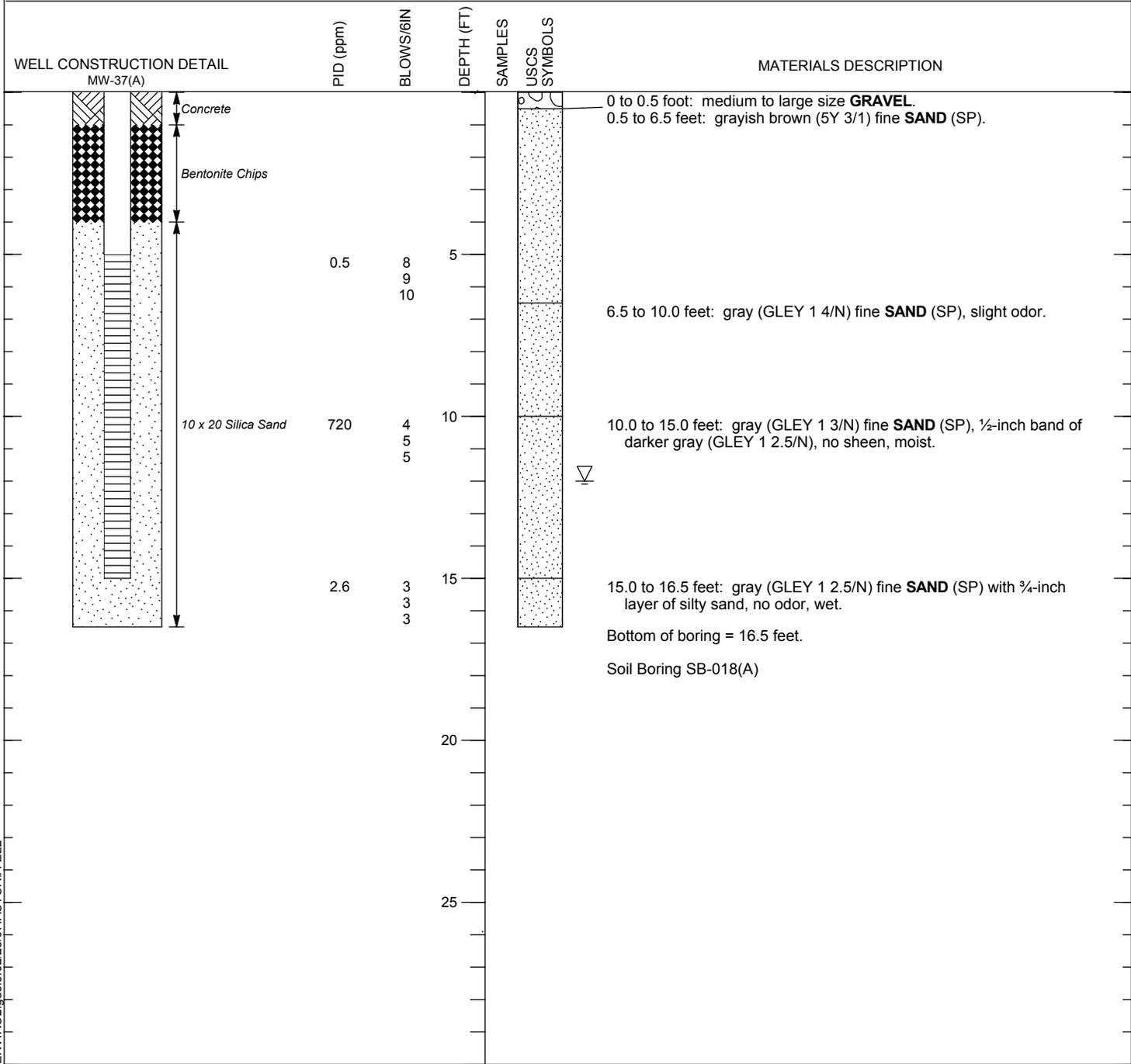
FIGURE B-236

LOG OF
MONITORING WELL MW-36(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2003



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

FIGURE B-237
LOG OF
MONITORING WELL MW-37(A)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/5/2003

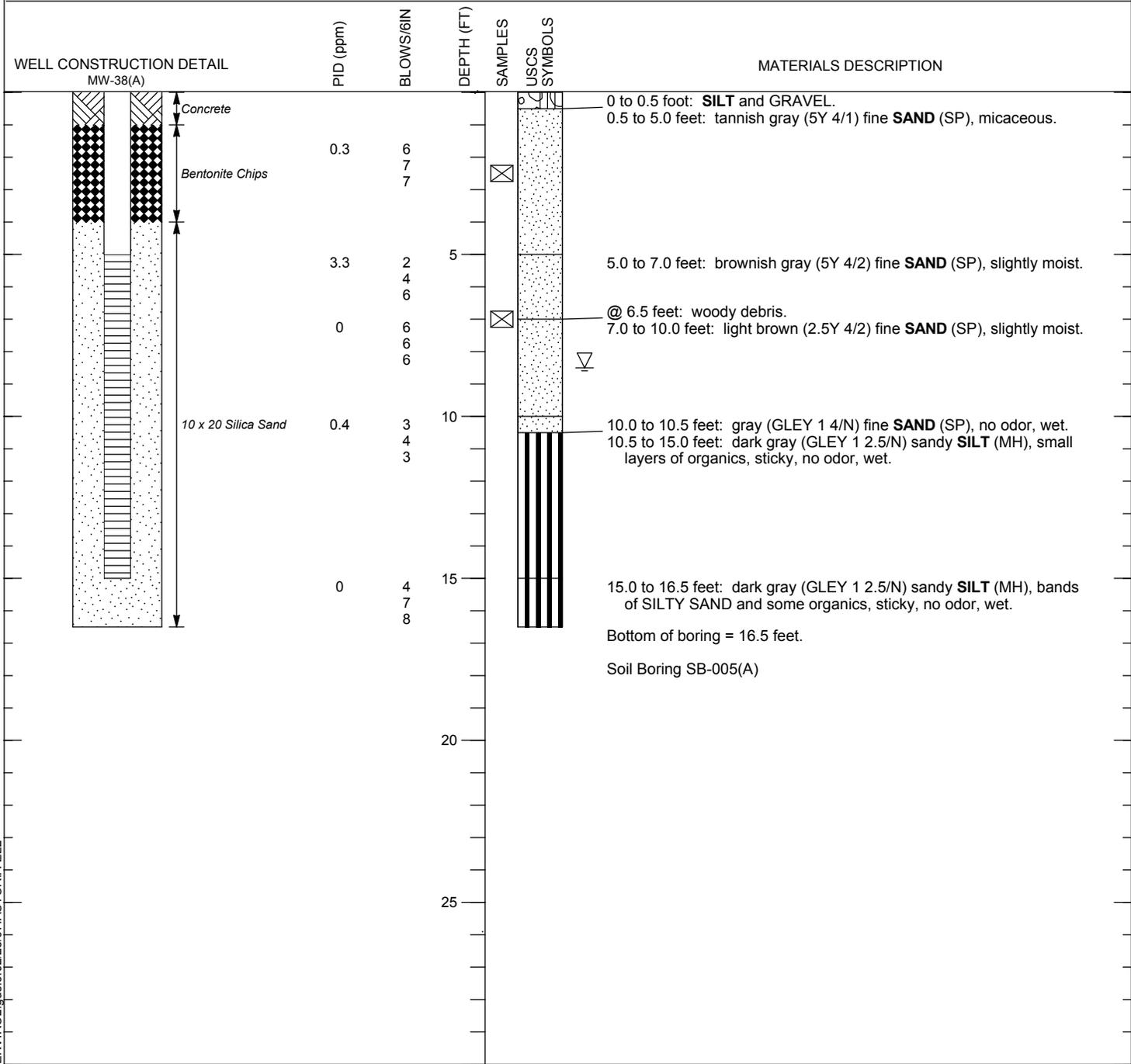


FIGURE B-238

LOG OF
MONITORING WELL MW-38(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2003

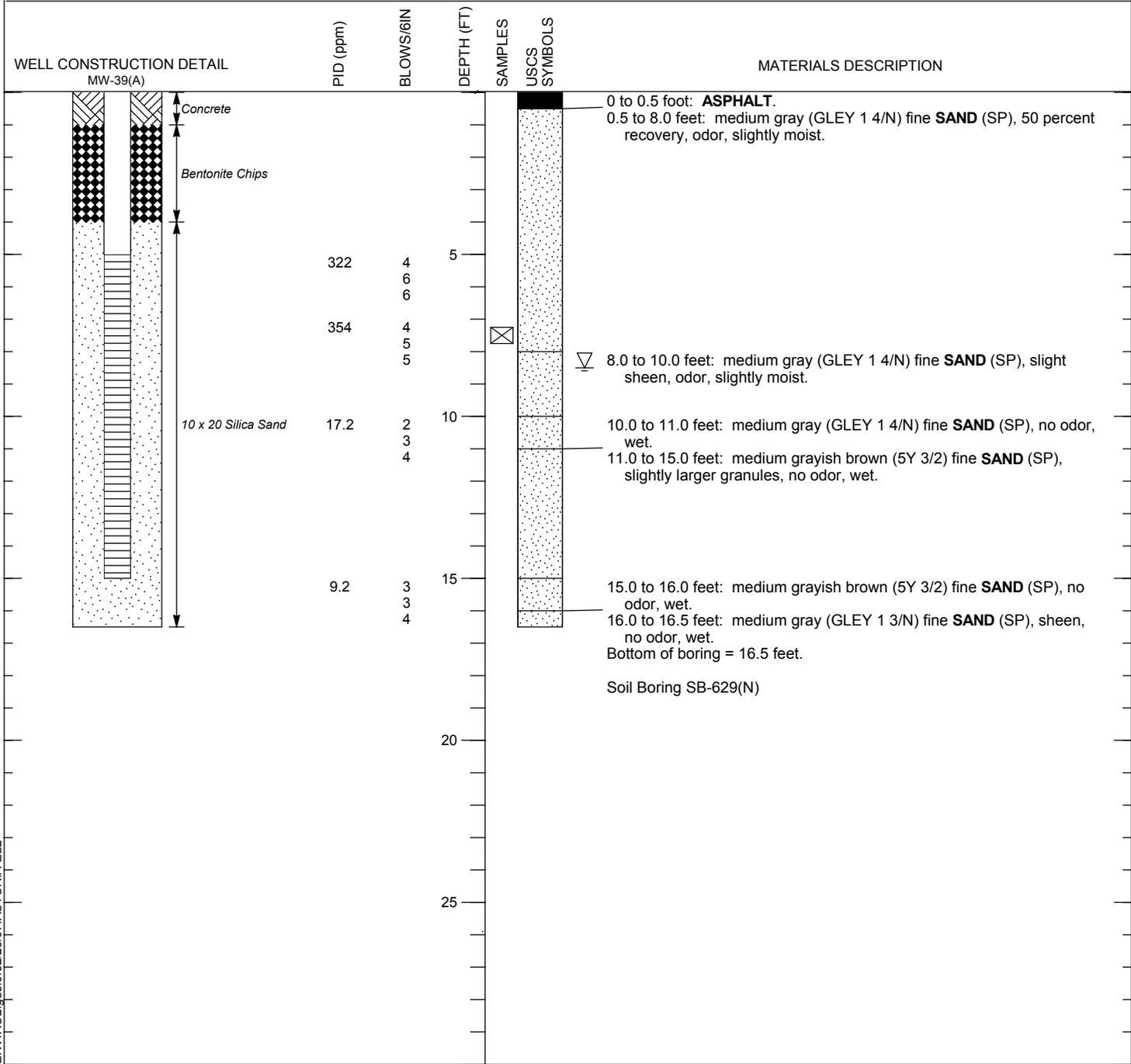


FIGURE B-239

LOG OF
MONITORING WELL MW-39(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2003

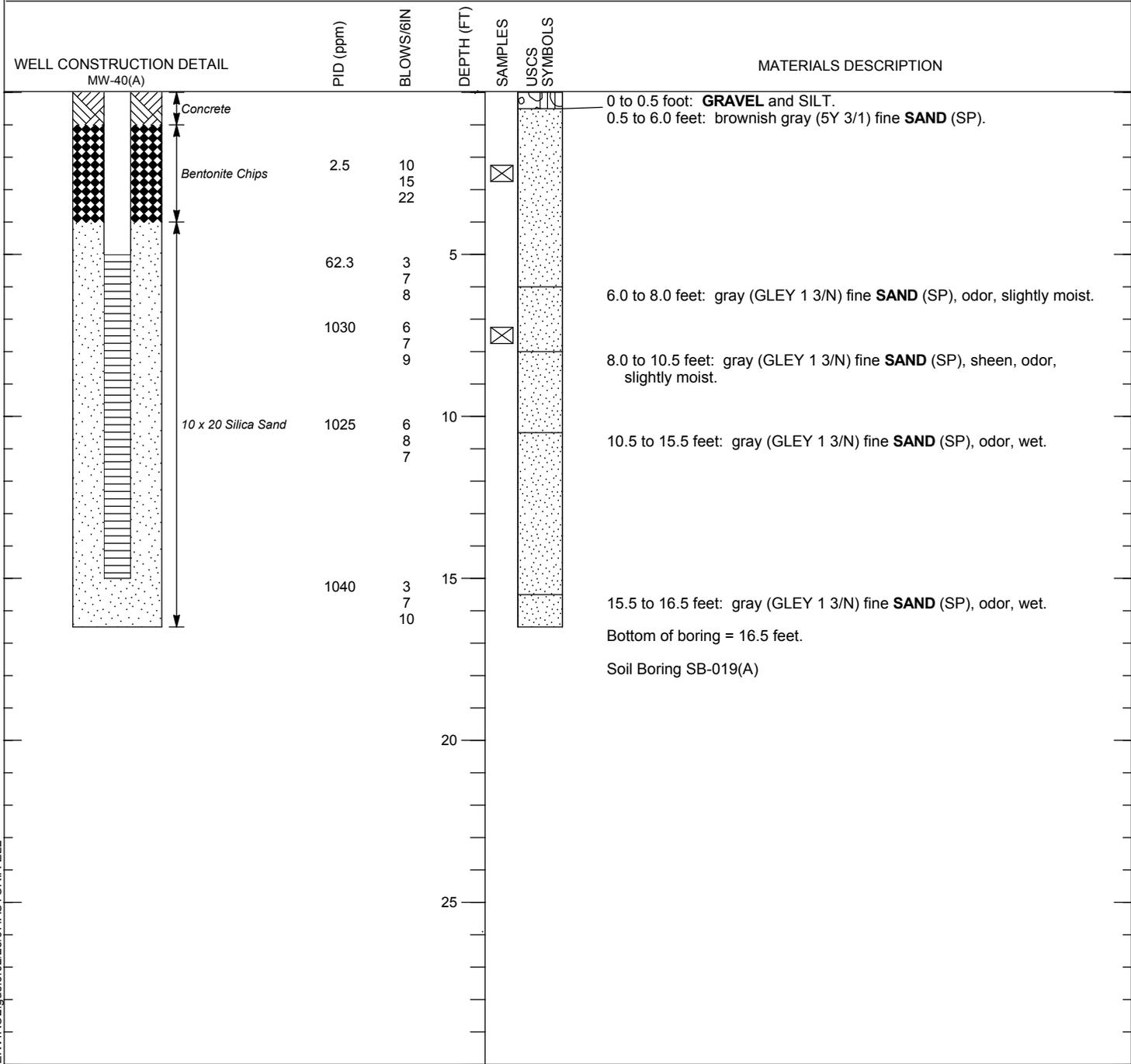


FIGURE B-240
LOG OF
MONITORING WELL MW-40(A)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/27/2003

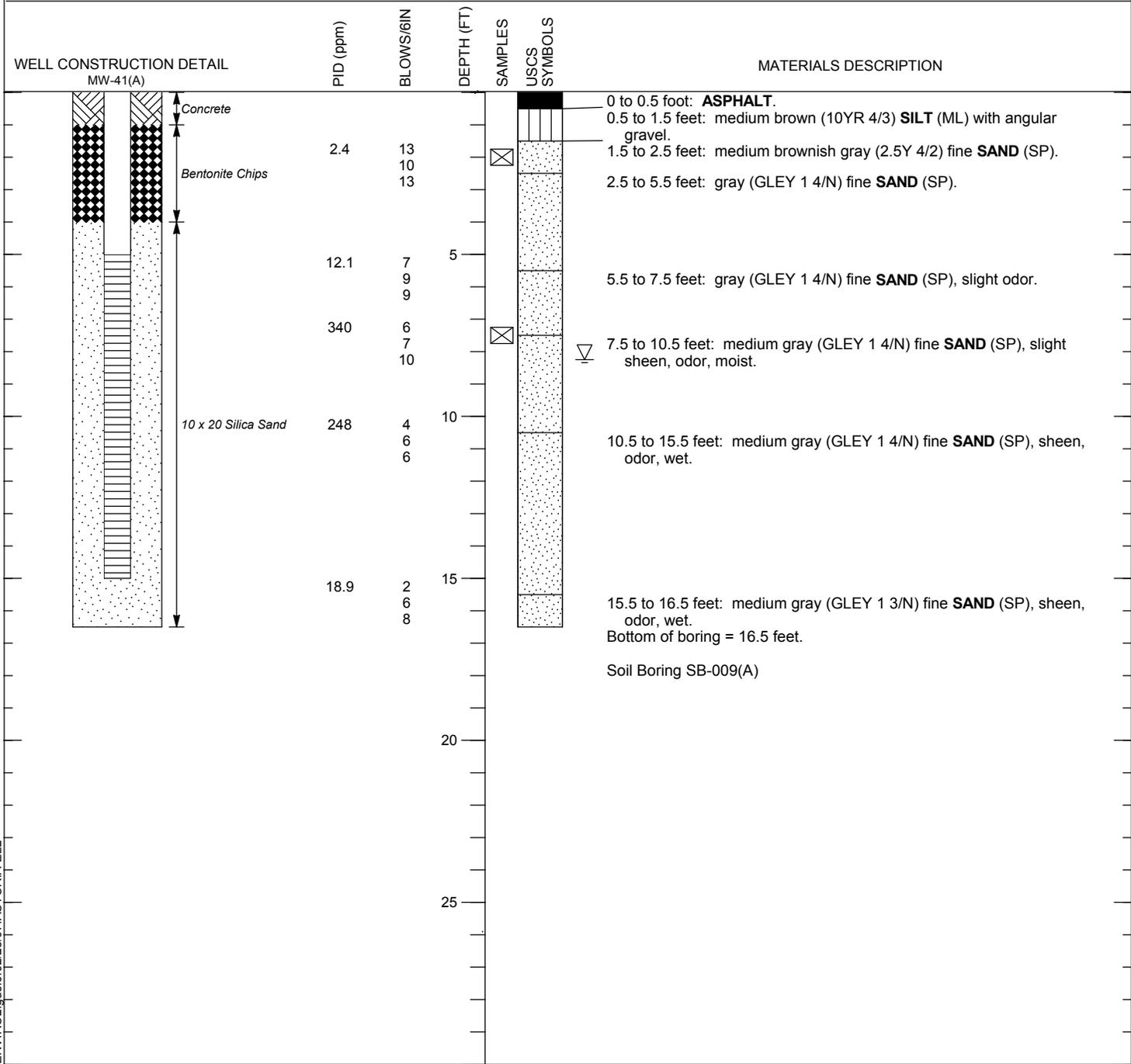


FIGURE B-241
LOG OF
MONITORING WELL MW-41(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2003

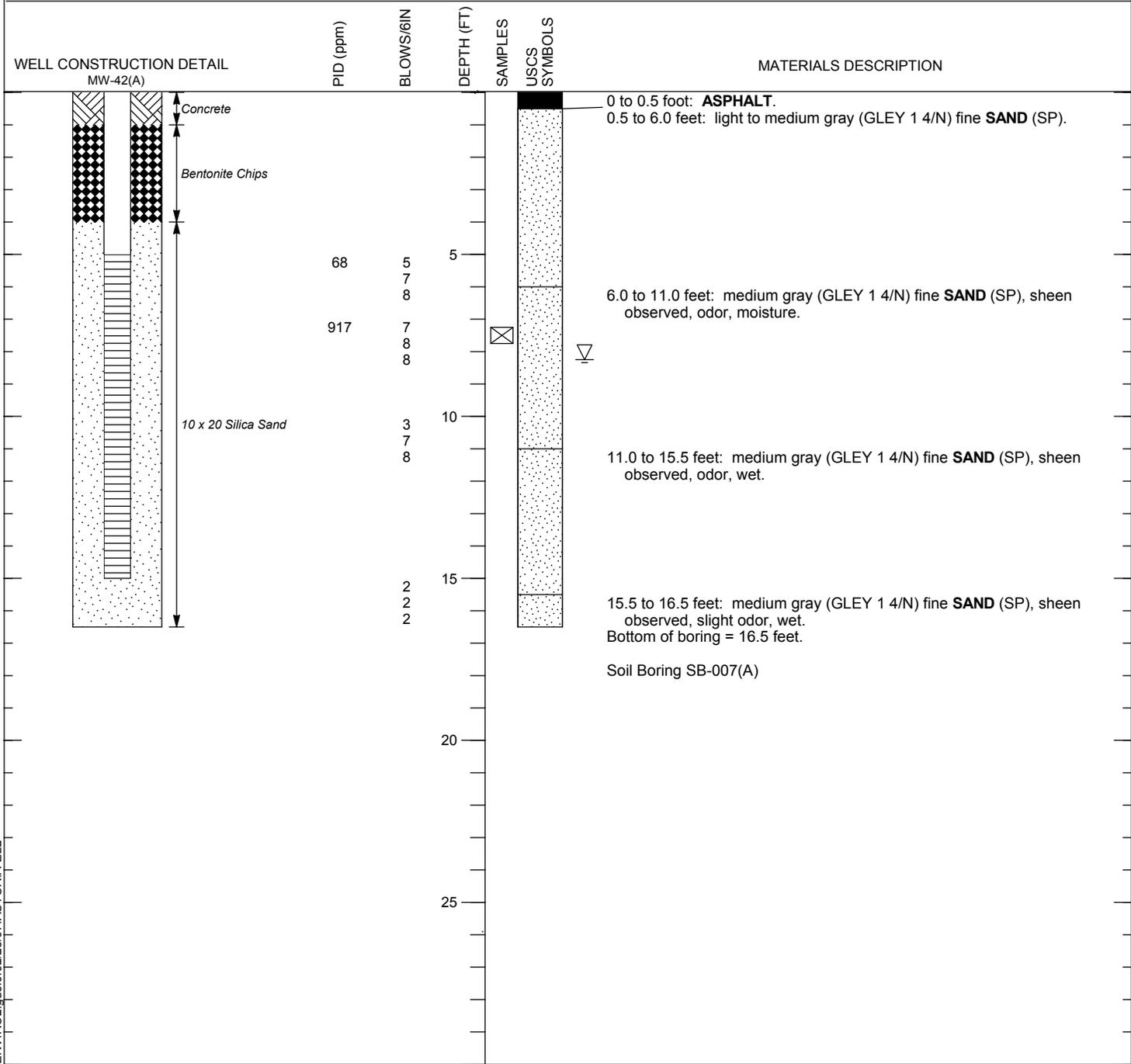
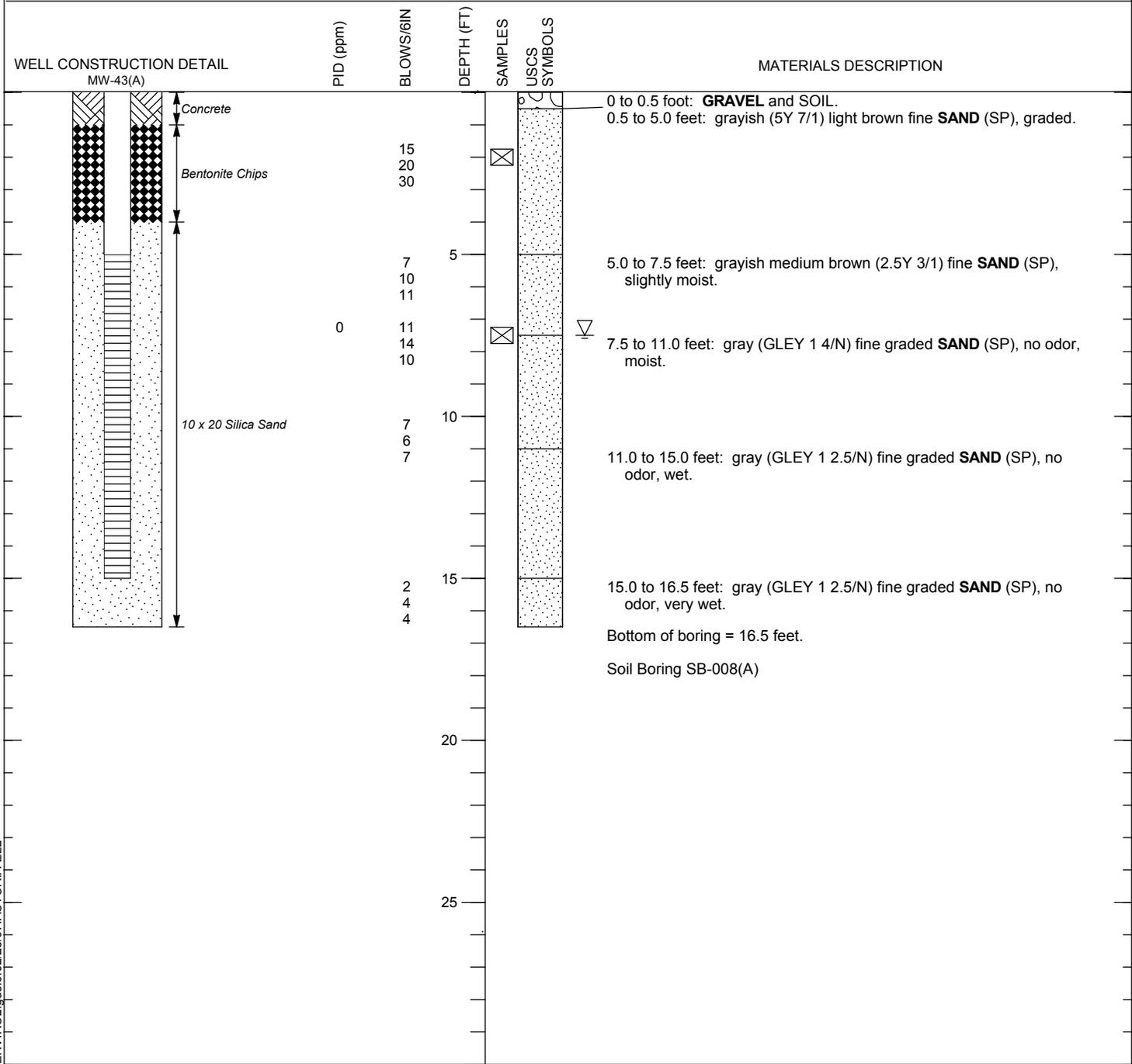


FIGURE B-242
LOG OF
MONITORING WELL MW-42(A)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/26/2003



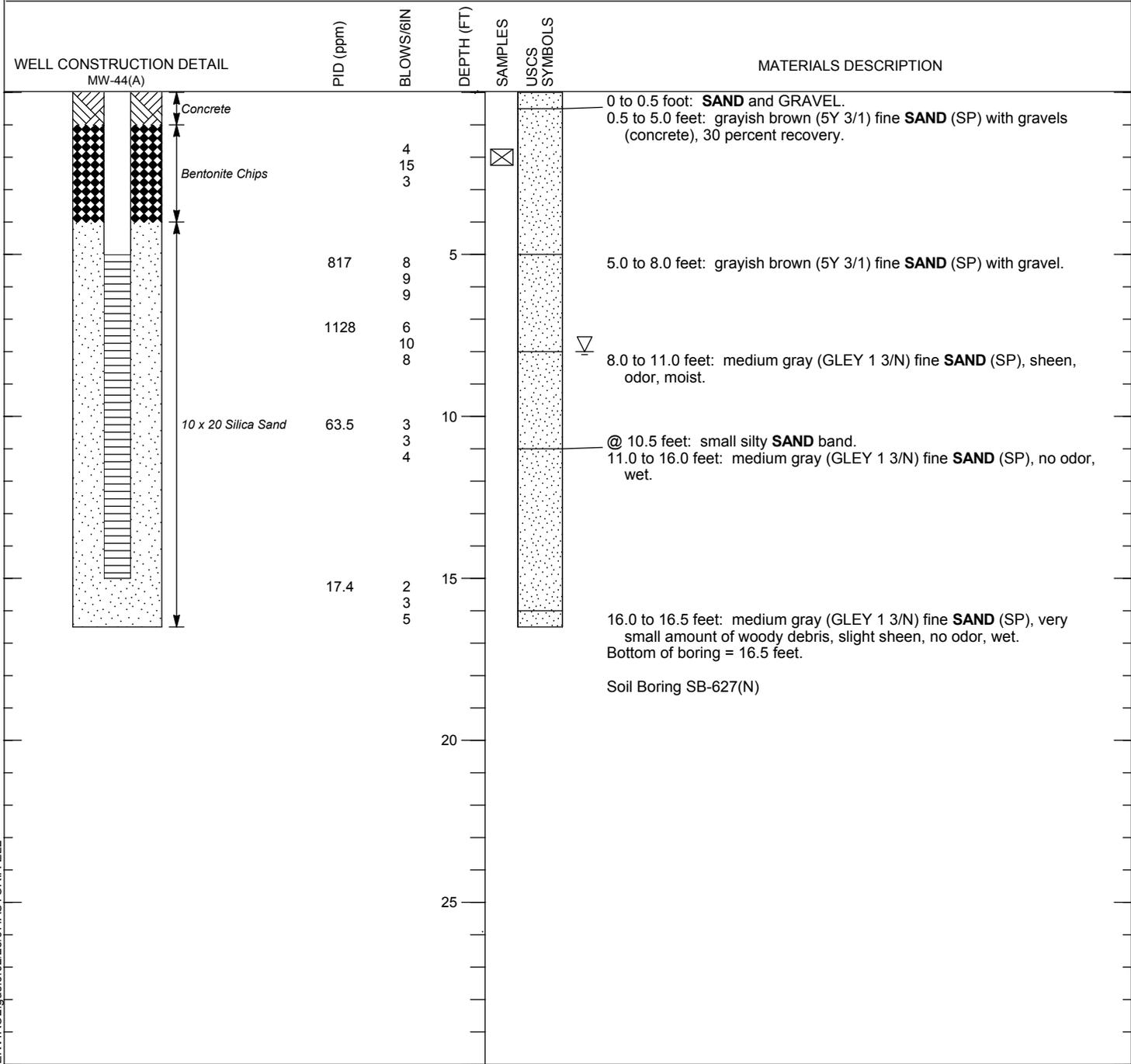
ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

FIGURE B-243
LOG OF
MONITORING WELL MW-43(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2003



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

FIGURE B-244

**LOG OF
MONITORING WELL MW-44(A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	17 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	8/28/2003

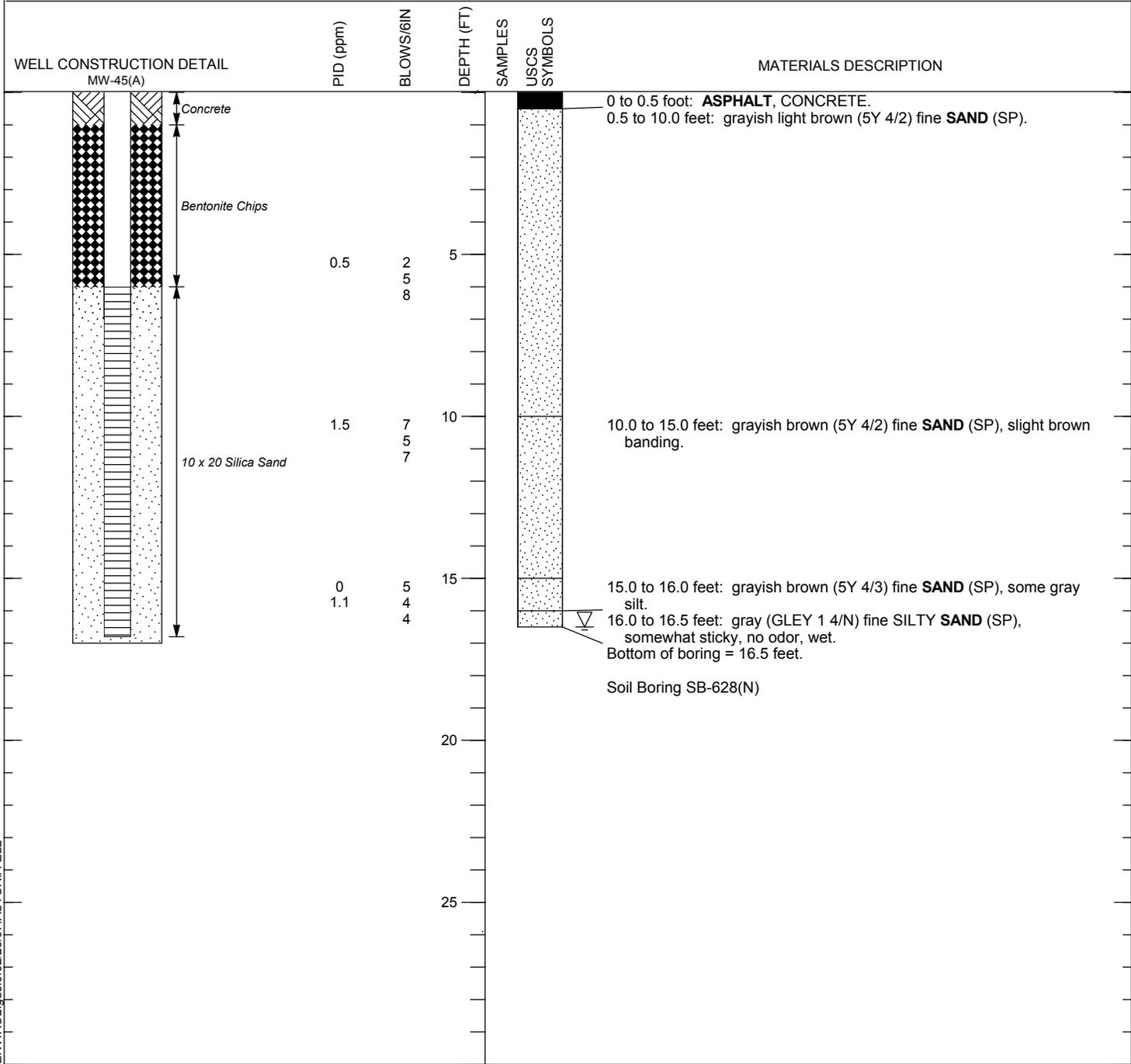


FIGURE B-245
LOG OF
MONITORING WELL MW-45(A)
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/4/2003

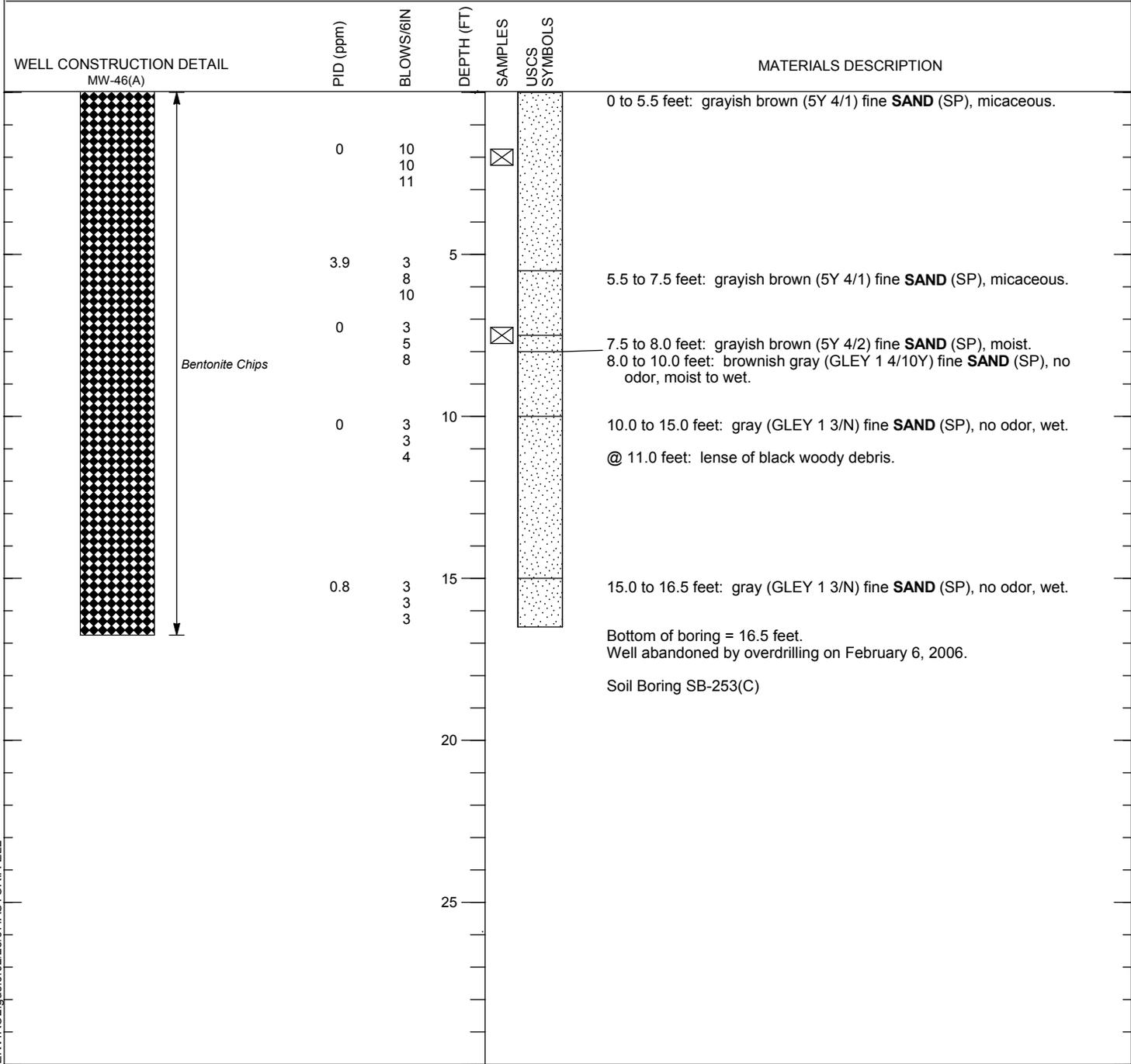


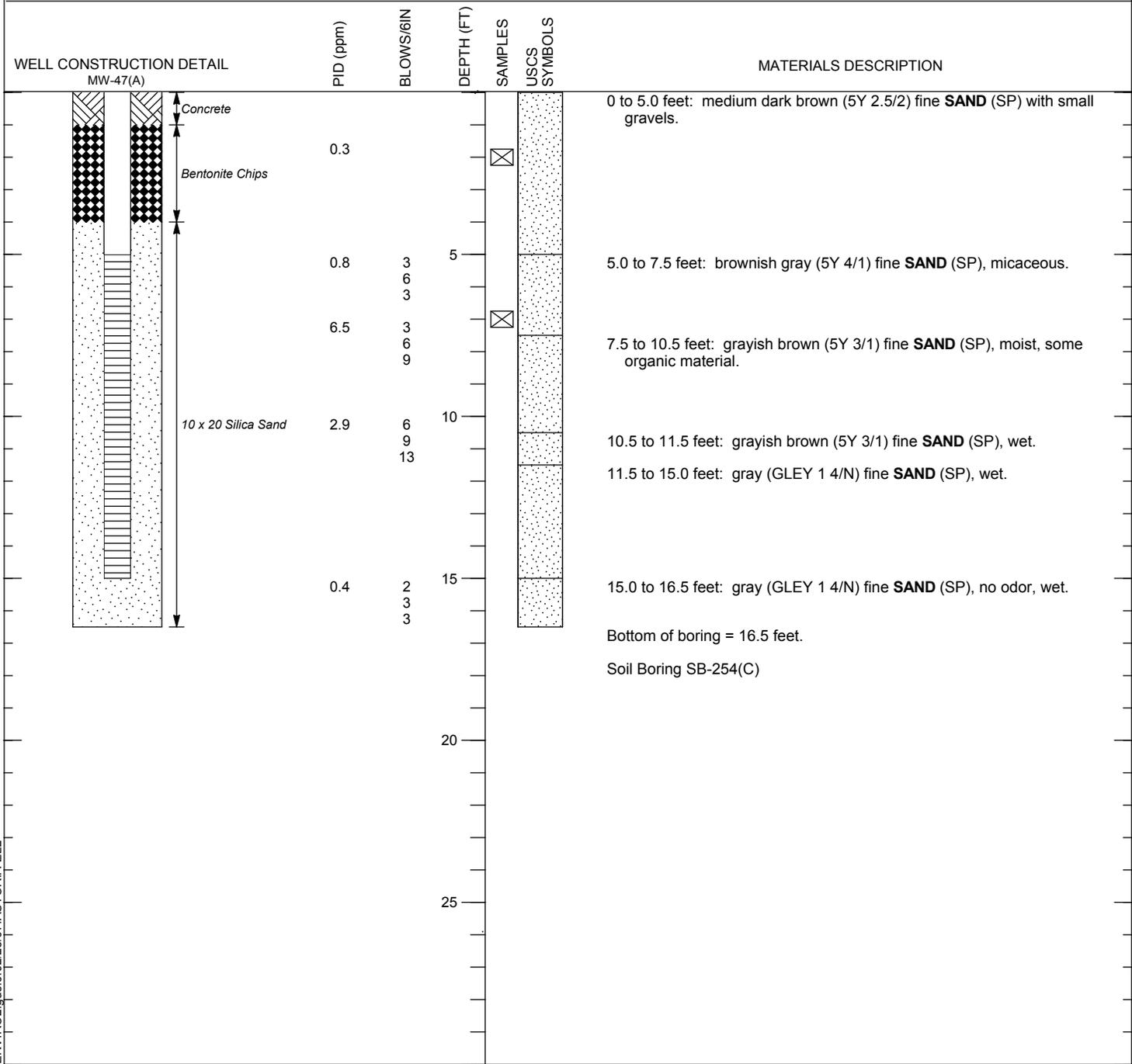
FIGURE B-246

LOG OF
MONITORING WELL MW-46(A)

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/4/2003



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

FIGURE B-247

**LOG OF
MONITORING WELL MW-47(A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	16.5 feet
LOCATION	Astoria, Oregon	SURFACE ELEVATION	
JOB NUMBER	10077.004	REFERENCE POINT ELEVATION	
LOGGED BY	Melanie Bocianowski	REFERENCE POINT DESCRIPTION	
DRILLING METHOD	Hollow-stem Auger	DATUM	
DRILLING COMPANY	Geo-Tech Explorations, Inc.	DATE STARTED	9/4/2003

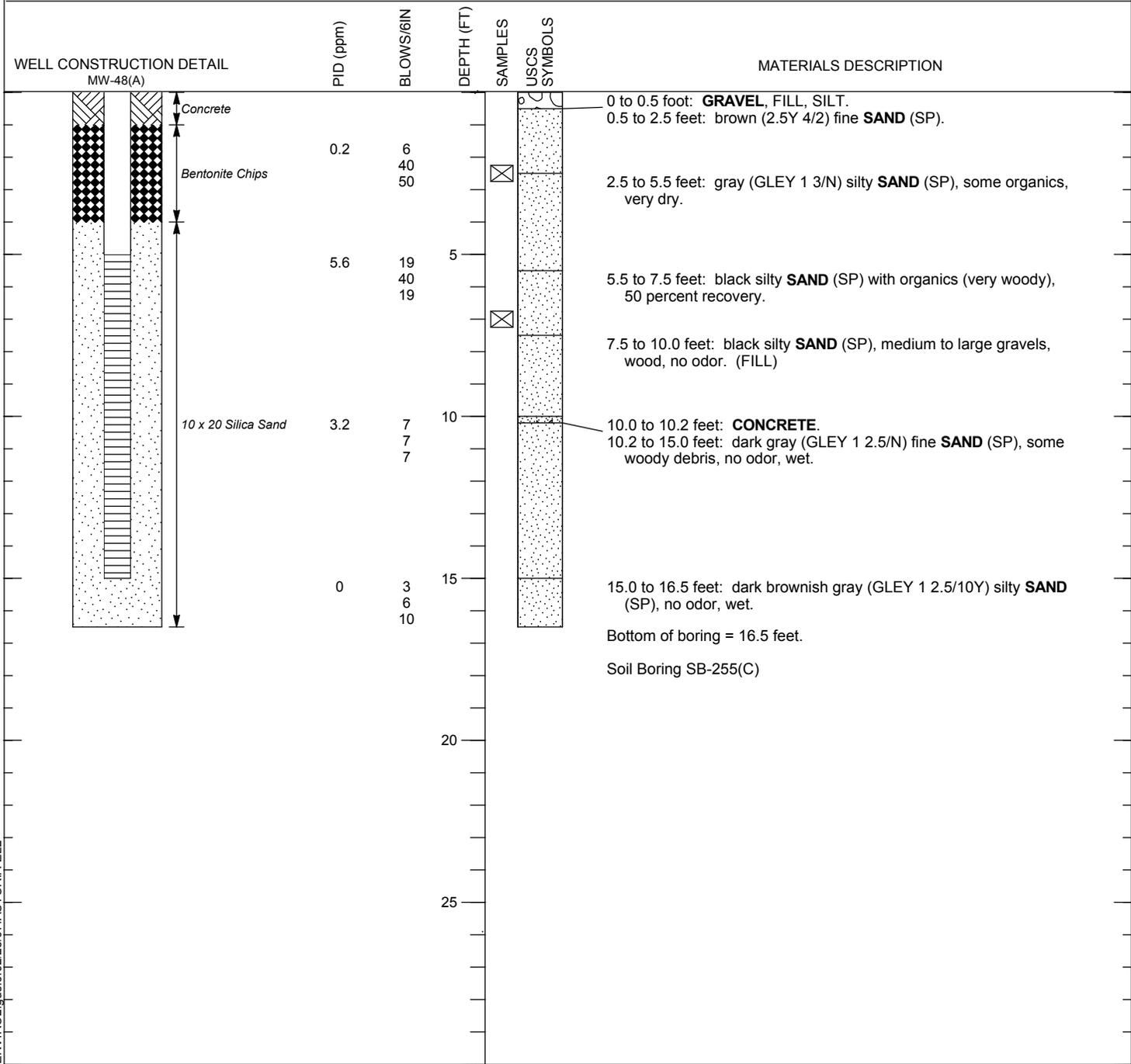


FIGURE B-248

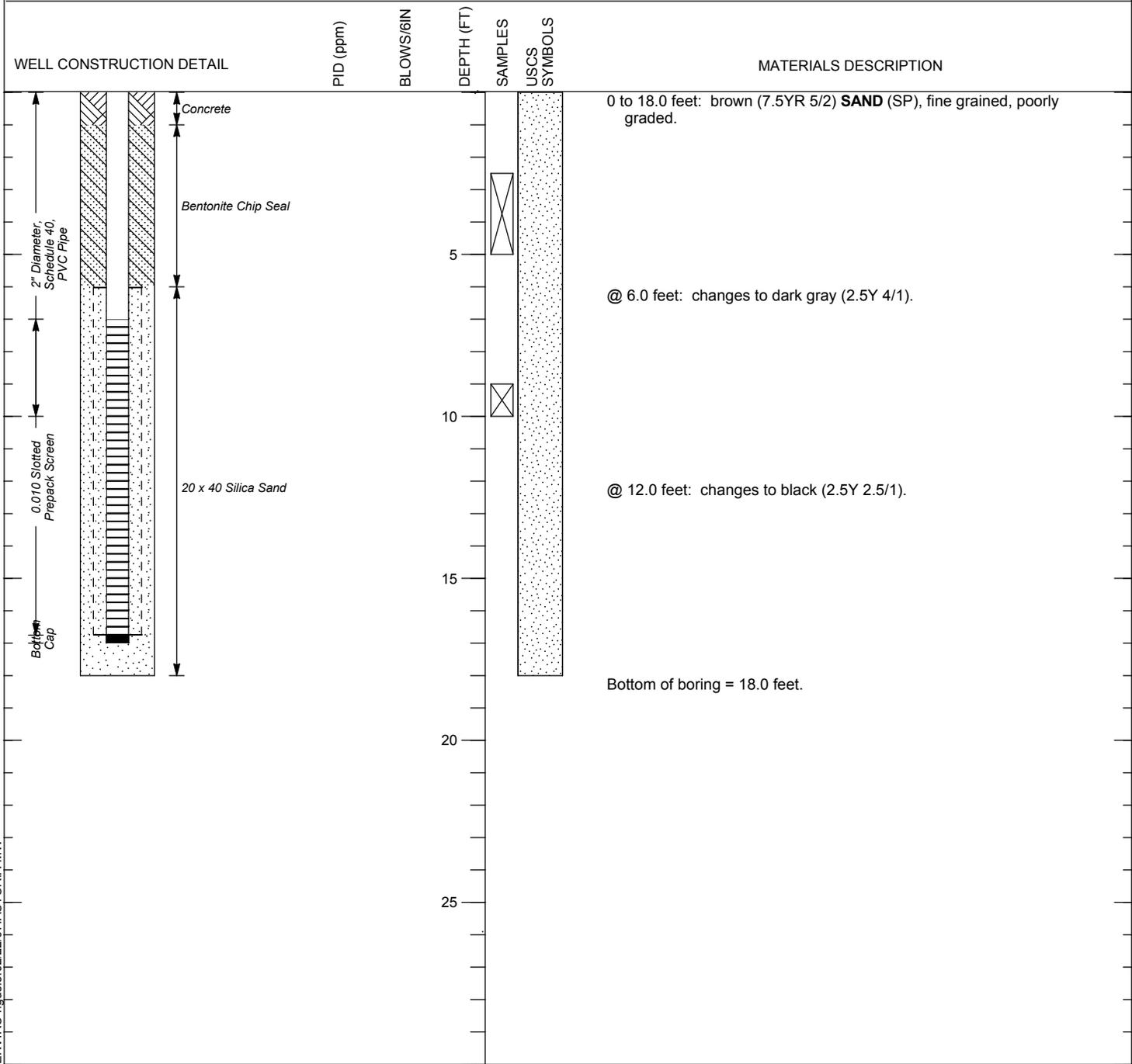
LOG OF MONITORING WELL MW-48(A)

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



ENVIRO2.qds:6.02/28/07.ASTORIA-EL2

PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	18 feet
LOCATION	Pier 2	SURFACE ELEVATION	16.67
JOB NUMBER	10077.011	TOP OF CASING ELEVATION	16.43
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	DATUM
DRILLING METHOD	GeoProbe	DATE STARTED	9/15/2005
DRILLING COMPANY	Boart Longyear		



ENVIRO4.gds:5.02/22/07.ASTORIA-MW

FIGURE B-249

**LOG OF
MONITORING WELL MW-49 (A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	18 feet
LOCATION	Pier 2	SURFACE ELEVATION	16.49
JOB NUMBER	10077.011	TOP OF CASING ELEVATION	16.32
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	DATUM
DRILLING METHOD	GeoProbe	DATE STARTED	9/15/2005
DRILLING COMPANY	Boart Longyear		

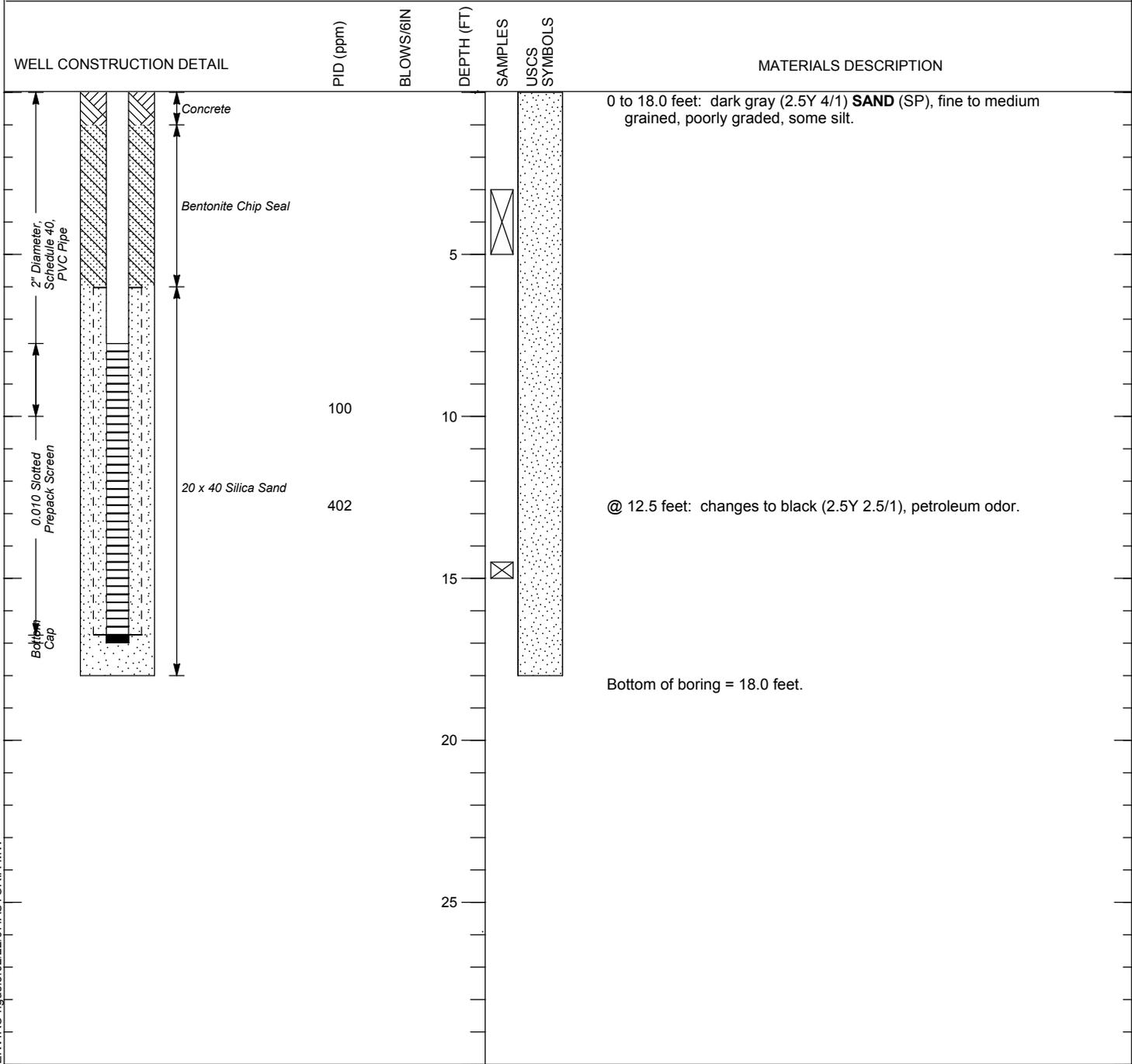


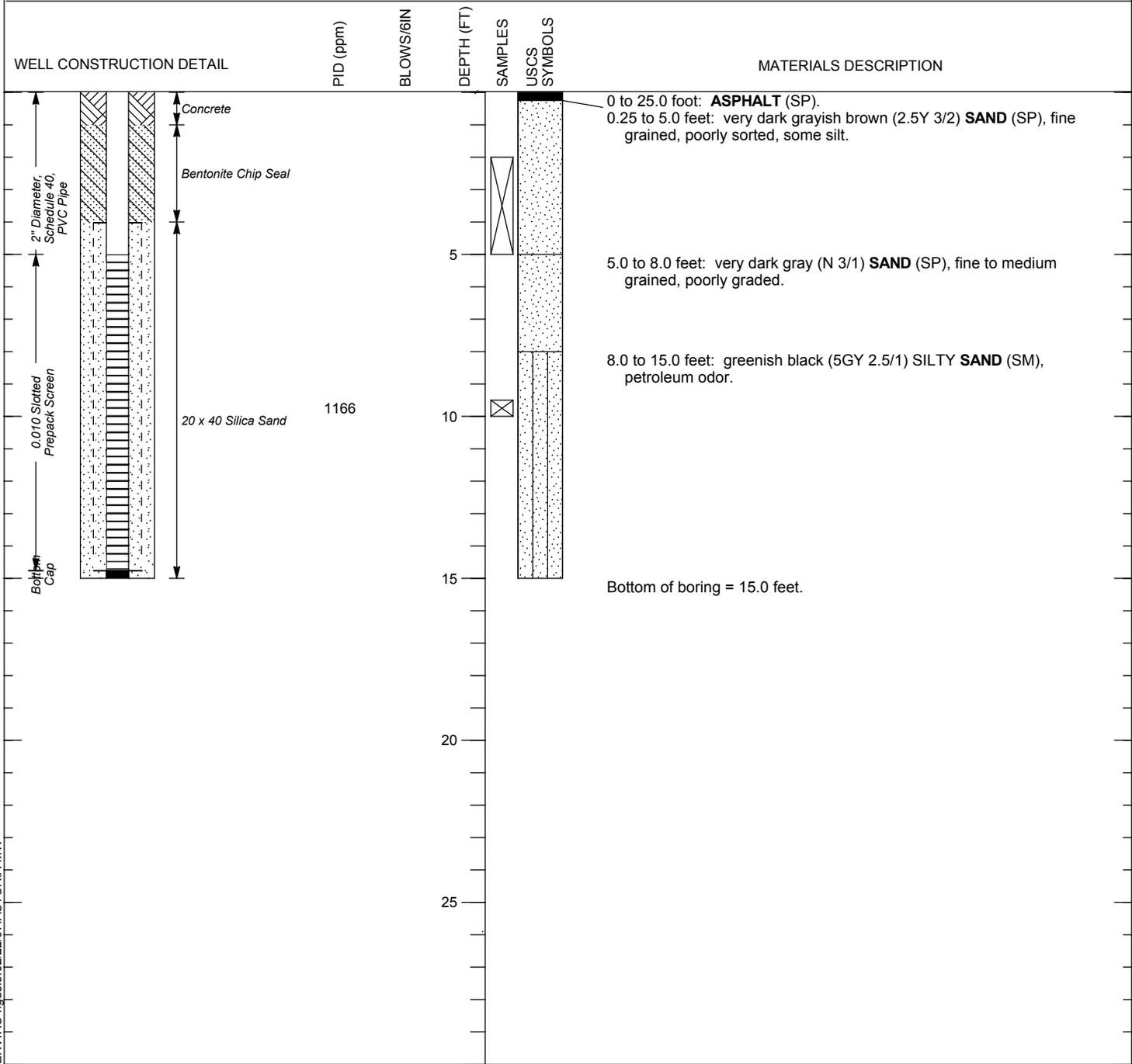
FIGURE B-250

**LOG OF
MONITORING WELL MW-50 (A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



PROJECT	Astoria Area-Wide Petroleum Site	TOTAL DEPTH	15 feet
LOCATION	Former Mobil/Niemi Bulk Plant	SURFACE ELEVATION	16.56
JOB NUMBER	10077.011	TOP OF CASING ELEVATION	16.52
LOGGED BY	Rachel Wallack	REFERENCE POINT DESCRIPTION	DATUM
DRILLING METHOD	GeoProbe	DATE STARTED	9/15/2005
DRILLING COMPANY	Boart Longyear		



ENVIRO4.gds:5.02/22/07.ASTORIA-MW

FIGURE B-251

**LOG OF
MONITORING WELL MW-51 (A)**

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**



Key to Exploration Logs

Sample Descriptions

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, and grain size, 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. Color was described using the Munsel System.

Soil descriptions consist of the following:

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

Density/Consistency

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

SAND and GRAVEL	Standard Penetration Resistance in Blows/Foot	SILT or CLAY	Standard Penetration Resistance in Blows/Foot	Approximate Shear Strength in TSF
Density		Density		
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 Symbols

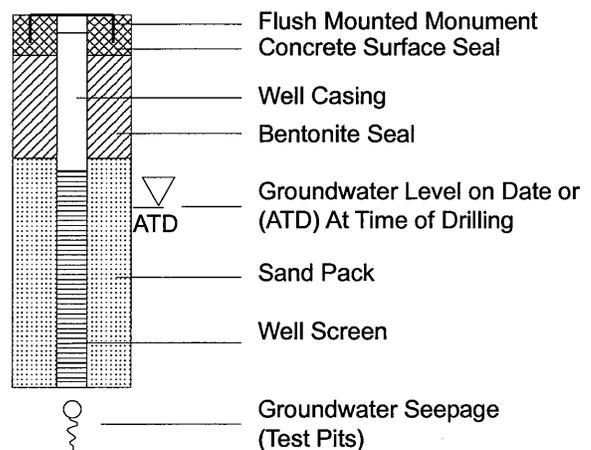
BORING AND PUSH PROBE SYMBOLS

-  Split Spoon
-  Tube (Shelby, Push Probe)
-  Cuttings
-  Core Run
-  Temporarily Screened Interval
- N Standard Penetration Resistance
- * No Sample Recovery
- PID Photoionization Detector Reading

TEST PIT SOIL SAMPLES

-  Grab (Jar)
-  Bag
-  Shelby Tube

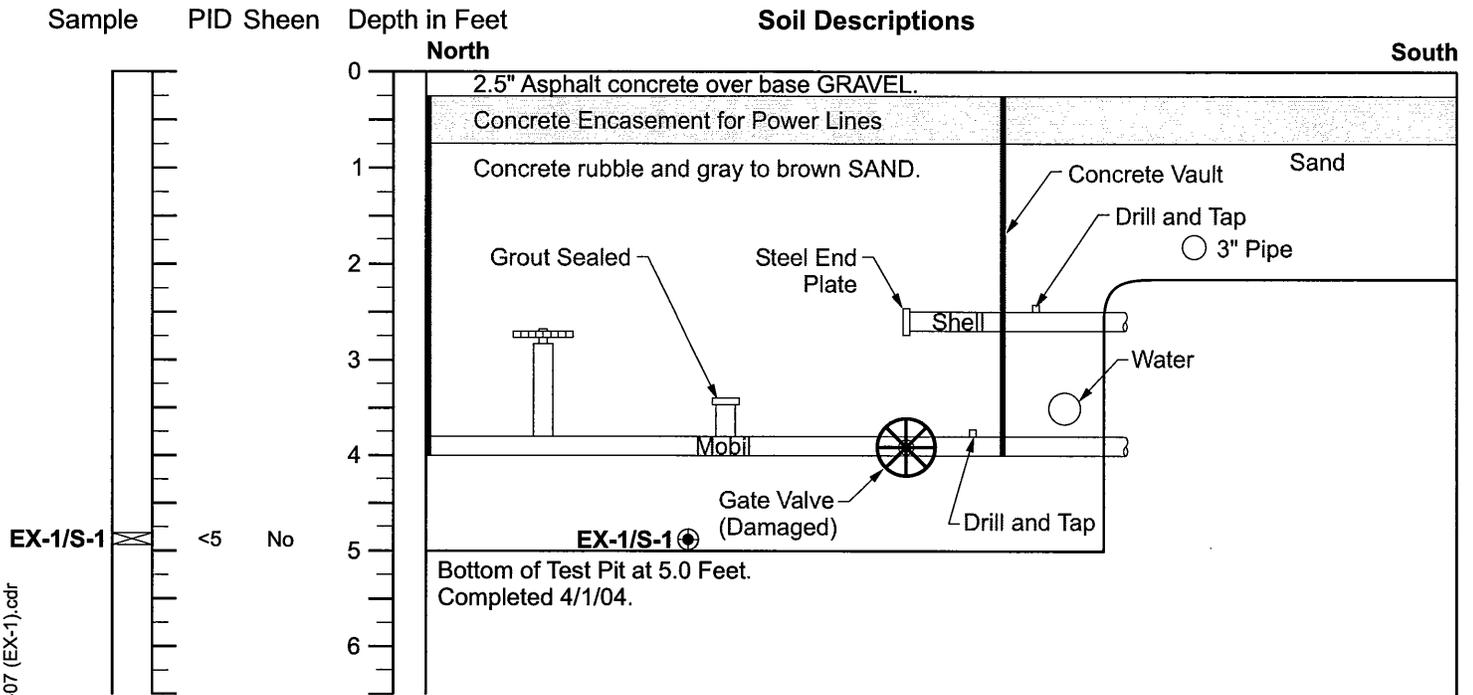
Groundwater Observations and Monitoring Well Construction



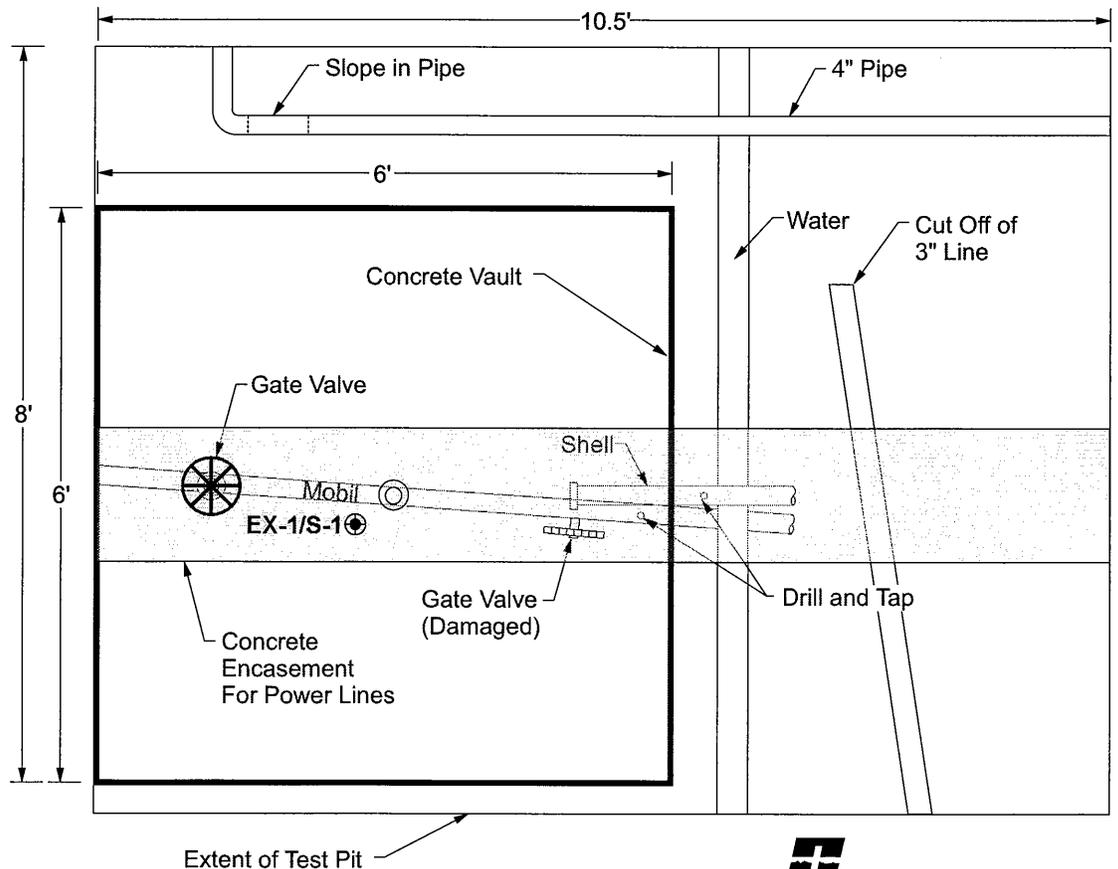
Test Pit EX-1

Historical Shell/Niemi/Mobil Pipeline Investigation

Astoria Area Wide Petroleum Site, Astoria, Oregon



Test Pit EX-1 Plan View

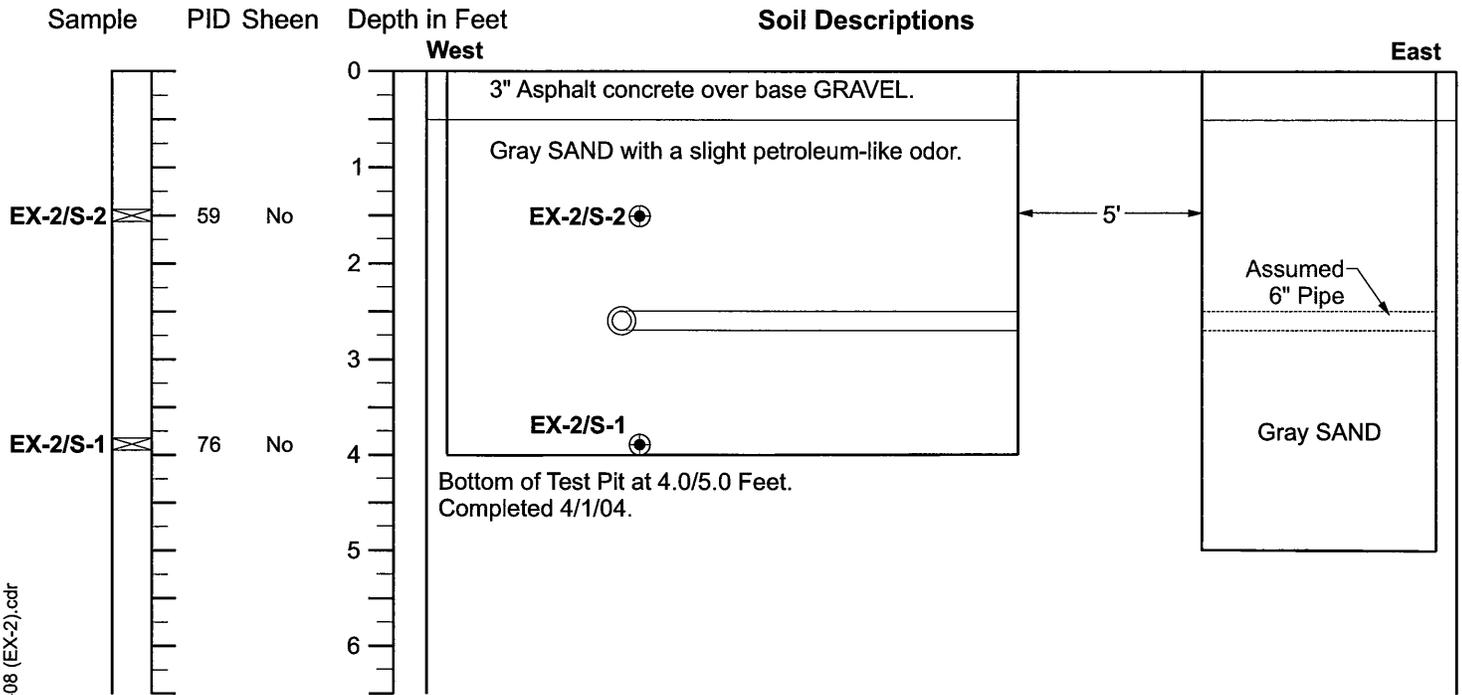


Notes:

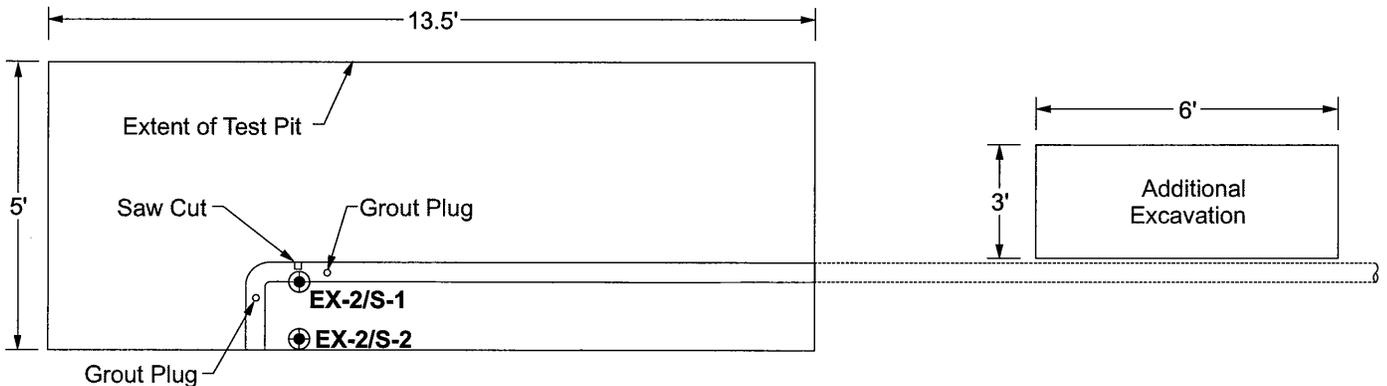
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, was at time of test pit exploration. Level may vary with time.

F:\DATA\Jobs\Shell\15227 Astoria Bulk Terminal\Pipeline Investigation\Report\Figures\Test Pits\1522700 A-07 (EX-1).cdr

Test Pit EX-2
Historical Shell/Niemi/Mobil Pipeline Investigation
Astoria Area Wide Petroleum Site, Astoria, Oregon



Test Pit EX-2 Plan View

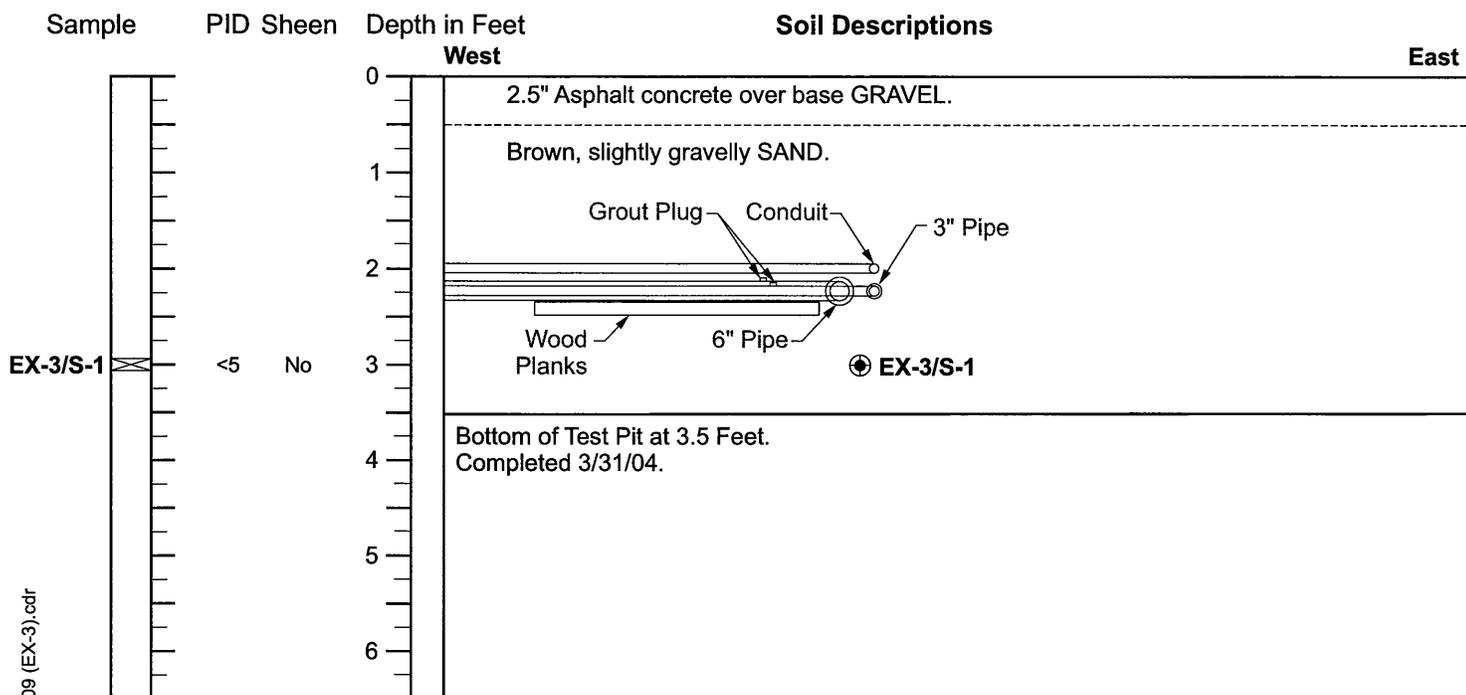


Notes:

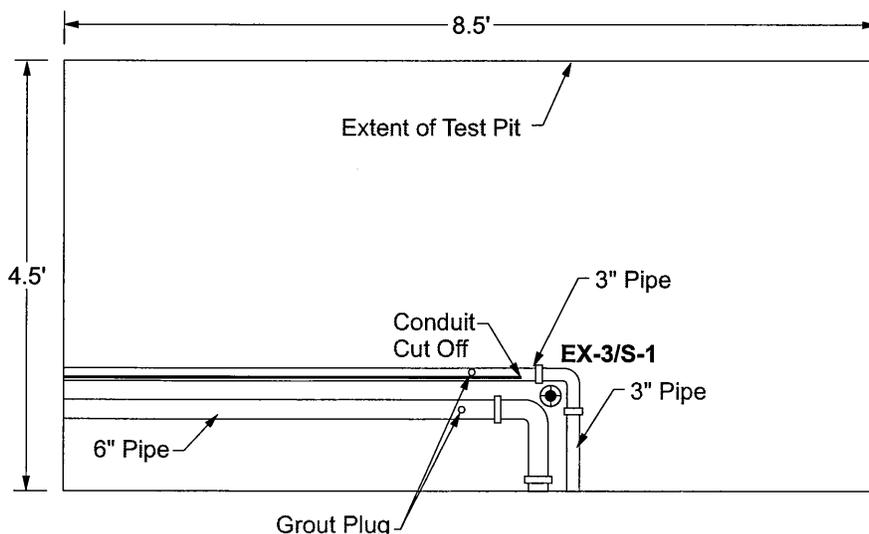
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, was at time of test pit exploration. Level may vary with time.

F:\DATA\Jobs\Shell\15227 Astoria Bulk Terminal\Pipeline Investigation\Report\Figures\Test Pits\1522700 A-08 (EX-2).cdr

Test Pit EX-3
Historical Shell/Niemi/Mobil Pipeline Investigation
Astoria Area Wide Petroleum Site, Astoria, Oregon



Test Pit EX-3 Plan View

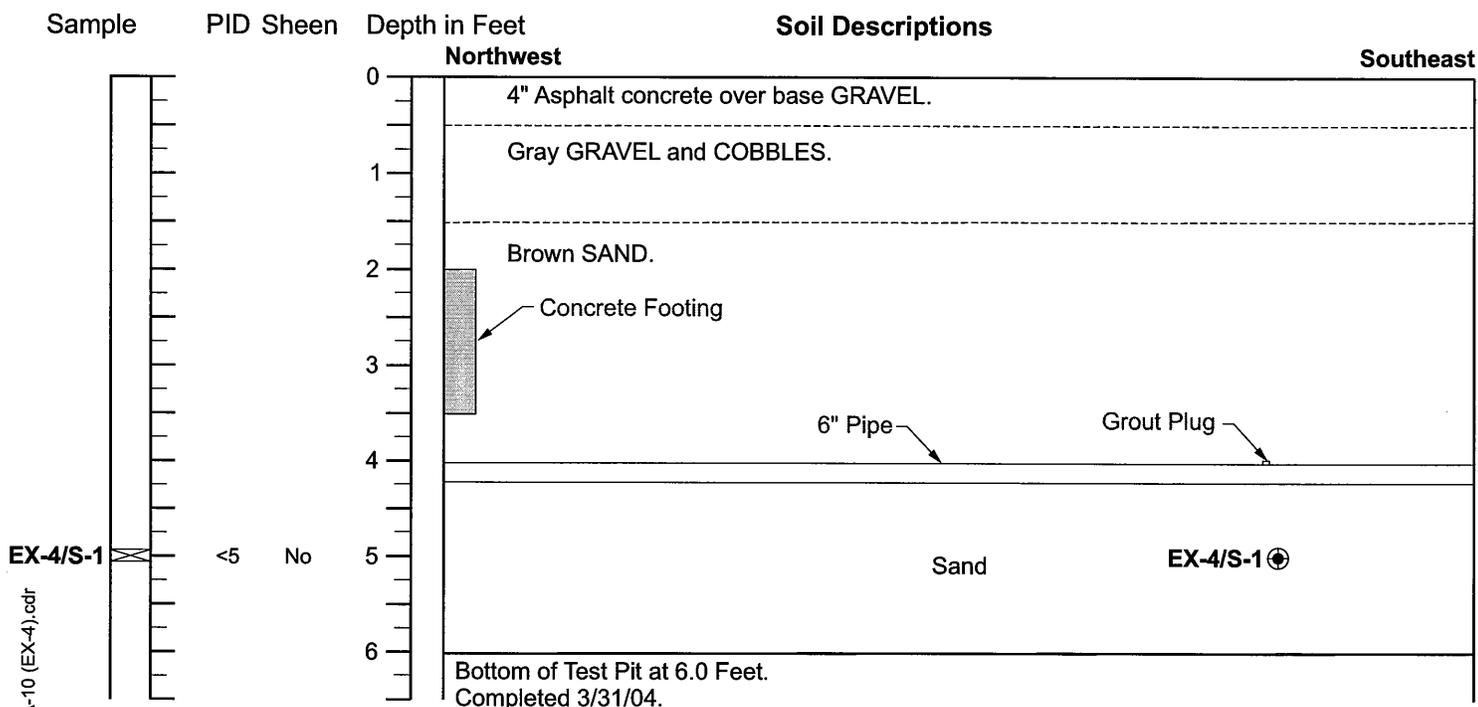


Notes:

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, was at time of test pit exploration. Level may vary with time.

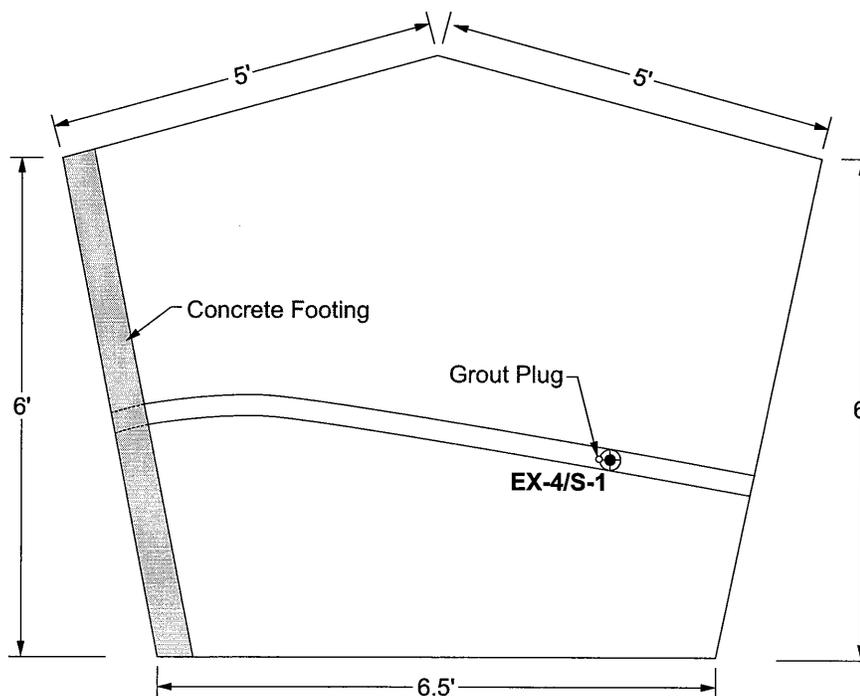
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Test Pit EX-4
Historical Shell/Niemi/Mobil Pipeline Investigation
Astoria Area Wide Petroleum Site, Astoria, Oregon



F:\DATA\Jobs\Shell\15227 Astoria Bulk Terminal\Pipeline Investigation\Report\Figures\Test Pits\1522700 A-10 (EX-4).cdr

Test Pit EX-4 Plan View



Notes:

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, was at time of test pit exploration. Level may vary with time.