

APPENDIX A1
Boring Logs and Well Installation Diagrams
(2019-2020 Investigation)

KEY TO EXP. LOGS (SOIL ONLY) - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2\1921 10.32 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCK\LOGS.GPJ - mschwelzer

Sample Description

Identification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. ASTM D 2488 visual-manual identification methods were used as a guide. Where laboratory testing confirmed visual-manual identifications, then ASTM D 2487 was used to classify the soils.

Relative Density/Consistency

Soil density/consistency in borings is related primarily to the standard penetration resistance (N). Soil density/consistency in test pits and probes is estimated based on visual observation and is presented parenthetically on the logs.

SAND or GRAVEL Relative Density	N (Blows/Foot)	SILT or CLAY Consistency	N (Blows/Foot)
Very loose	0 to 4	Very soft	0 to 1
Loose	5 to 10	Soft	2 to 4
Medium dense	11 to 30	Medium stiff	5 to 8
Dense	31 to 50	Stiff	9 to 15
Very dense	>50	Very stiff	16 to 30
		Hard	>30

Moisture

Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

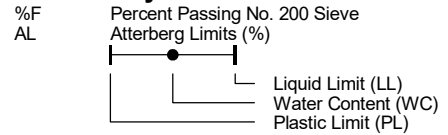
USCS Soil Classification Chart (ASTM D 2487)

Major Divisions		Symbols		Typical Descriptions
		Graph	USCS	
Coarse Grained Soils More than 50% of Material Retained on No. 200 Sieve	Gravel and Gravelly Soils More than 50% of Coarse Fraction Retained on No. 4 Sieve		GW	Well-Graded Gravel; Well-Graded Gravel with Sand
			GP	Poorly Graded Gravel; Poorly Graded Gravel with Sand
			GW-GM	Well-Graded Gravel with Silt; Well-Graded Gravel with Silt and Sand
			GW-GC	Well-Graded Gravel with Clay; Well-Graded Gravel with Clay and Sand
			GP-GM	Poorly Graded Gravel with Silt; Poorly Graded Gravel with Silt and Sand
			GP-GC	Poorly Graded Gravel with Clay; Poorly Graded Gravel with Clay and Sand
	Sand and Sandy Soils More than 50% of Coarse Fraction Passing No. 4 Sieve		GM	Silty Gravel; Silty Gravel with Sand
			GC	Clayey Gravel; Clayey Gravel with Sand
			SW	Well-Graded Sand; Well-Graded Sand with Gravel
			SP	Poorly Graded Sand; Poorly Graded Sand with Gravel
			SW-SM	Well-Graded Sand with Silt; Well-Graded Sand with Silt and Gravel
			SW-SC	Well-Graded Sand with Clay; Well-Graded Sand with Clay and Gravel
Fine Grained Soils More than 50% of Material Passing No. 200 Sieve	Silt	SP-SM	Poorly Graded Sand with Silt; Poorly Graded Sand with Silt and Gravel	
		SP-SC	Poorly Graded Sand with Clay; Poorly Graded Sand with Clay and Gravel	
		SM	Silty Sand; Silty Sand with Gravel	
	Silty Clay (based on Atterberg Limits)	SC	Clayey Sand; Clayey Sand with Gravel	
		ML	Silt; Silt with Sand or Gravel; Sandy or Gravelly Silt	
	Clays	MH	Elastic Silt; Elastic Silt with Sand or Gravel; Sandy or Gravelly Elastic Silt	
		CL-ML	Silty Clay; Silty Clay with Sand or Gravel; Gravelly or Sandy Silty Clay	
	Organics	CL	Lean Clay; Lean Clay with Sand or Gravel; Sandy or Gravelly Lean Clay	
		CH	Fat Clay; Fat Clay with Sand or Gravel; Sandy or Gravelly Fat Clay	
	Highly Organic (>50% organic material)	OL/OH	Organic Soil; Organic Soil with Sand or Gravel; Sandy or Gravelly Organic Soil	
	PT	Peat - Decomposing Vegetation - Fibrous to Amorphous Texture		

Minor Constituents

Minor Constituents	Estimated Percentage
Sand, Gravel	
Trace	<5
Few	5 - 15
Cobbles, Boulders	
Trace	<5
Few	5 - 10
Little	15 - 25
Some	30 - 45

Soil Test Symbols



CA	Chemical Analysis
CAUC	Consolidated Anisotropic Undrained Compression
CAUE	Consolidated Anisotropic Undrained Extension
CBR	California Bearing Ratio
CIDC	Consolidated Drained Isotropic Triaxial Compression
CIUC	Consolidated Isotropic Undrained Compression
CK0DC	Consolidated Drained k0 Triaxial Compression
CK0DSS	Consolidated k0 Undrained Direct Simple Shear
CK0UC	Consolidated k0 Undrained Compression
CK0UE	Consolidated k0 Undrained Extension
CRSCN	Constant Rate of Strain Consolidation
DS	Direct Shear
DSS	Direct Simple Shear
DT	In Situ Density
GS	Grain Size Classification
HYD	Hydrometer
ILCN	Incremental Load Consolidation
K0CN	k0 Consolidation
kc	Constant Head Permeability
kf	Falling Head Permeability
MD	Moisture Density Relationship
OC	Organic Content
OT	Tests by Others
P	Pressuremeter
PID	Photoionization Detector Reading
PP	Pocket Penetrometer
SG	Specific Gravity
TRS	Torsional Ring Shear
TV	Torvane
UC	Unconfined Compression
UUC	Unconsolidated Undrained Triaxial Compression
VS	Vane Shear
WC	Water Content (%)

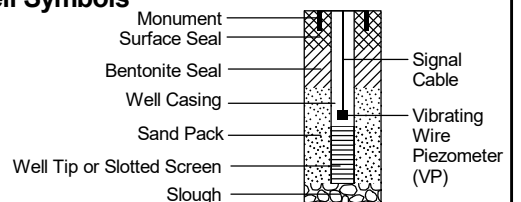
Groundwater Indicators

	Groundwater Level on Date or At Time of Drilling (ATD)
	Groundwater Level on Date Measured in Piezometer
	Groundwater Seepage (Test Pits)

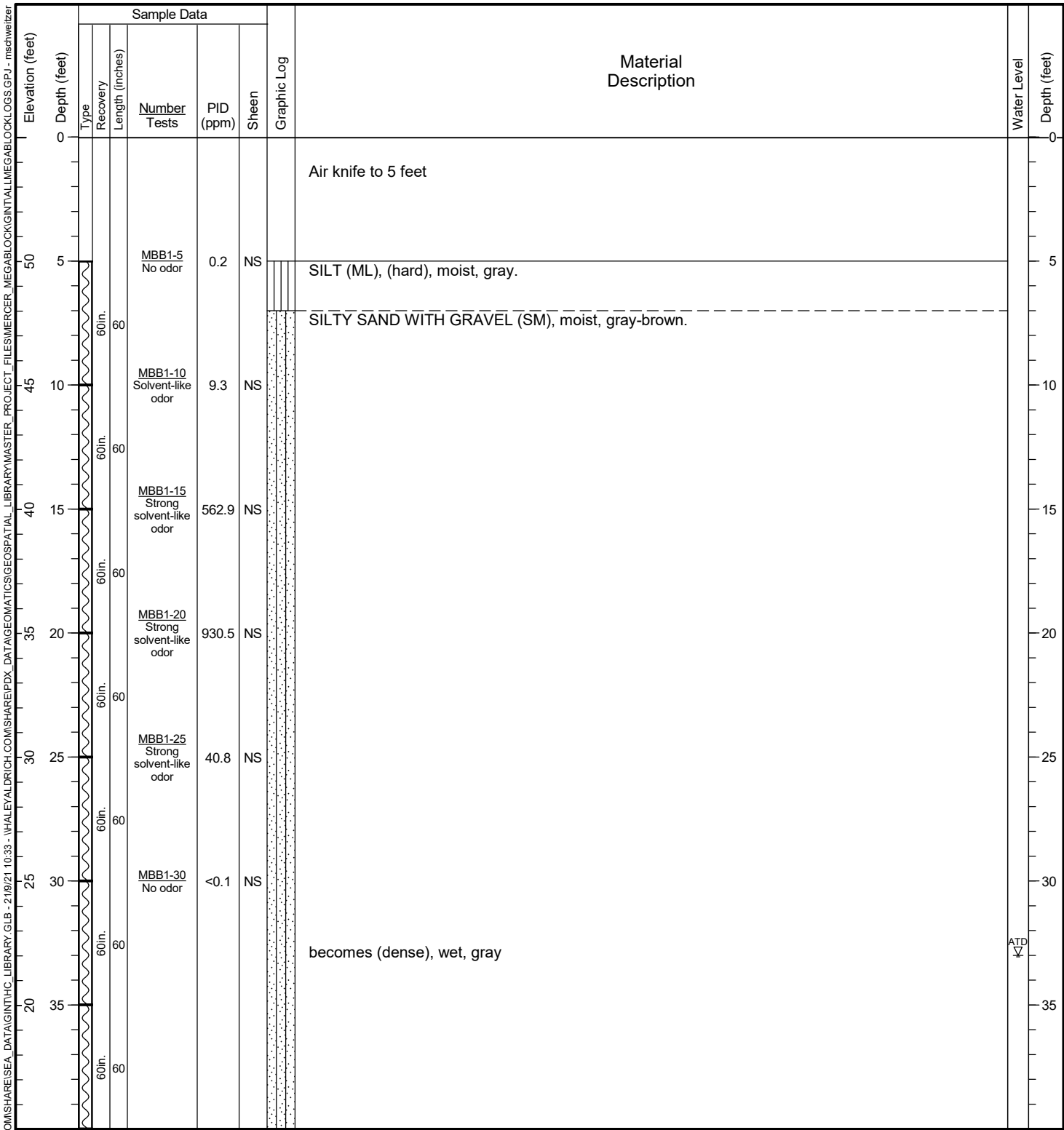
Sample Symbols

	Rock Core Run	
	Sonic Core	
	Thin-walled Sampler	

Well Symbols



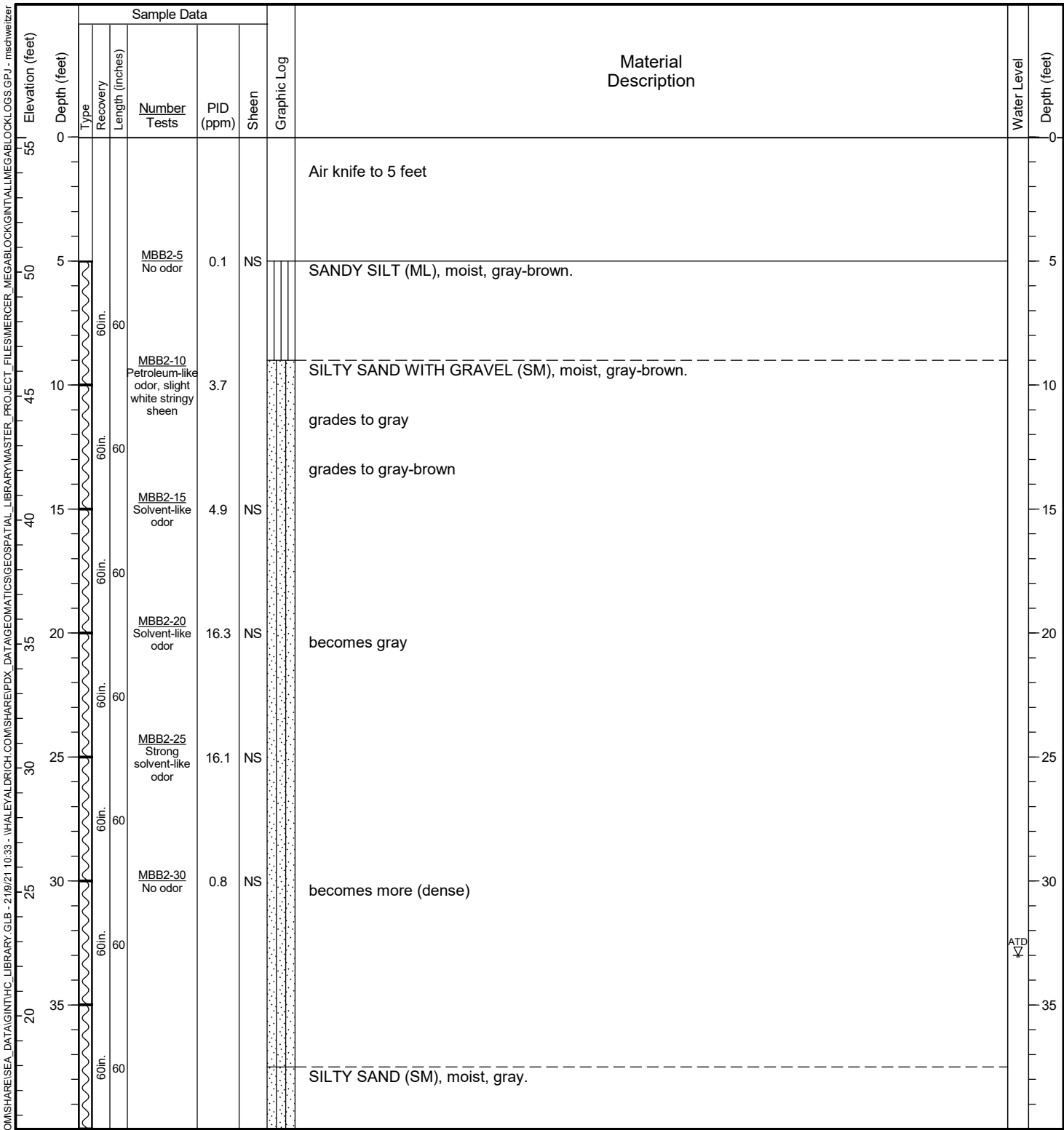
Date Started: 02/27/2020 Date Completed: 02/27/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.625208 Long: -122.341945 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 55.02 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 33 feet
 Comments: Temporary well screen set at a depth of 32 and 37 feet.



General Notes: Bottom of Borehole at 40.0 feet.

1. Refer to Figure A1-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

Date Started: 02/27/2020 Date Completed: 02/27/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.625165 Long: -122.341961 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 55.45 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 33 feet
 Comments: Temporary well screen set at a depth of 32 and 37 feet.



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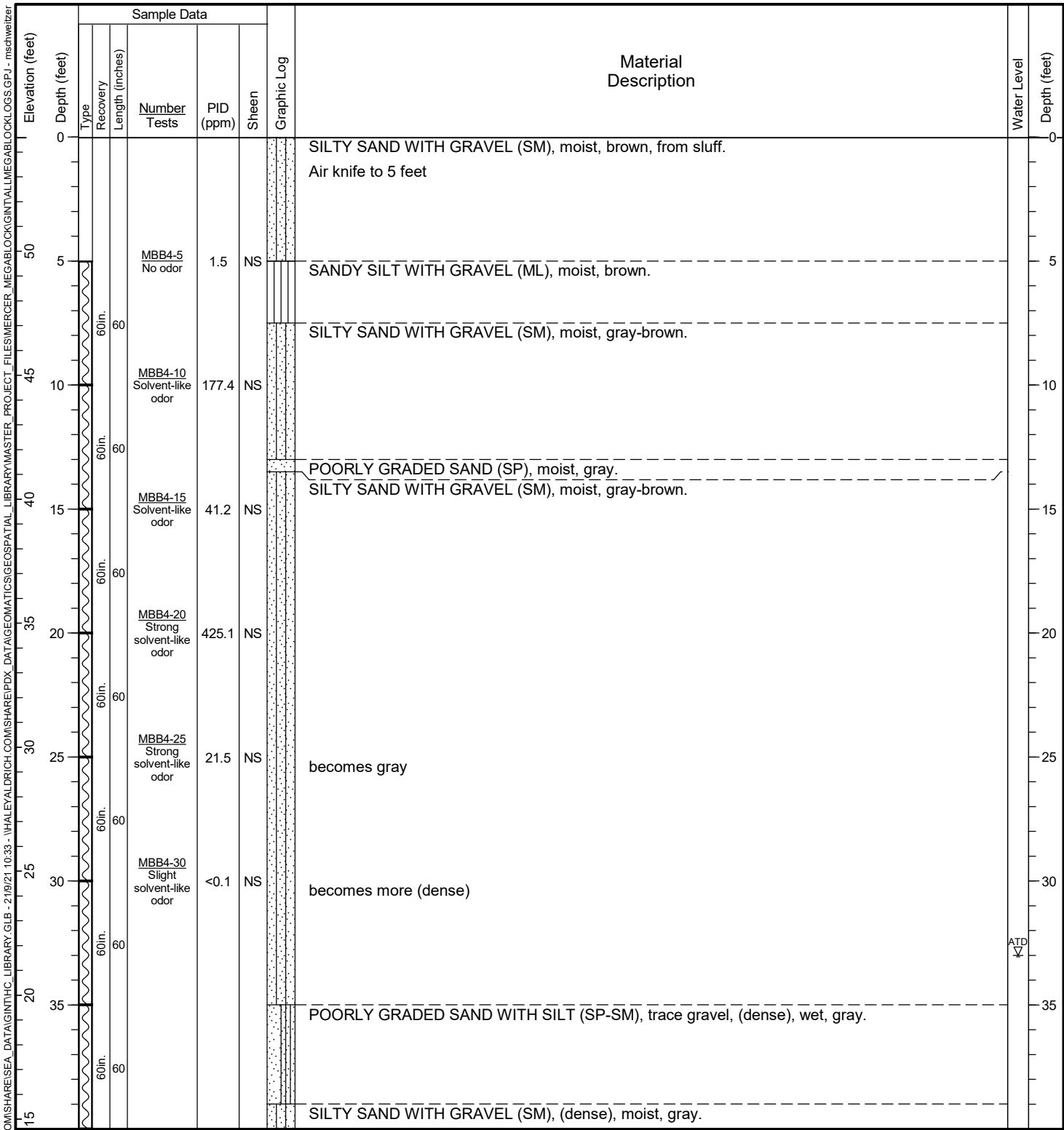
Date Started: 02/27/2020 Date Completed: 02/27/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.625142 Long: -122.341909 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 54.84 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 33 feet
 Comments: Temporary well screen set at a depth of 32 and 37 feet.

Elevation (feet)	Depth (feet)	Sample Data					Material Description	Water Level	Depth (feet)
		Type	Recovery Length (inches)	Number Tests	PID (ppm)	Sheen			
0	0						Air knife to 5 feet		0
5	5		60in.	MBB3-5 No odor	3.9	NS	SANDY SILT (ML), moist, gray-brown.		5
10	10		60in.	MBB3-10 Strong solvent-like odor	929.3	NS	SILTY SAND (SM), moist, gray-brown.		10
15	15		60in.	MBB3-12 Strong solvent-like odor	890.4	NS	SANDY SILT (ML), moist, gray.		15
20	20		60in.	MBB3-15 Strong solvent-like odor	21.9	NS	SILTY SAND WITH GRAVEL (SM), dry to moist, gray-brown.		20
25	25		60in.	MBB3-20 Strong solvent-like odor	67.1	NS			25
30	30		60in.	MBB3-25 Strong solvent-like odor	474.4	NS			30
35	35		60in.	MBB3-30 Strong solvent-like odor	213.0	NS	becomes wet, gray		35
40	40		60in.	MBB3-35 Solvent-like odor	8.1	NS			35
			60in.	MBB3-40 No odor	2.3	NS			

General Notes: Bottom of Borehole at 40.0 feet.

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Date Started: 02/27/2020 Date Completed: 02/27/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.625160 Long: -122.341879 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 54.61 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 33 feet
 Comments: Temporary well screen set at a depth of 32 and 37 feet.



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 5. Location and ground surface elevations are approximate.

Bottom of Borehole at 40.0 feet.

Date Started: 03/02/2020 Date Completed: 03/02/2020
 Logged by: B. Dozier Checked by: M. Goodman
 Location: Lat: 47.625125 Long: -122.341321 (WGS 84)
 Ground Surface Elevation: 50.53 feet (NAVD 88)
 Comments: Temporary well screen set at a depth of 32 and 37 feet.

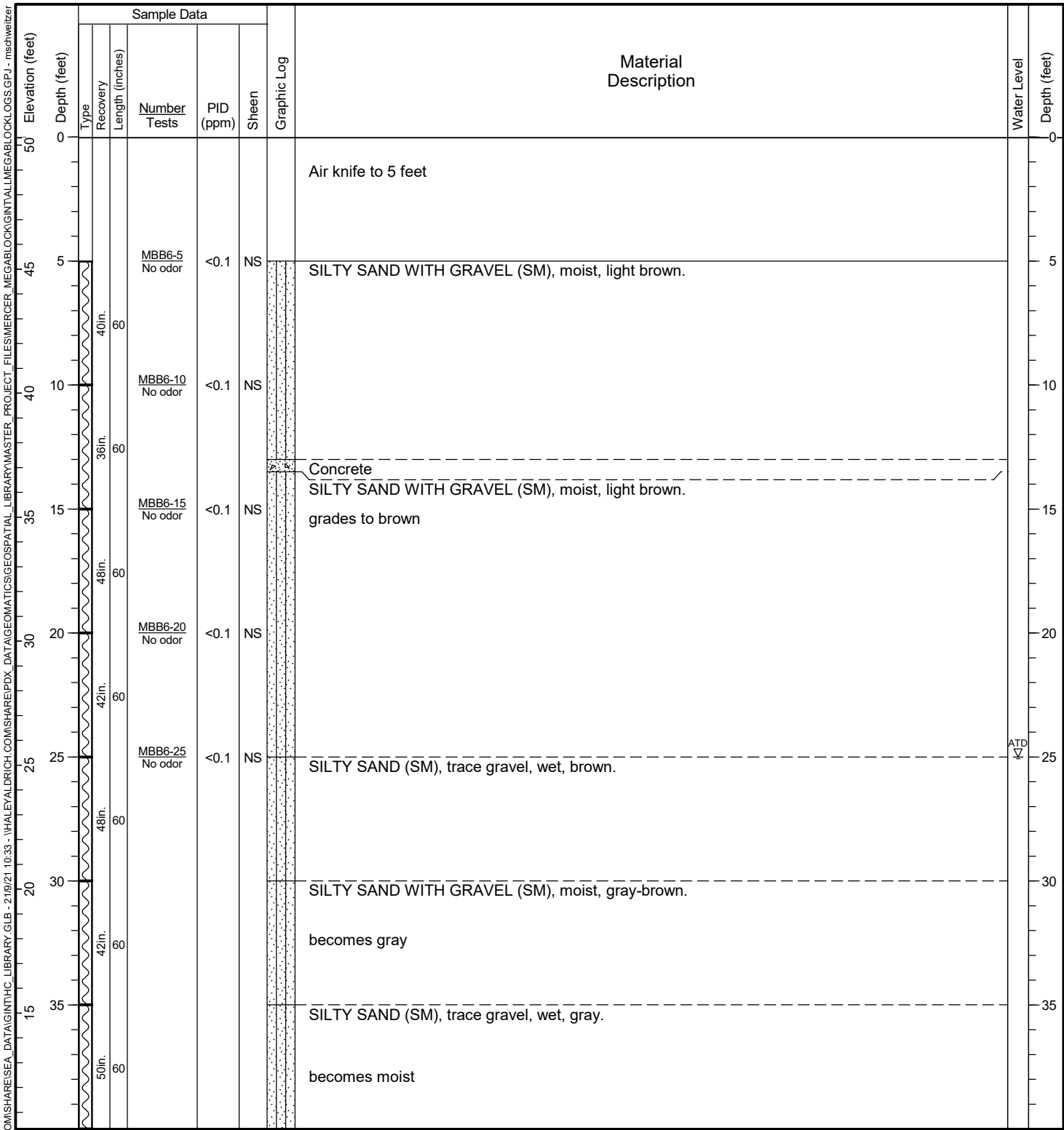
Contractor/Crew: Cascade Drilling, L.P.
 Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Hole Diameter: 10 inches Casing Diameter: NA
 Total Depth: 40 feet Depth to Groundwater: 25 feet

Elevation (feet)	Depth (feet)	Sample Data					Material Description	Water Level	Depth (feet)
		Type Recovery Length (inches)	Number Tests	PID (ppm)	Sheen	Graphic Log			
50	0						Air knife to 5 feet		0
45	5	60in.	MBB5-5 No odor	<0.1	NS		SILTY SAND WITH GRAVEL (SM), moist, gray-brown, brick fragments. [FILL]		5
40	10	48in.	MBB5-10 No odor, slight white stringy sheen	<0.1			SANDY SILT WITH GRAVEL (ML), moist, dark brown, scattered roots. SILTY SAND WITH GRAVEL (SM), moist, gray-brown.		10
35	15	48in.	MBB5-15 No odor	<0.1	NS		grades brown		15
30	20	48in.	MBB5-20 No odor	<0.1	NS				20
25	25	48in.	MBB5-25 No odor	<0.1	NS		SILTY SAND (SM), trace gravel, wet, brown.	ATD	25
20	30	48in.					SILTY SAND WITH GRAVEL (SM), moist, brown. becomes gray		30
15	35	42in.					grades (denser)		35

General Notes: Bottom of Borehole at 40.0 feet.

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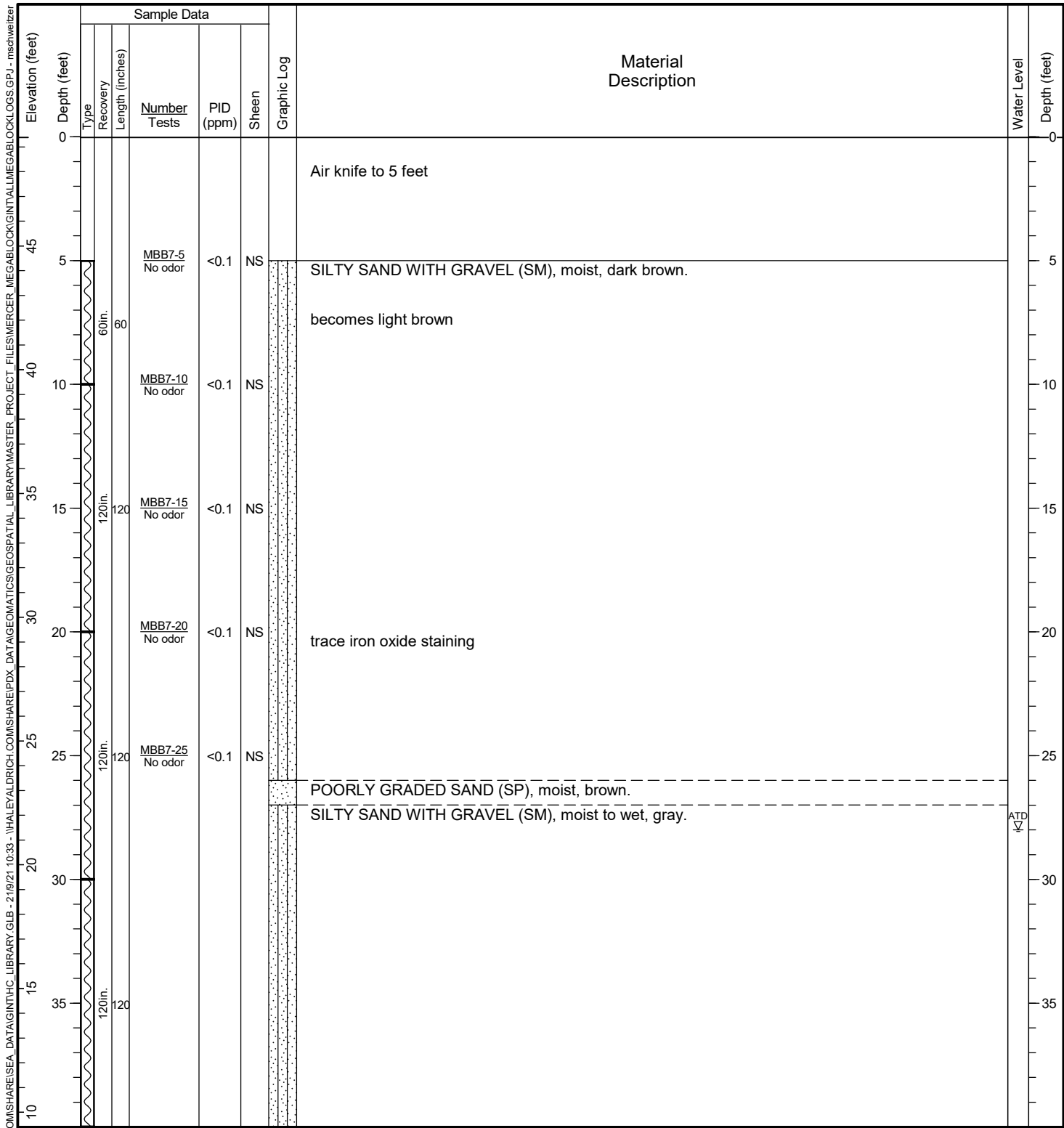
Date Started: 03/03/2020 Date Completed: 03/03/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.625113 Long: -122.341268 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 50.33 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 25 feet
 Comments: Temporary well screen set at a depth of 25 and 30 feet.



General Notes: Bottom of Borehole at 40.0 feet.

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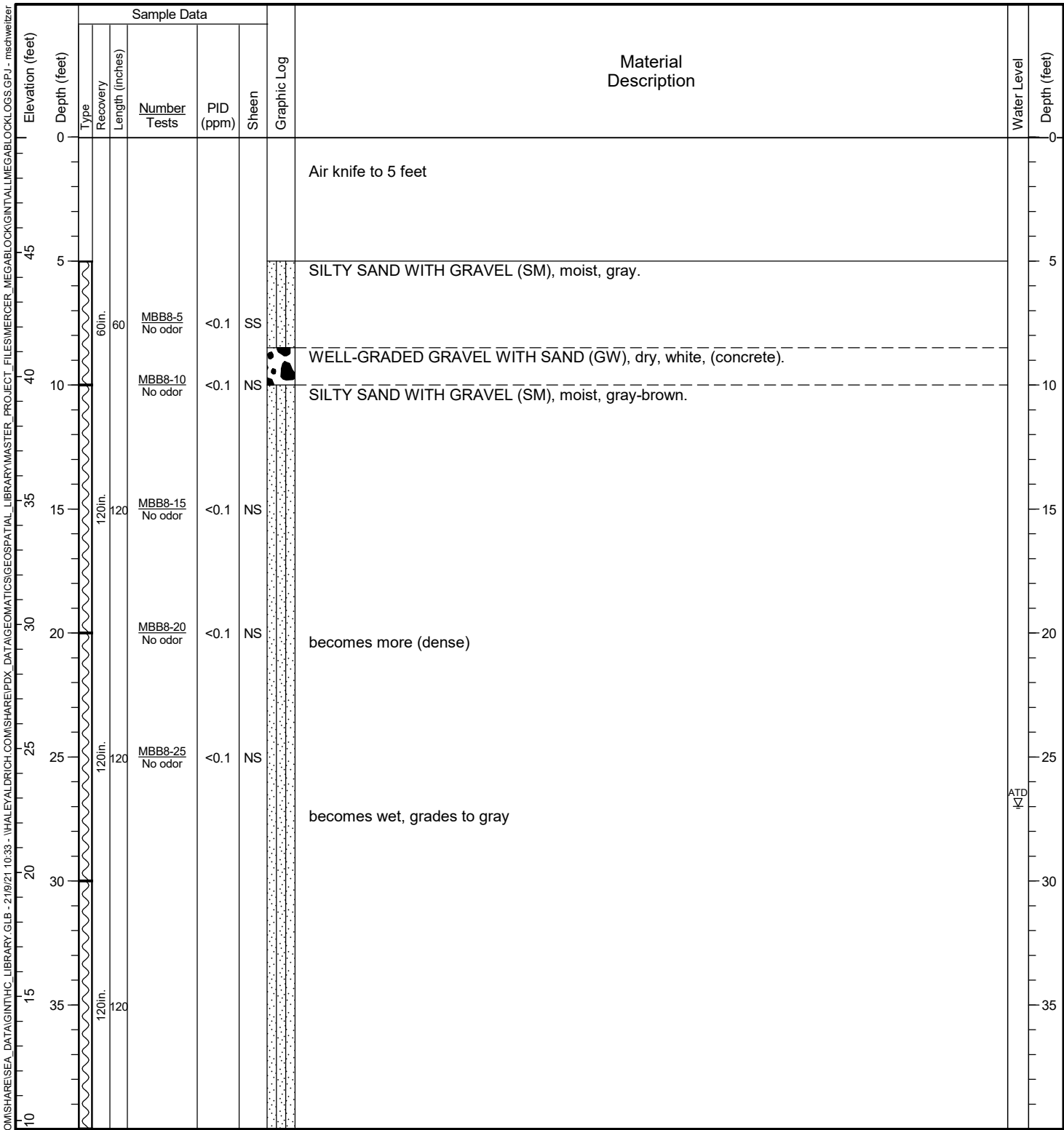
Date Started: 02/25/2020 Date Completed: 02/25/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: TSI 150CC / Track-mounted drill rig
 Location: Lat: 47.625224 Long: -122.341123 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 49.41 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 28 feet
 Comments: Temporary well screen set at a depth of 27 and 32 feet.



General Notes: Bottom of Borehole at 40.0 feet.

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5. Location and ground surface elevations are approximate.

Date Started: 02/26/2020 Date Completed: 02/26/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.625096 Long: -122.341099 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 49.66 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 27 feet
 Comments: Temporary well screen set at a depth of 27 and 32 feet.



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Bottom of Borehole at 40.0 feet.

Date Started: 02/26/2020 Date Completed: 02/26/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.625082 Long: -122.340910 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 47.55 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 27 feet
 Comments: Temporary well screen set at a depth of 27 and 32 feet.

Elevation (feet)	Depth (feet)	Sample Data					Material Description	Water Level	Depth (feet)
		Type	Recovery Length (inches)	Number Tests	PID (ppm)	Sheen			
0	0						Air knife to 5 feet		0
5	5		60in.	MBB9-5 Organic odor, slight organic sheen	<0.1		SILTY SAND WITH GRAVEL (SM), moist, brown.		5
10	10		60in.	MBB9-10 No odor	<0.1	NS	grades to higher silt content		10
15	15		120in.	MBB9-15 No odor	<0.1	NS	grades to lower silt and higher sand content		15
20	20		120in.	MBB9-20 Slight odor	<0.1	SS	SILTY SAND (SM), trace gravel, moist, gray-brown.		20
25	25		110in.	MBB9-25 Slight solvent-like odor	<0.1	SS	becomes wet, gray	ATD ▽	25
30	30		120in.				SILTY SAND WITH GRAVEL (SM), (dense), moist, gray.		30
35	35		120in.				[TILL-LIKE]		35

General Notes: Bottom of Borehole at 40.0 feet.
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Date Started: 02/26/2020 Date Completed: 02/26/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.625211 Long: -122.340876 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 49.66 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 35 feet
 Comments: Temporary well screen set at a depth of 35 and 40 feet.

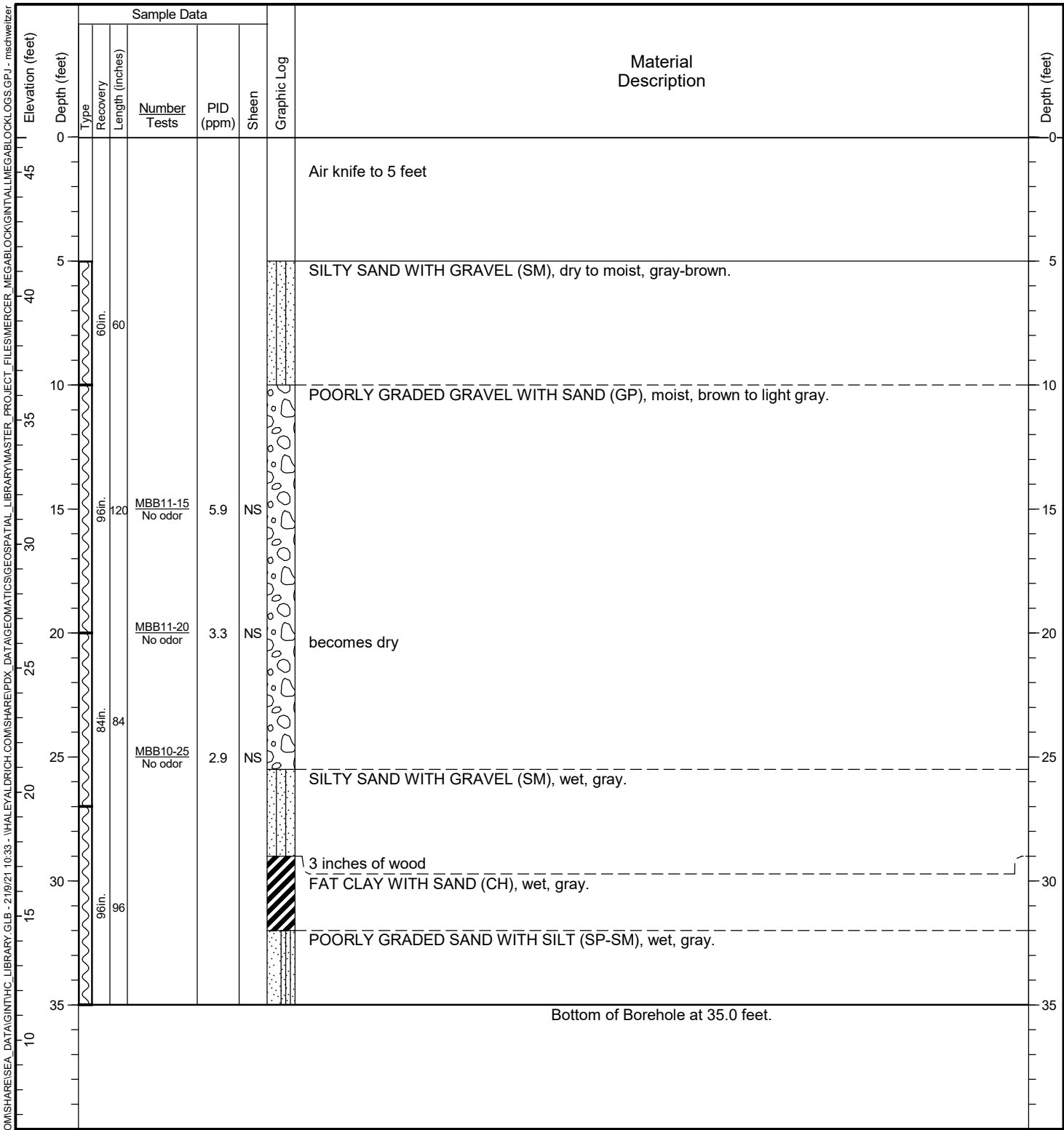
Elevation (feet)	Depth (feet)	Sample Data					Material Description	Water Level	Depth (feet)
		Type Recovery Length (inches)	Number Tests	PID (ppm)	Sheen	Graphic Log			
0	0						Air knife to 5 feet		0
45	5	60in.	MBB10-5 Organic odor, organic sheen	<0.1			SILTY SAND WITH GRAVEL (SM), (medium dense), moist, brown. becomes dark brown		5
40	10	60in.	MBB10-10 No odor	<0.1	NS		becomes gray-brown becomes brown		10
35	15	108in.	MBB10-15 No odor	<0.1	NS		grades to gray-brown		15
30	20	120in.	MBB10-20 No odor	<0.1	NS				20
25	25	120in.	MBB10-25 No odor	<0.1	NS		SILTY SAND (SM), moist, gray-brown. SILTY SAND WITH GRAVEL (SM), moist, gray. SILTY SAND (SM), moist, gray-brown. SILTY SAND WITH GRAVEL (SM), (medium dense), wet, gray.		25
20	30						SILTY SAND (SM), wet, gray. SILTY SAND WITH GRAVEL (SM), moist, gray. [TILL]		30
15	35	92in.					grades to wet	ATD ∇	35

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Bottom of Borehole at 40.0 feet.

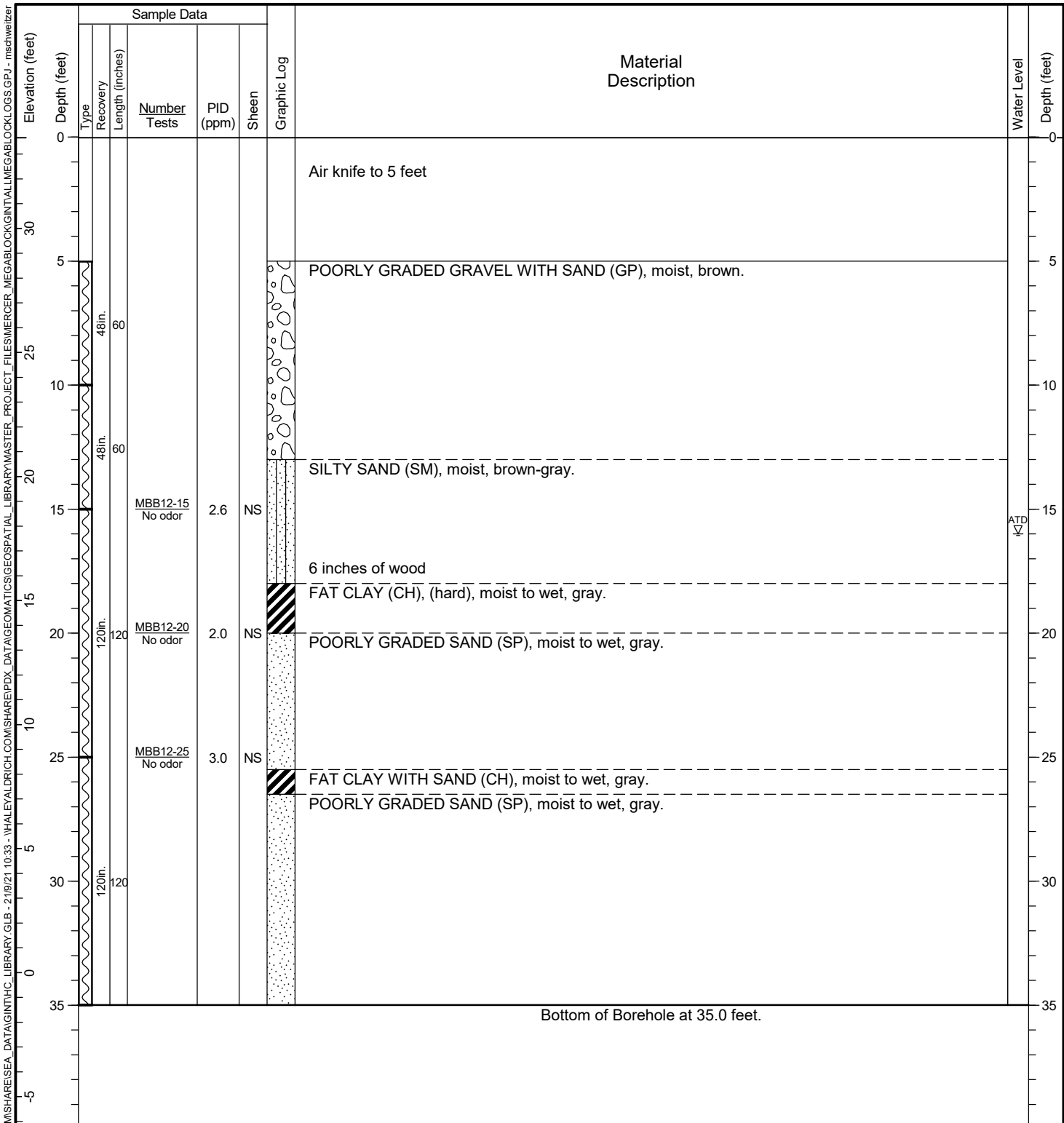
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Date Started: 03/04/2020 Date Completed: 03/04/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.625138 Long: -122.340141 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 46.42 feet (NAVD 88) Total Depth: 35 feet Depth to Groundwater: Not Identified
 Comments: Temporary well screen set at a depth of 30 and 35 feet.



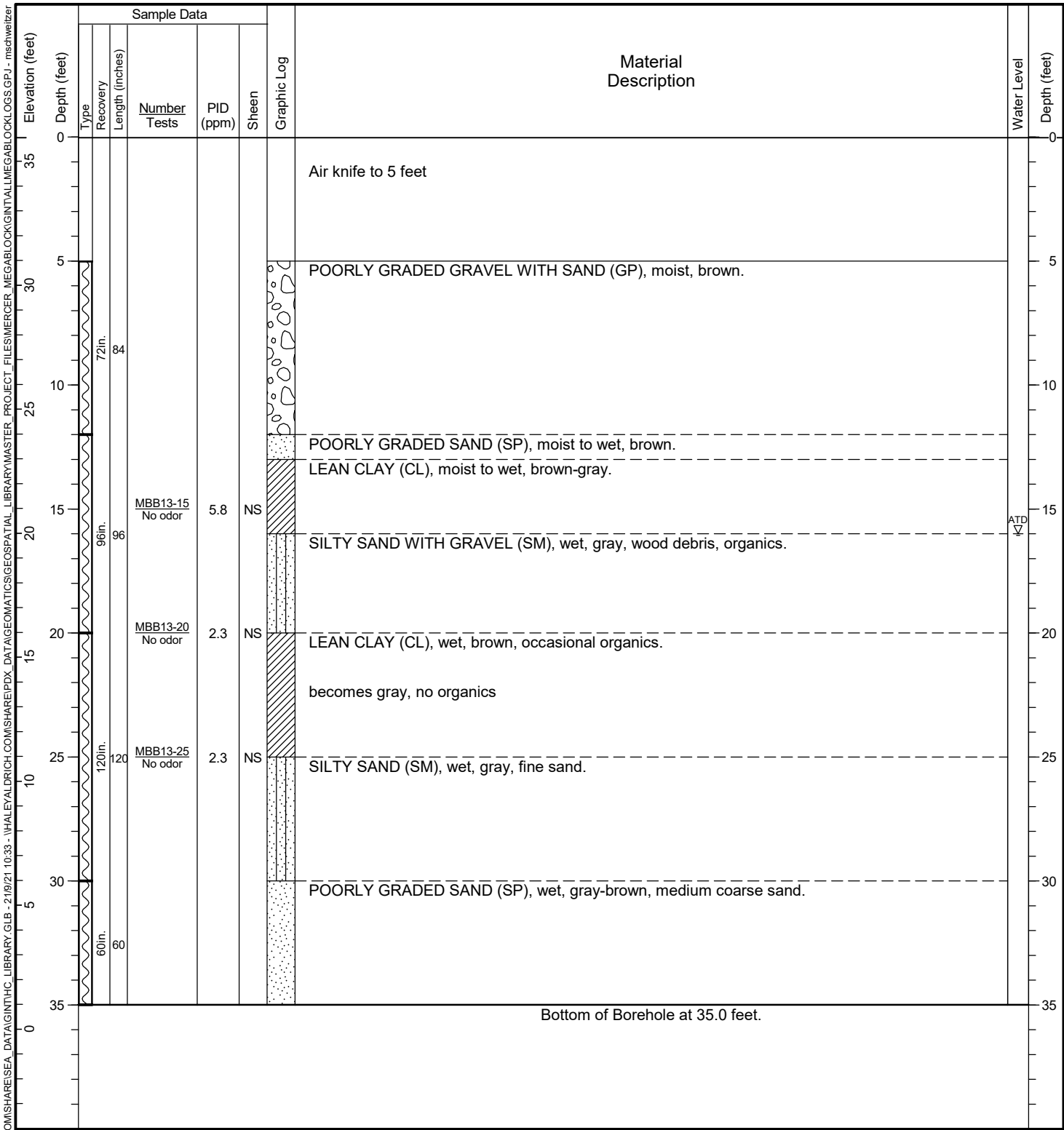
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Date Started: 03/04/2020 Date Completed: 03/04/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.625217 Long: -122.339979 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 33.69 feet (NAVD 88) Total Depth: 35 feet Depth to Groundwater: 16 feet
 Comments: Temporary well screen set at a depth of 27 and 32 feet.



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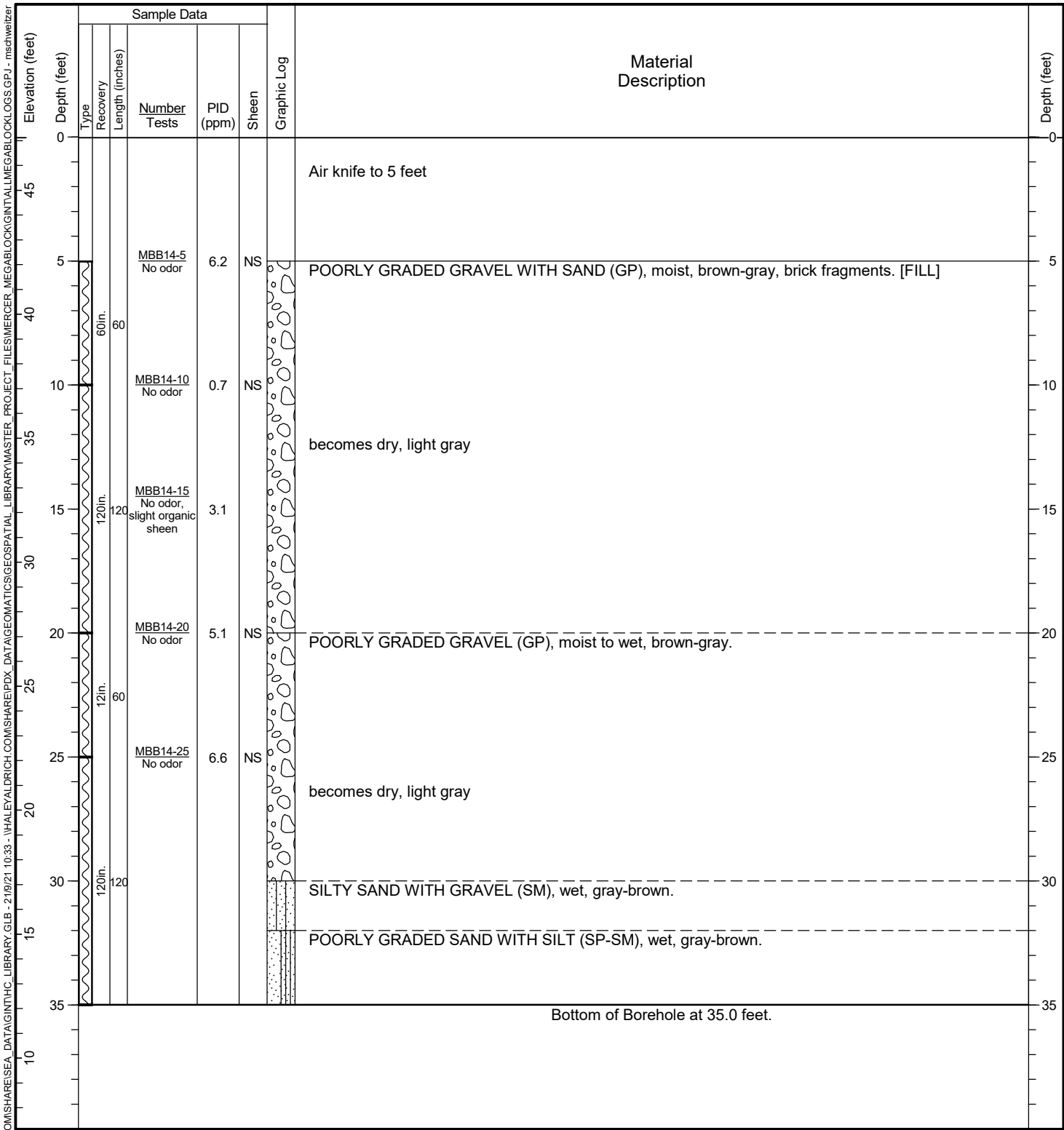
Date Started: 03/04/2020 Date Completed: 03/04/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.625147 Long: -122.339952 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 35.98 feet (NAVD 88) Total Depth: 35 feet Depth to Groundwater: 16 feet
 Comments: Temporary well screen set at a depth of 30 and 35 feet.



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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 03/03/2020 Date Completed: 03/03/2020
 Logged by: A. Nakahara Checked by: M. Goodman
 Location: Lat: 47.625046 Long: -122.340151 (WGS 84)
 Ground Surface Elevation: 47.15 feet (NAVD 88)
 Comments: Temporary well screen set at a depth of 30 and 35 feet.

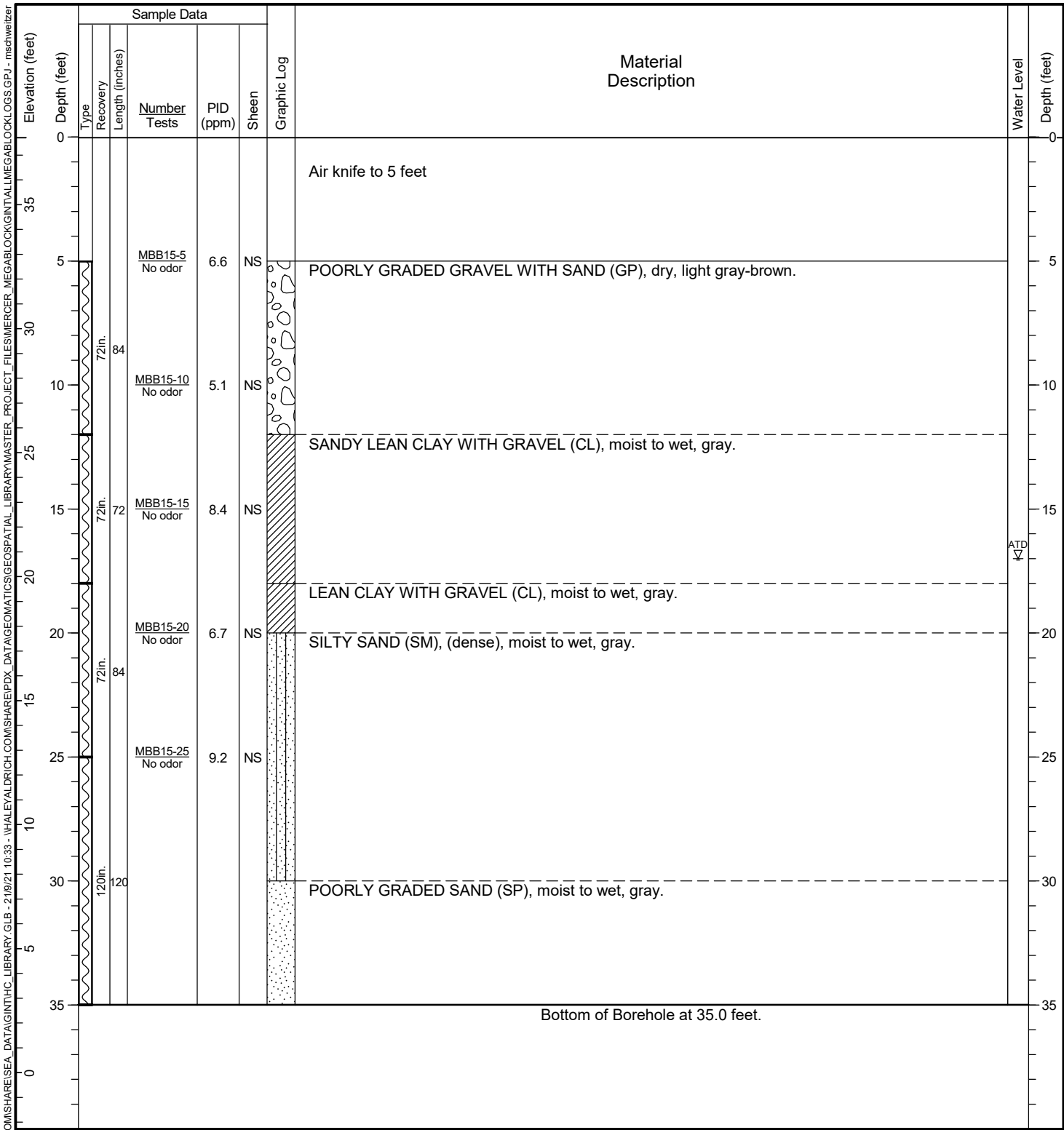
Contractor/Crew: Cascade Drilling, L.P.
 Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Hole Diameter: 10 inches Casing Diameter: NA
 Total Depth: 35 feet Depth to Groundwater: Not Identified



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC PUSH PROBE - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21818\21 10:33 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERGER_MEGABLOCK\GINT\ALLMEGABLOCK\LOGS.GPJ - mschweitzer

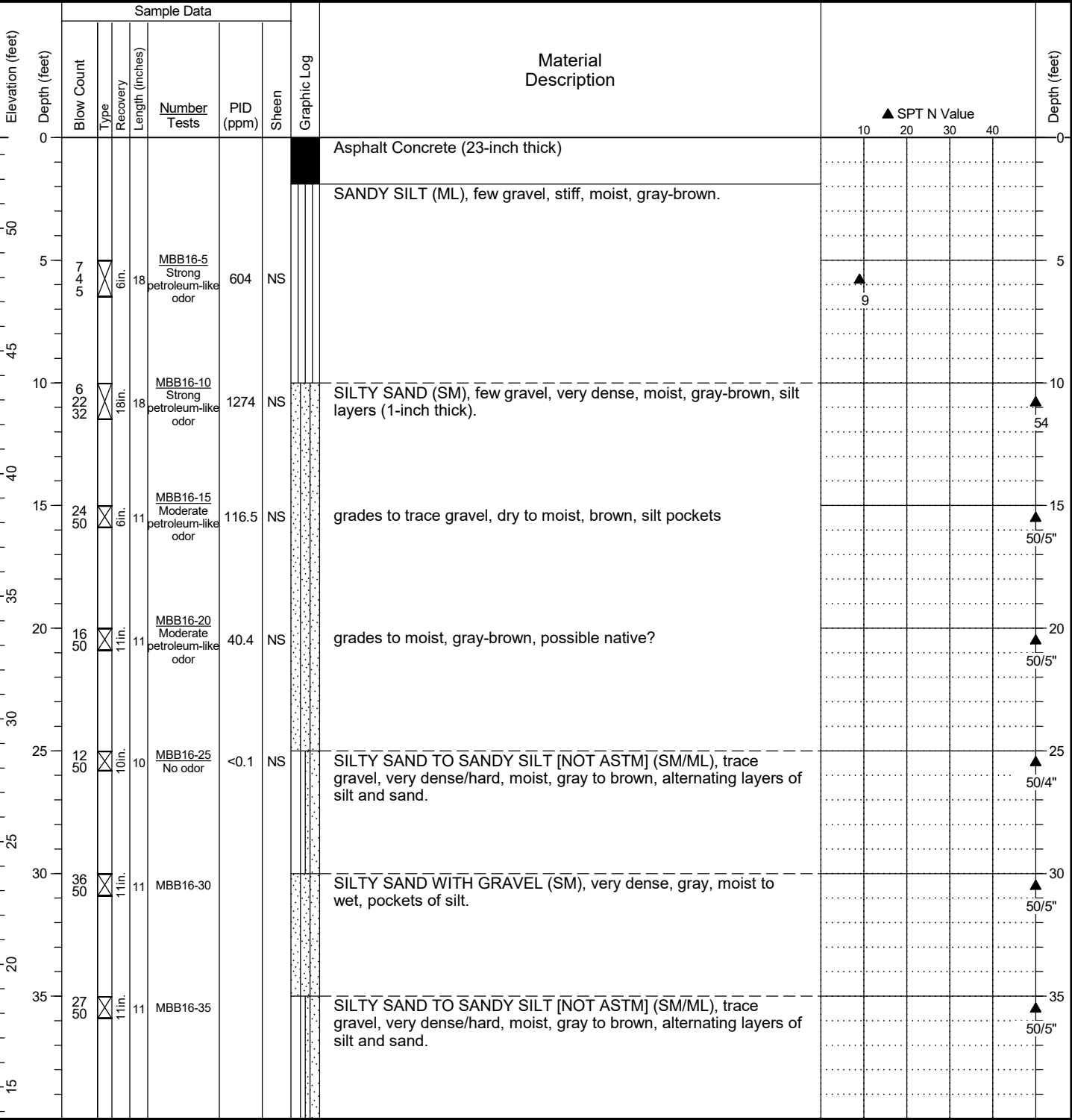
Date Started: 03/04/2020 Date Completed: 03/04/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.625056 Long: -122.339953 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 37.73 feet (NAVD 88) Total Depth: 35 feet Depth to Groundwater: 17 feet
 Comments: Temporary well screen set at a depth of 30 and 35 feet.



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

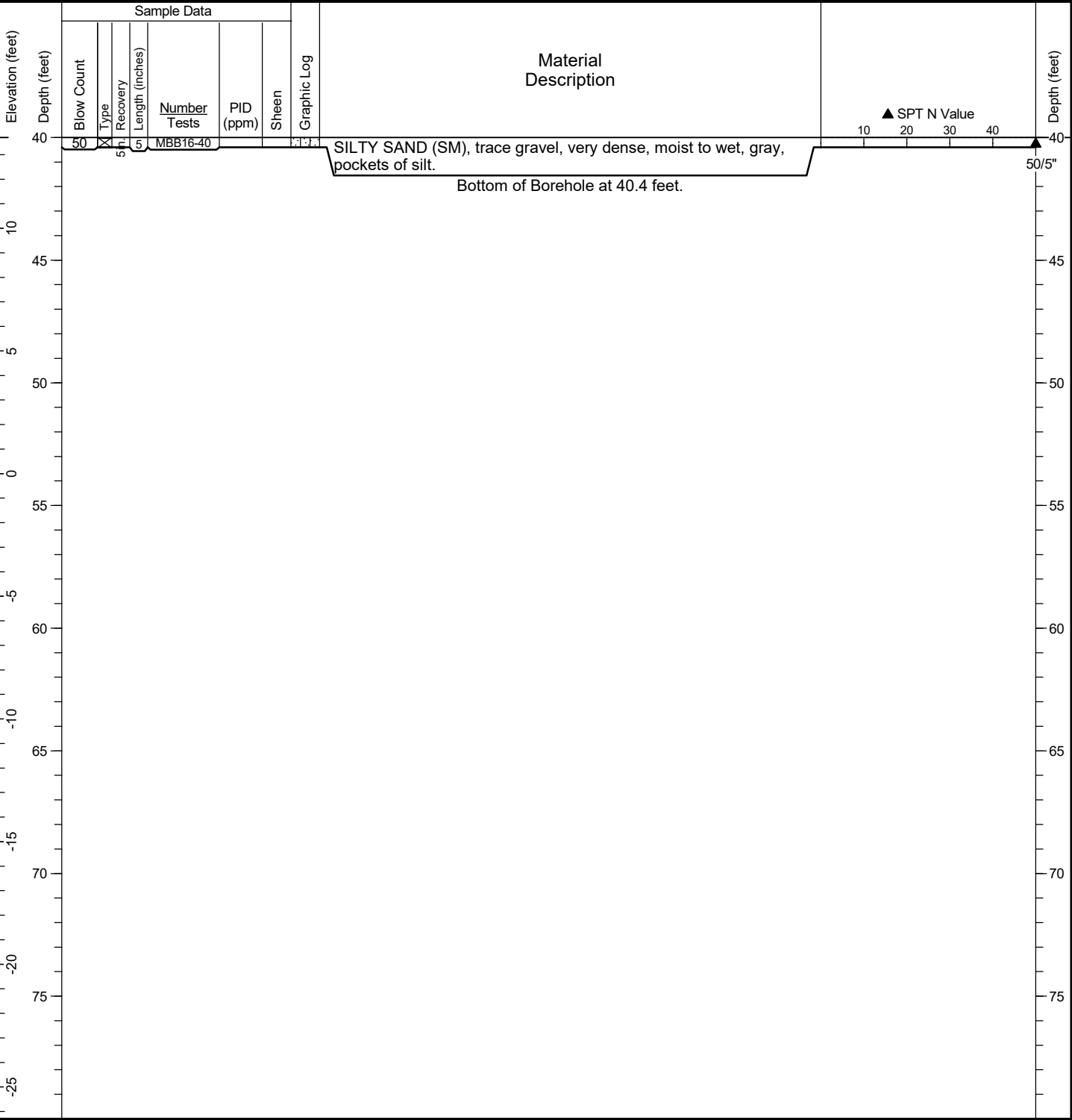
Date Started: 09/02/2020 Date Completed: 09/02/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625207 Long: -122.341790 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 53.70 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Temporary well screen set at a depth of 30 and 40 feet. Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 40.4 feet Depth to Groundwater: Not Identified

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\9\21 10:34 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweitzer



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 09/02/2020 Date Completed: 09/02/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625207 Long: -122.341790 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 53.70 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Temporary well screen set at a depth of 30 and 40 feet. Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 40.4 feet Depth to Groundwater: Not Identified

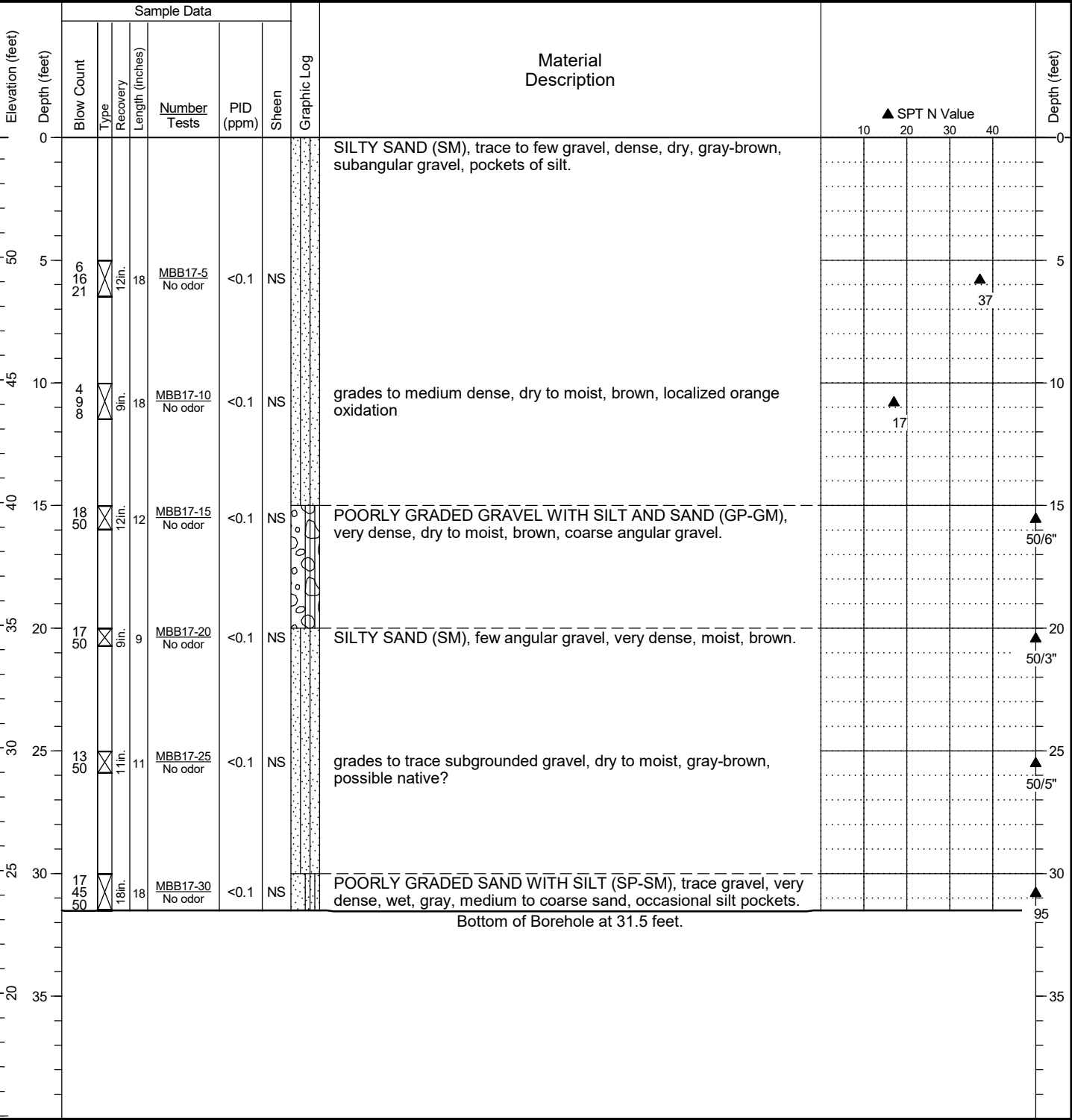


General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 10:34 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL_MEGABLOCKLOGS.GPJ - mschweizer

Date Started: 09/01/2020 Date Completed: 09/01/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624907 Long: -122.341591 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 54.88 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 31.5 feet Depth to Groundwater: Not Identified

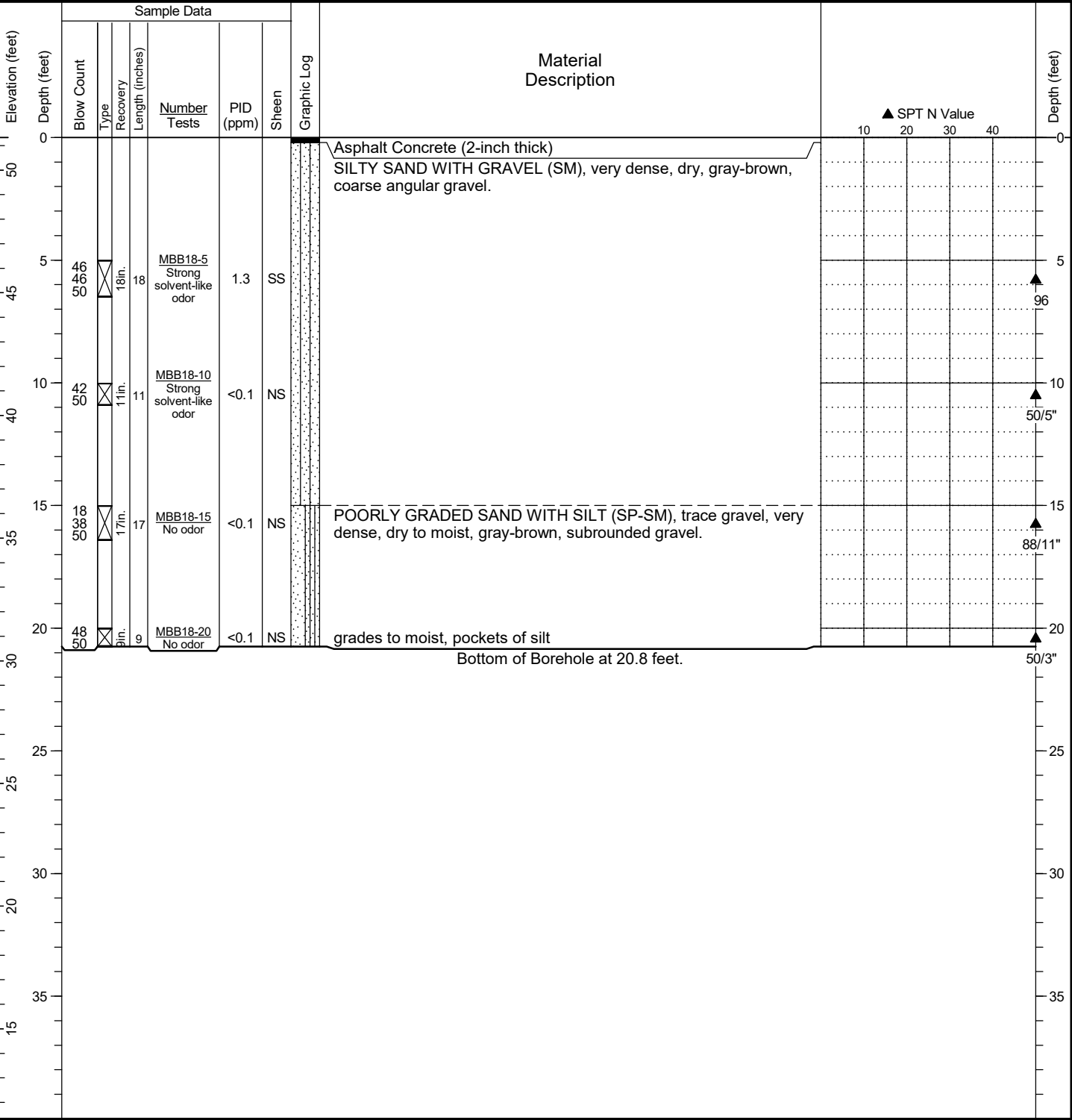
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- General Notes:
1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 09/01/2020 Date Completed: 09/01/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625034 Long: -122.341303 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 51.33 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 20.75 feet Depth to Groundwater: Not Identified

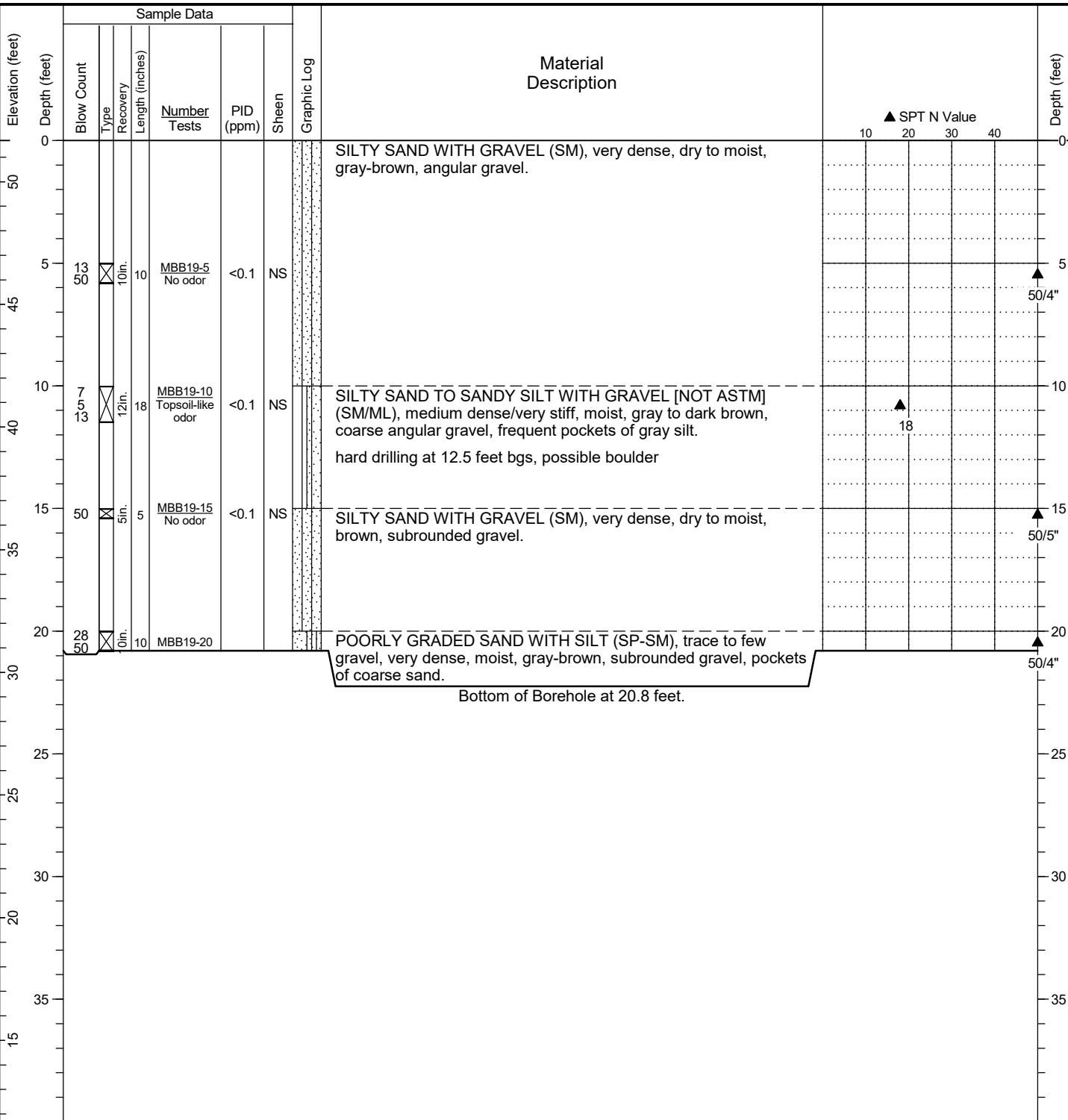
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General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 09/01/2020 Date Completed: 09/01/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624922 Long: -122.341258 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 51.68 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 20.8 feet Depth to Groundwater: Not Identified

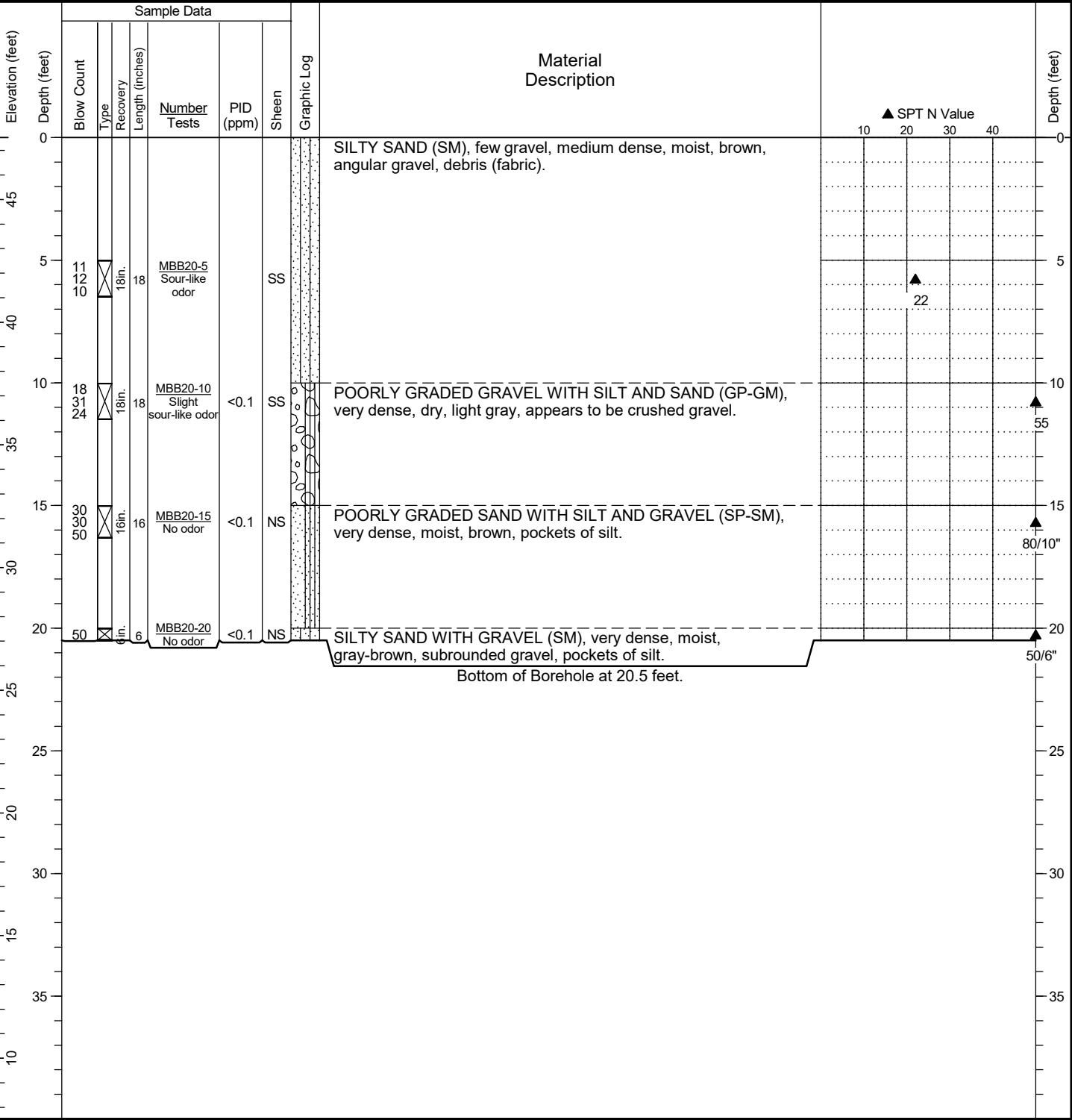
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General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 09/02/2020 Date Completed: 09/02/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625195 Long: -122.340868 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 47.53 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 20.5 feet Depth to Groundwater: Not Identified

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\9\21 10:34 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweitzer



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 09/02/2020 Date Completed: 09/02/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624858 Long: -122.340822 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 47.60 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: _____ Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 20.9 feet Depth to Groundwater: Not Identified

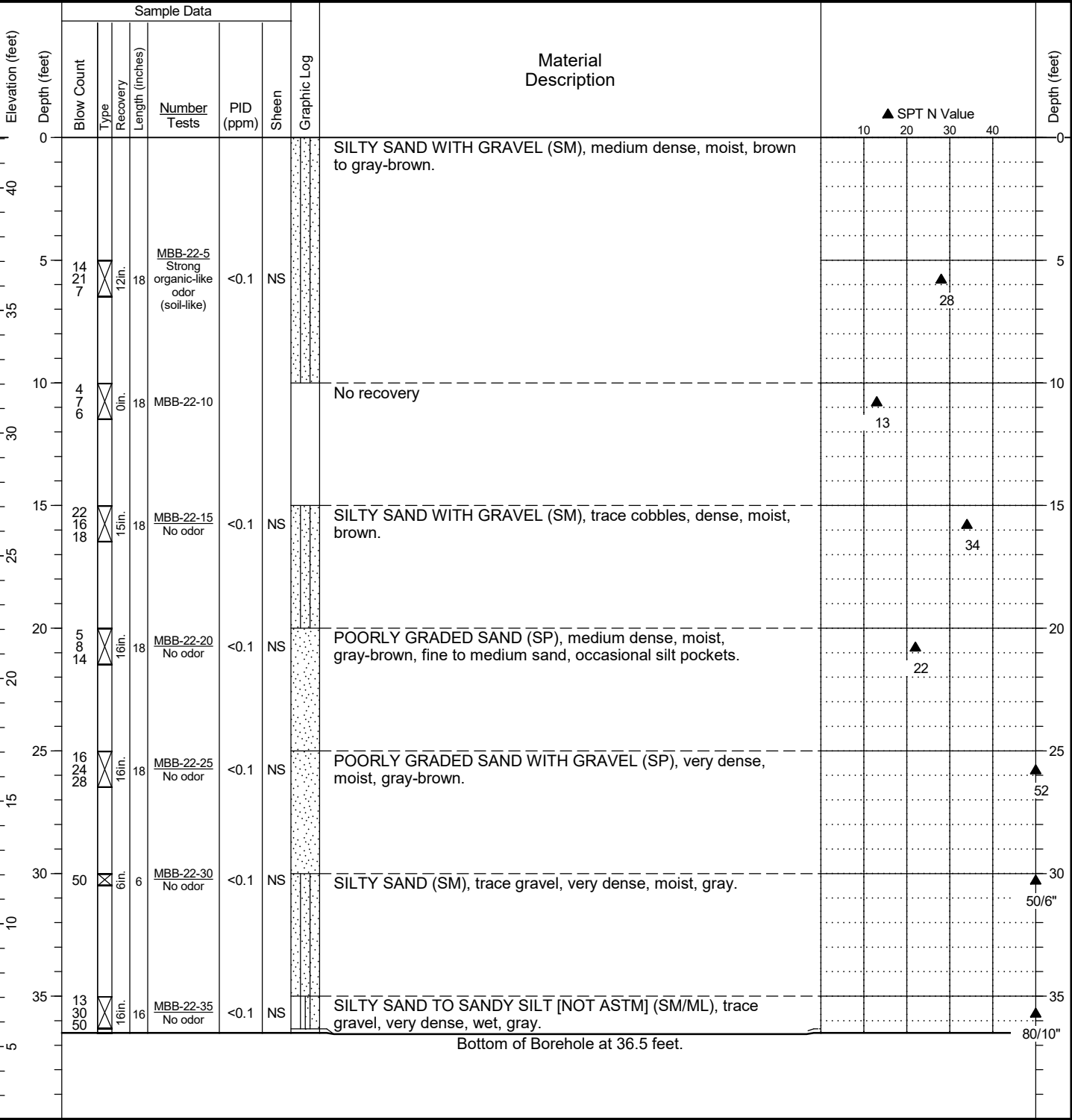
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Elevation (feet)	Depth (feet)	Sample Data						Material Description	▲ SPT N Value				Depth (feet)	
		Blow Count	Type	Recovery Length (inches)	Number Tests	PID (ppm)	Sheen		Graphic Log	10	20	30		40
0	0							SILTY SAND (SM), trace gravel, very dense, dry, brown.					0	
45	5	25 50	⊗	10in.	10	MBB21-5 No odor	<0.1	NS	SILTY SAND WITH GRAVEL (SM), very dense, dry, gray-brown, subrounded gravel.					5
40	10	26 32 45	⊗	18in.	18	MBB21-10 No odor	<0.1	NS		50/4"				
35	15	32 50	⊗	11in.	11	MBB21-15 No odor	<0.1	NS	grades to moist					15
30	20	14 50	⊗	11in.	11	MBB21-20 No odor	<0.1	NS	pockets of silt					20
25	Bottom of Borehole at 20.9 feet.												20.9	

General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 09/21/2020 Date Completed: 09/21/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Mike
 Logged by: B. Lytle Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625051 Long: -122.340542 (WGS 84) Rig Model/Type: Mobile B-58 / Track-mounted drill rig
 Ground Surface Elevation: 42.05 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 36.5 feet Depth to Groundwater: Not Identified

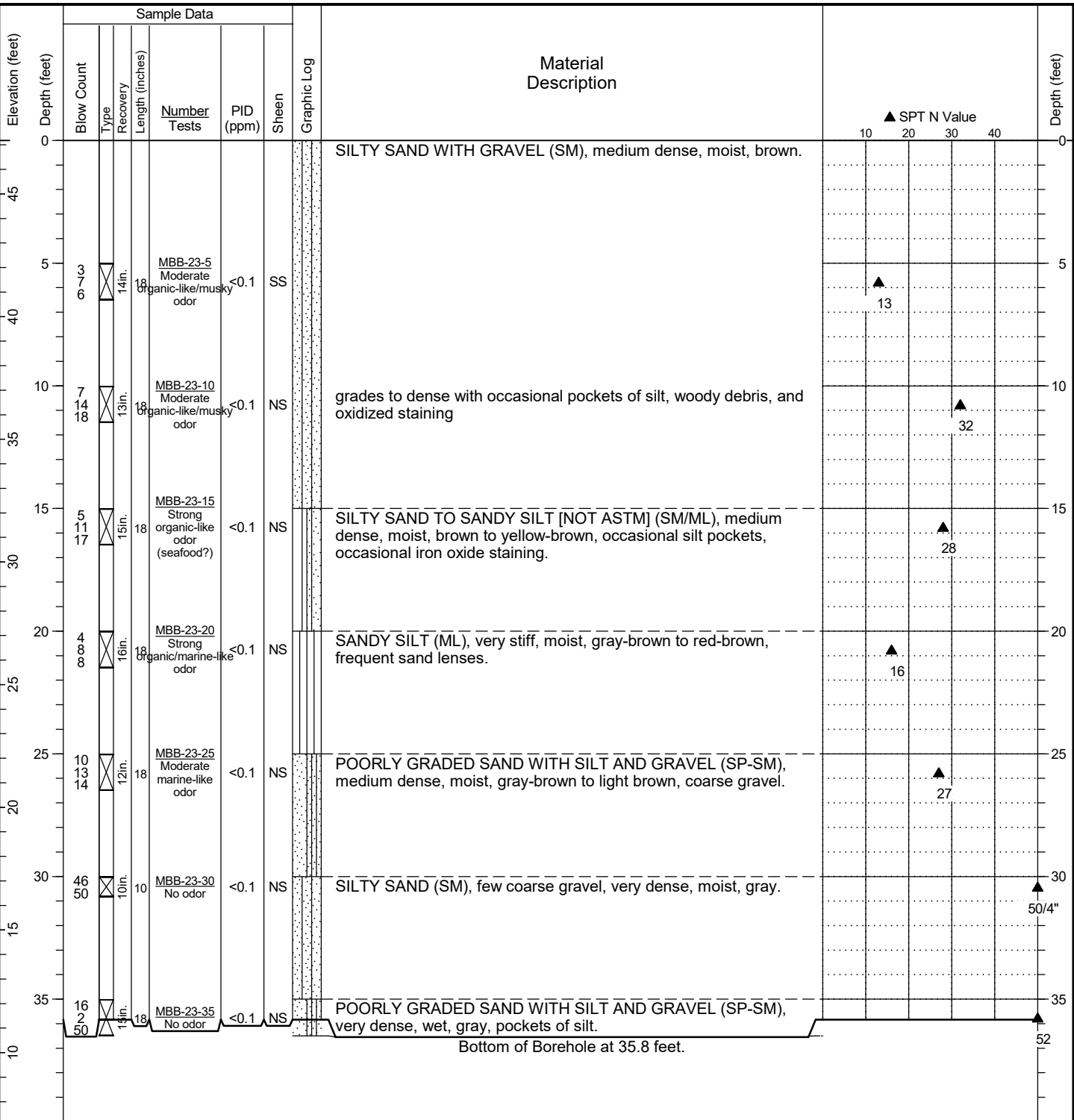
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General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 09/21/2020 Date Completed: 09/21/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Mike
 Logged by: B. Lytle Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625189 Long: -122.340574 (WGS 84) Rig Model/Type: Mobile B-59 / Track-mounted drill rig
 Ground Surface Elevation: 47.18 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 35.83 feet Depth to Groundwater: Not Identified

HC BORING LOG - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GEO\LOGS\GEO\PROJECT_FILES\MERCER_MEGABLOCK\GINTALL\MEGABLOCKLOGS.GPJ - mschweizer



- General Notes:
1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.



Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Boring Log
MBB-23

Figure **A1-24**
 Sheet 1 of 1

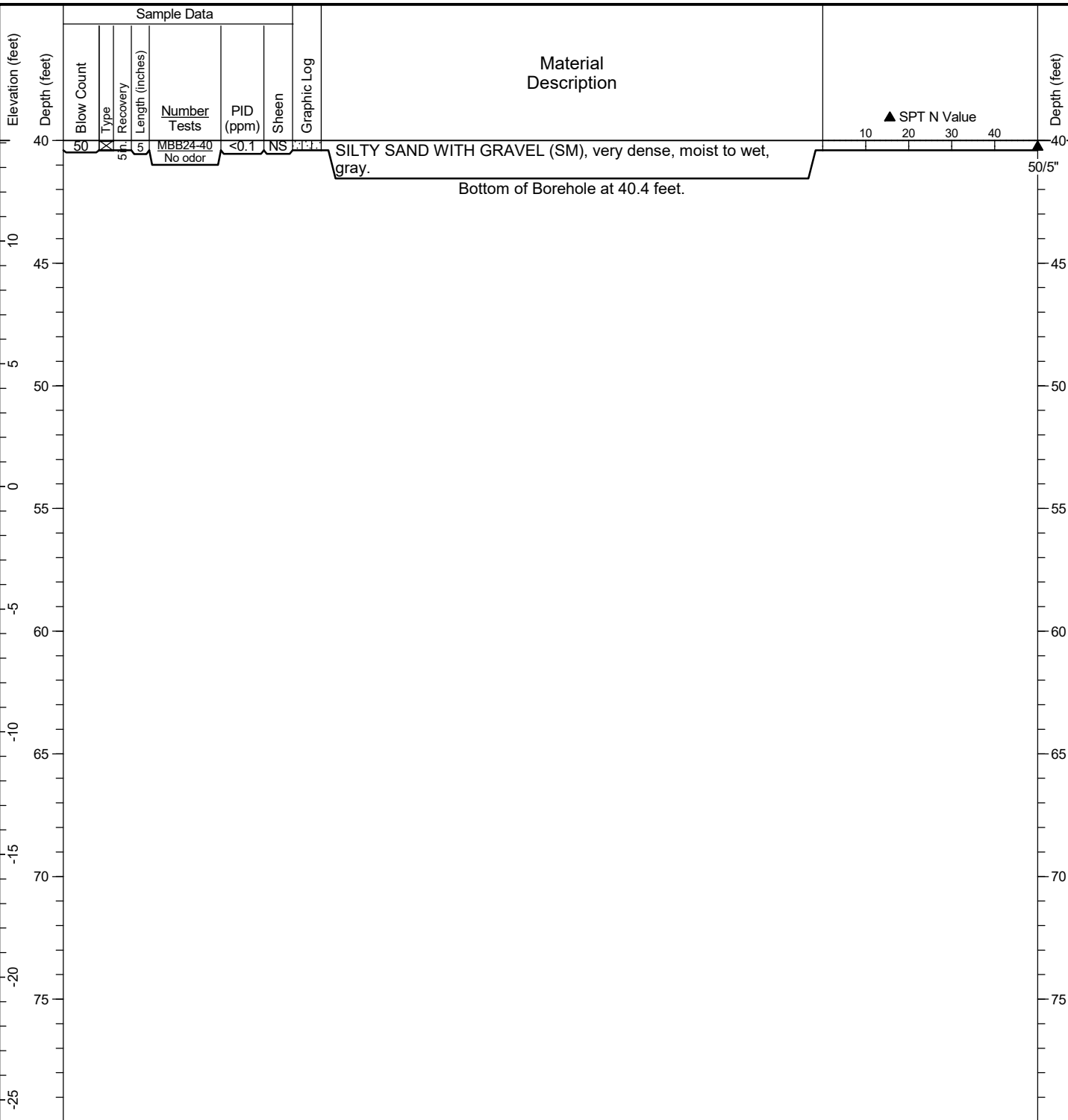
Date Started: 09/09/2020 Date Completed: 09/09/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625039 Long: -122.341833 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 54.10 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 40.4 feet Depth to Groundwater: Not Identified

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY.GLB - 21/9/21 10:34 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweizer

Elevation (feet)	Depth (feet)	Sample Data					Graphic Log	Material Description	▲ SPT N Value				Depth (feet)
		Blow Count	Type	Recovery Length (inches)	Number Tests	PID (ppm)			Sheen	10	20	30	
0	0							Concrete (8-inch thick)					0
								SILTY SAND (SM), very dense, moist, brown, fine sand, localized oxidation.					
5	5	12 22 34	18in.	18	MBB24-5 No odor	<0.1	NS						5
													56
10	10	3 30 50	17in.	17	MBB24-10 No odor	<0.1	NS	SILTY SAND WITH GRAVEL (SM), very dense, moist, gray-brown, coarse angular gravel.					10
													80/11"
15	15	5 18 38	18in.	18	MBB24-15 Moderate hydrocarbon-like odor	346	NS	SANDY SILT (ML), hard, moist, gray-brown, scattered pockets and seams of fine to medium sand.					15
													56
20	20	12 34 50	12in.	12	MBB24-20 Faint musty/hydrocarbon-like odor	1.1	NS	POORLY GRADED SAND WITH SILT (SP-SM), very dense, moist, gray, occasional pockets of silt.					20
													84/10"
25	25	30 50	10in.	10	MBB24-25 No odor	34.6	NS	SILTY SAND WITH GRAVEL (SM), very dense, moist, gray-brown.					25
													50/4"
30	30	34 50	12in.	12	MBB24-30 Musty odor		NS	POORLY GRADED SAND WITH SILT (SP-SM), very dense, moist to wet, gray, occasional pockets of silt.					30
													50/6"
35	35	36 50	10in.	10	MBB24-35 No odor	6.4	NS	grades to trace gravel					35
													50/4"

General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

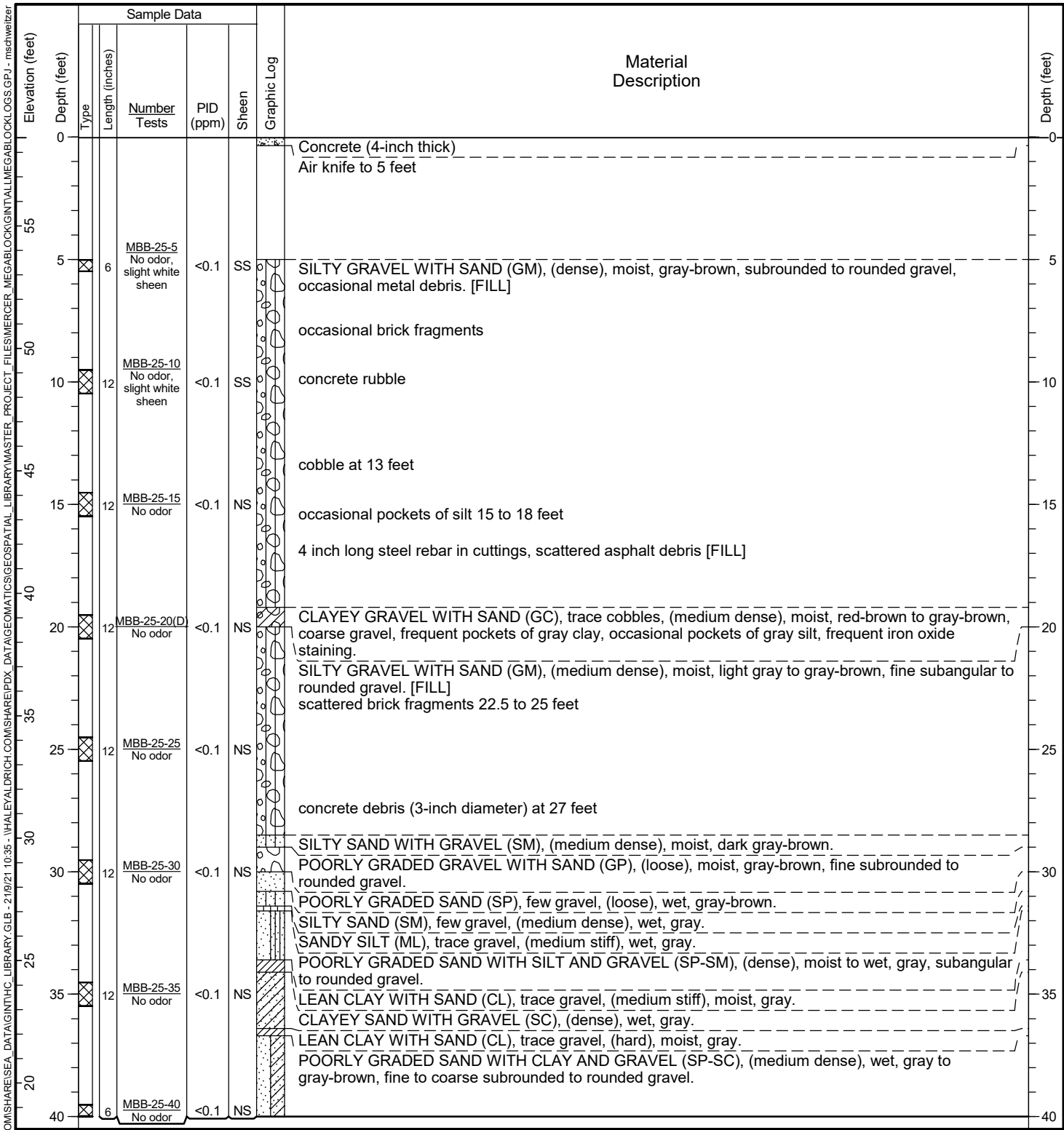
Date Started: 09/09/2020 Date Completed: 09/09/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625039 Long: -122.341833 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 54.10 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: _____ Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 40.4 feet Depth to Groundwater: Not Identified



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 10:34 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL_MEGABLOCKLOGS.GPJ - mschweizer

Date Started: 10/30/2020 Date Completed: 10/30/2020 Contractor/Crew: AEC / Jeffrey
 Logged by: B. Lytle Checked by: C. Kroskie Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624717 Long: -122.342160 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 58.63 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: Not Identified
 Comments: Temporary well screen set at a depth of 30 to 40 feet.



General Notes: Bottom of Borehole at 40.0 feet.

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- USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
- Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
- Location and ground surface elevations are approximate.

Date Started: 10/29/2020 Date Completed: 10/29/2020 Contractor/Crew: AEC / Jeffrey
 Logged by: B. Lytle/J. Vanderwal Checked by: C. Kroskie Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624650 Long: -122.342079 (WGS 84) Hole Diameter: 10 inches Casing Diameter: NA
 Ground Surface Elevation: 58.79 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 35.55 feet
 Comments: Temporary well screen set at a depth of 30 to 40 feet.

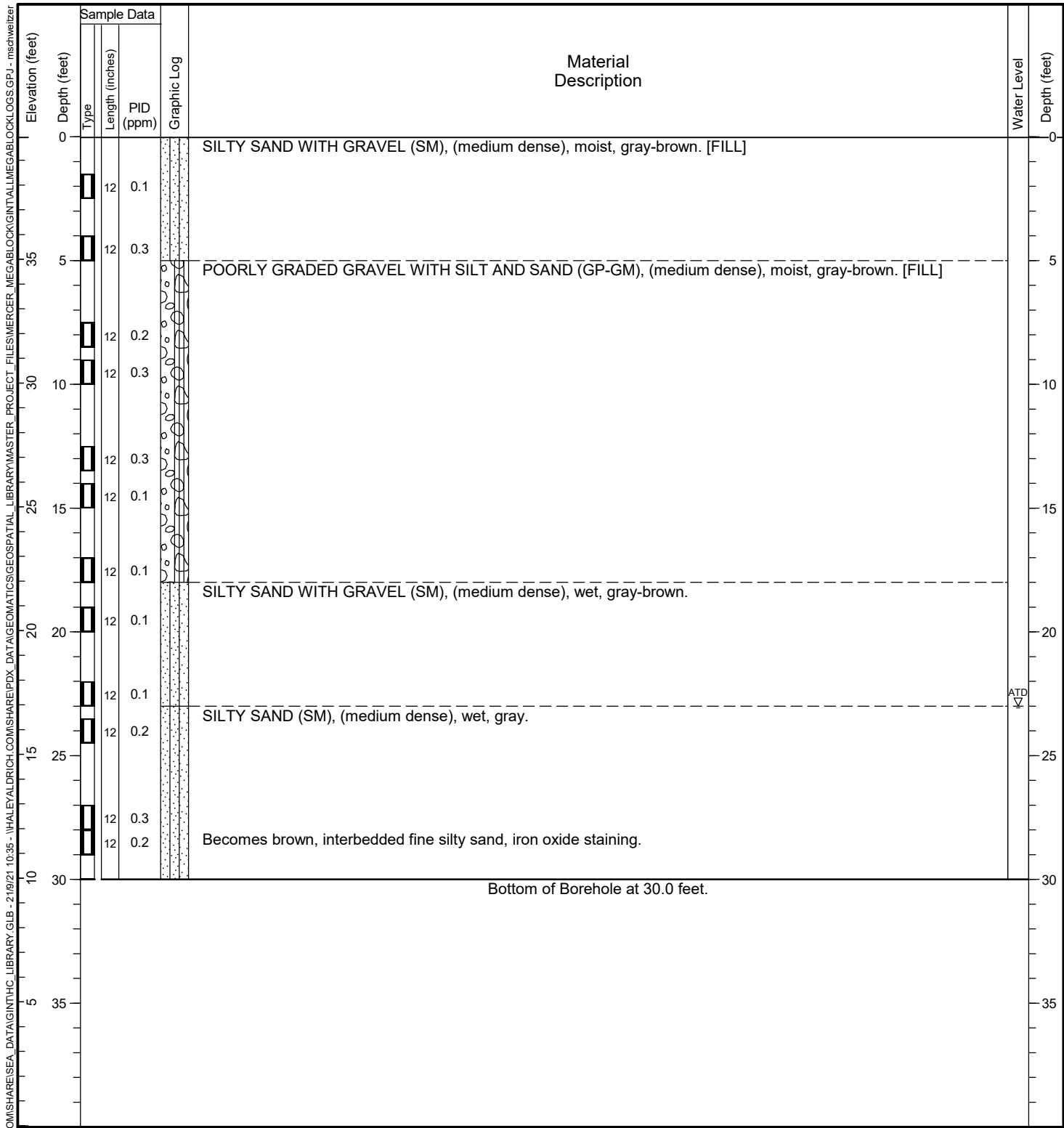
Elevation (feet)	Depth (feet)	Sample Data				Graphic Log	Material Description	Water Level	Depth (feet)
		Type	Length (inches)	Number Tests	PID (ppm)				
0	0						Concrete (4-inch thick) Air knife to 5.2 feet. Broken rebar, wood stake and debris in hole at 2 feet, appears to be silty gravel with sand to 5.2 feet		0
5	5	3	3	MBB-26-5 No odor	<0.1	NS	POORLY GRADED GRAVEL (GP), (loose), moist, pink to gray to brown, subrounded to rounded gravel.		5
10	10	12	12	MBB-26-10 No odor	<0.1	NS	POORLY GRADED SAND WITH GRAVEL (SP), (loose), moist, gray-brown.		10
15	15	12	12	MBB-26-15 No odor	<0.1	NS	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM), (loose), moist, gray-brown to red-brown, subrounded to rounded gravel.		15
20	20	12	12	MBB-26-20 No odor	<0.1	NS	caving 16 to 20 feet during sample retrieval SILTY SAND (SM), (loose), moist, gray-brown, fine sand, frequent iron oxide staining. SANDY SILT (ML), (medium stiff), moist, gray-brown, occasional iron oxide staining.		20
25	25	12	12	MBB-26-25 No odor	<0.1	NS	POORLY GRADED SAND (SP), trace gravel, (loose), moist, gray-brown, fine to medium sand.		25
30	30	12	12	MBB-26-30(D) No odor	<0.1	NS	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM), (very dense), moist, light brown to gray-brown, subangular to subrounded gravel.		30
35	35	12	12	MBB-26-35 No odor	<0.1	NS	SILTY SAND (SM), trace gravel, (dense), wet, gray, fine sand with occasional partings to layers of medium sand, frequent iron oxide staining. caving 30 to 40 feet	ATD 35	35
40	40	6	6	MBB-26-40 No odor	<0.1	NS	SANDY SILT (ML), trace gravel, (very stiff), wet, gray. SILTY SAND (SM), few fine to coarse subrounded to rounded gravel, (dense), wet, gray.		40

General Notes:
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 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Bottom of Borehole at 40.0 feet.

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Date Started: 03/06/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.625270 Long: -122.340358 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 39.95 feet (NAVD 88) Total Depth: 30 feet Depth to Groundwater: 23 feet
 Comments: _____

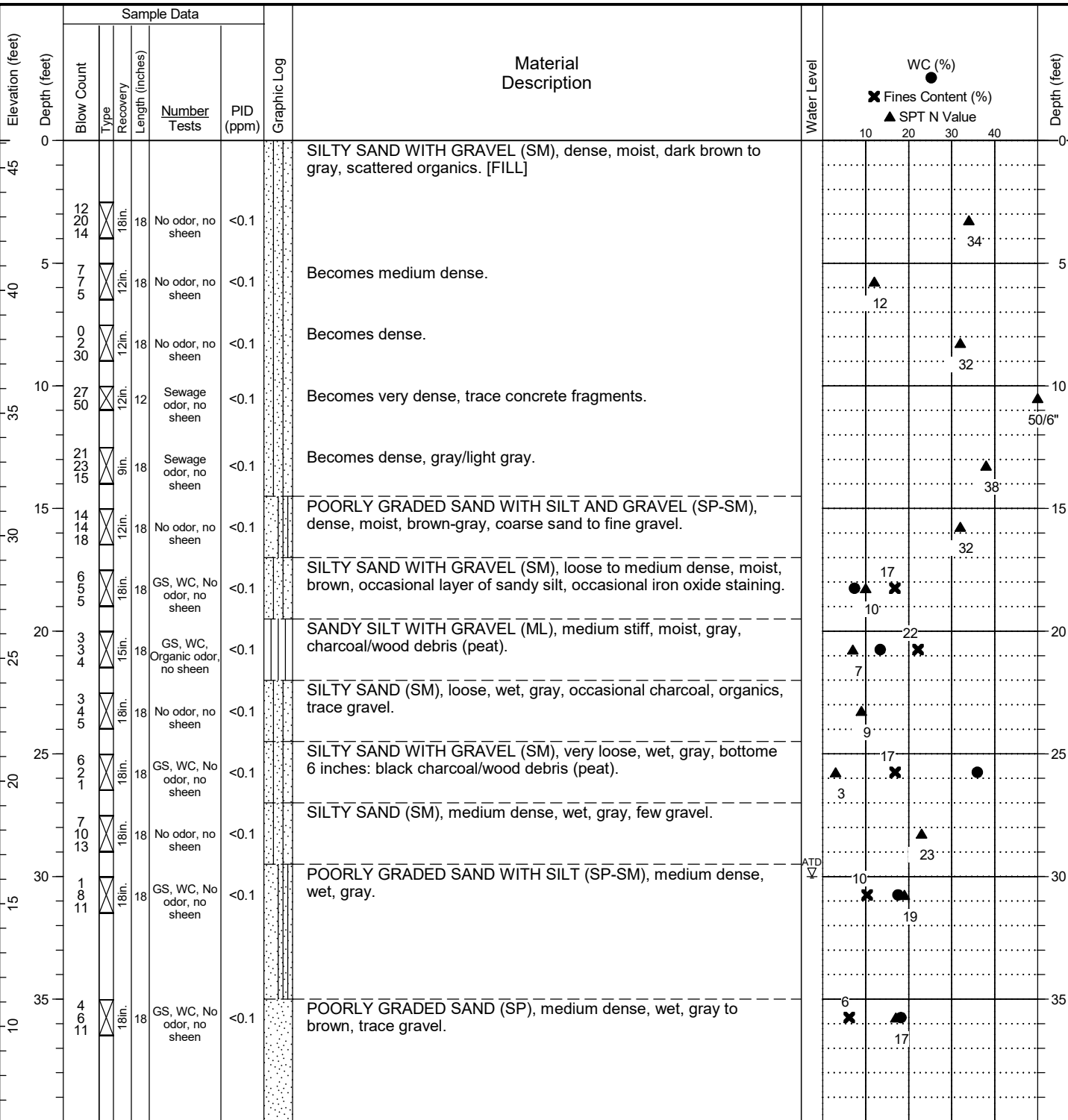


General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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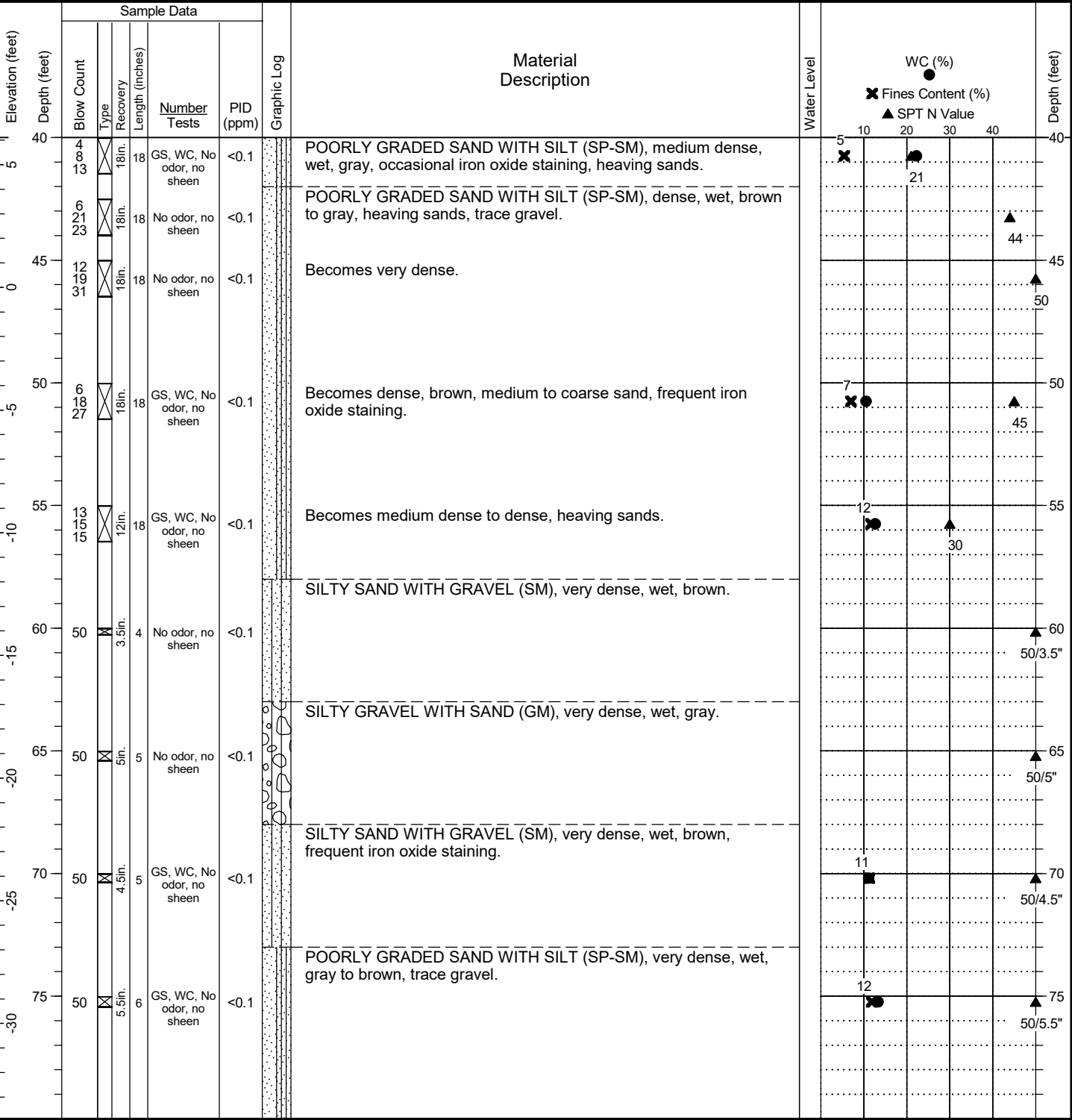
Date Started: 03/04/2019 Date Completed: 03/05/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625154 Long: -122.340374 (WGS 84) Rig Model/Type: Track Rig 115
 Ground Surface Elevation: 46.11 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 81 feet Depth to Groundwater: 30 feet

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General Notes:
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 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

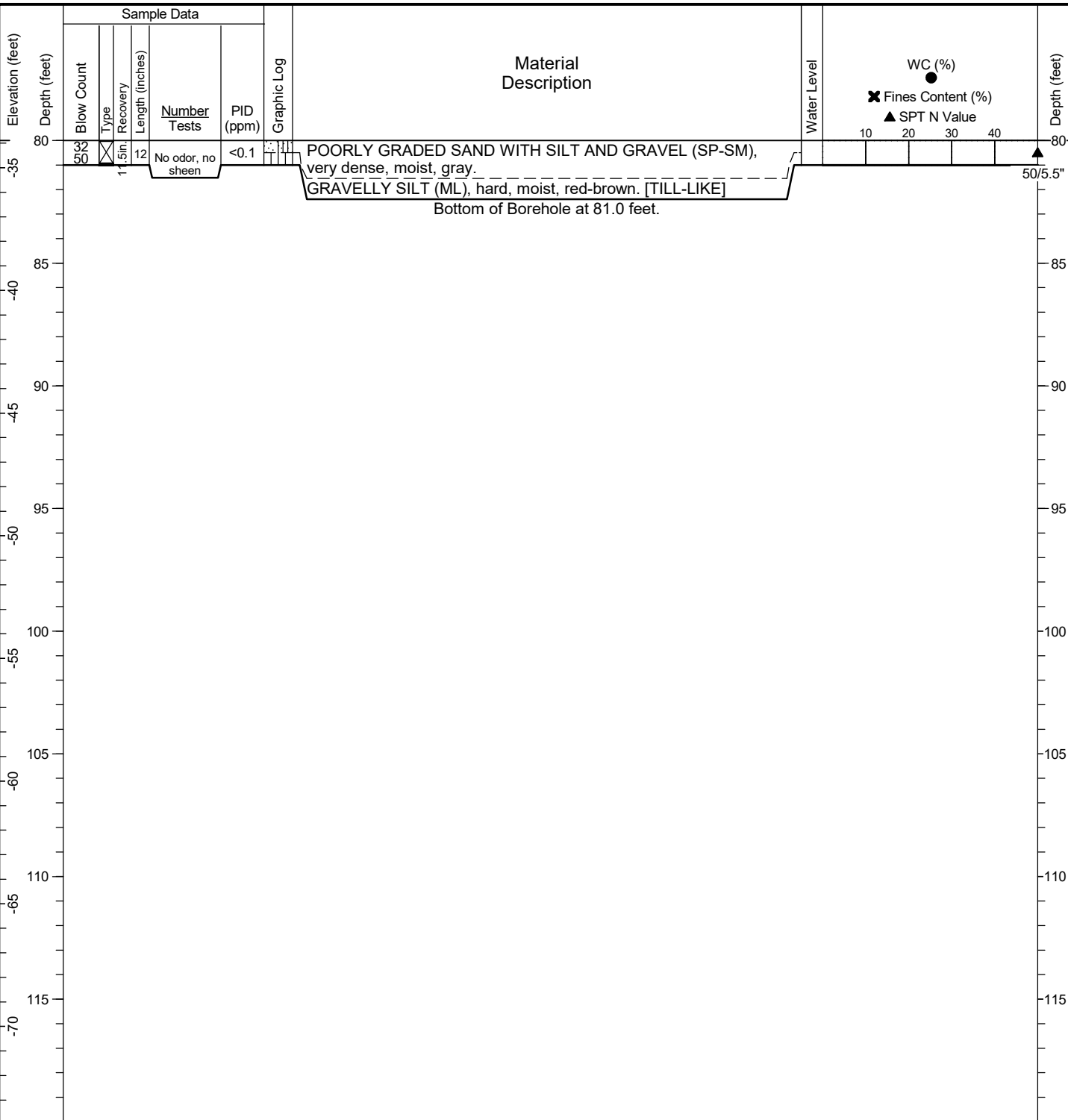
Date Started: 03/04/2019 Date Completed: 03/05/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625154 Long: -122.340374 (WGS 84) Rig Model/Type: Track Rig 115
 Ground Surface Elevation: 46.11 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 81 feet Depth to Groundwater: 30 feet



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 03/04/2019 Date Completed: 03/05/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625154 Long: -122.340374 (WGS 84) Rig Model/Type: Track Rig 115
 Ground Surface Elevation: 46.11 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 81 feet Depth to Groundwater: 30 feet



General Notes:

1. Refer to Figure A1-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.



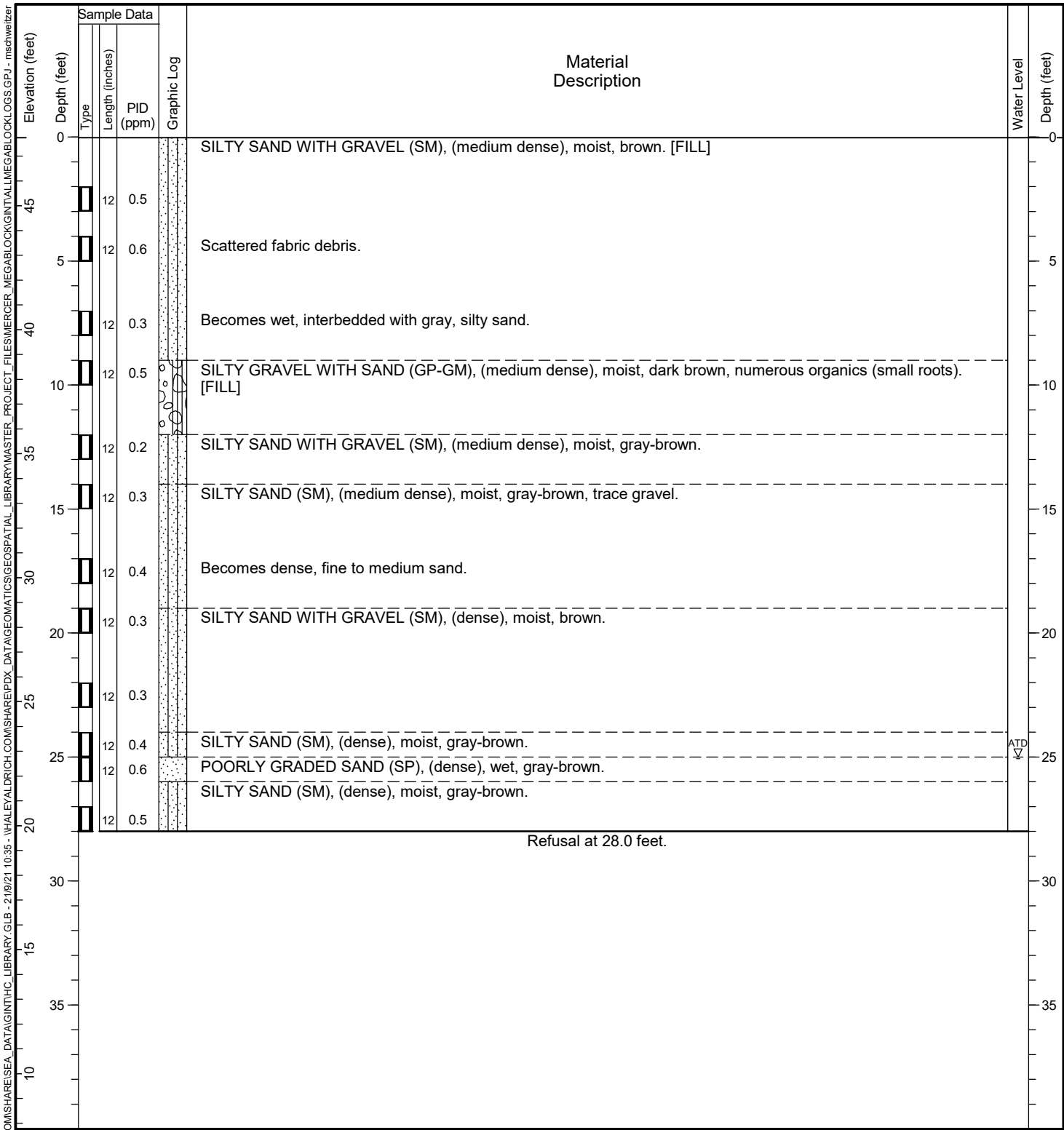
Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Boring Log
MBGW-2

Figure **A1-29**
 Sheet **3 of 3**

HC BORING LOG - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 10:35 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL_MEGABLOCKLOGS.GPJ - mschweizer

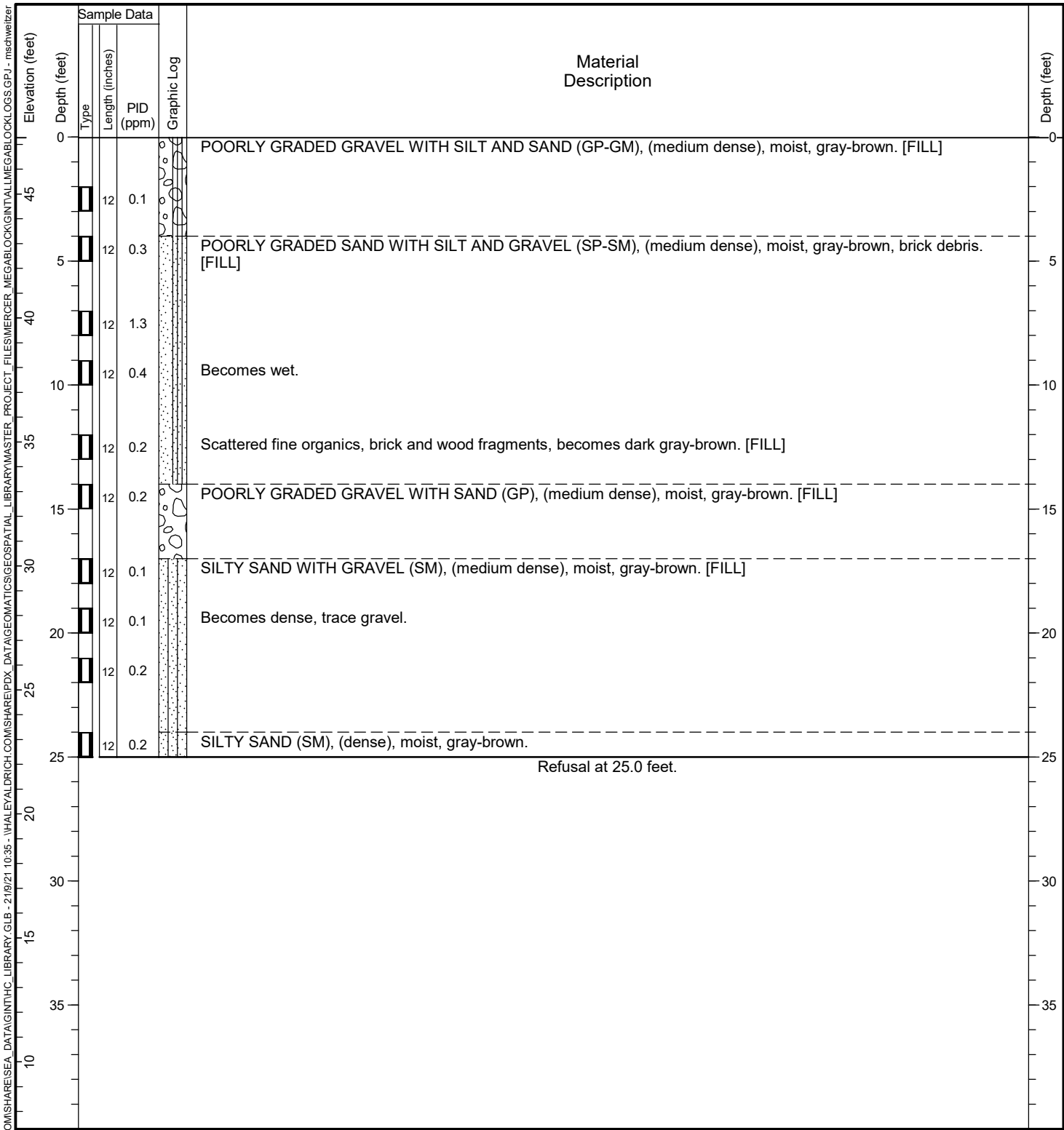
Date Started: 03/07/2019 Date Completed: 03/07/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.625180 Long: -122.340944 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 47.77 feet (NAVD 88) Total Depth: 28 feet Depth to Groundwater: 25 feet
 Comments: _____



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 03/06/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.625180 Long: -122.340728 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 47.30 feet (NAVD 88) Total Depth: 25 feet Depth to Groundwater: Not Identified
 Comments: _____



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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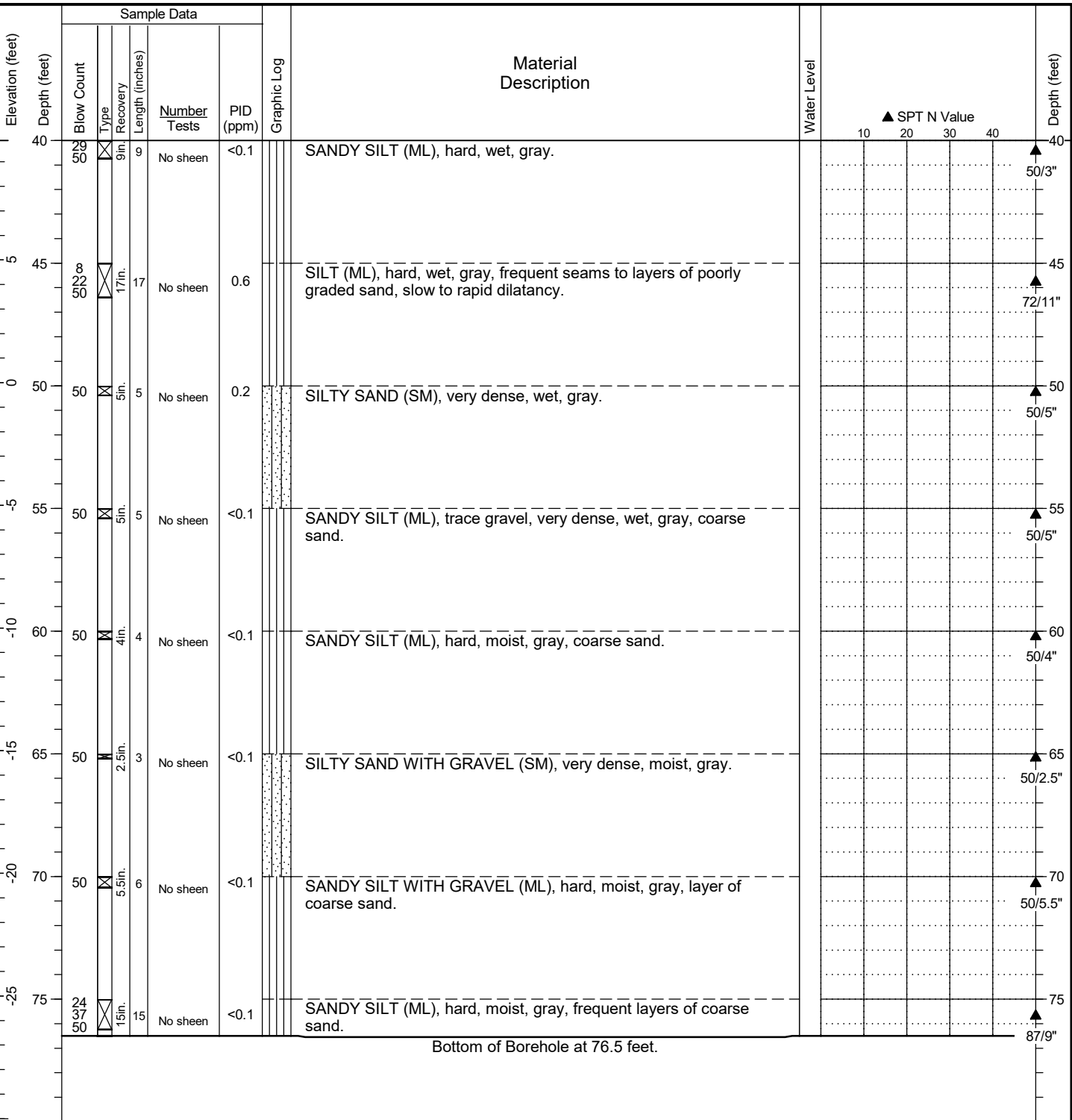
Date Started: 03/11/2019 Date Completed: 03/11/2019 Drilling Contractor/Crew: Holt Services, Inc. / Rayon Darling
 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625164 Long: -122.341284 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 49.87 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 76.5 feet Depth to Groundwater: 28 feet

Elevation (feet)	Depth (feet)	Sample Data				Graphic Log	Material Description	Water Level	SPT N Value	Depth (feet)
		Blow Count	Type	Recovery Length (inches)	Number Tests					
0	0					Asphalt.			0	
27	50	X	11 in.	11	Slight sheen	0.2	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), very dense, moist, light brown. [FILL]		50/5"	
50	50	X	5 in.	5	Slight sheen	0.1			50/5"	
31	50	X	11 in.	11	Slight sheen	0.1			50/5"	
33	50	X	9 in.	9	Slight sheen	0.1			50/3"	
32	44	X	18 in.	18	Slight sheen	<0.1	Abusive drilling. SILTY SAND WITH GRAVEL (SM), very dense, moist, light brown.		91	
15	23	X	18 in.	18	No sheen	0.1	SILTY SAND (SM), very dense, moist, light brown, layer of gravel.		70	
15	50	X	11 in.	11	No sheen	<0.1	SILTY SAND (SM), trace gravel, very dense, moist, light brown. Layer of black tar-like substance.		50/5"	
42	50	X	9 in.	9	No sheen	<0.1			50/3"	
50	50	X	6 in.	6	No sheen	<0.1	SANDY SILT (ML), trace gravel, hard, moist, light brown, frequent layers of sand.		50/6"	
26	50	X	12 in.	12	No sheen	<0.1	SANDY SILT (ML), hard, moist, light brown, frequent layers of sand, iron oxide staining.		50/6"	
44	50	X	9 in.	10	No sheen	<0.1	SILTY SAND (SM), very dense, wet, brown, layer of oxidized sand.	ATD	50/3.5"	
45	50	X	9 in.	9	No sheen	<0.1	SILTY SAND (SM), trace gravel, very dense, wet, brown, layer of poorly graded sand.		50/3"	
50	50	X	5 in.	5	No sheen	0.2	SILTY SAND (SM), few gravel, very dense, moist to wet, gray.		50/5"	

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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 03/11/2019 Date Completed: 03/11/2019 Drilling Contractor/Crew: Holt Services, Inc. / Rayon Darling
 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625164 Long: -122.341284 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 49.87 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 76.5 feet Depth to Groundwater: 28 feet

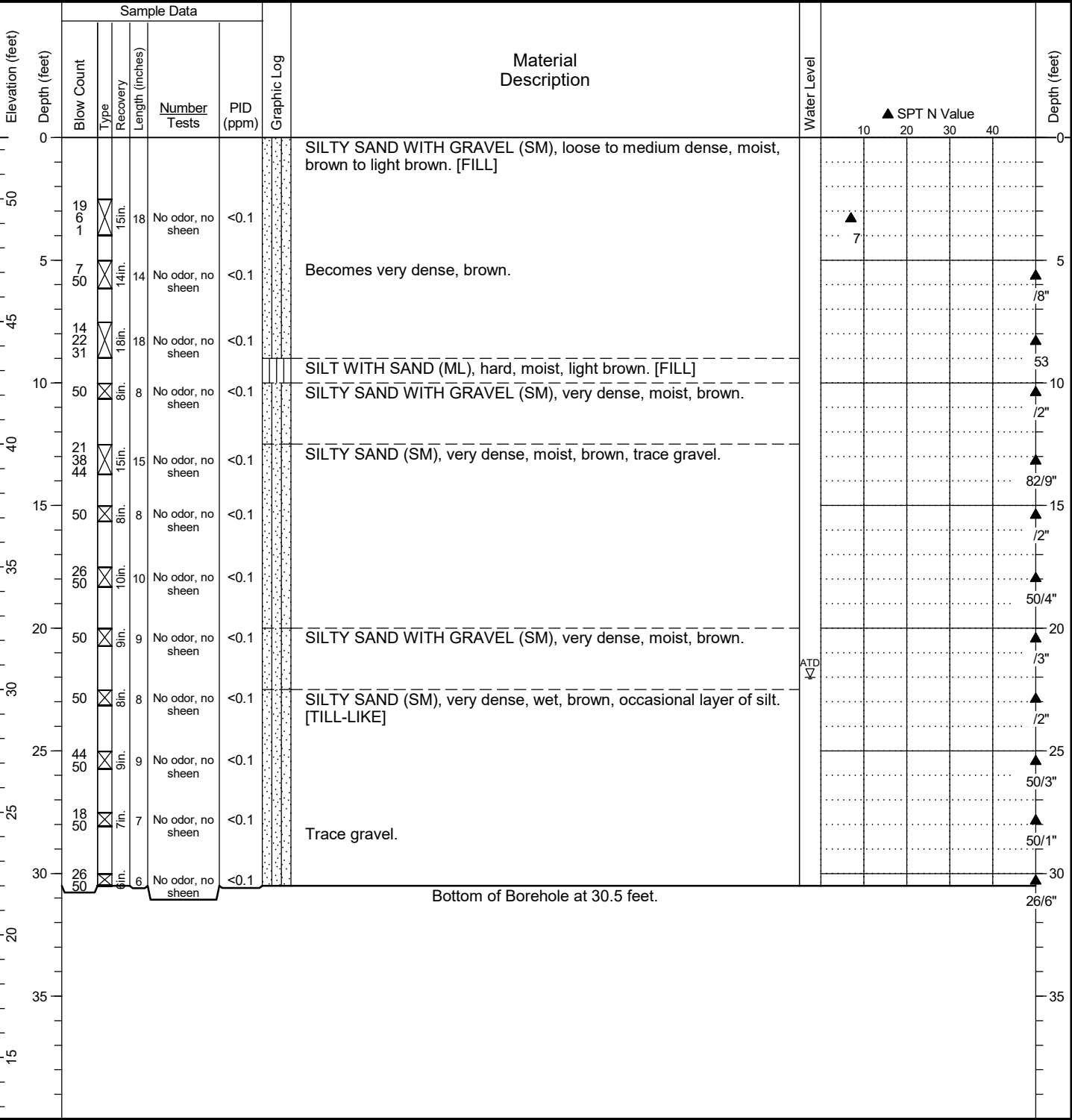


General Notes:

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3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

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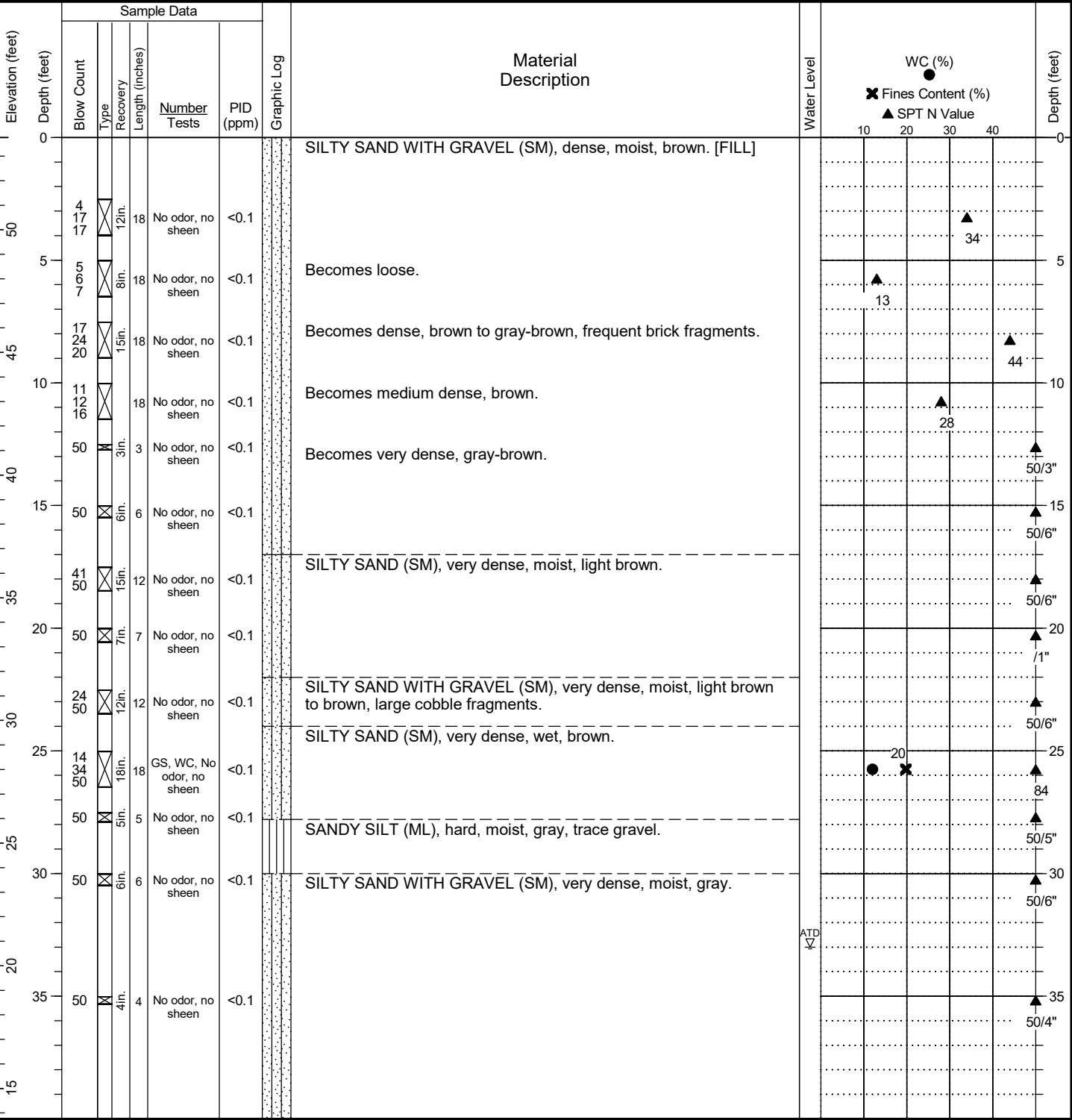
Date Started: 03/14/2019 Date Completed: 03/14/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625189 Long: -122.341668 (WGS 84) Rig Model/Type: CME-75 / Truck-mounted drill rig
 Ground Surface Elevation: 52.50 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 30.5 feet Depth to Groundwater: 22 feet



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 03/06/2019 Date Completed: 03/06/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624996 Long: -122.341667 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 53.76 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 75.3 feet Depth to Groundwater: 33 feet

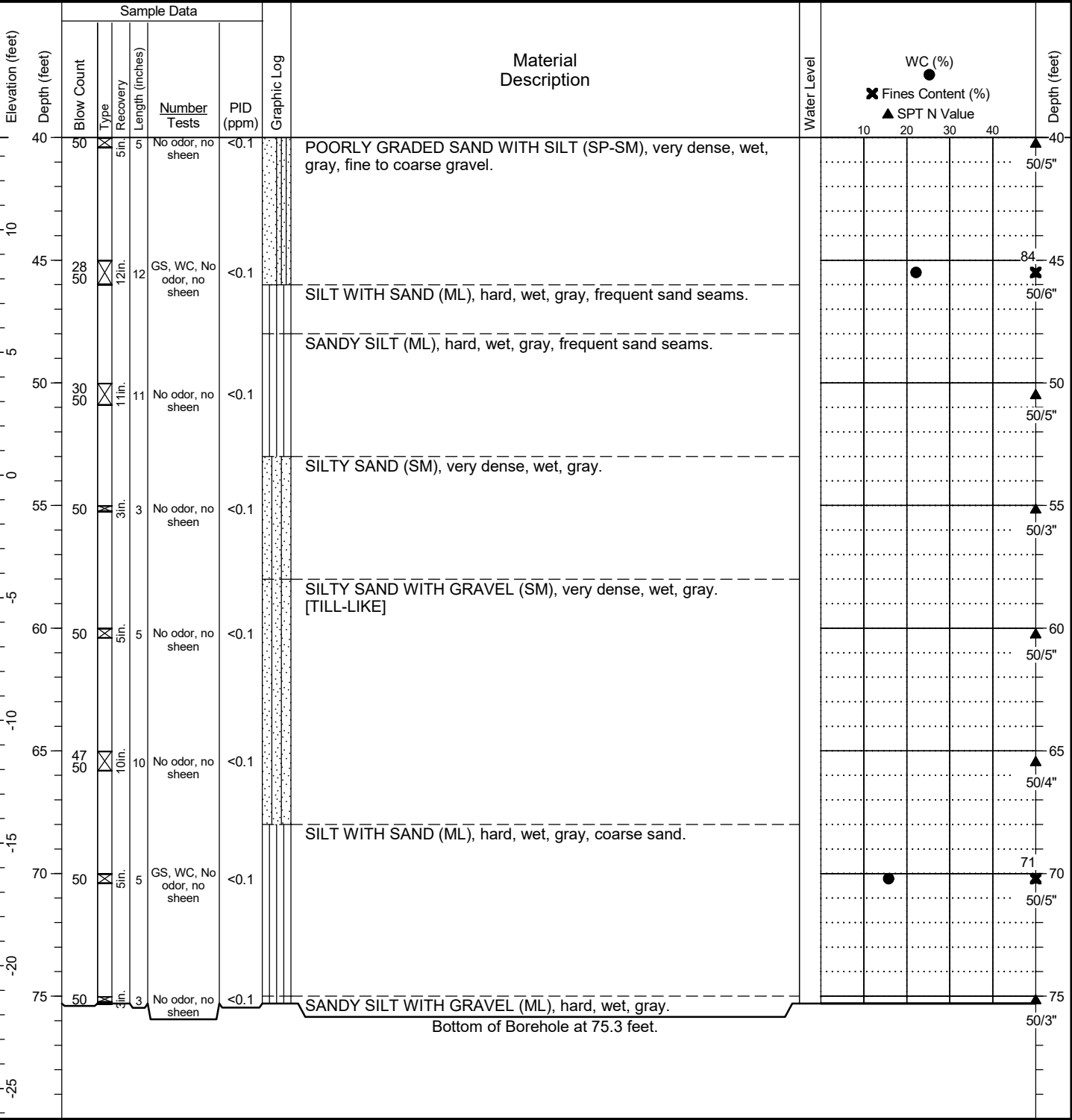


General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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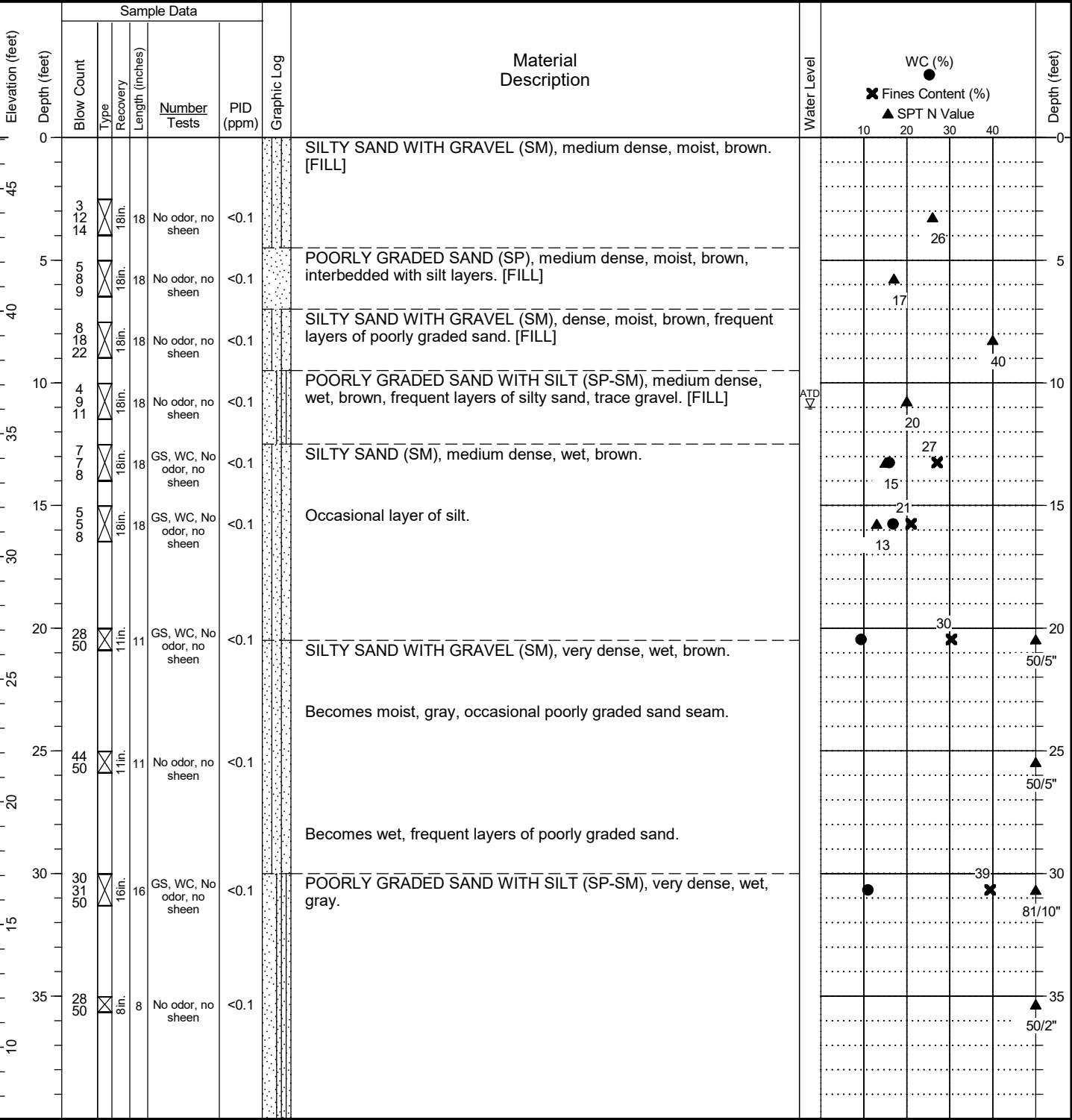
Date Started: 03/06/2019 Date Completed: 03/06/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624996 Long: -122.341667 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 53.76 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 75.3 feet Depth to Groundwater: 33 feet

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General Notes:
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 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

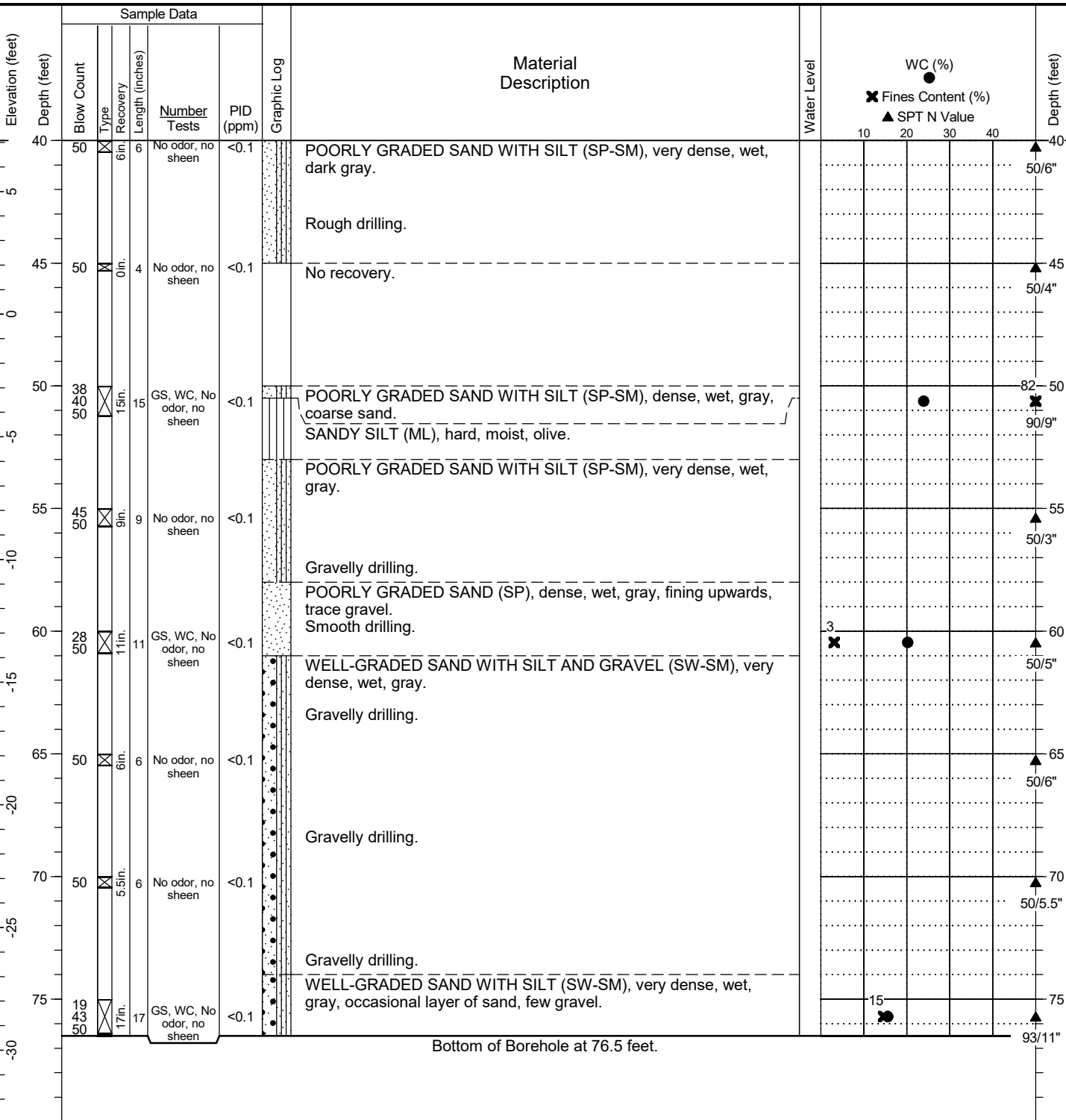
Date Started: 03/15/2019 Date Completed: 03/15/2019 Drilling Contractor/Crew: Holt Services, Inc. / Rayon Darling
 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624879 Long: -122.340770 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 47.08 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 76.5 feet Depth to Groundwater: 11 feet



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

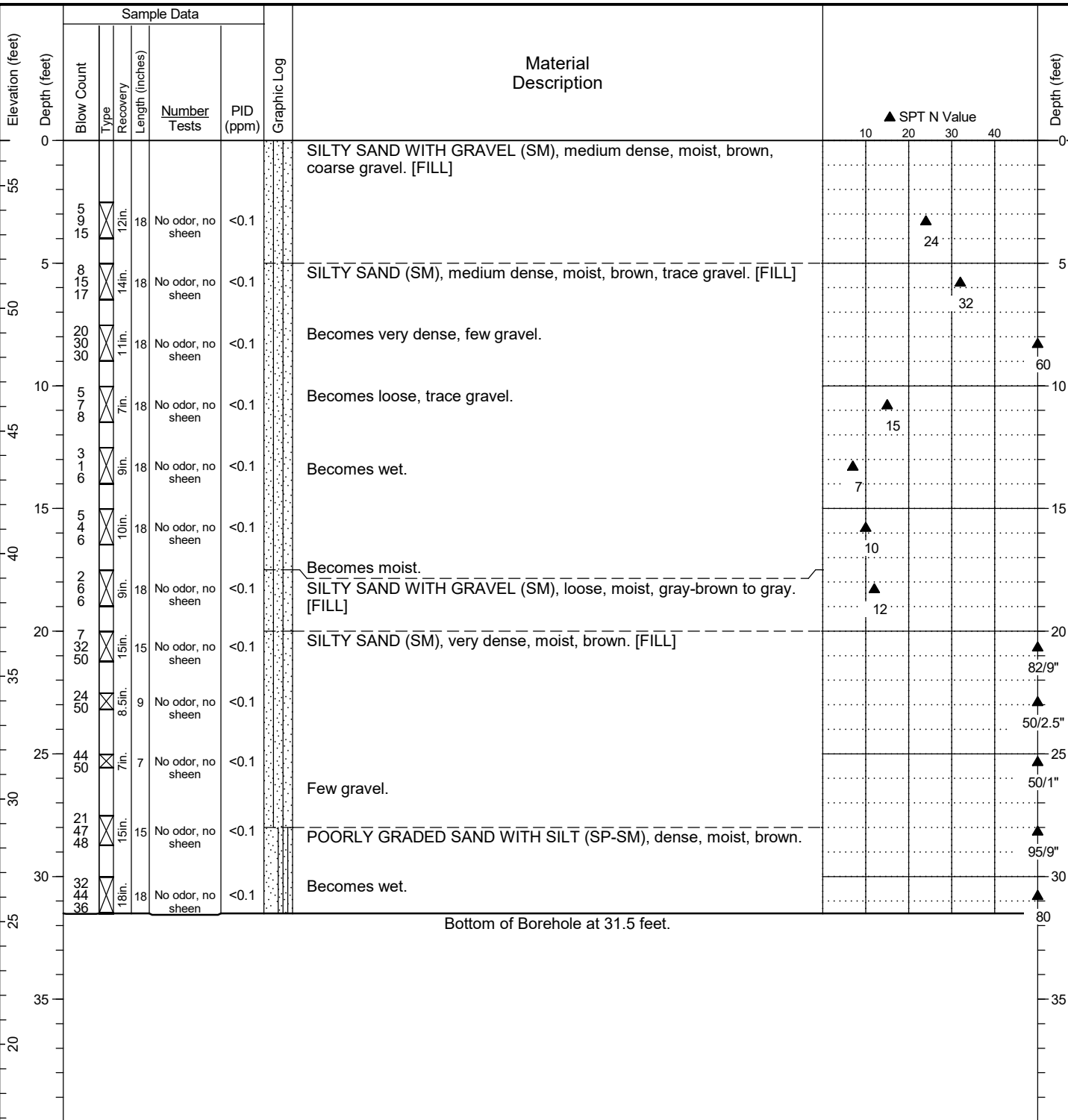
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Date Started: 03/15/2019 Date Completed: 03/15/2019 Drilling Contractor/Crew: Holt Services, Inc. / Rayon Darling
 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624879 Long: -122.340770 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 47.08 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 76.5 feet Depth to Groundwater: 11 feet



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 03/13/2019 Date Completed: 03/13/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624801 Long: -122.341762 (WGS 84) Rig Model/Type: CME-75 / Truck-mounted drill rig
 Ground Surface Elevation: 56.84 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 31.5 feet Depth to Groundwater: Not Identified

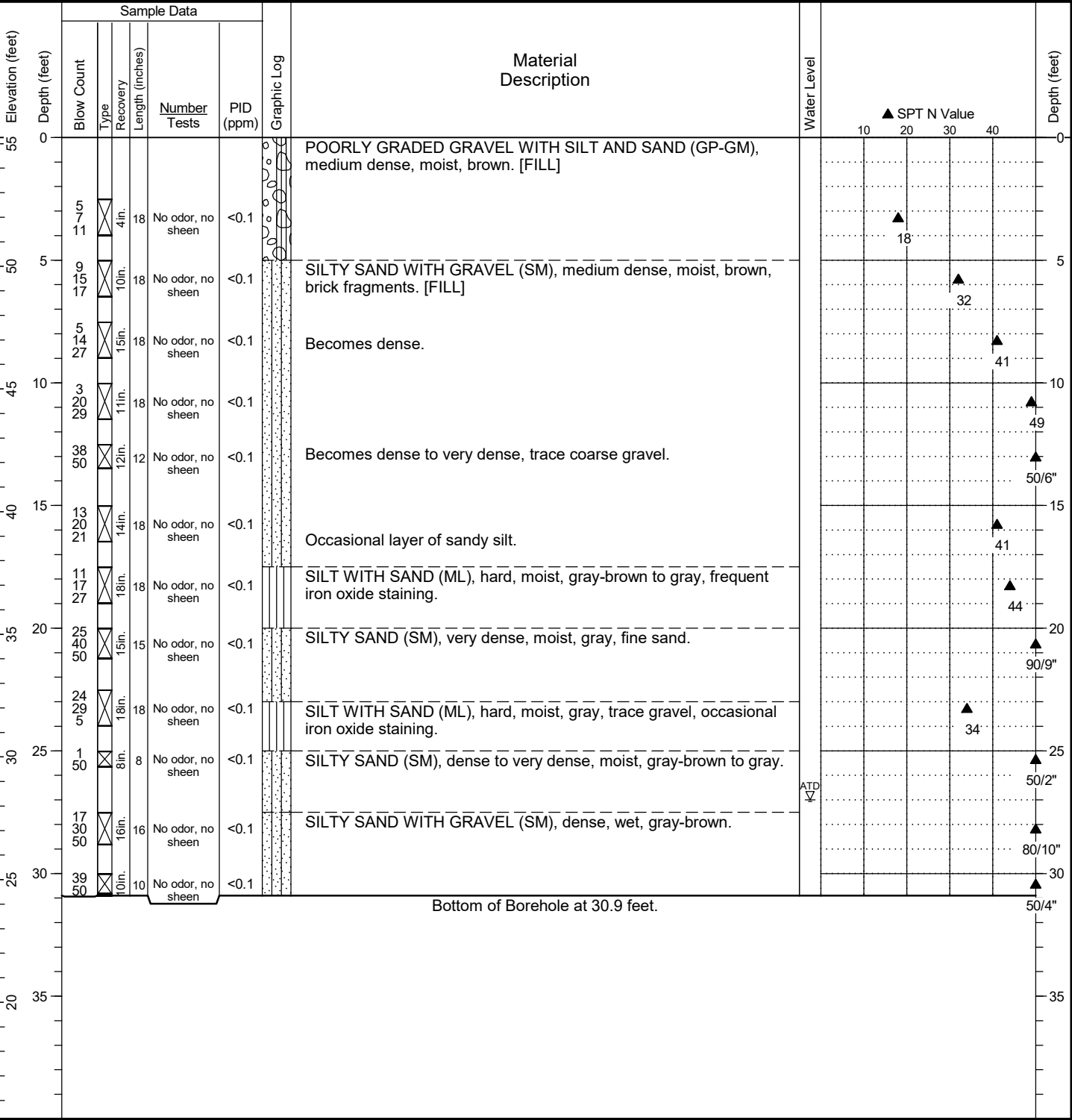


General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 11:13 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEO\MATRICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweizer

Date Started: 03/13/2019 Date Completed: 03/13/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624720 Long: -122.341638 (WGS 84) Rig Model/Type: CME-75 / Truck-mounted drill rig
 Ground Surface Elevation: 55.25 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 30.9 feet Depth to Groundwater: 27 feet

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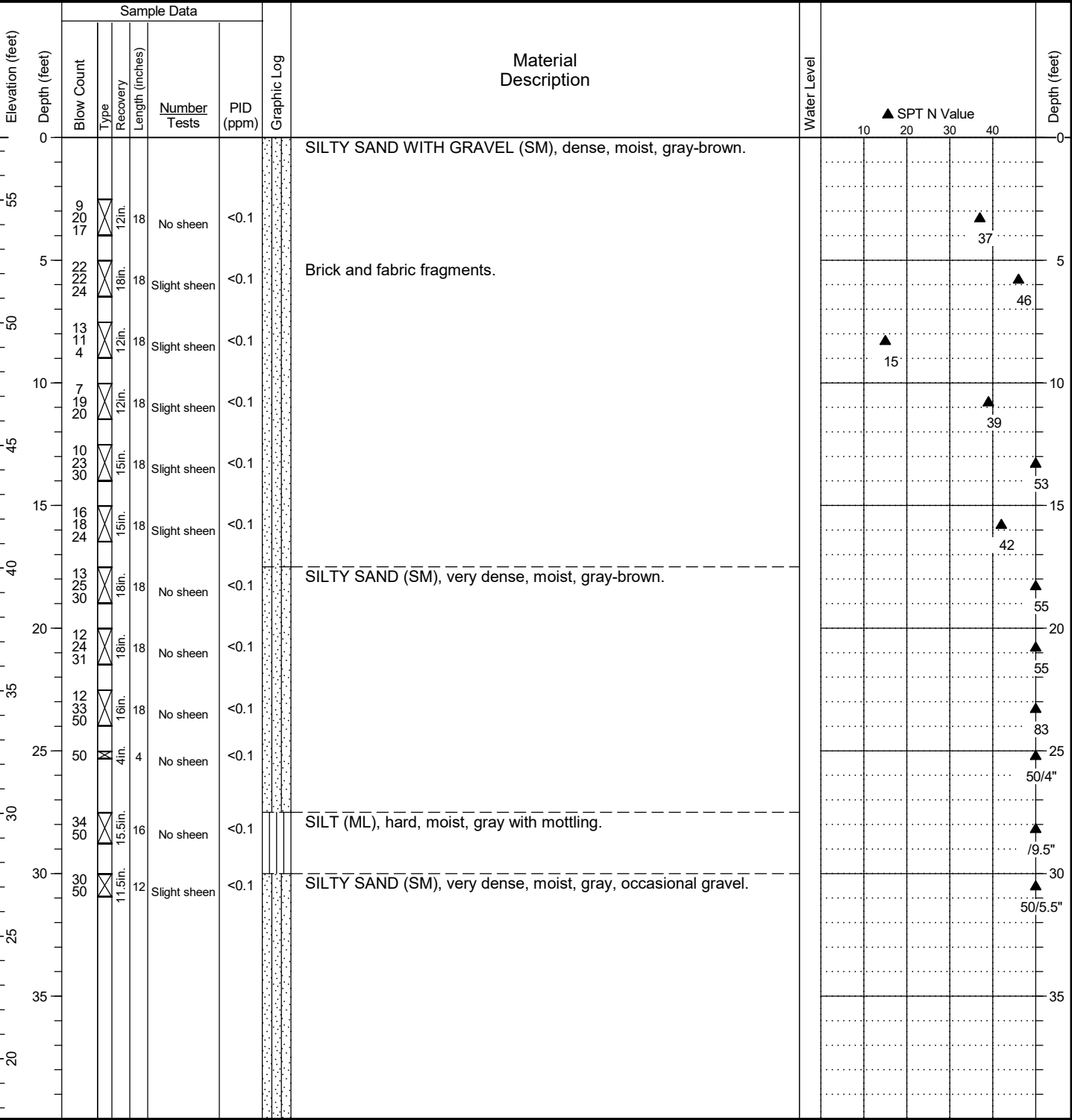


General Notes:

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2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

Date Started: 03/12/2019 Date Completed: 03/12/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: B. Dozier Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624681 Long: -122.341850 (WGS 84) Rig Model/Type: CME-75 / Truck-mounted drill rig
 Ground Surface Elevation: 57.55 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 50 feet Depth to Groundwater: 45.5 feet

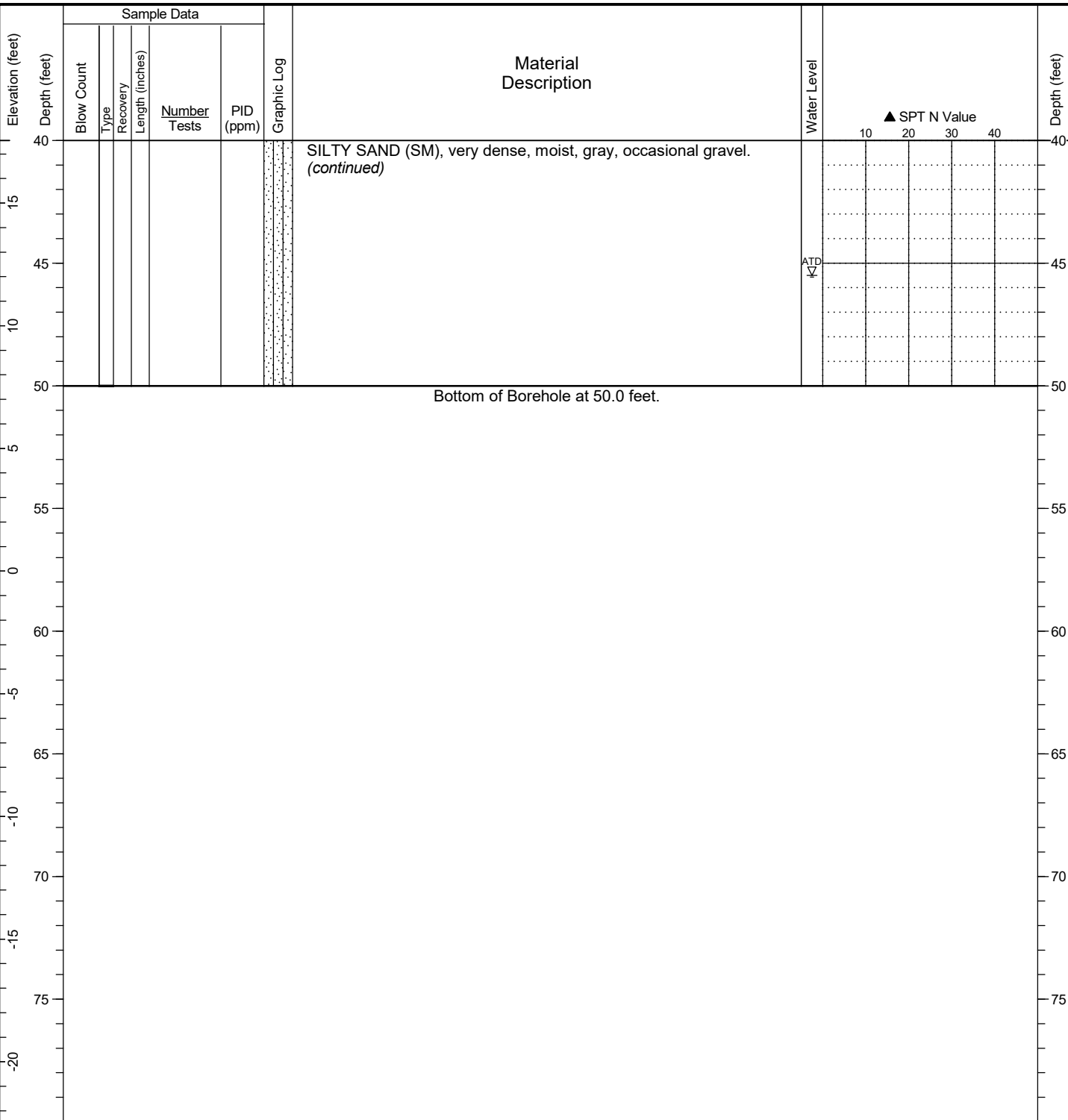
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General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 03/12/2019 Date Completed: 03/12/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: B. Dozier Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624681 Long: -122.341850 (WGS 84) Rig Model/Type: CME-75 / Truck-mounted drill rig
 Ground Surface Elevation: 57.55 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: _____ Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 _____ Measured Hammer Efficiency (%): Not Available
 _____ Hole Diameter: 5.875 inches Casing Diameter: NA
 _____ Total Depth: 50 feet Depth to Groundwater: 45.5 feet

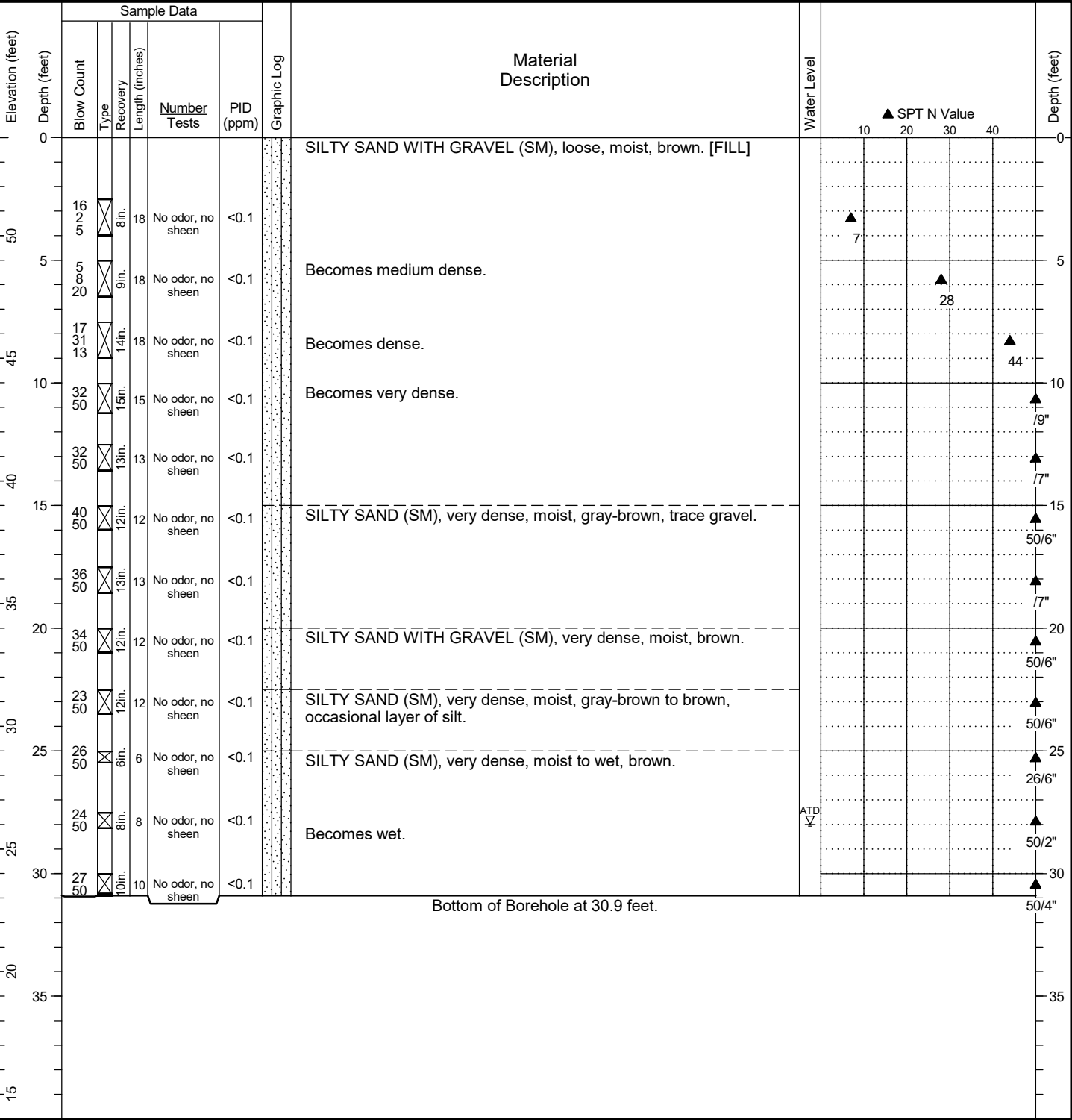
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General Notes:
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 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 03/15/2019 Date Completed: 03/15/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625272 Long: -122.341838 (WGS 84) Rig Model/Type: CME-75 / Truck-mounted drill rig
 Ground Surface Elevation: 54.00 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: _____ Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 30.9 feet Depth to Groundwater: 28 feet

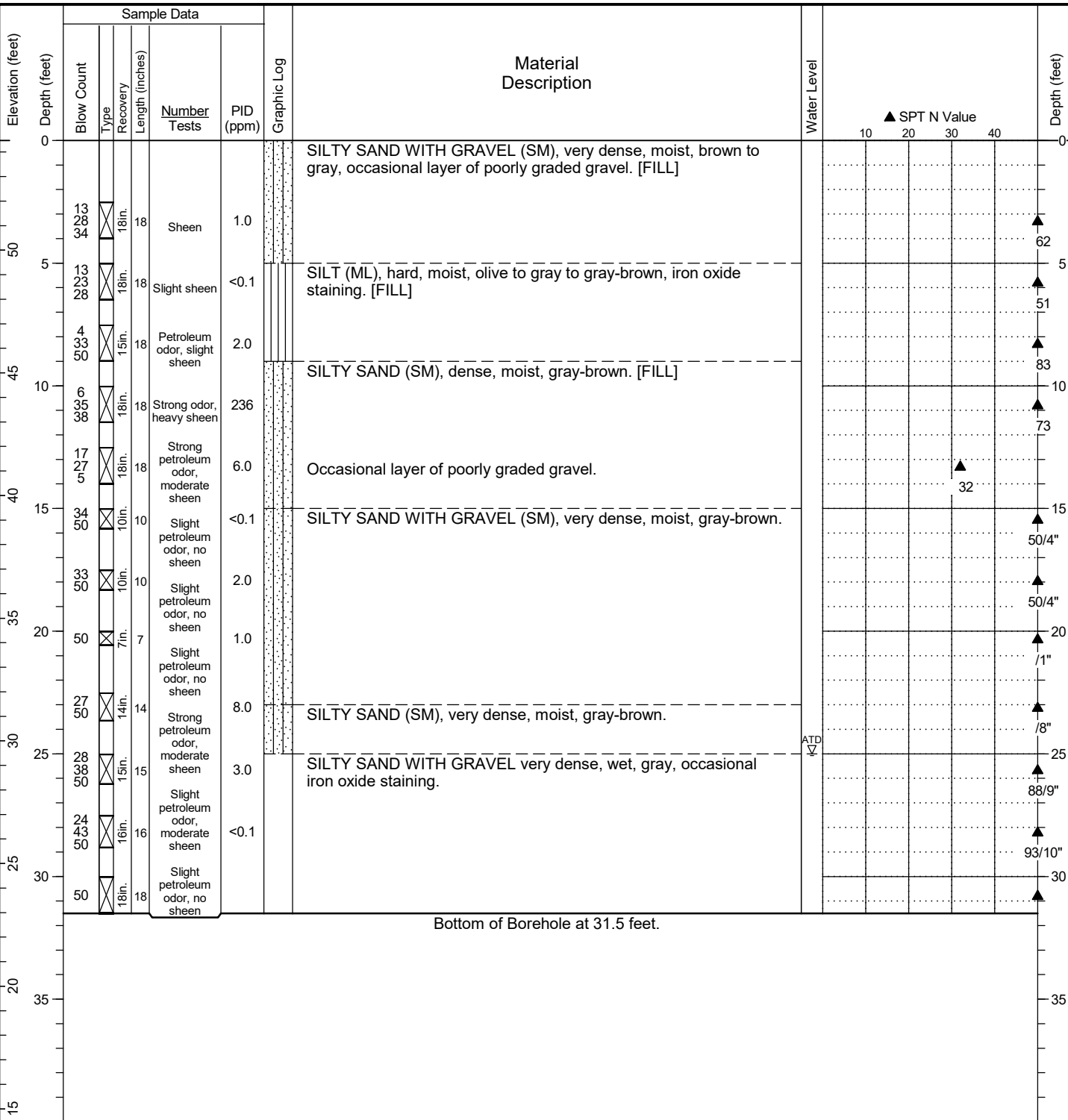
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General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

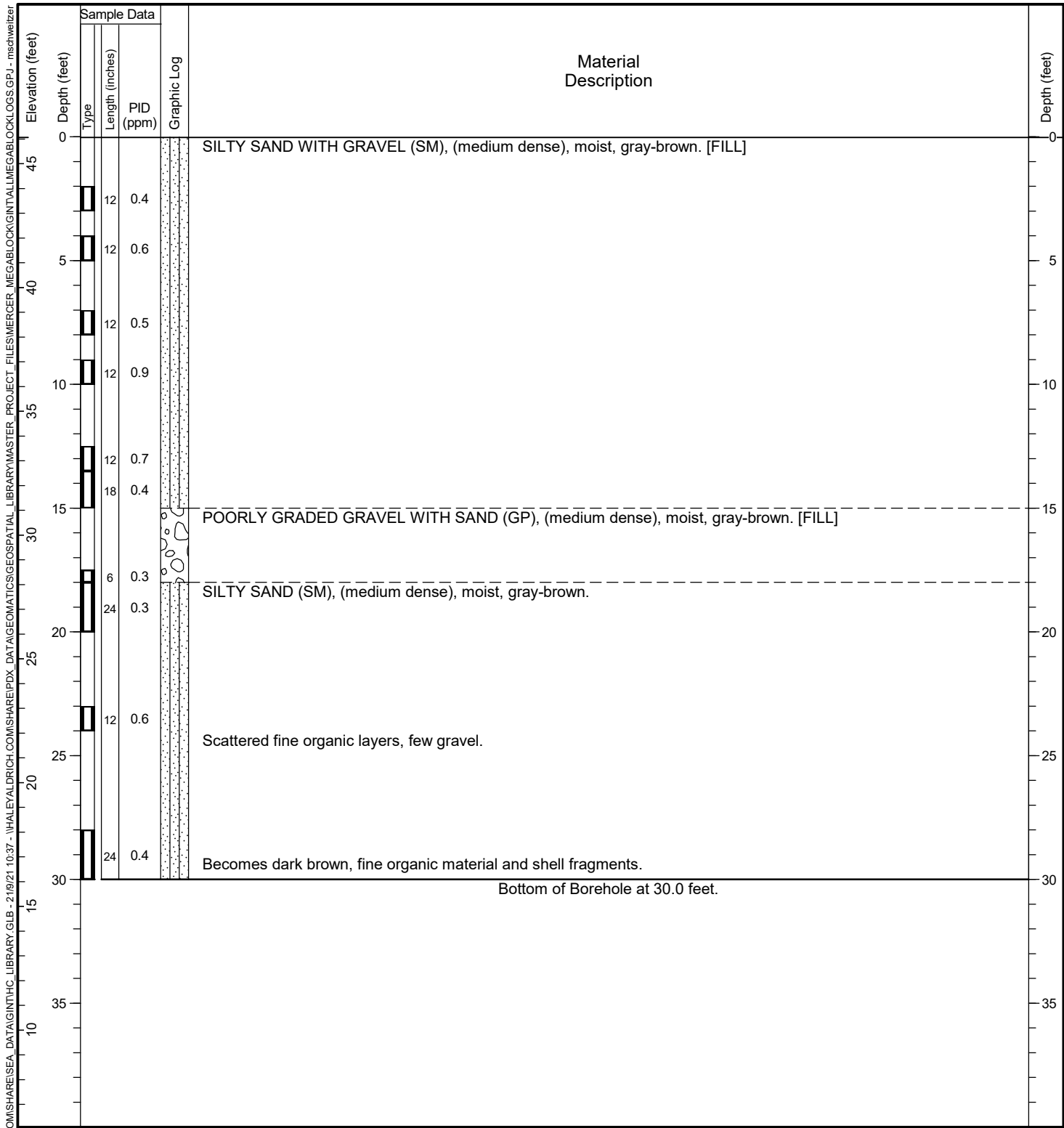
Date Started: 03/14/2019 Date Completed: 03/14/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: C. Kroskie/M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625181 Long: -122.341894 (WGS 84) Rig Model/Type: CME-75 / Truck-mounted drill rig
 Ground Surface Elevation: 54.47 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 31.5 feet Depth to Groundwater: 25 feet

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General Notes:
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 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 03/06/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.624992 Long: -122.340116 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 46.09 feet (NAVD 88) Total Depth: 30 feet Depth to Groundwater: Not Identified
 Comments: _____

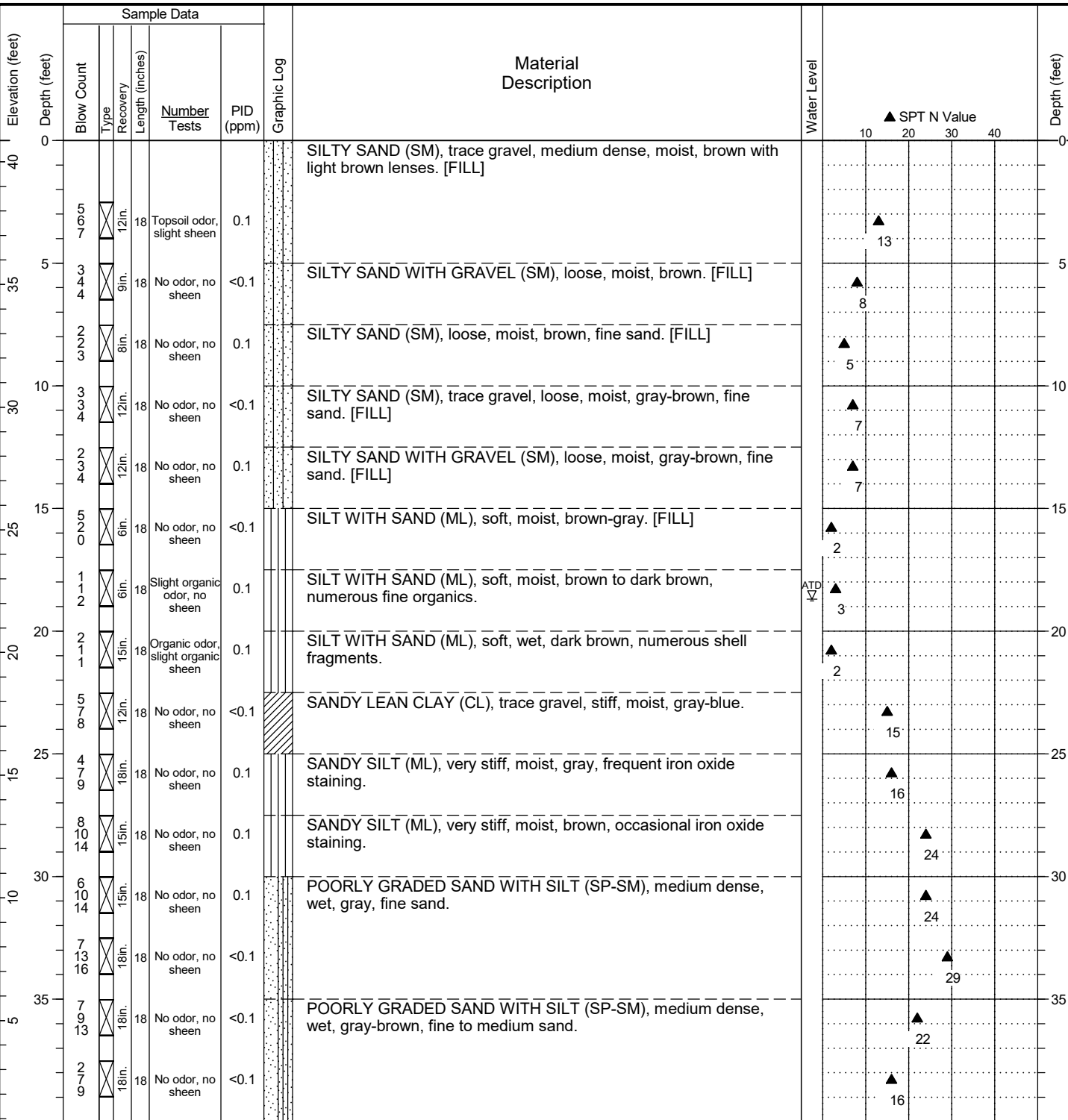


General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 03/08/2019 Date Completed: 03/11/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: C. McCabe/B. McDonald Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624865 Long: -122.340056 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 40.87 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 81 feet Depth to Groundwater: 18.7 feet

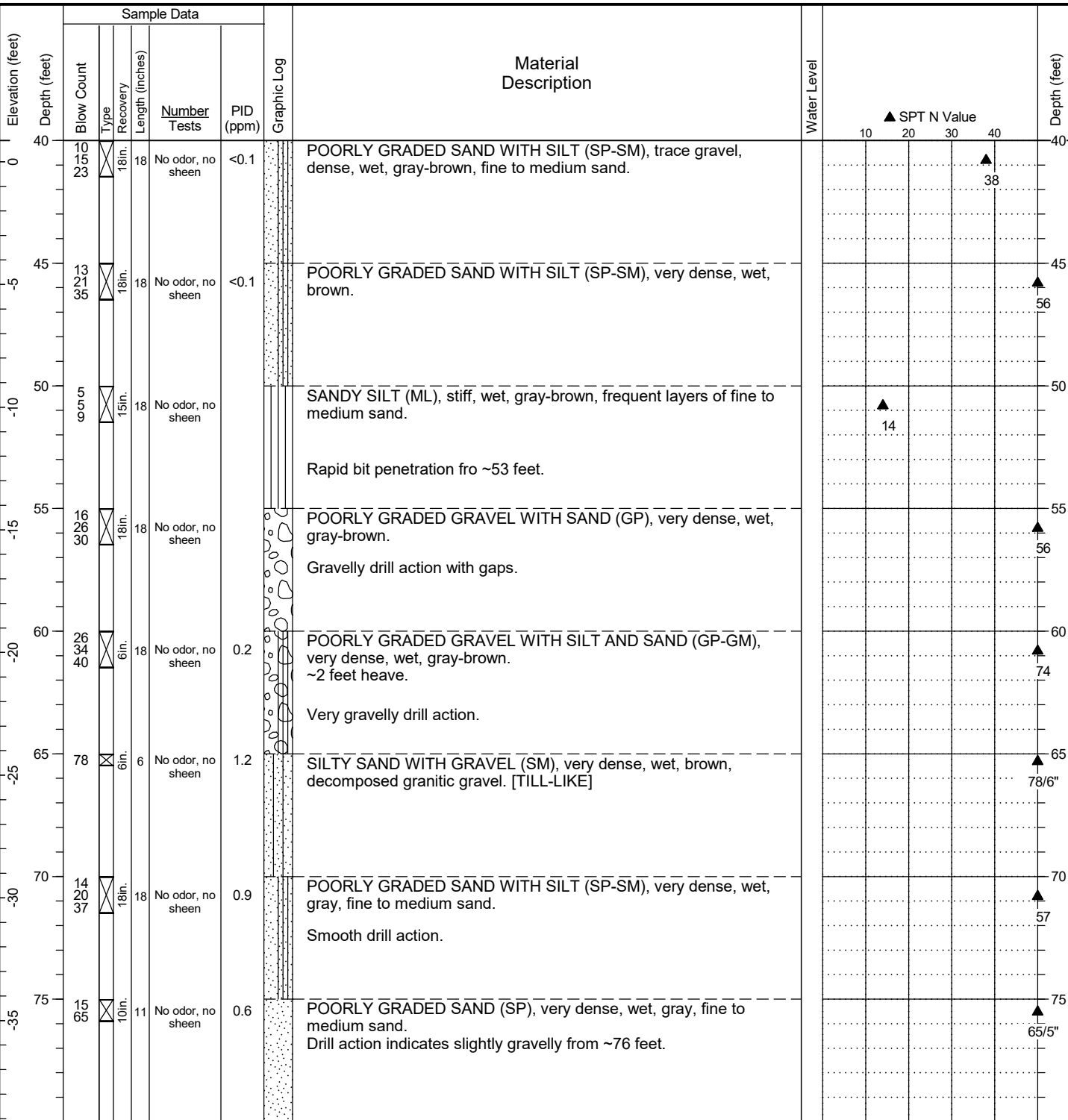
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General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

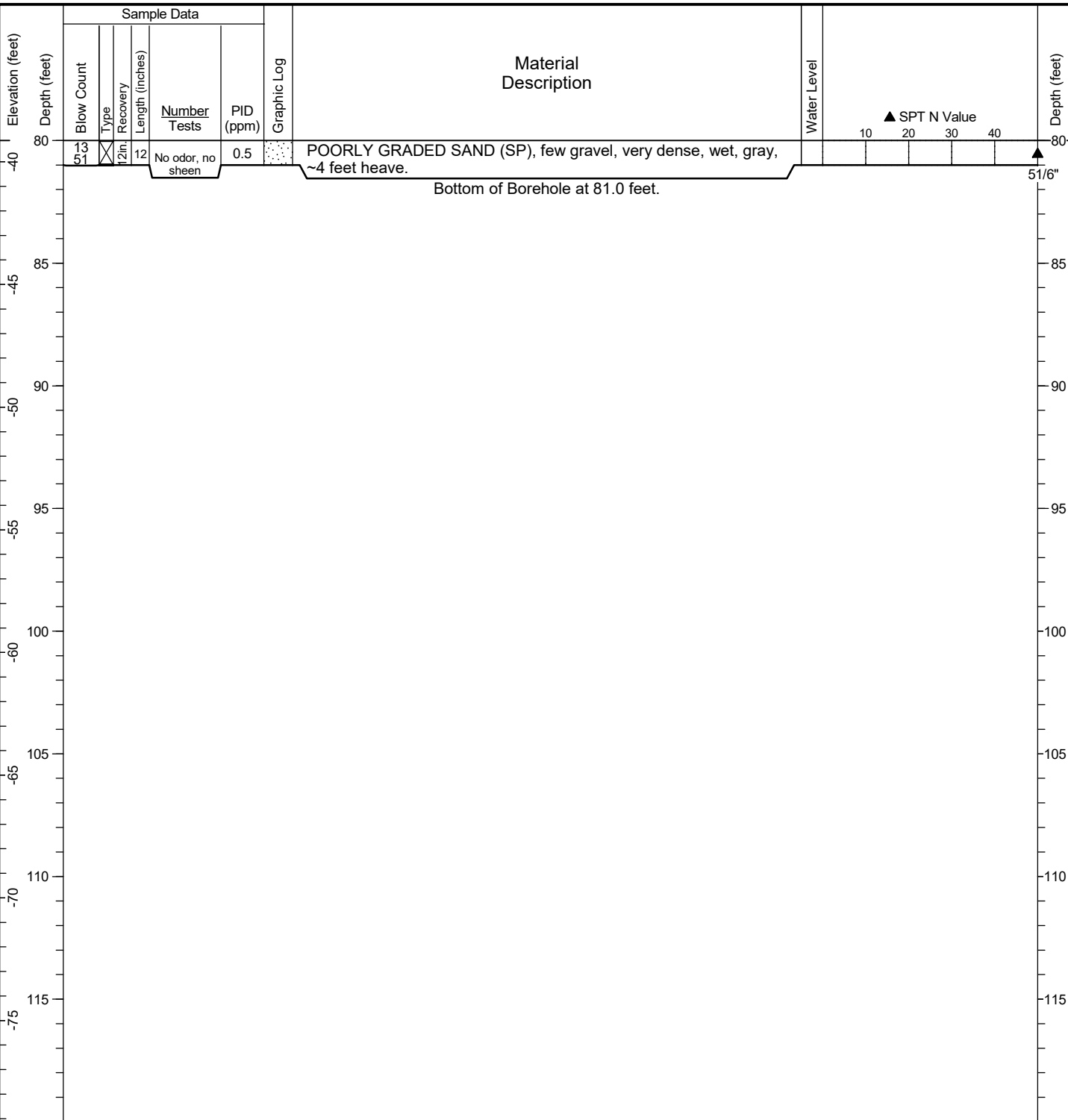
Date Started: 03/08/2019 Date Completed: 03/11/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: C. McCabe/B. McDonald Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624865 Long: -122.340056 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 40.87 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 81 feet Depth to Groundwater: 18.7 feet

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- General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

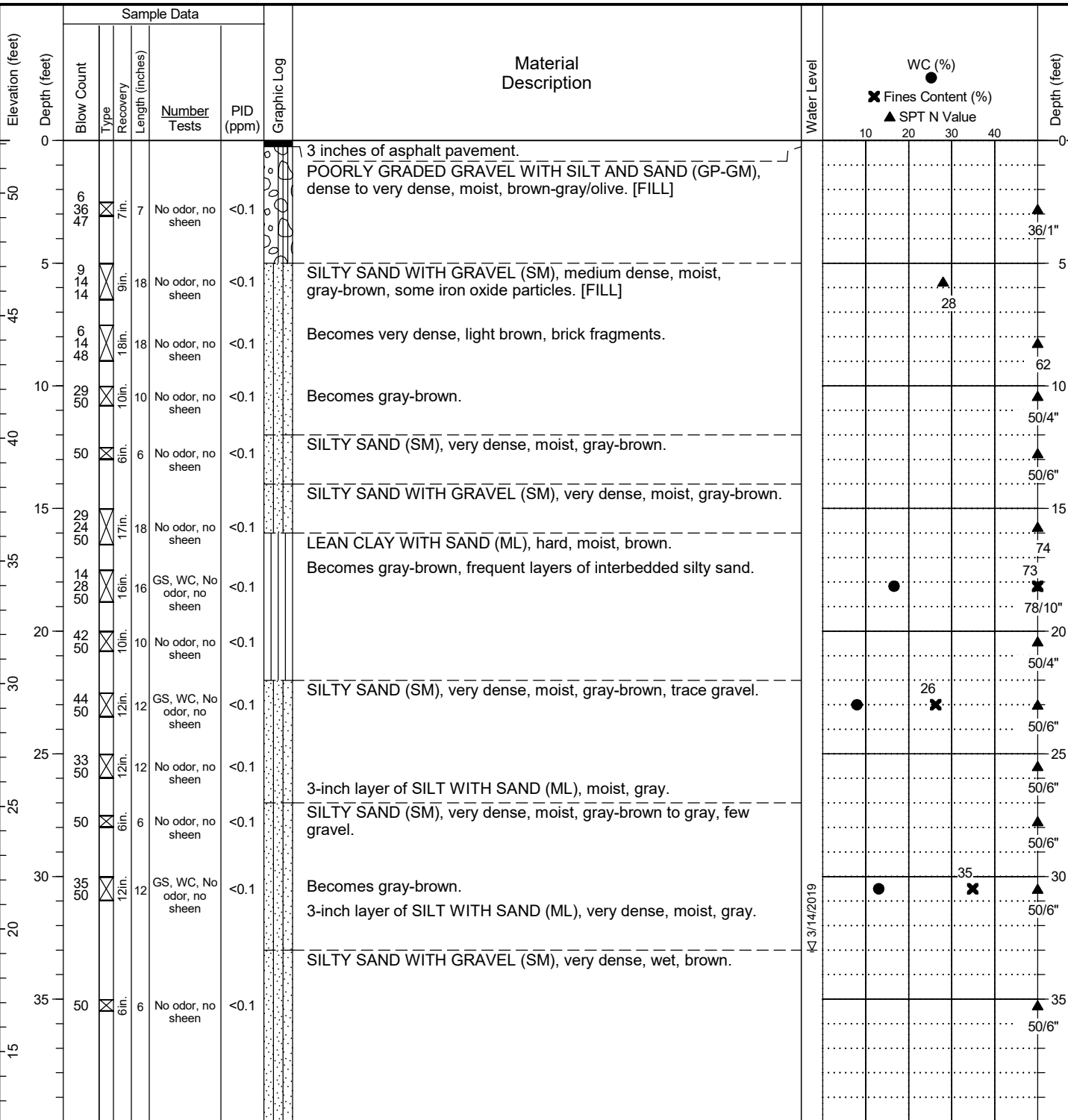
Date Started: 03/08/2019 Date Completed: 03/11/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: C. McCabe/B. McDonald Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624865 Long: -122.340056 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 40.87 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 81 feet Depth to Groundwater: 18.7 feet



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 03/08/2019 Date Completed: 03/14/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian/C. Kroskie Checked by: C. Kroskie/Z. Yell Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624787 Long: -122.341347 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 52.14 feet (NAVD 88) Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Comments: Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 75.5 feet Depth to Groundwater: 33 feet

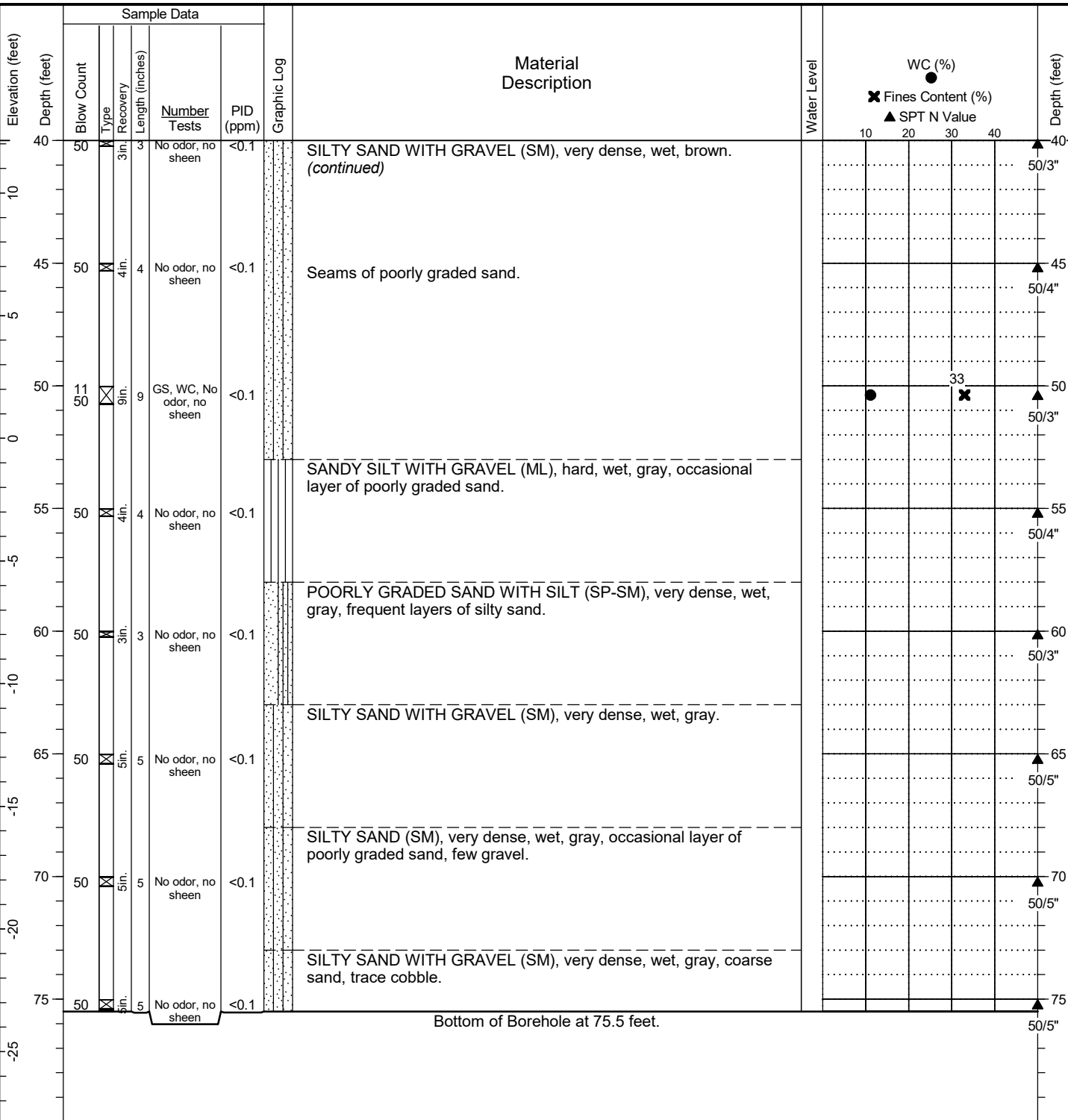


General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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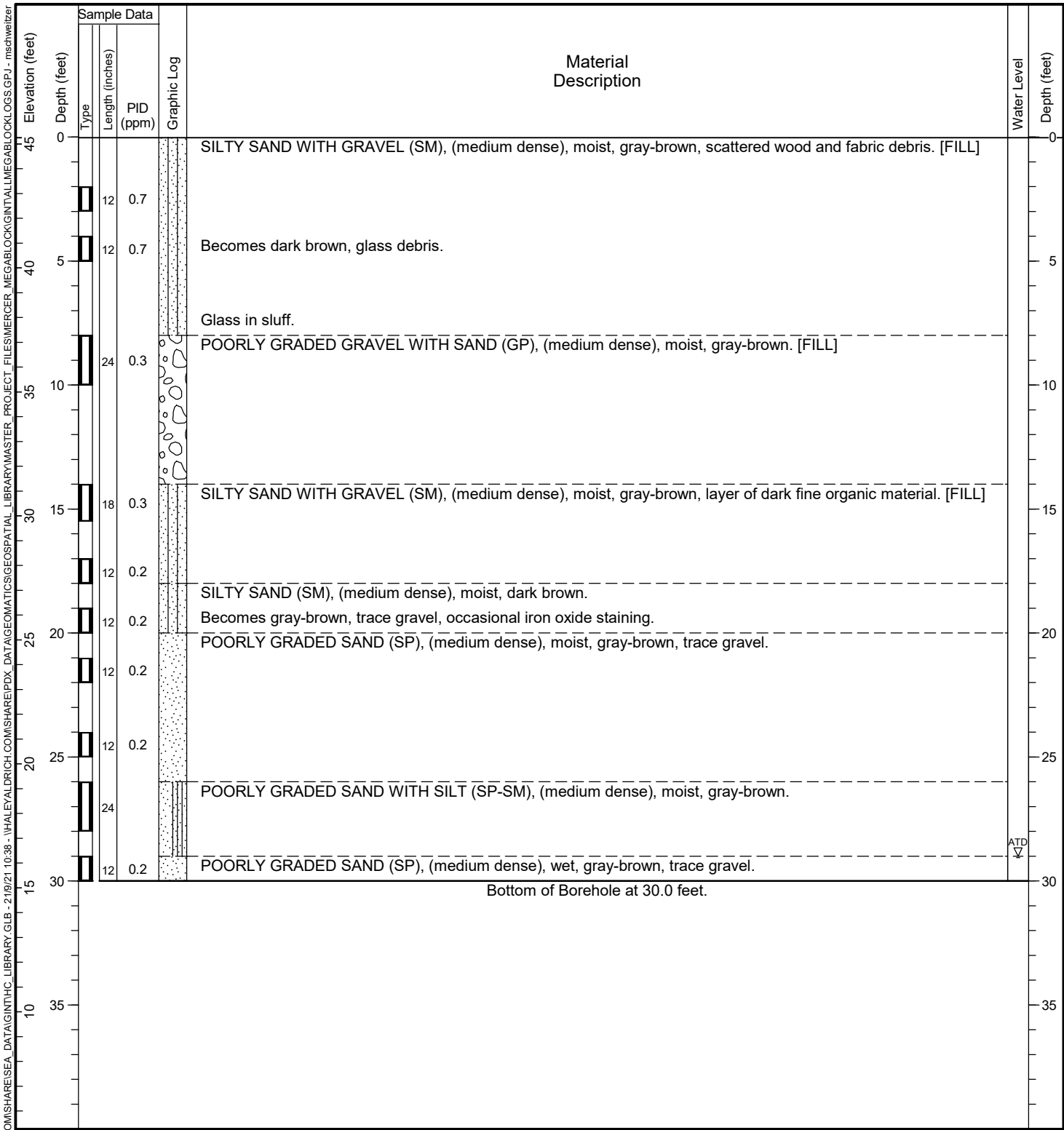
Date Started: 03/08/2019 Date Completed: 03/14/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian/C. Kroskie Checked by: C. Kroskie/Z. Yell Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624787 Long: -122.341347 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 52.14 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: NA
 Total Depth: 75.5 feet Depth to Groundwater: 33 feet

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General Notes:
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 5. Location and ground surface elevations are approximate.

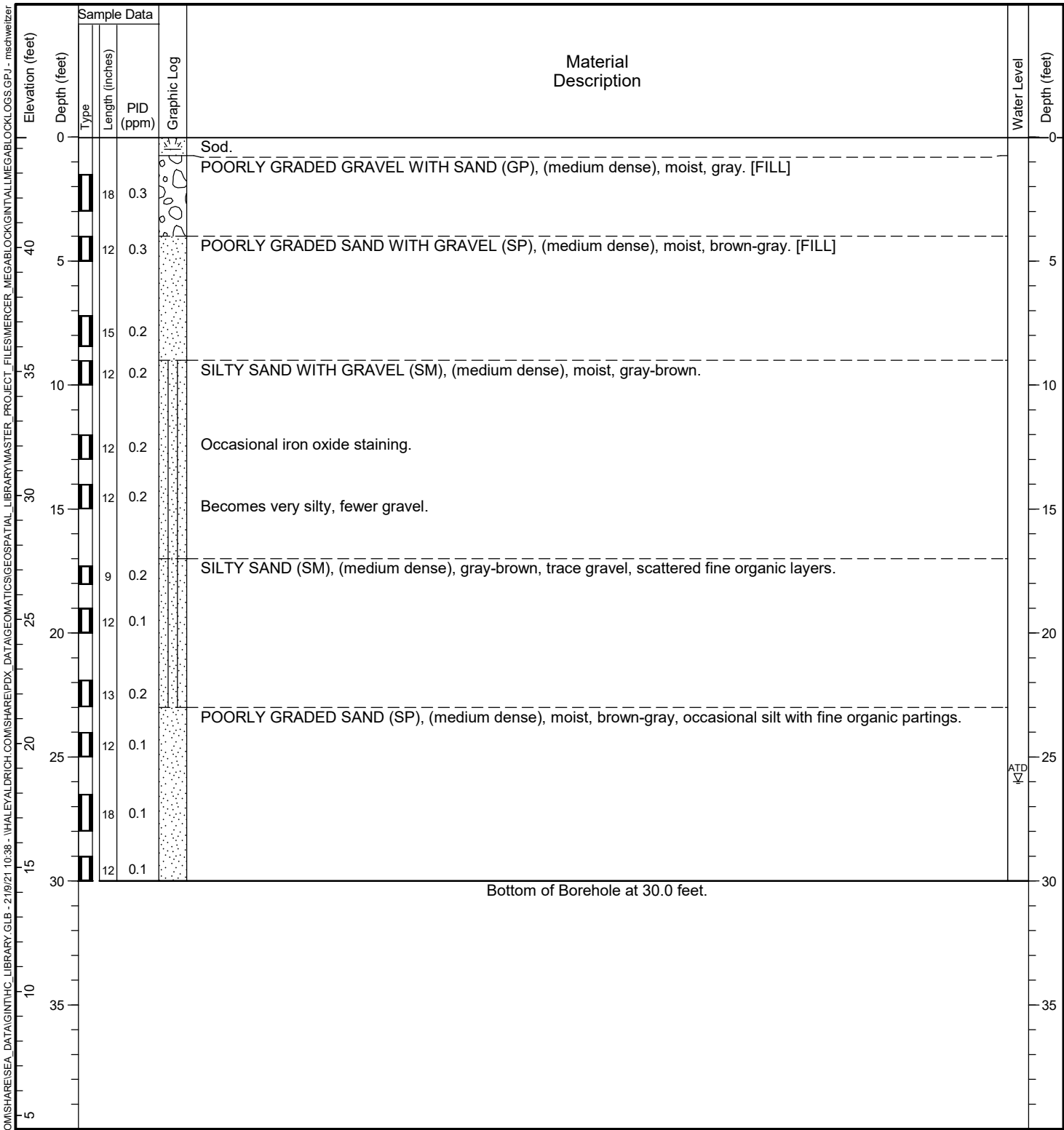
Date Started: 03/05/2019 Date Completed: 03/05/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.625044 Long: -122.340404 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 45.28 feet (NAVD 88) Total Depth: 30 feet Depth to Groundwater: 29 feet
 Comments:



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 03/05/2019 Date Completed: 03/05/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.624880 Long: -122.340290 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 44.46 feet (NAVD 88) Total Depth: 30 feet Depth to Groundwater: 26 feet
 Comments:

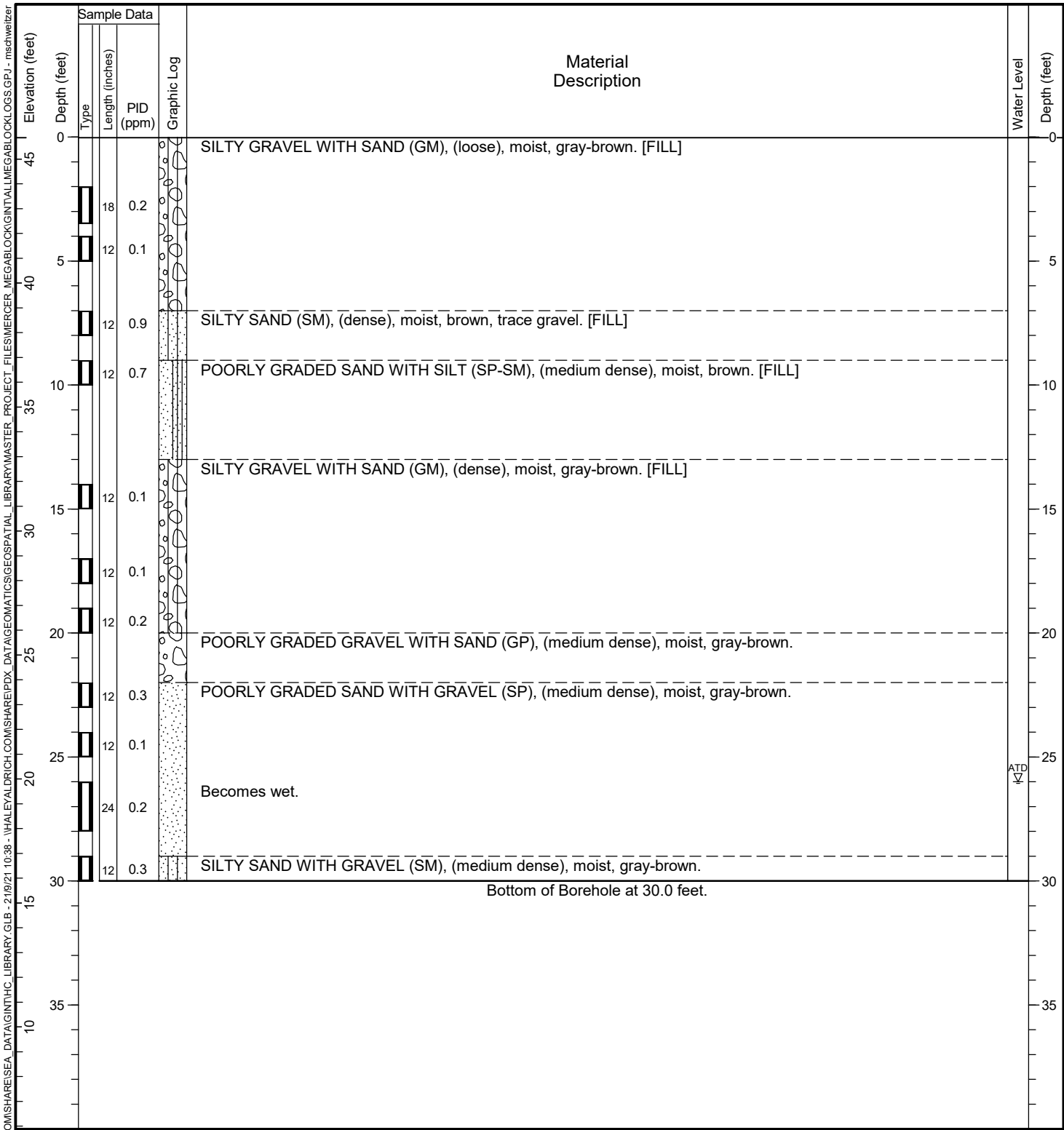


ATD

General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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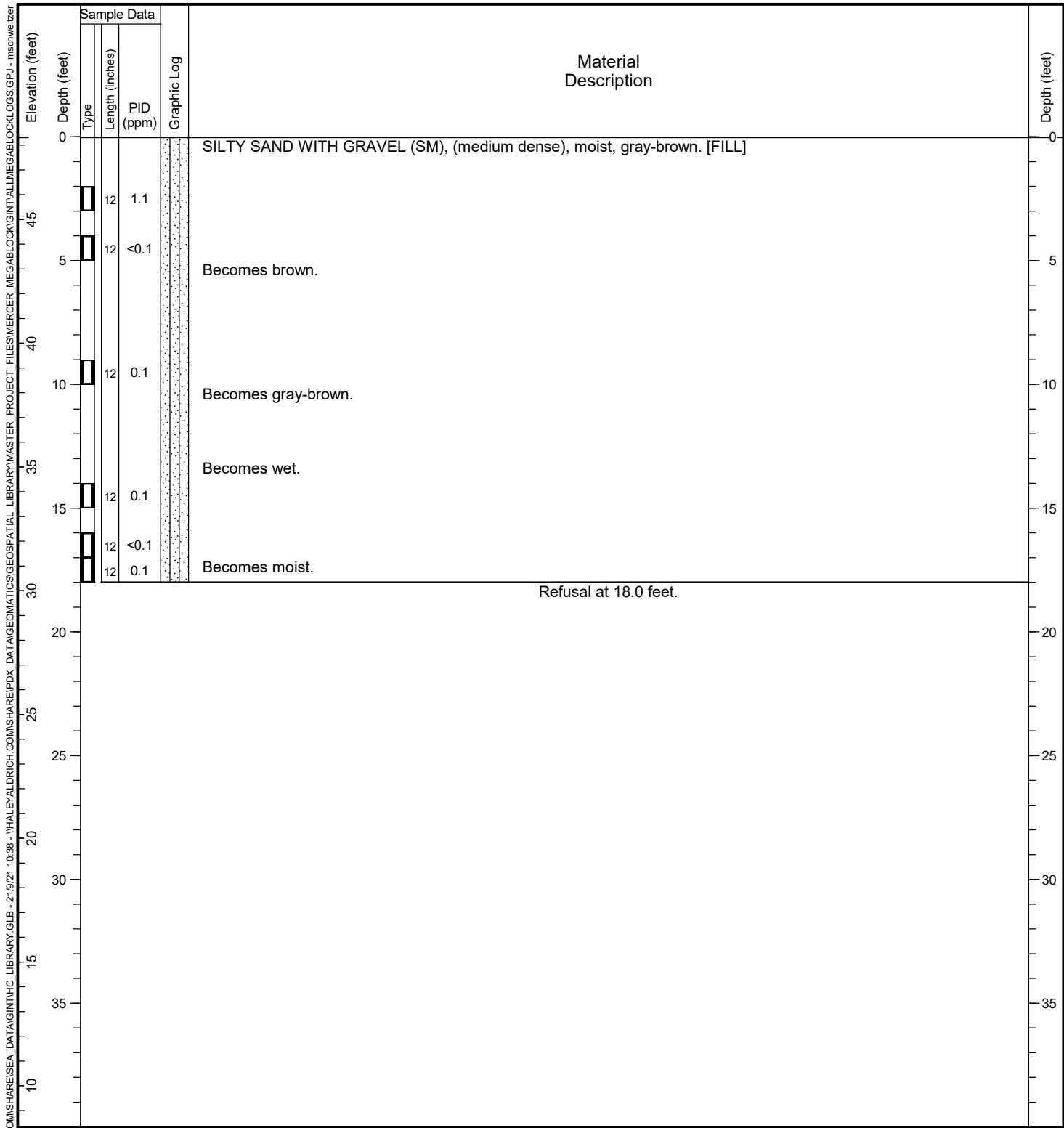
Date Started: 03/06/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.624926 Long: -122.340622 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 45.89 feet (NAVD 88) Total Depth: 30 feet Depth to Groundwater: 26 feet
 Comments: _____



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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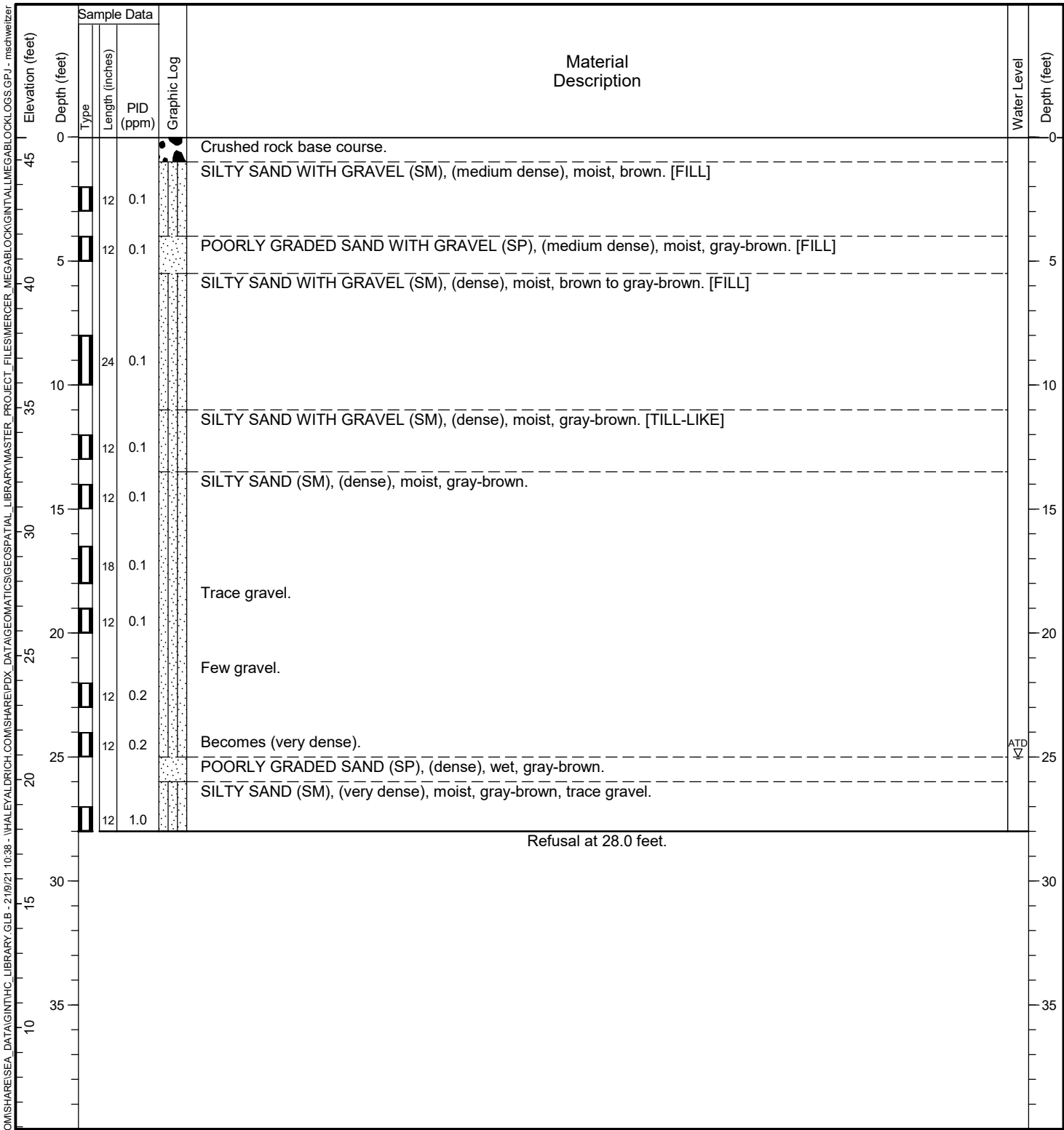
Date Started: 03/07/2019 Date Completed: 03/07/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.624991 Long: -122.340944 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 48.34 feet (NAVD 88) Total Depth: 18 feet Depth to Groundwater: Not Identified
 Comments: _____



General Notes:
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 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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 5. Location and ground surface elevations are approximate.

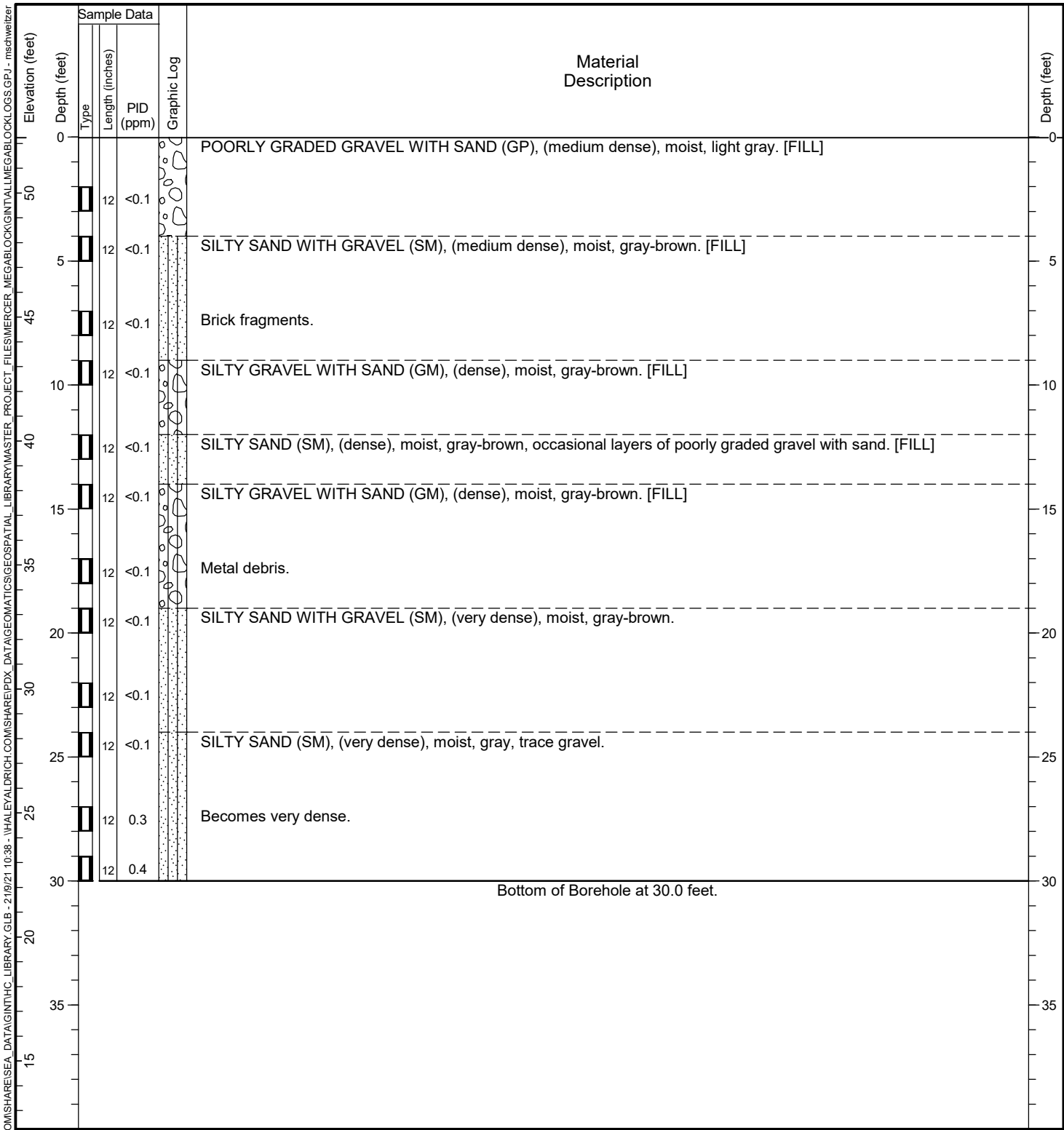
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Date Started: 03/07/2019 Date Completed: 03/07/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.625274 Long: -122.340849 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 45.92 feet (NAVD 88) Total Depth: 28 feet Depth to Groundwater: 25 feet
 Comments: _____



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

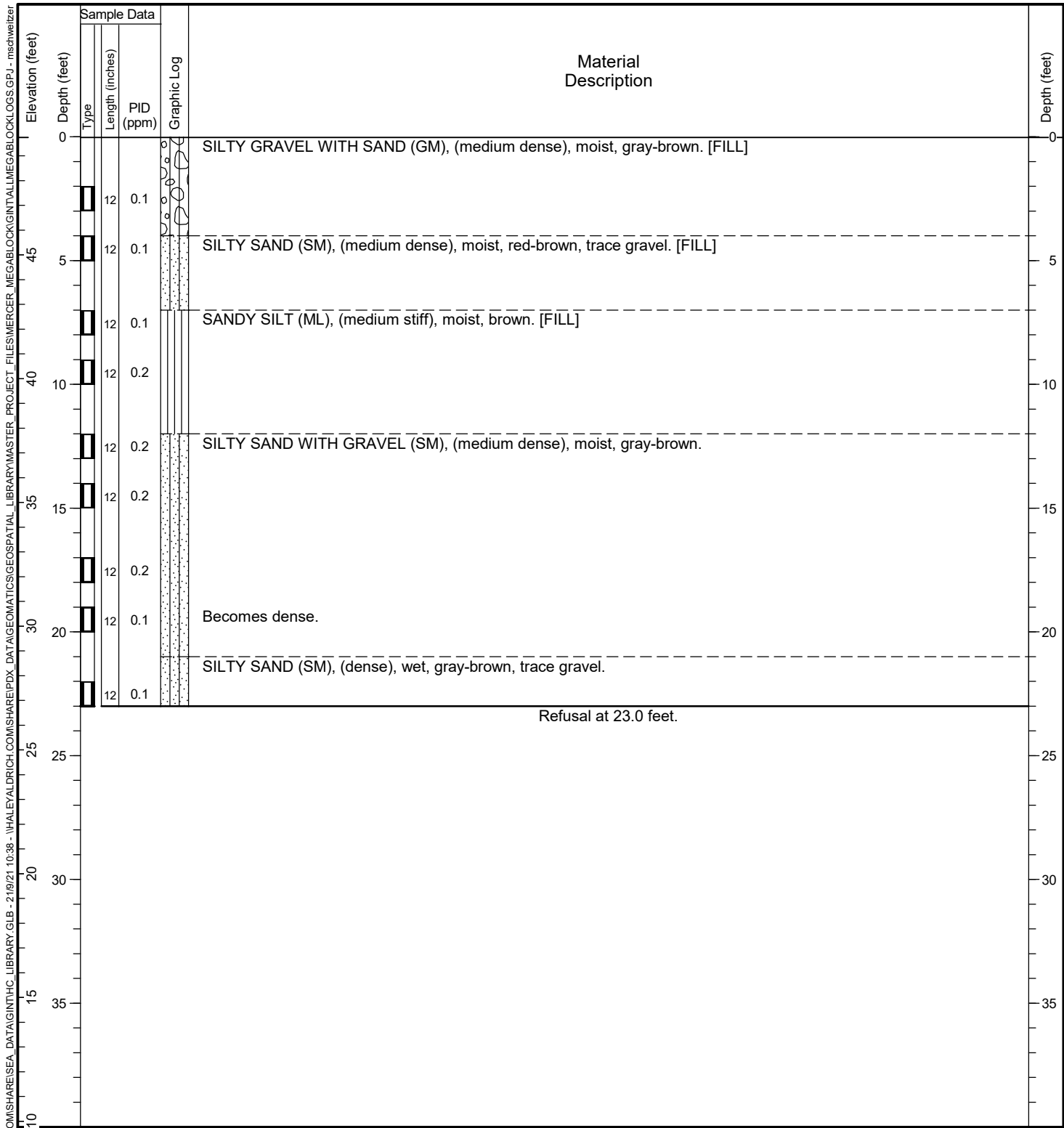
Date Started: 03/08/2019 Date Completed: 03/08/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.624946 Long: -122.341341 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 52.26 feet (NAVD 88) Total Depth: 30 feet Depth to Groundwater: Not Identified
 Comments: _____



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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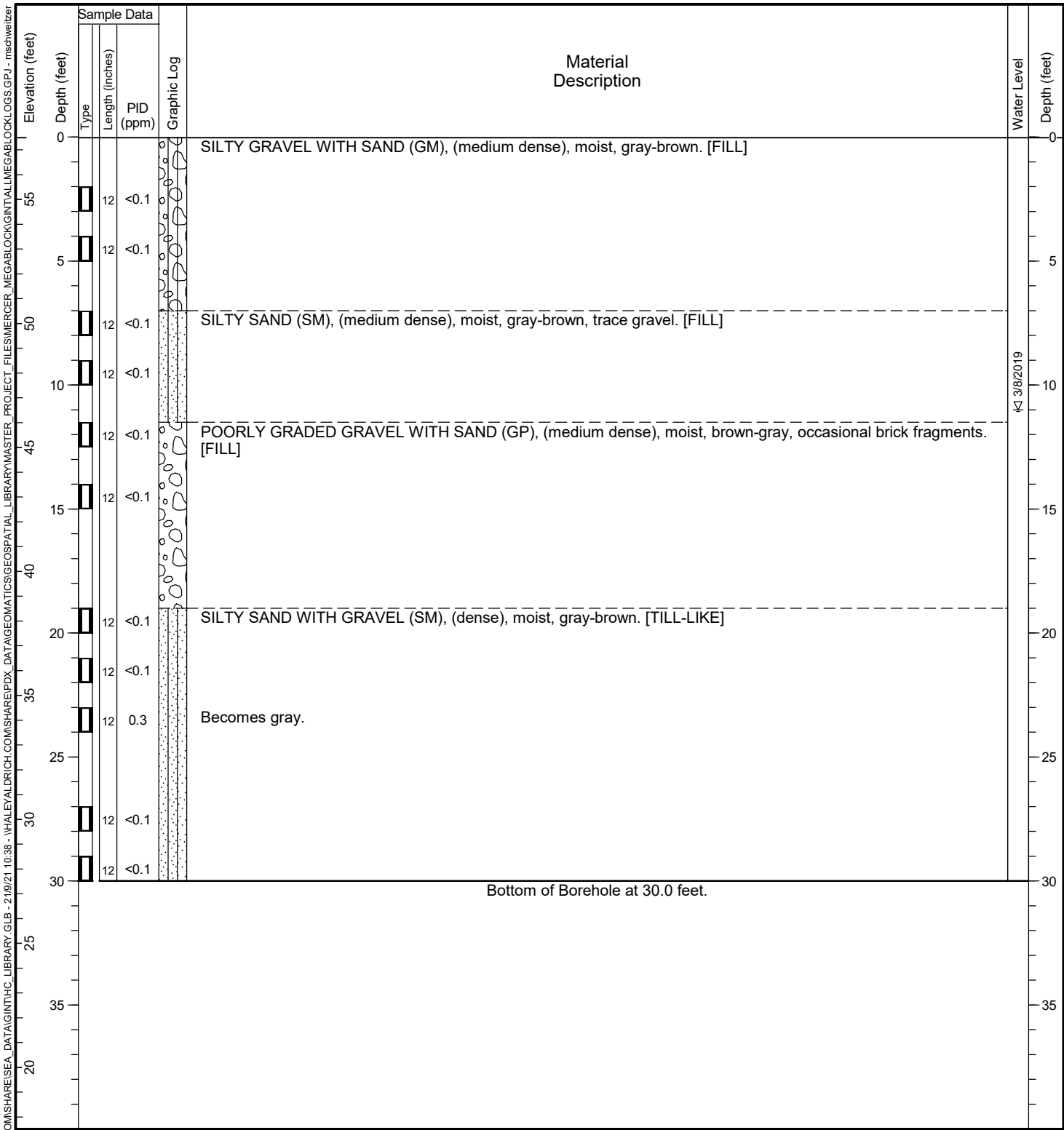
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 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.625276 Long: -122.341425 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 49.77 feet (NAVD 88) Total Depth: 23 feet Depth to Groundwater: Not Identified
 Comments: _____



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
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 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

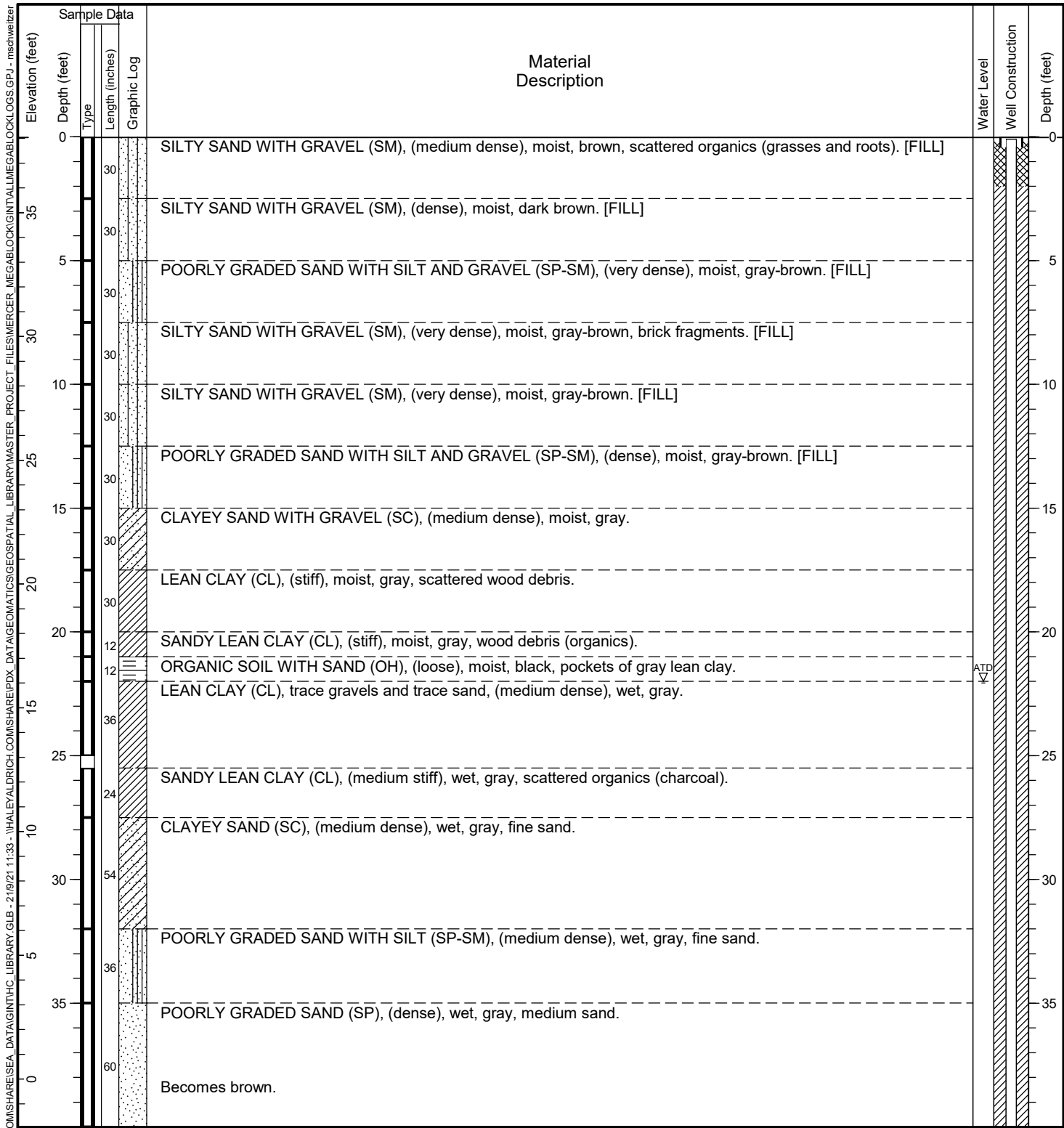
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Date Started: 03/08/2019 Date Completed: 03/08/2019 Contractor/Crew: Holt Services, Inc. / Louie
 Logged by: B. McDonald/B. Dozier Checked by: C. Kroskie Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
 Location: Lat: 47.624894 Long: -122.341928 (WGS 84) Hole Diameter: 2 inches Casing Diameter: NA
 Ground Surface Elevation: 57.52 feet (NAVD 88) Total Depth: 30 feet Depth to Groundwater: 11 feet
 Comments: _____



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

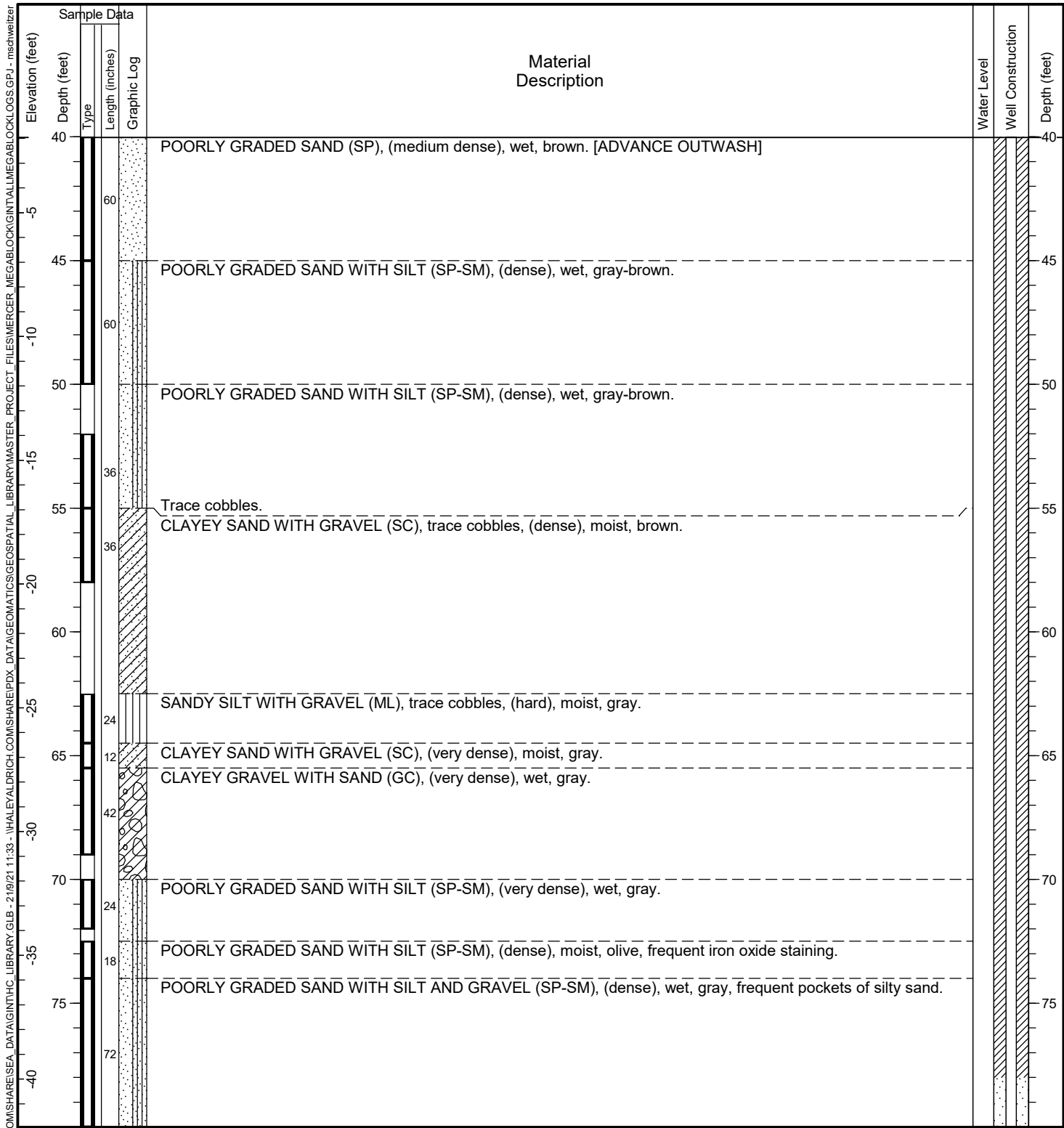
Date Started: 03/04/2019 Date Completed: 03/04/2019 Contractor/Crew: Holt Services, Inc.
 Logged by: K. Huddleston Checked by: C. Kroskie Rig Model/Type: TSi 150 / Track-mounted drill rig
 Location: Lat: 47.625066 Long: -122.339974 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 38.07 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 22 feet
 Comments: Well Tag ID: BLI197



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

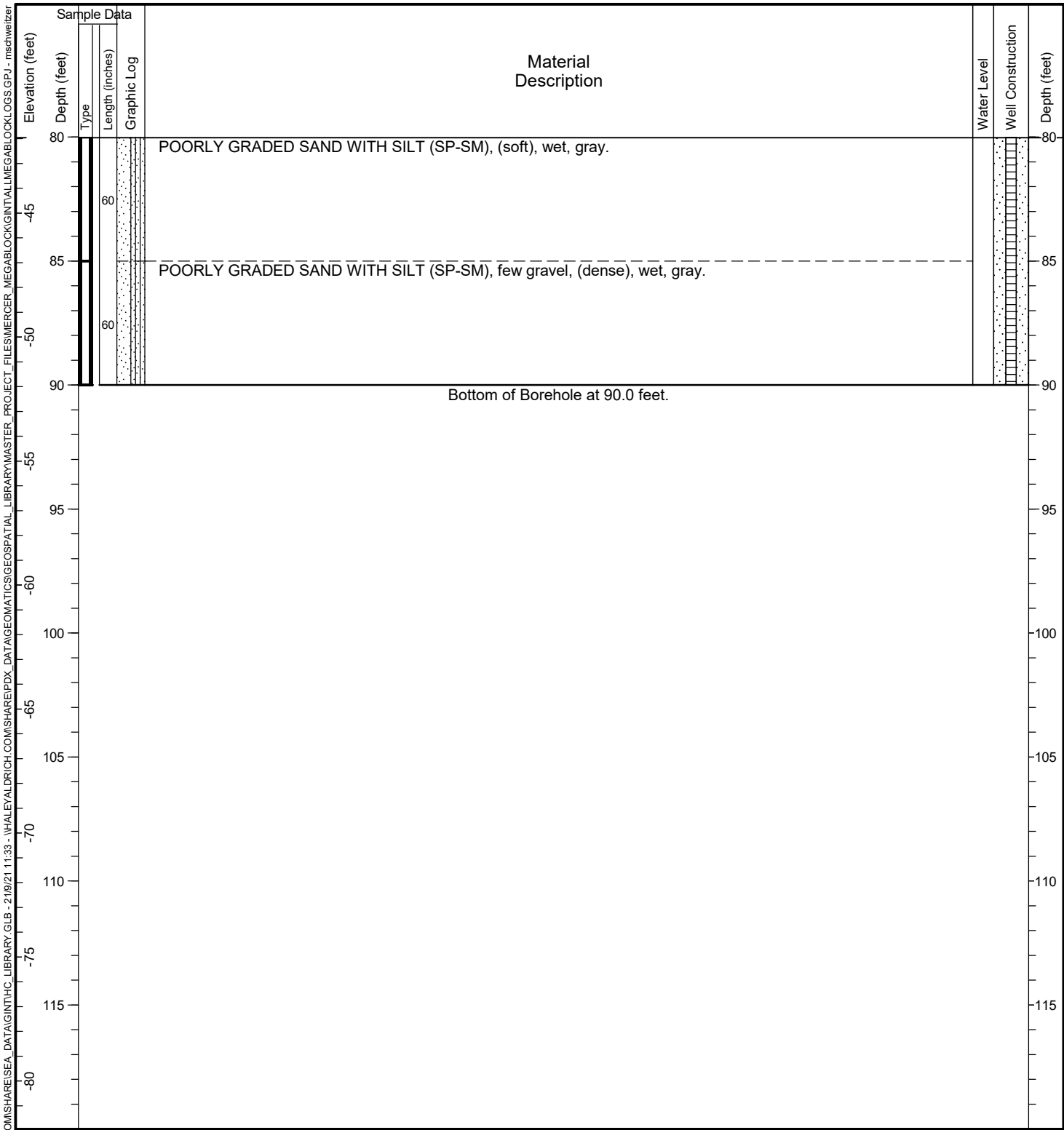
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Date Started: 03/04/2019 Date Completed: 03/04/2019 Contractor/Crew: Holt Services, Inc.
 Logged by: K. Huddleston Checked by: C. Kroskie Rig Model/Type: TSi 150 / Track-mounted drill rig
 Location: Lat: 47.625066 Long: -122.339974 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 38.07 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 22 feet
 Comments: Well Tag ID: BLI197



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 03/04/2019 Date Completed: 03/04/2019 Contractor/Crew: Holt Services, Inc.
 Logged by: K. Huddleston Checked by: C. Kroskie Rig Model/Type: TSi 150 / Track-mounted drill rig
 Location: Lat: 47.625066 Long: -122.339974 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 38.07 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 22 feet
 Comments: Well Tag ID: BLI197

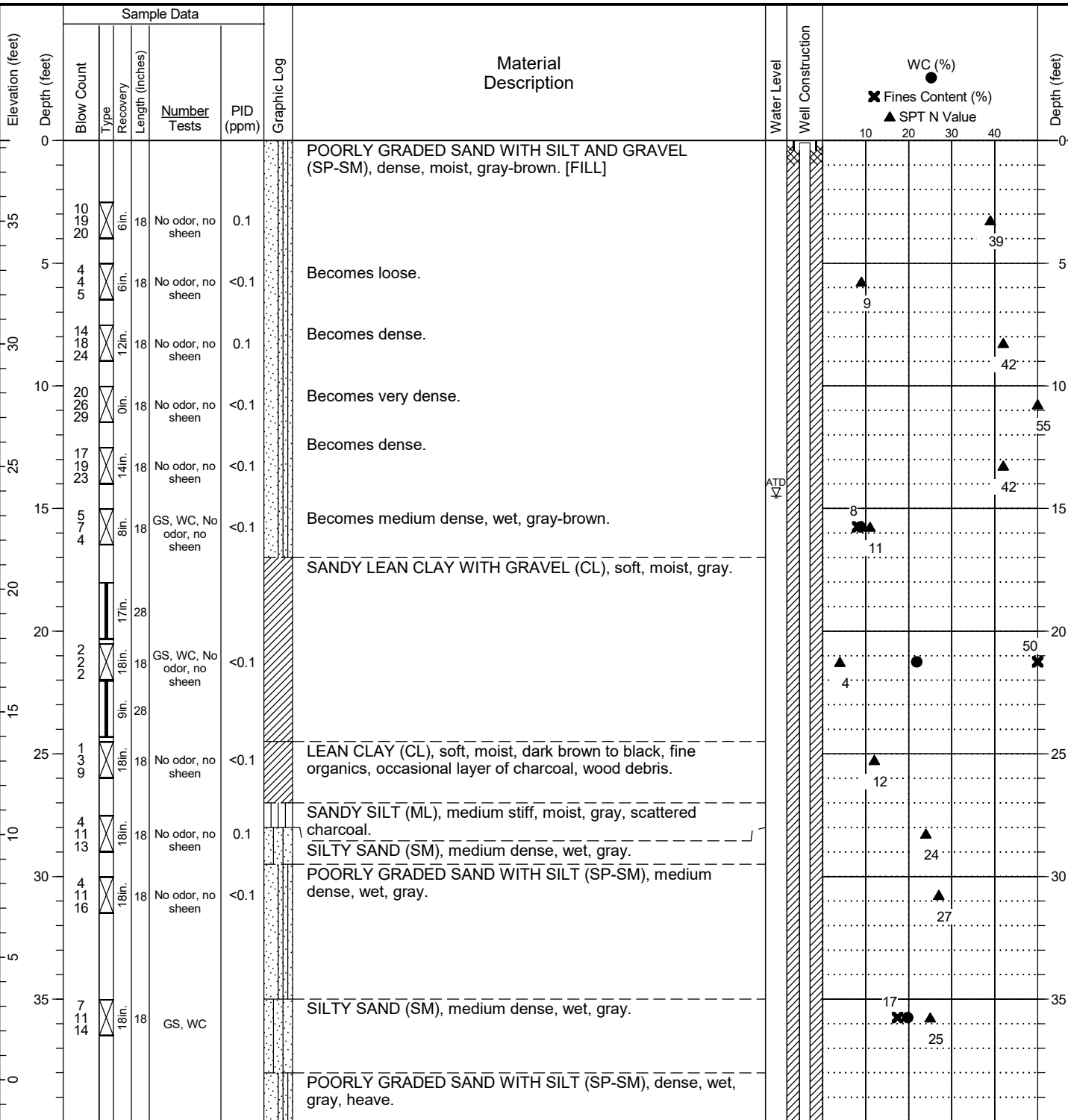


General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 03/12/2019 Date Completed: 03/13/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: N. Jones/B. McDonald Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625097 Long: -122.339991 (WGS 84) Rig Model/Type: CME-75 / Truck-mounted drill rig
 Ground Surface Elevation: 38.29 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLR917 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 65.5 feet Depth to Groundwater: 14.5 feet

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General Notes:

1. Refer to Figure A1-1 for explanation of descriptions and symbols.
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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.



Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

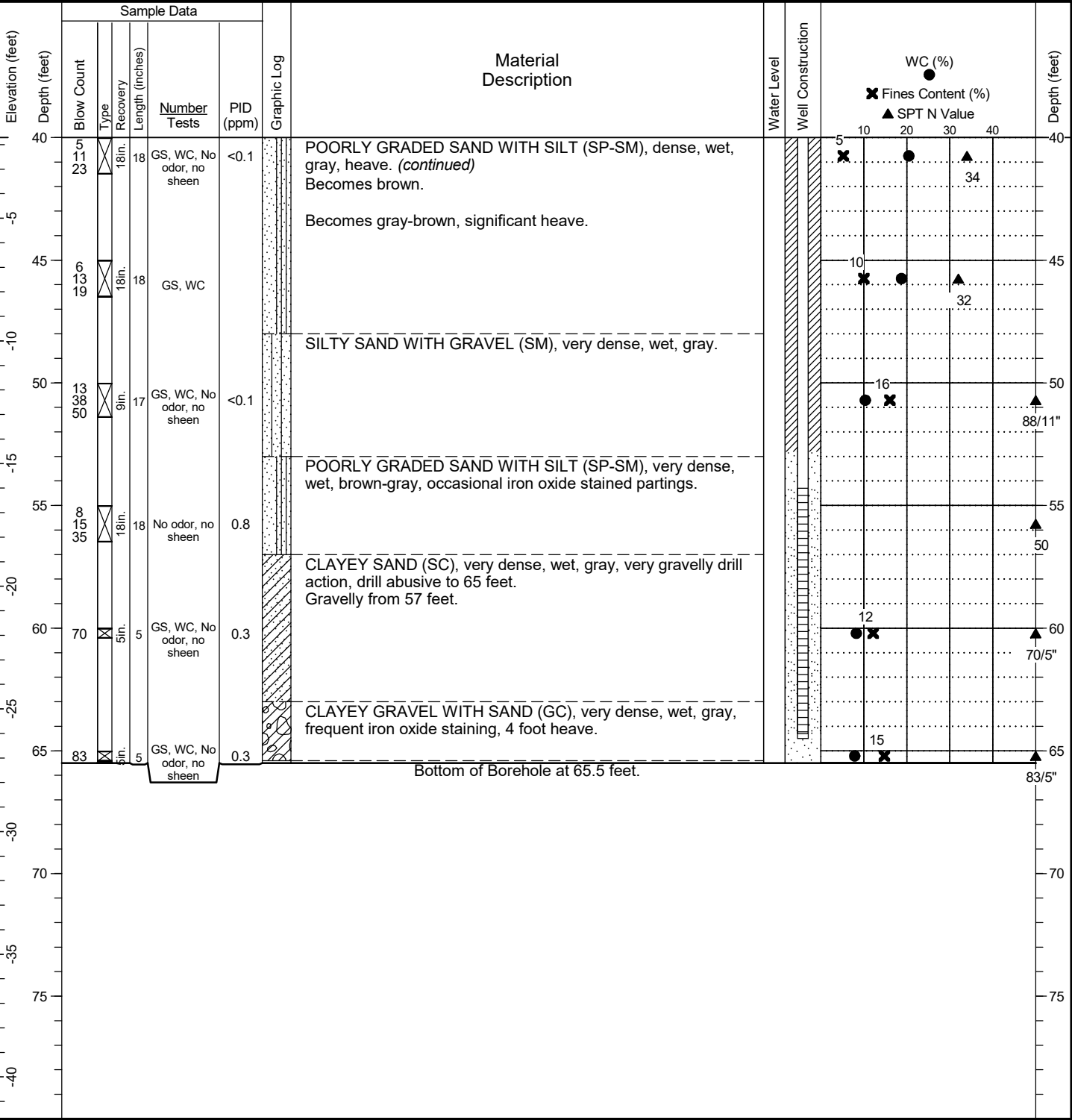
Boring Log
HMW-11B

Figure **A1-53**
 Sheet 1 of 2

Date Started: 03/12/2019 Date Completed: 03/13/2019
 Logged by: N. Jones/B. McDonald Checked by: C. Kroskie
 Location: Lat: 47.625097 Long: -122.339991 (WGS 84)
 Ground Surface Elevation: 38.29 feet (NAVD 88)
 Comments: Well Tag ID: BLR917

Drilling Contractor/Crew: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Rig Model/Type: CME-75 / Truck-mounted drill rig
 Hammer Type: Auto-hammer
 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 65.5 feet Depth to Groundwater: 14.5 feet

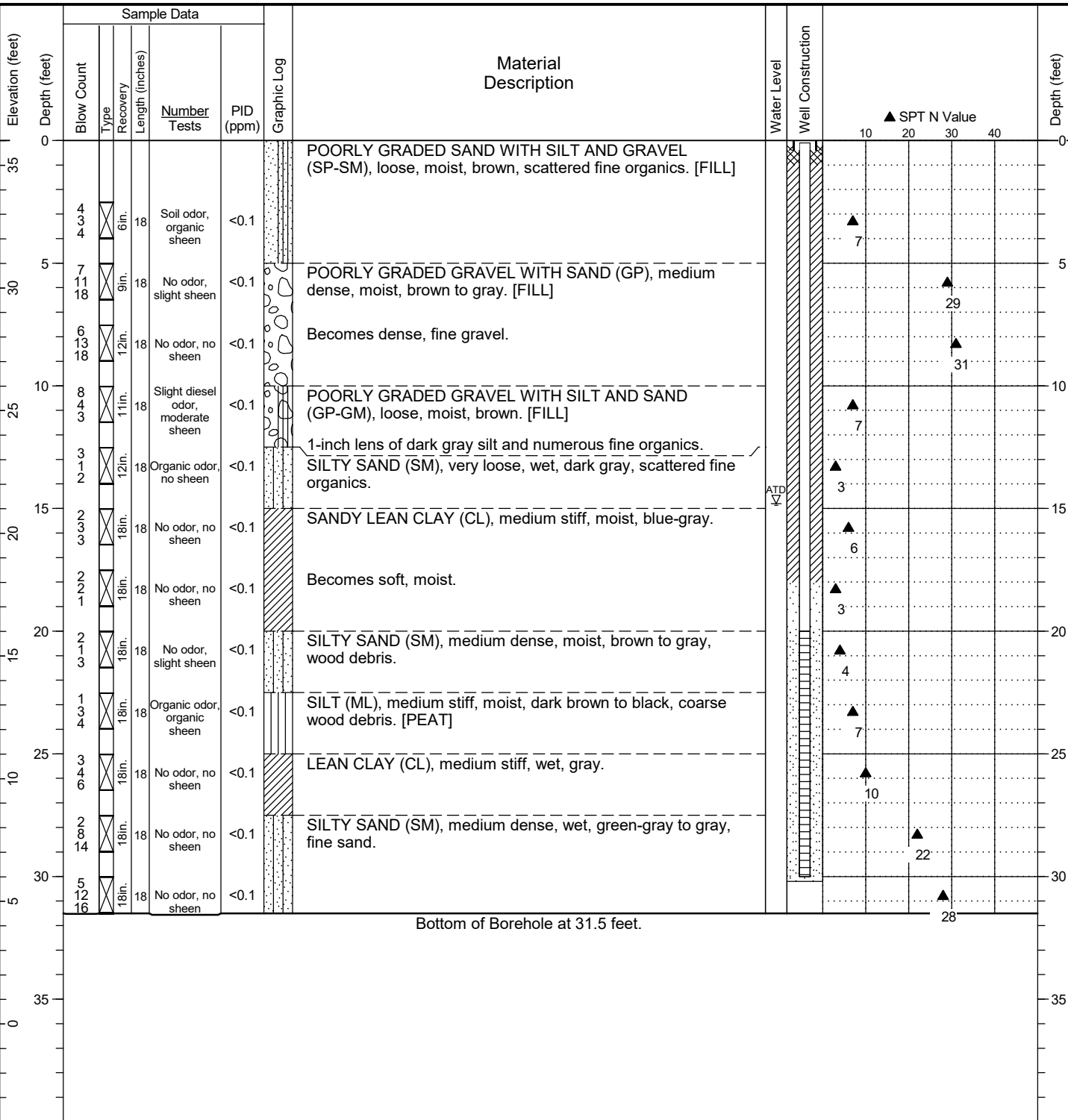
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General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

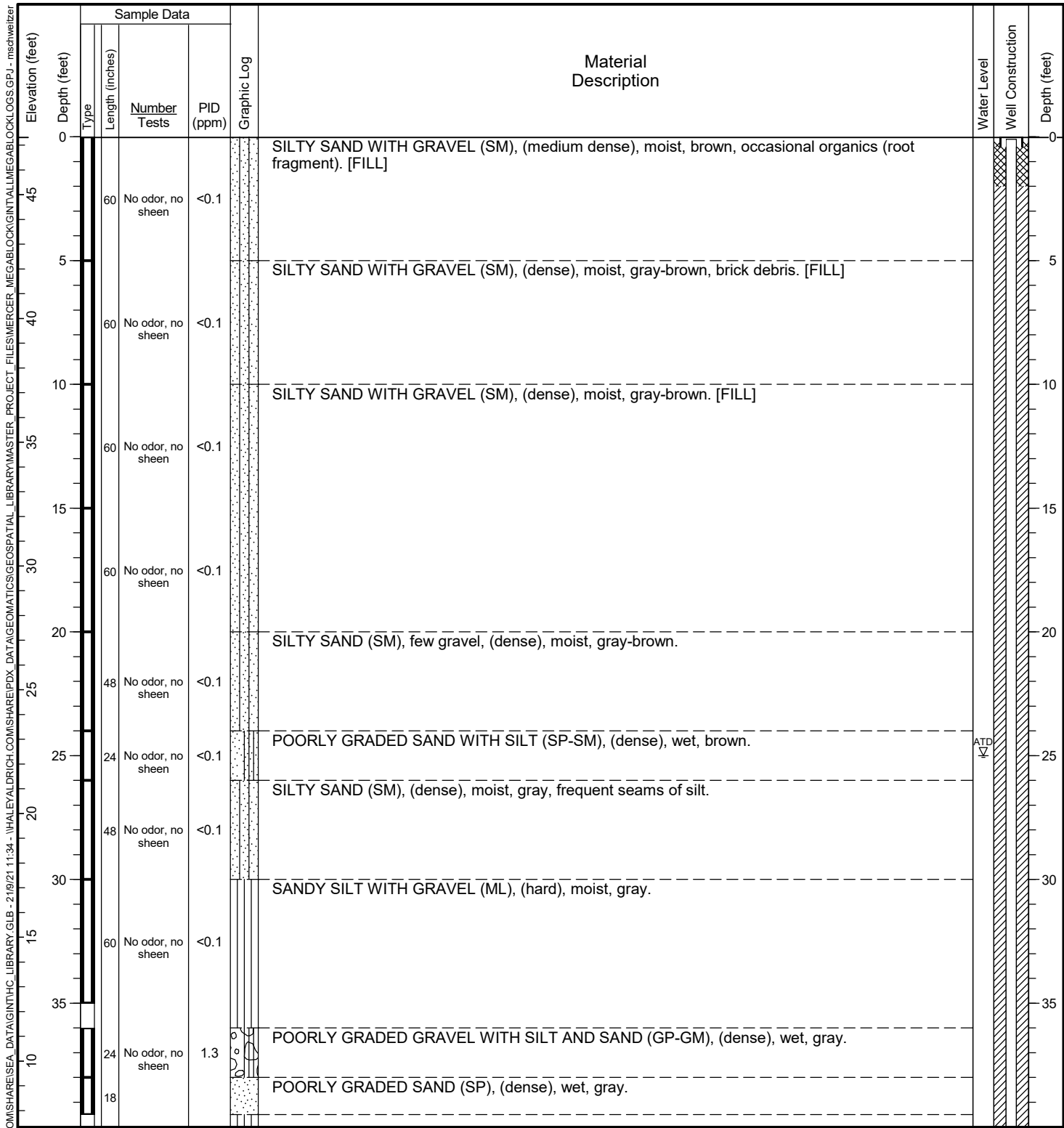
Date Started: 03/06/2019 Date Completed: 03/06/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625125 Long: -122.339937 (WGS 84) Rig Model/Type: CME-75 / Truck-mounted drill rig
 Ground Surface Elevation: 36.01 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLI532 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 31.5 feet Depth to Groundwater: 14.8 feet

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General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

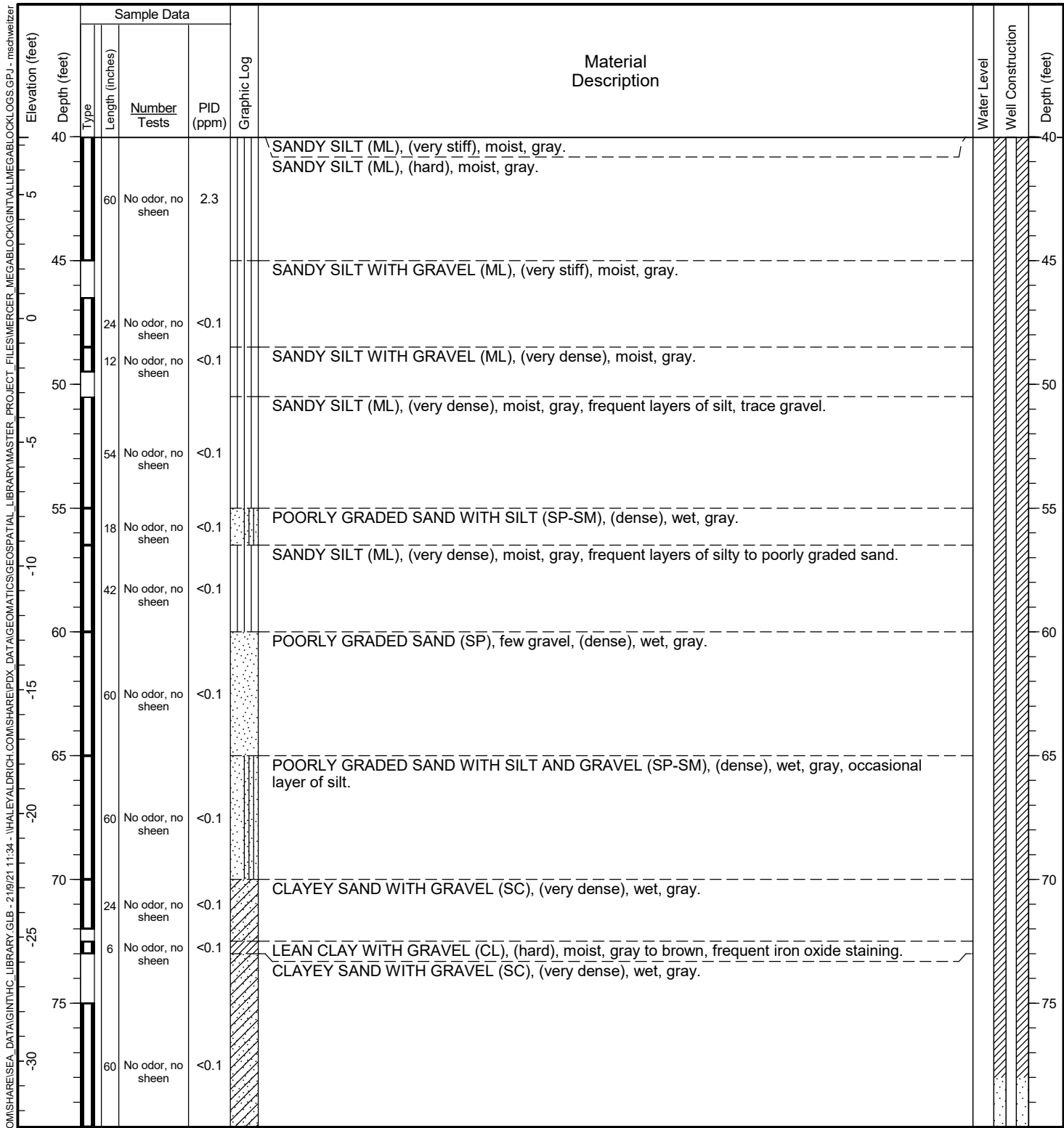
Date Started: 03/05/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc.
 Logged by: K. Huddleston Checked by: C. Kroskie Rig Model/Type: TSi 150 / Track-mounted drill rig
 Location: Lat: 47.625104 Long: -122.340832 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 47.34 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 25 feet
 Comments: Well Tag ID: BLI198



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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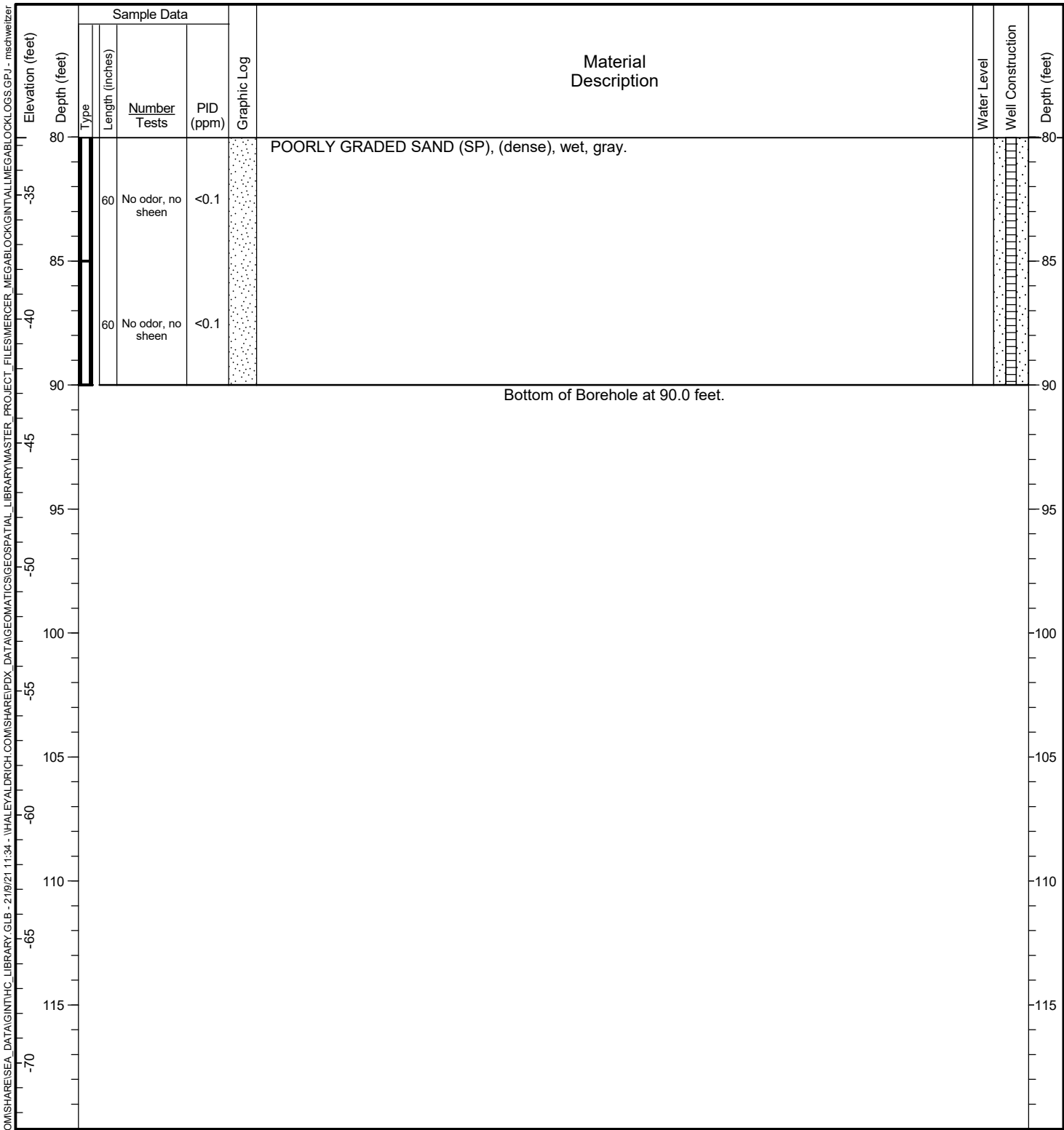
Date Started: 03/05/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc.
 Logged by: K. Huddleston Checked by: C. Kroskie Rig Model/Type: TSi 150 / Track-mounted drill rig
 Location: Lat: 47.625104 Long: -122.340832 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 47.34 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 25 feet
 Comments: Well Tag ID: BLI198



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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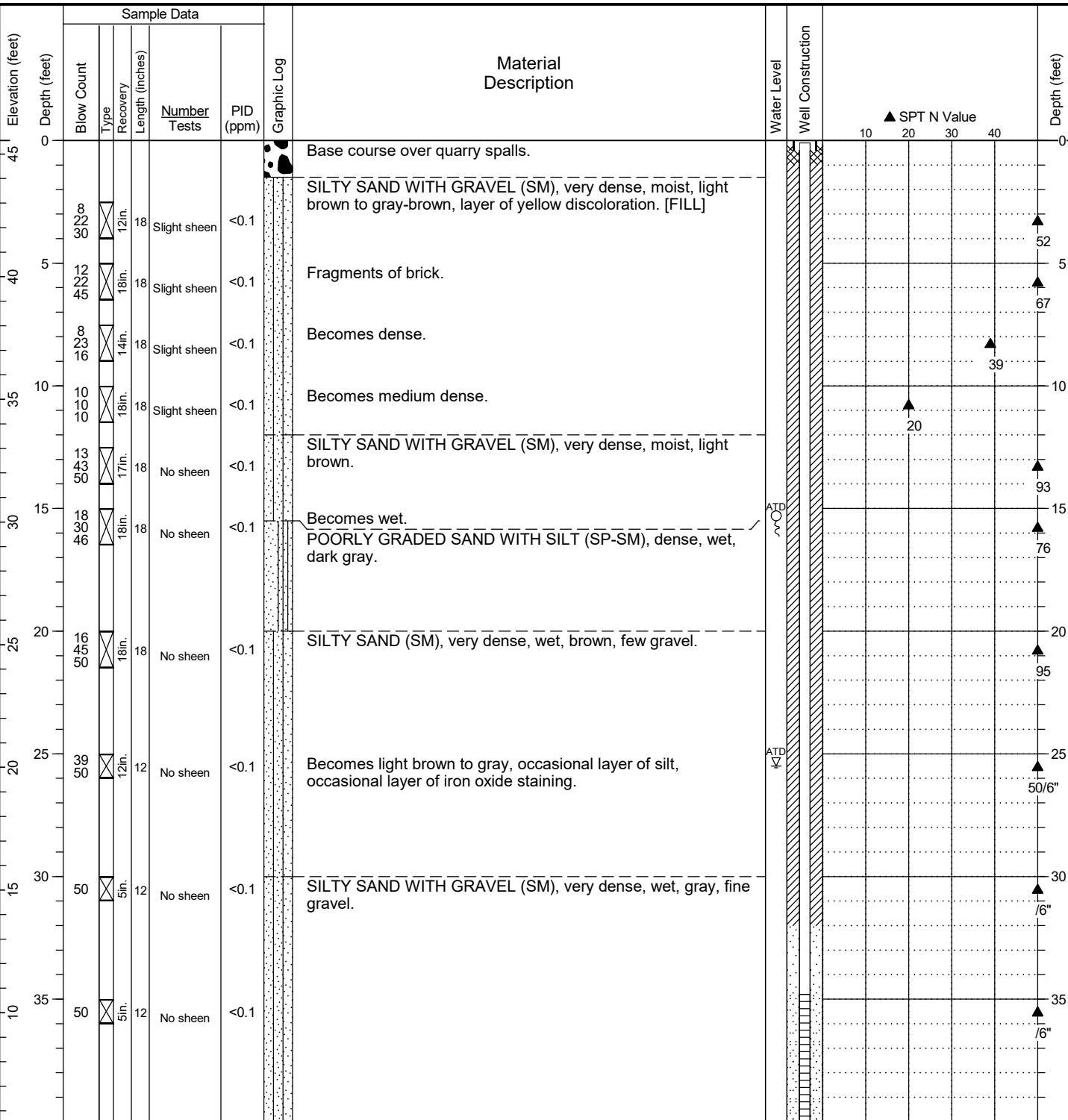
Date Started: 03/05/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc.
 Logged by: K. Huddleston Checked by: C. Kroskie Rig Model/Type: TSi 150 / Track-mounted drill rig
 Location: Lat: 47.625104 Long: -122.340832 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 47.34 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 25 feet
 Comments: Well Tag ID: BLI198



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

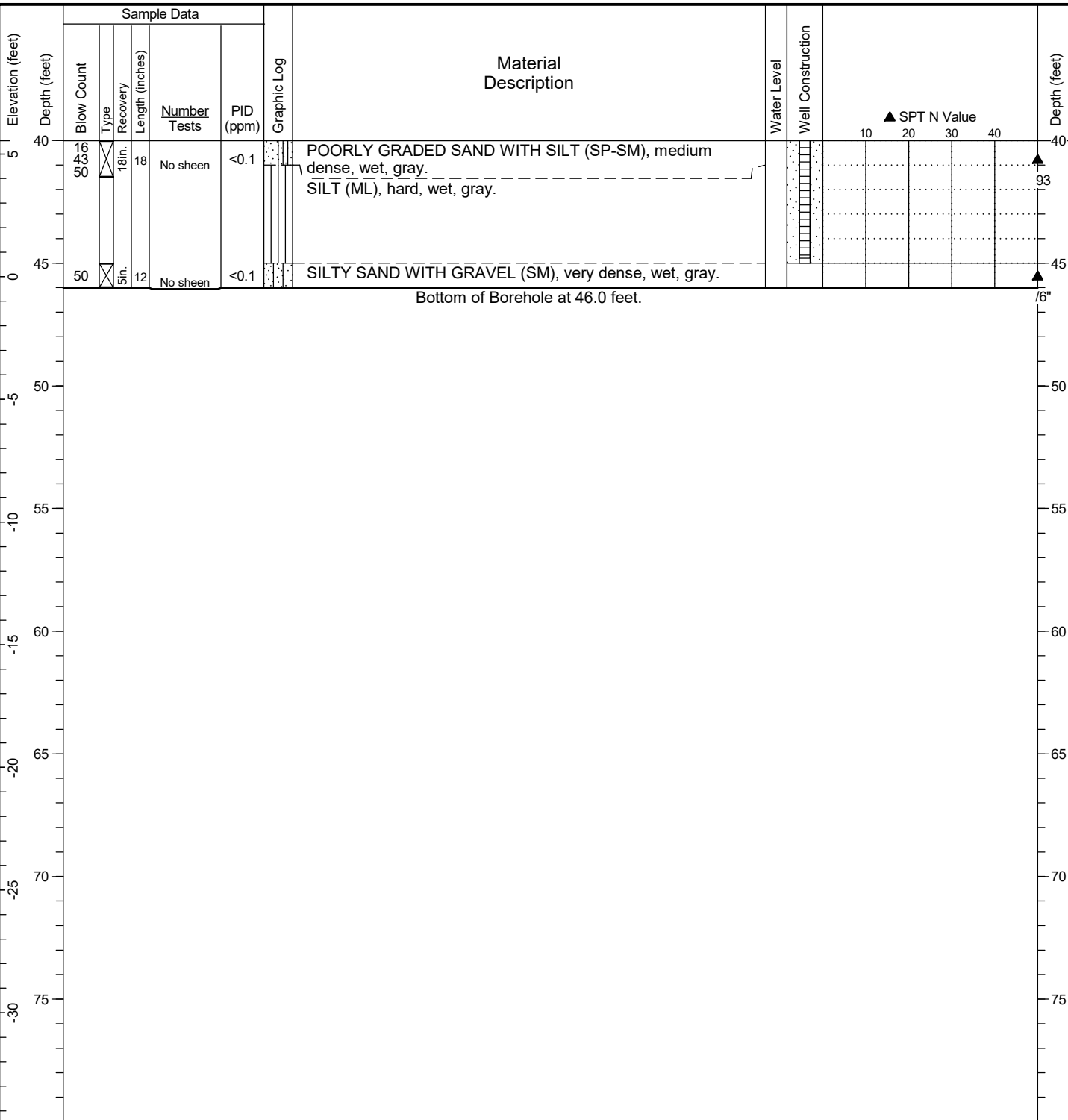
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Date Started: 03/08/2019 Date Completed: 03/08/2019 Drilling Contractor/Crew: Holt Services, Inc. / Rayon Darling
 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625068 Long: -122.340828 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 45.55 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLR922 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 46 feet Depth to Groundwater: 25.5 feet



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

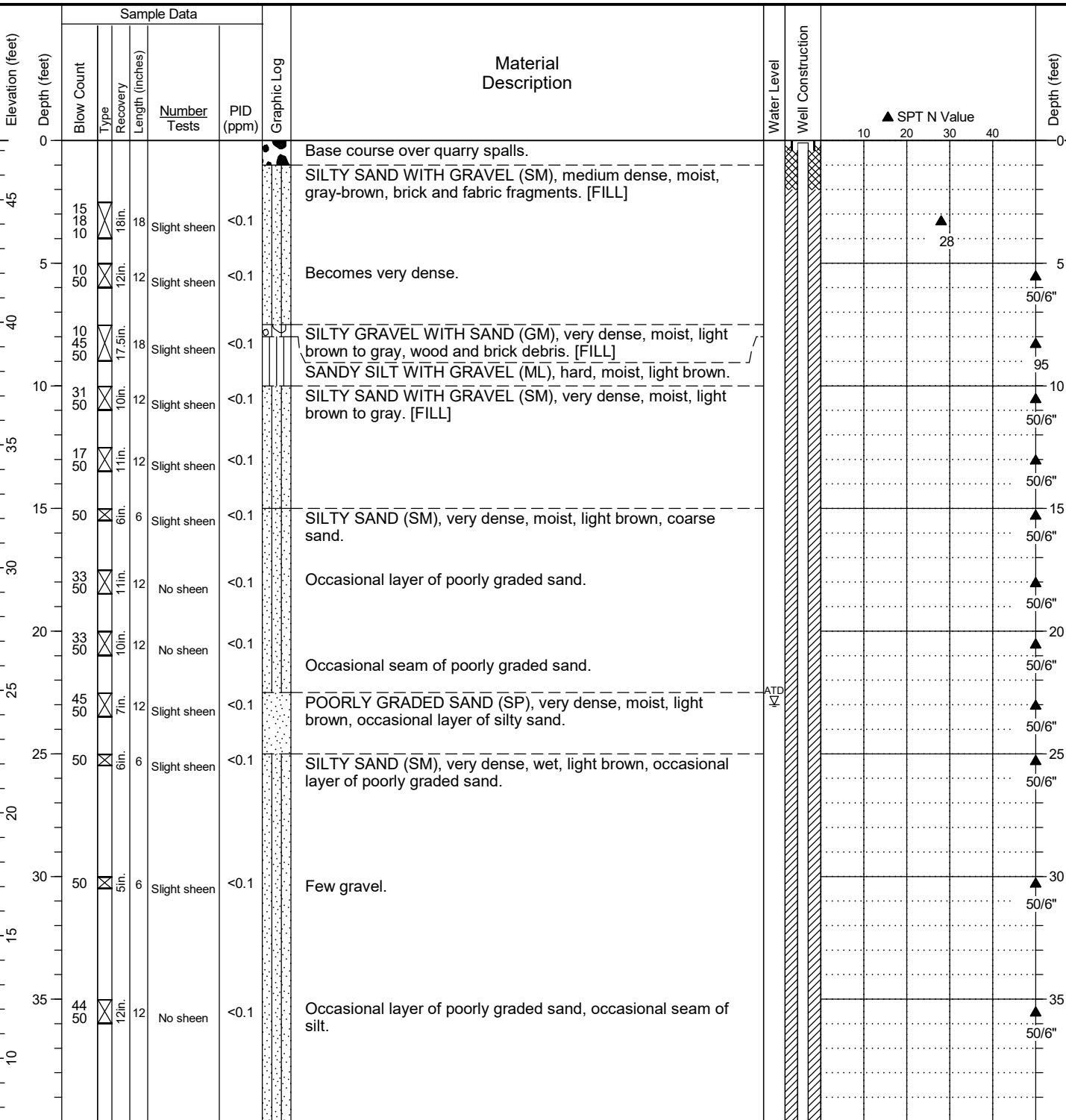
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 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625068 Long: -122.340828 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 45.55 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLR922 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 46 feet Depth to Groundwater: 25.5 feet



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
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 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 03/12/2019 Date Completed: 03/12/2019 Drilling Contractor/Crew: Holt Services, Inc. / Rayon Darling
 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625085 Long: -122.340869 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 47.41 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLR923 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 66.5 feet Depth to Groundwater: 23 feet

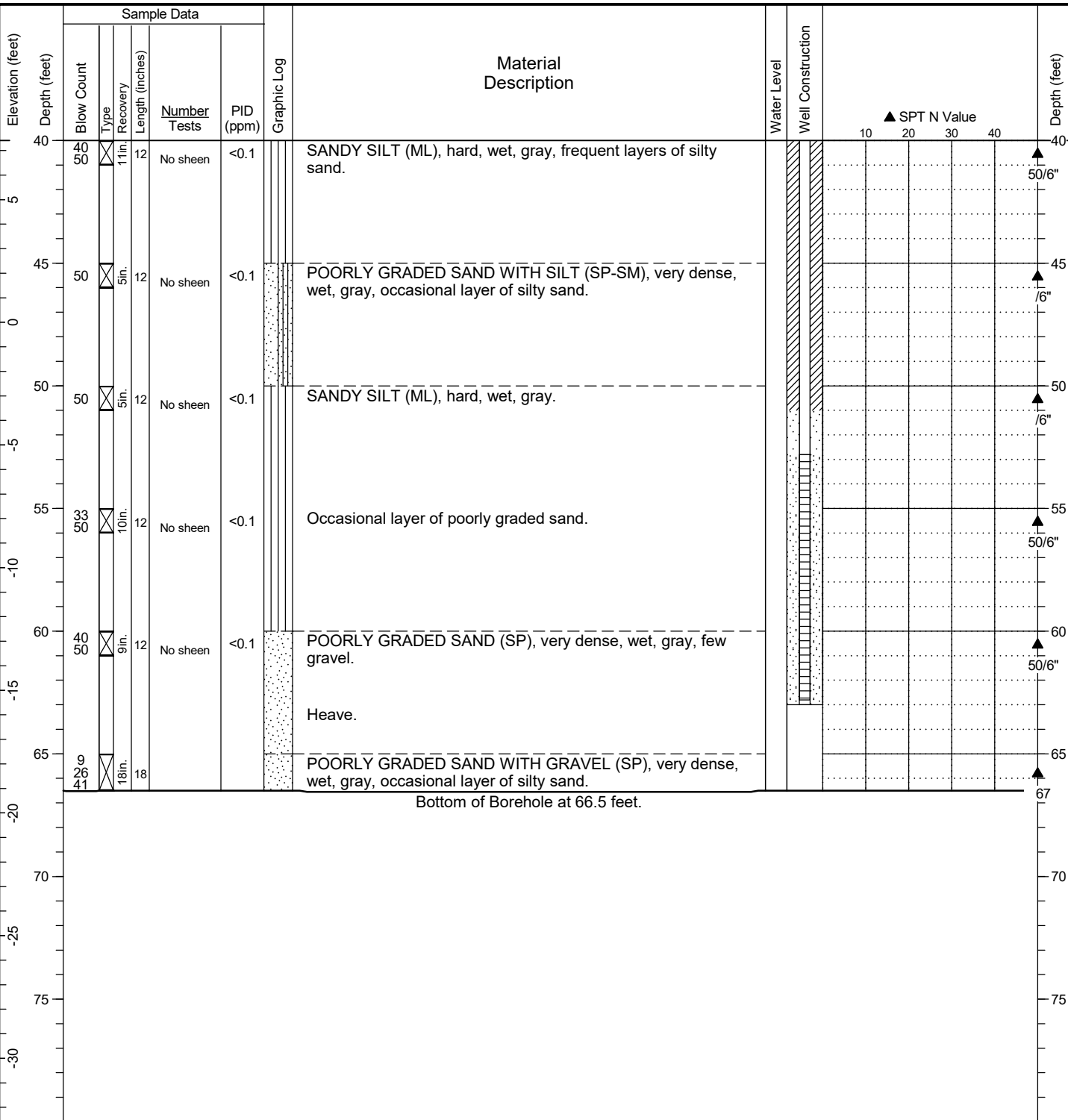


- General Notes:
1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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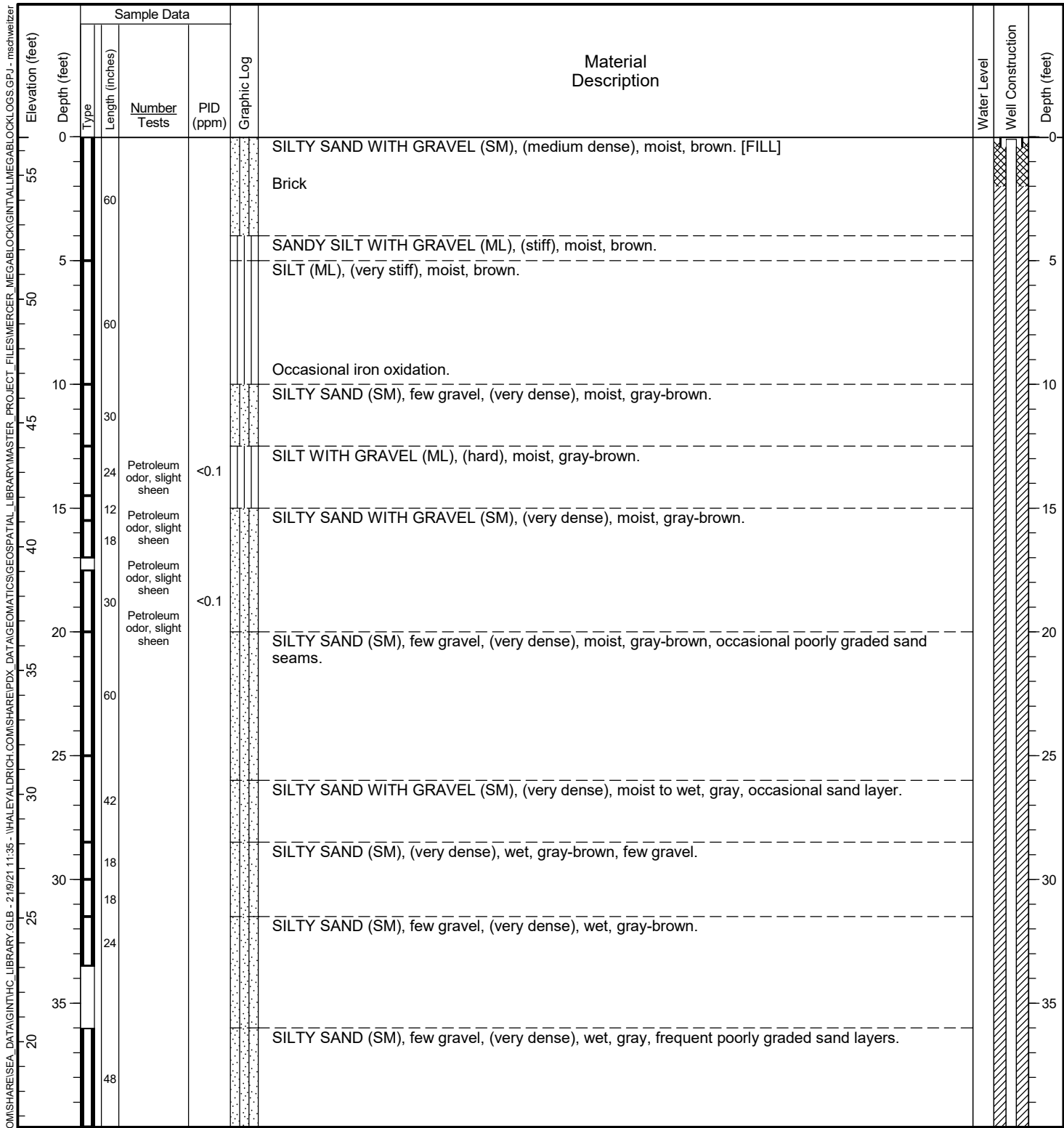
Date Started: 03/12/2019 Date Completed: 03/12/2019 Drilling Contractor/Crew: Holt Services, Inc. / Rayon Darling
 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625085 Long: -122.340869 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 47.41 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLR923 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 66.5 feet Depth to Groundwater: 23 feet

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- General Notes:
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 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 03/06/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc.
 Logged by: K. Huddleston Checked by: C. Kroskie Rig Model/Type: TSi 150 / Track-mounted drill rig
 Location: Lat: 47.625133 Long: -122.341998 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 56.56 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 44 feet
 Comments: Well Tag ID: BLI199



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
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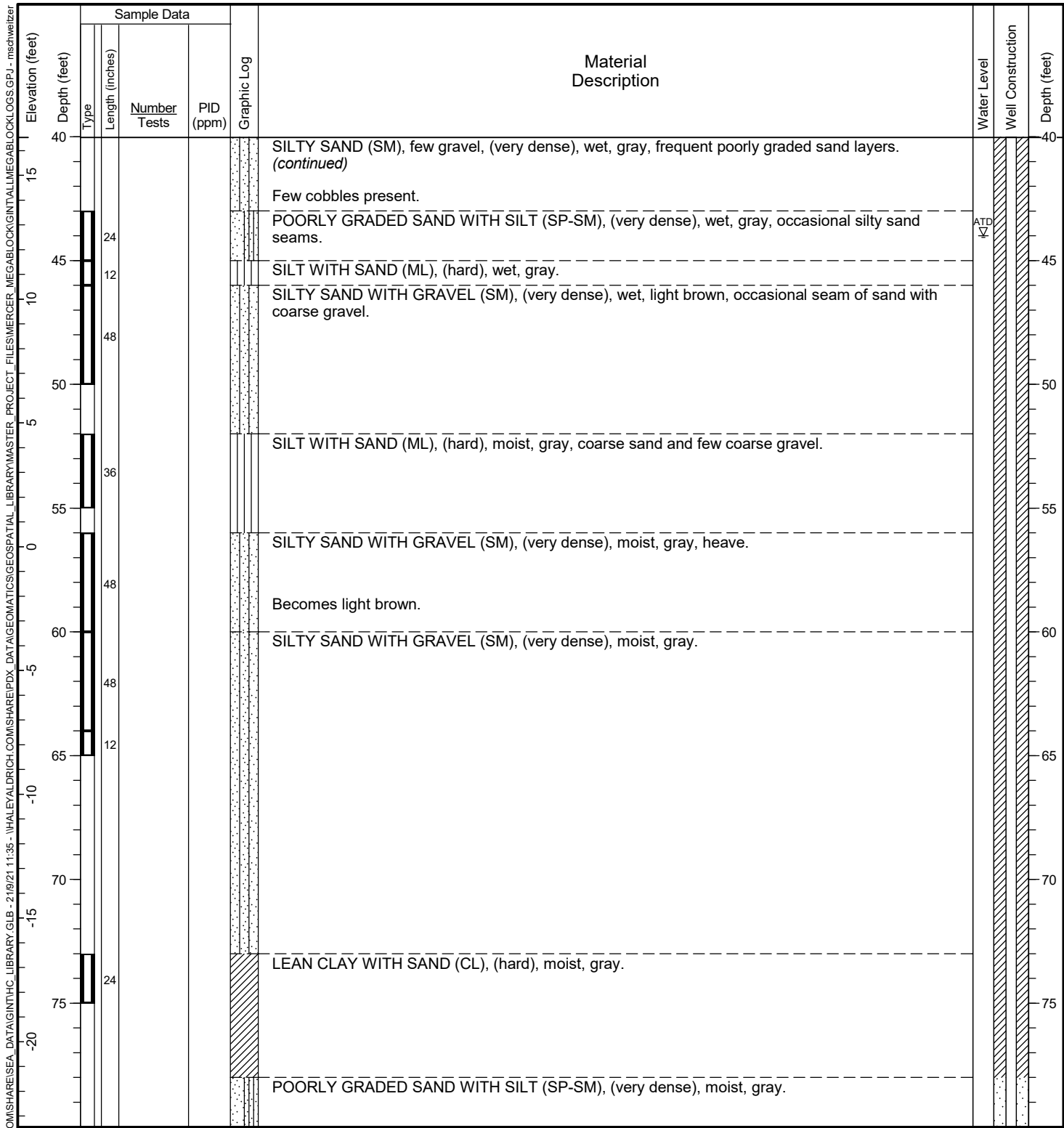
Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Sonic Core Log
HMW-3D

Figure **A1-59**
 Sheet **1 of 3**

HC PUSH PROBE - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2/18/21 11:35 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCK\LOGS.GPJ - mschweitzer

Date Started: 03/06/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc.
 Logged by: K. Huddleston Checked by: C. Kroskie Rig Model/Type: TSi 150 / Track-mounted drill rig
 Location: Lat: 47.625133 Long: -122.341998 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 56.56 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 44 feet
 Comments: Well Tag ID: BLI199



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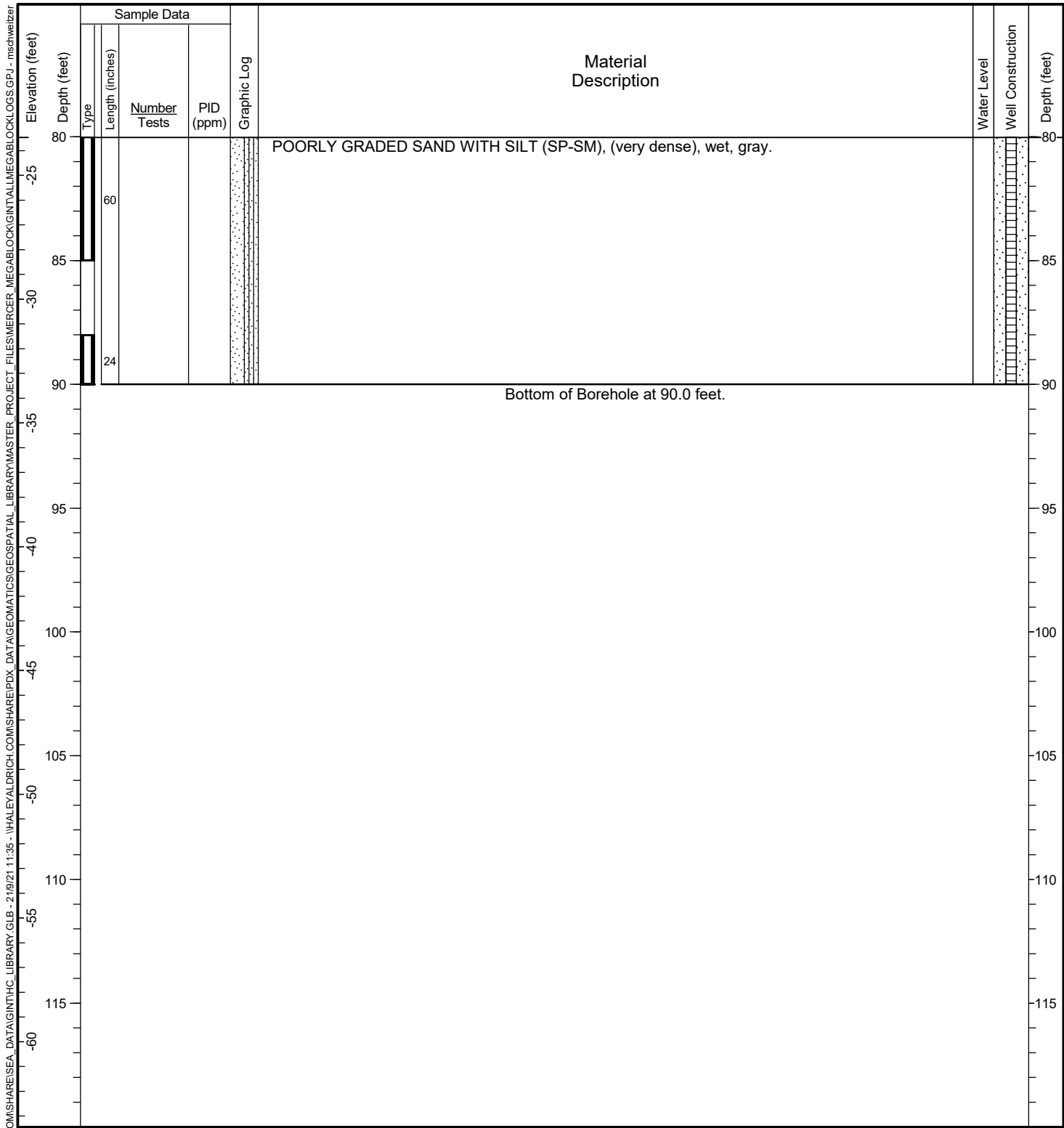
Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Sonic Core Log
HMW-3D

Figure **A1-59**
 Sheet **2 of 3**

HC PUSH PROBE - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2109\21 11:35 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\S\PATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCK\LOGS.GPJ - mschweitzer

Date Started: 03/06/2019 Date Completed: 03/06/2019 Contractor/Crew: Holt Services, Inc.
 Logged by: K. Huddleston Checked by: C. Kroskie Rig Model/Type: TSi 150 / Track-mounted drill rig
 Location: Lat: 47.625133 Long: -122.341998 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
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 Comments: Well Tag ID: BLI199

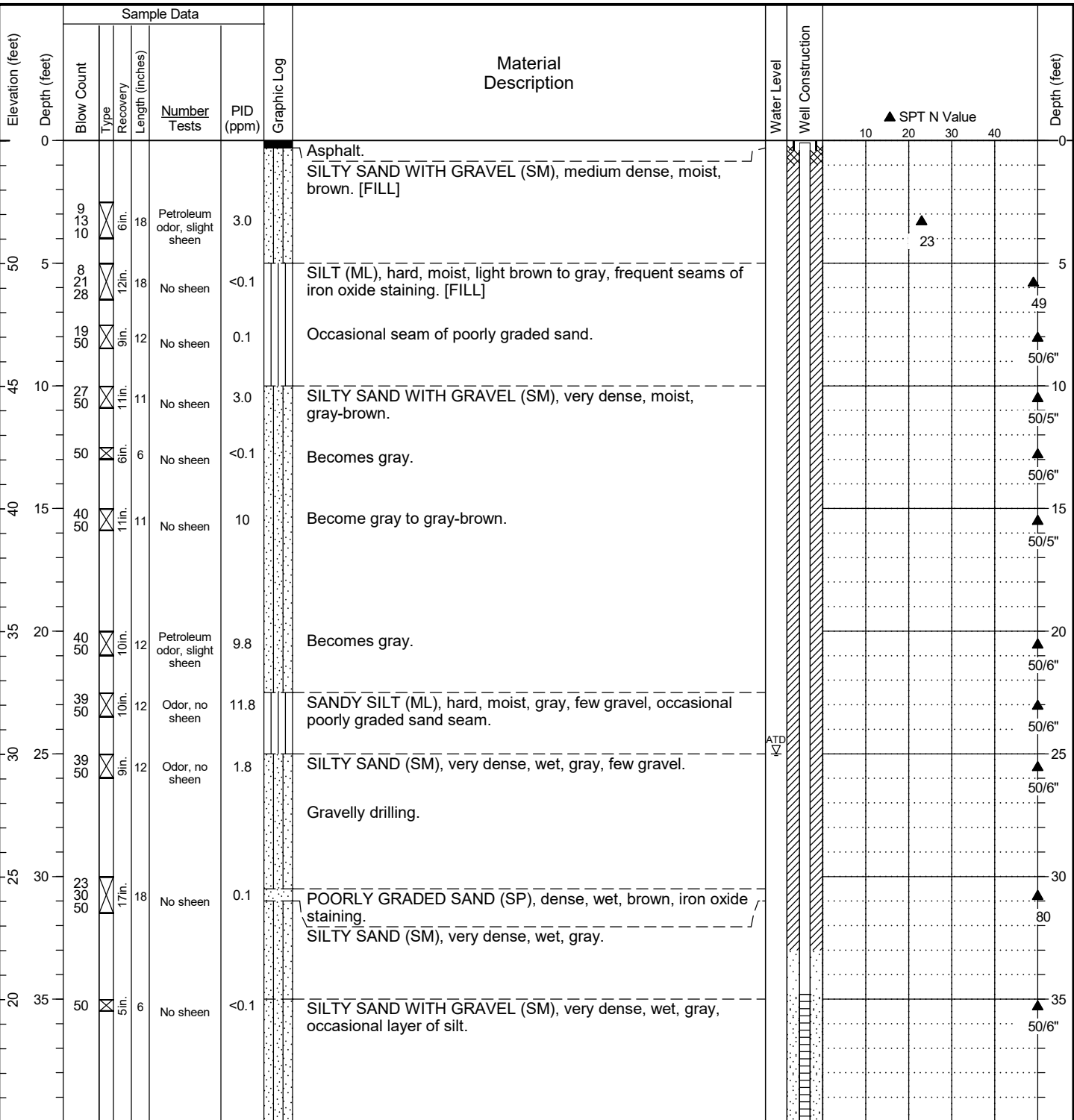


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HC PUSH PROBE - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2/18/21 11:35 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\S\PATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\AL\MEGABLOCK\LOGS.GPJ - mschweitzer

Date Started: 03/15/2019 Date Completed: 03/15/2019 Drilling Contractor/Crew: Holt Services, Inc. / Rayon Darling
 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625150 Long: -122.341930 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 55.02 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLR925 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 45.5 feet Depth to Groundwater: 25 feet

HC BORING LOG - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY.GLB - 2/19/21 11:36 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweitzer



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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

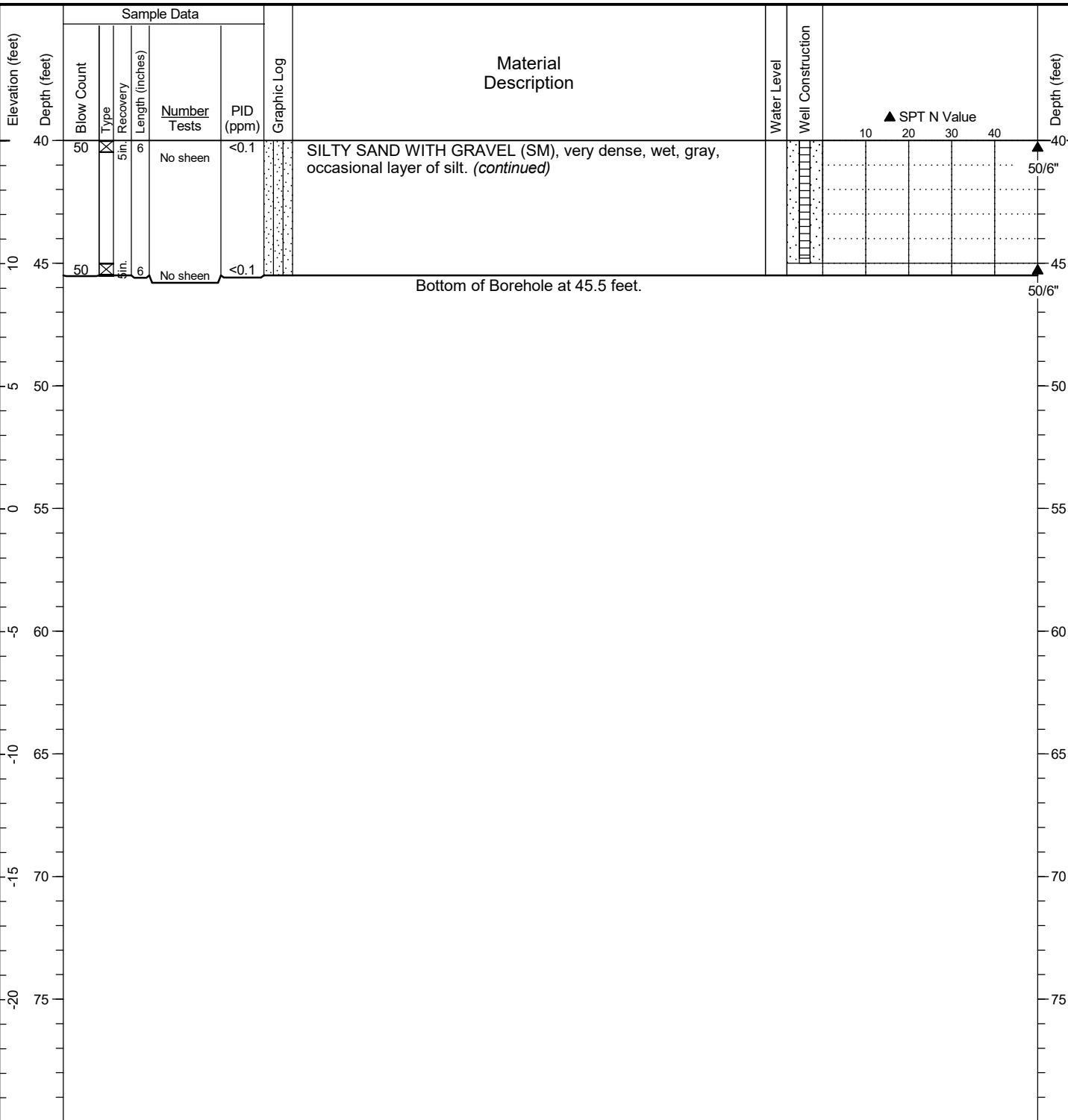


Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Boring Log
HMW-3IA

Figure **A1-60**
 Sheet 1 of 2

Date Started: 03/15/2019 Date Completed: 03/15/2019 Drilling Contractor/Crew: Holt Services, Inc. / Rayon Darling
 Logged by: C. Kroskie Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625150 Long: -122.341930 (WGS 84) Rig Model/Type: Mobile B-58 / Truck-mounted drill rig
 Ground Surface Elevation: 55.02 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLR925 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 45.5 feet Depth to Groundwater: 25 feet



General Notes:

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Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

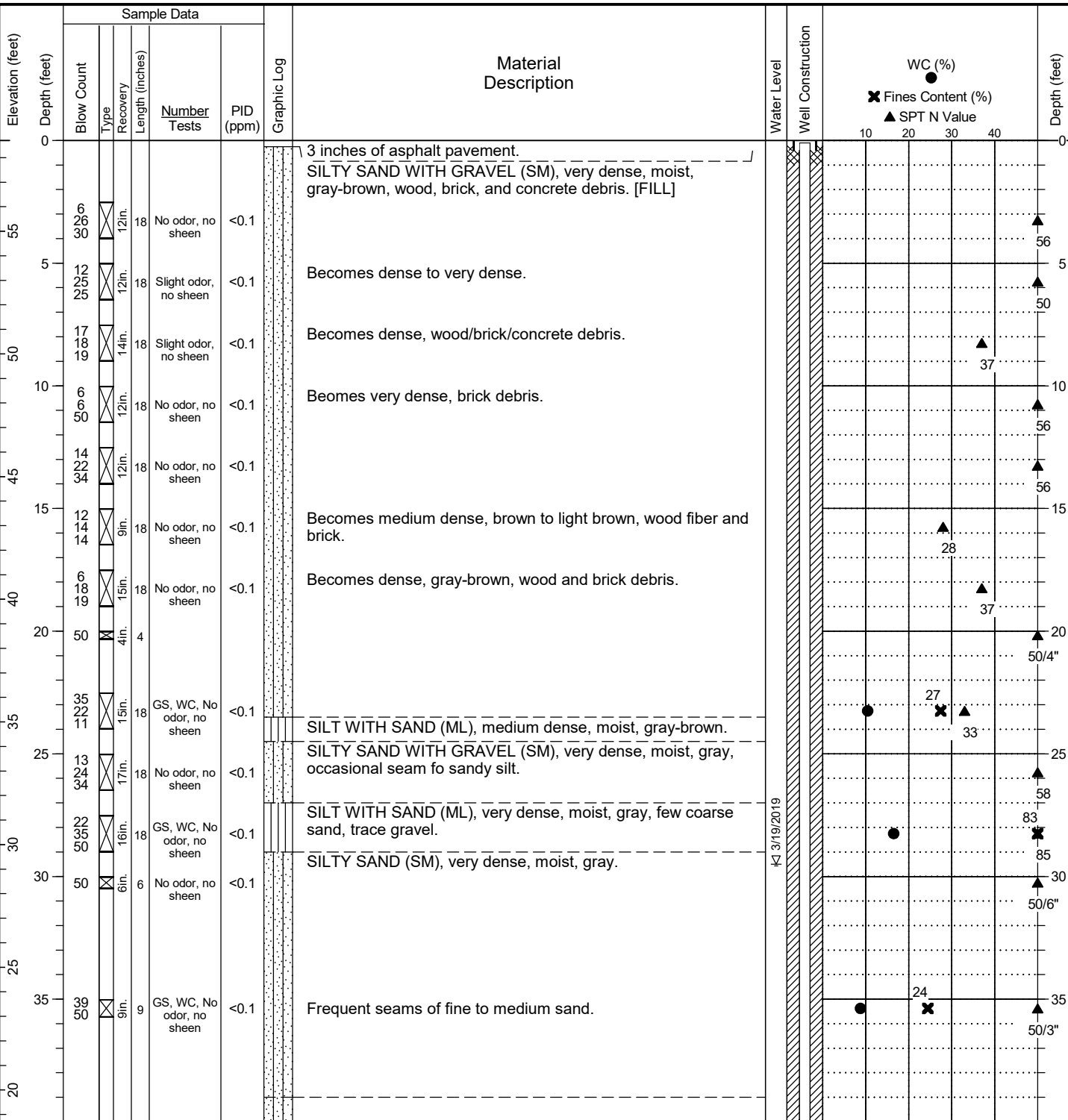
Boring Log
HMW-31A

Figure **A1-60**
 Sheet **2 of 2**

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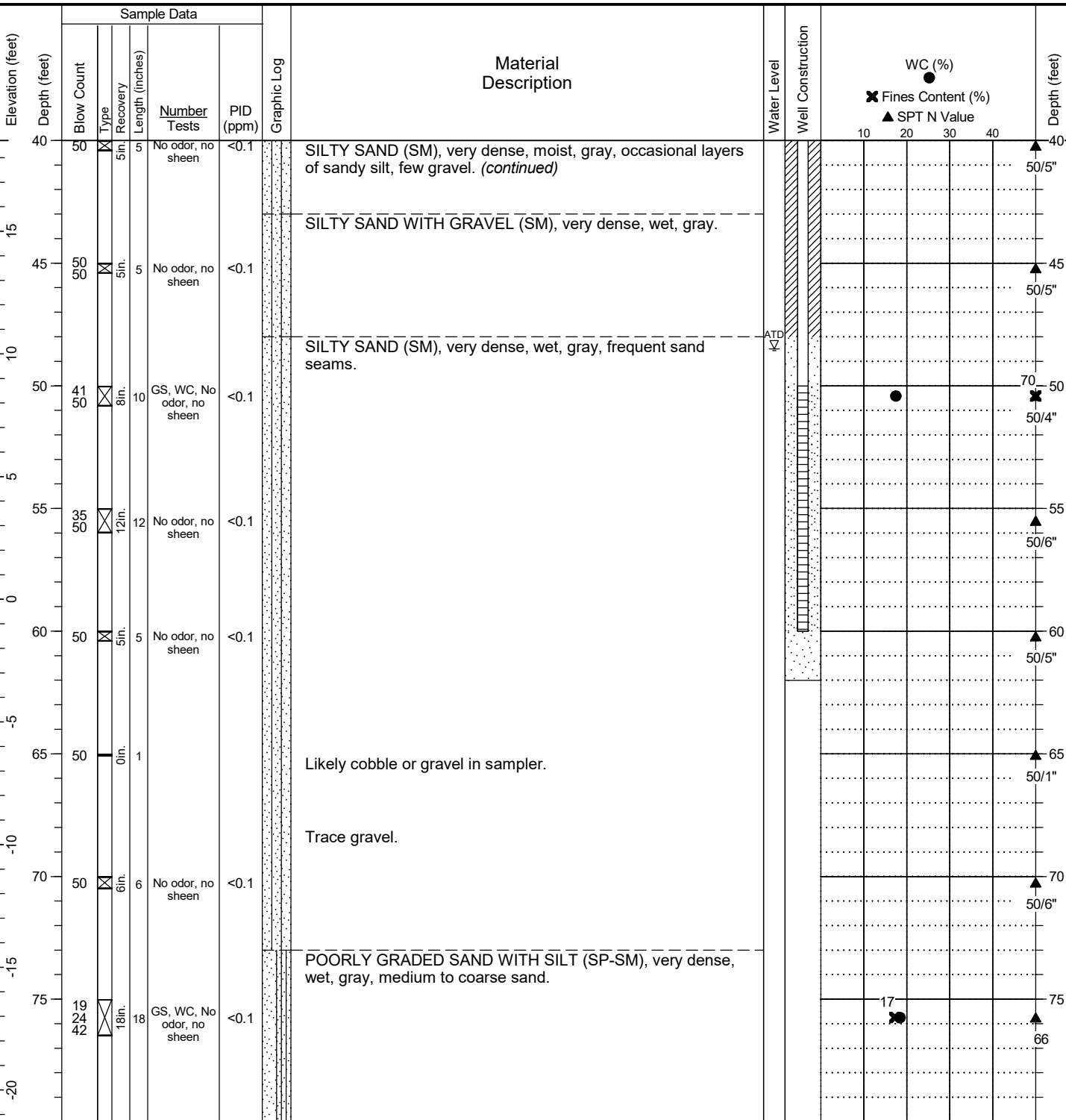
Date Started: 03/07/2019 Date Completed: 03/07/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624812 Long: -122.341986 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 58.70 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLI162 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 81.5 feet Depth to Groundwater: 48.5 feet

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 11:36 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweitzer



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Date Started: 03/07/2019 Date Completed: 03/07/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.624812 Long: -122.341986 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 58.70 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BLI162 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
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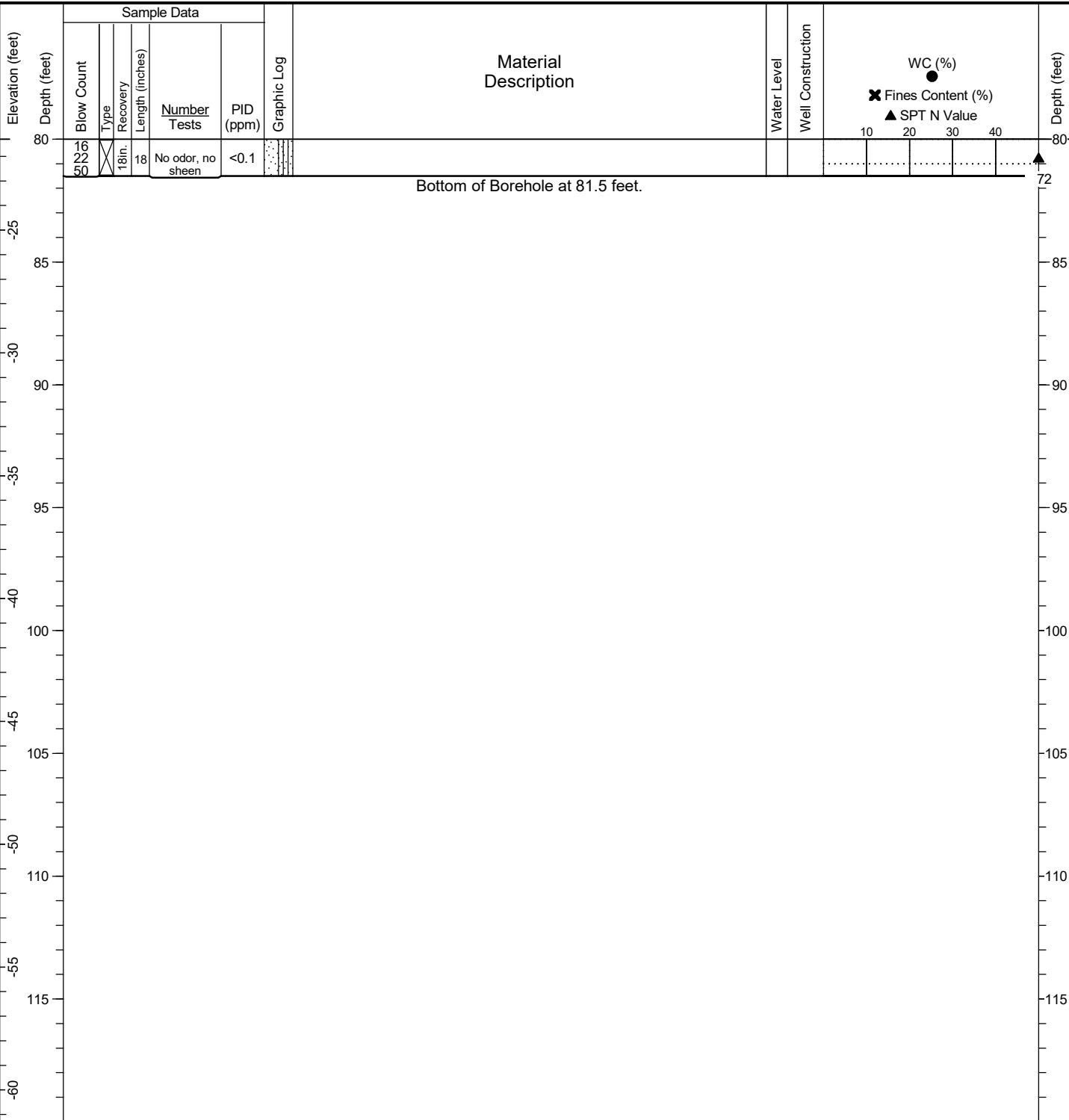


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HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 11:36 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweitzer

Date Started: 03/07/2019 Date Completed: 03/07/2019 Drilling Contractor/Crew: Holt Services, Inc.
 Logged by: M. Shaljian Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
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 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 81.5 feet Depth to Groundwater: 48.5 feet

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 11:36 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweizer



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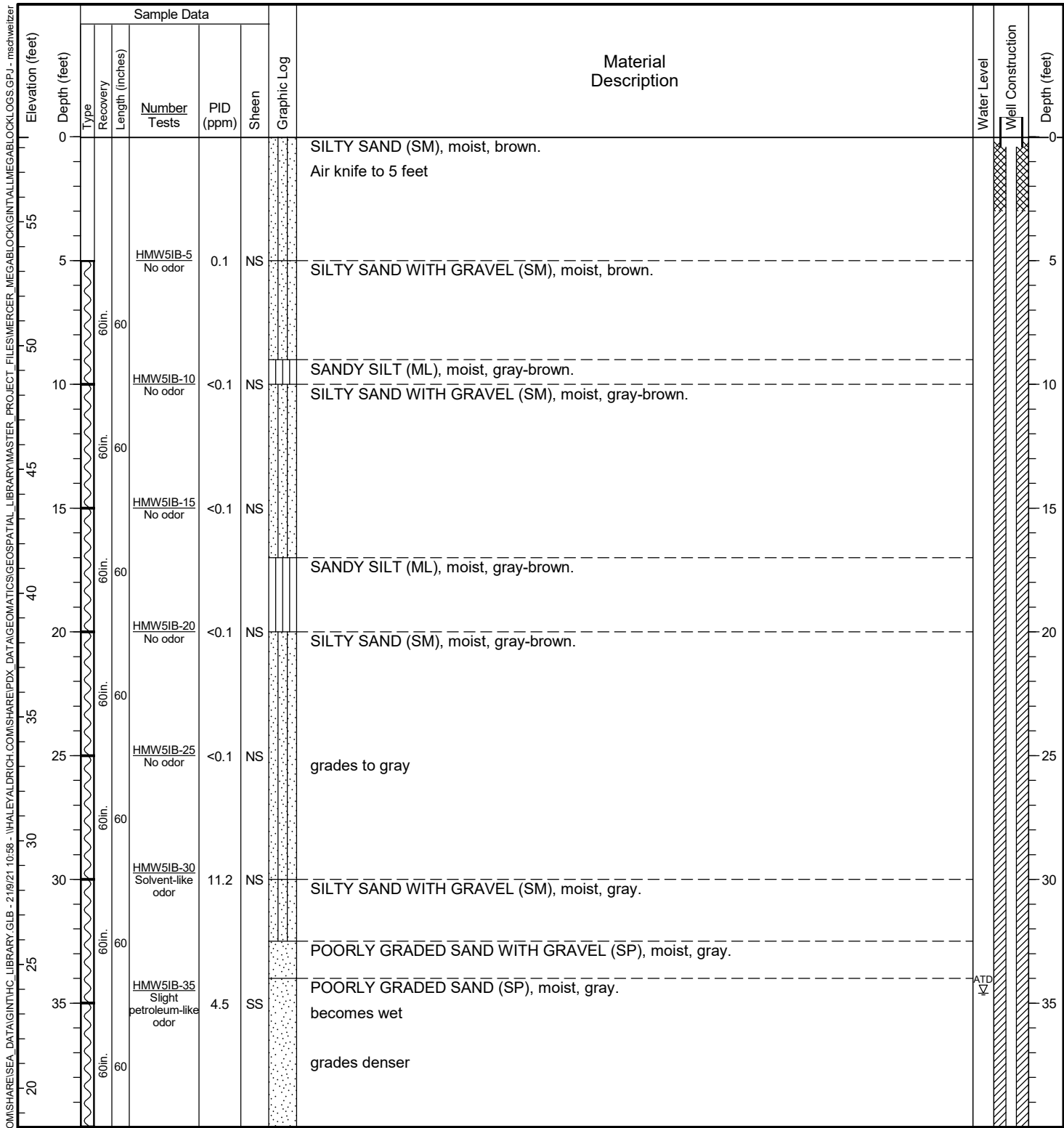


Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Boring Log
HMW-41A

Figure **A1-61**
 Sheet **3 of 3**

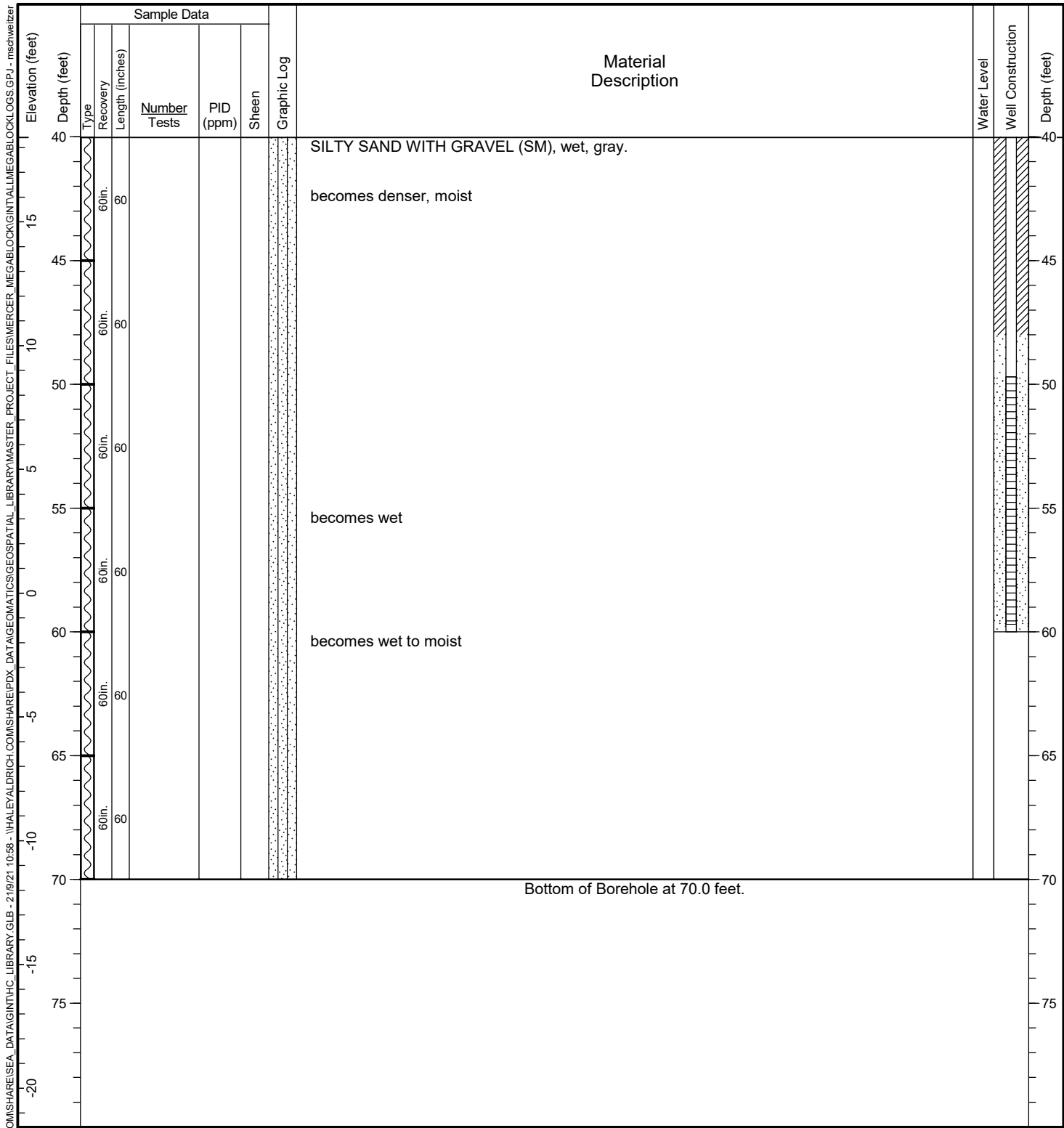
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 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.624959 Long: -122.342099 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 58.44 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 34.6 feet
 Comments: Well Tag ID: BLZ188



General Notes:
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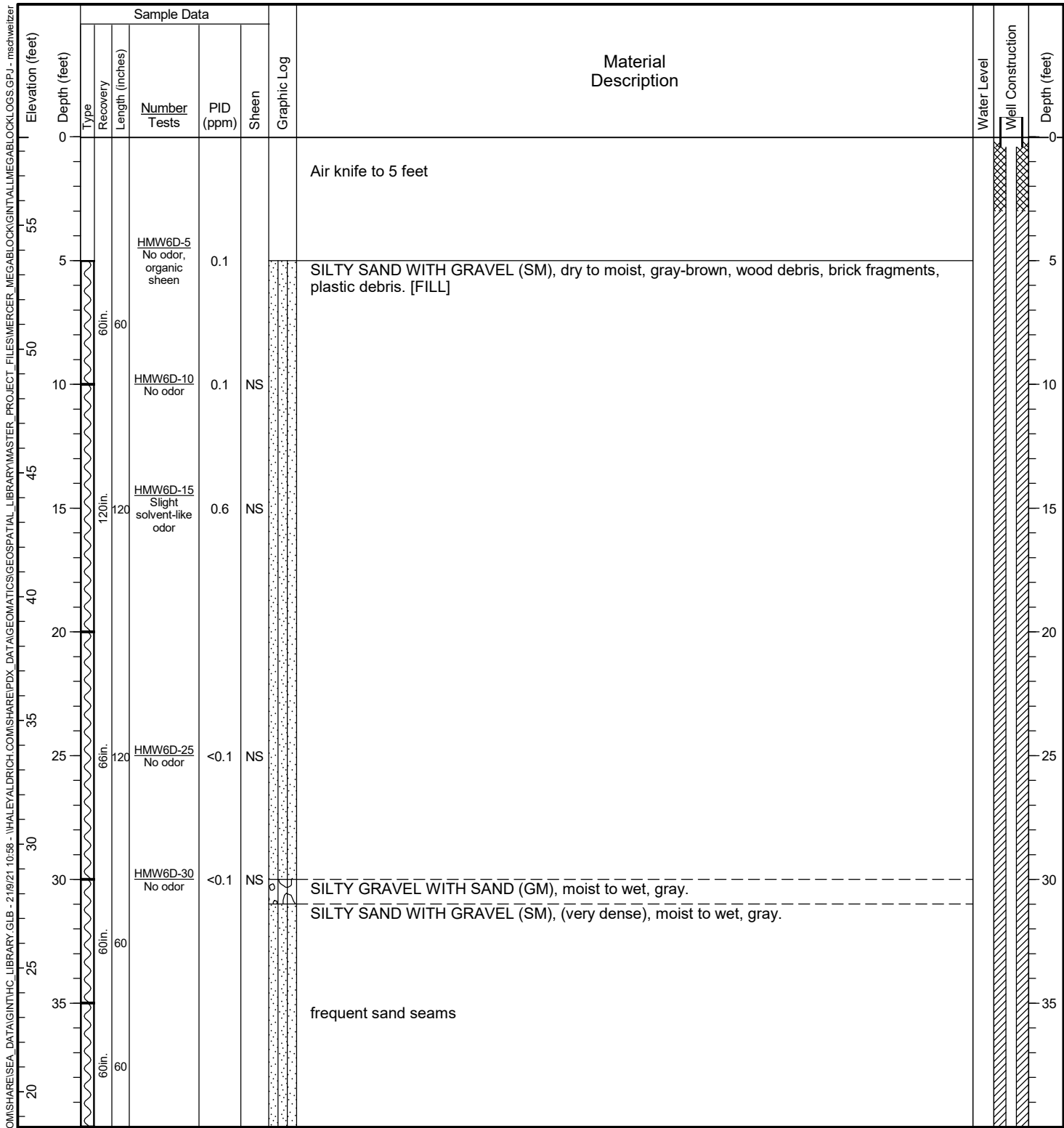
Date Started: 02/28/2020 Date Completed: 02/28/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
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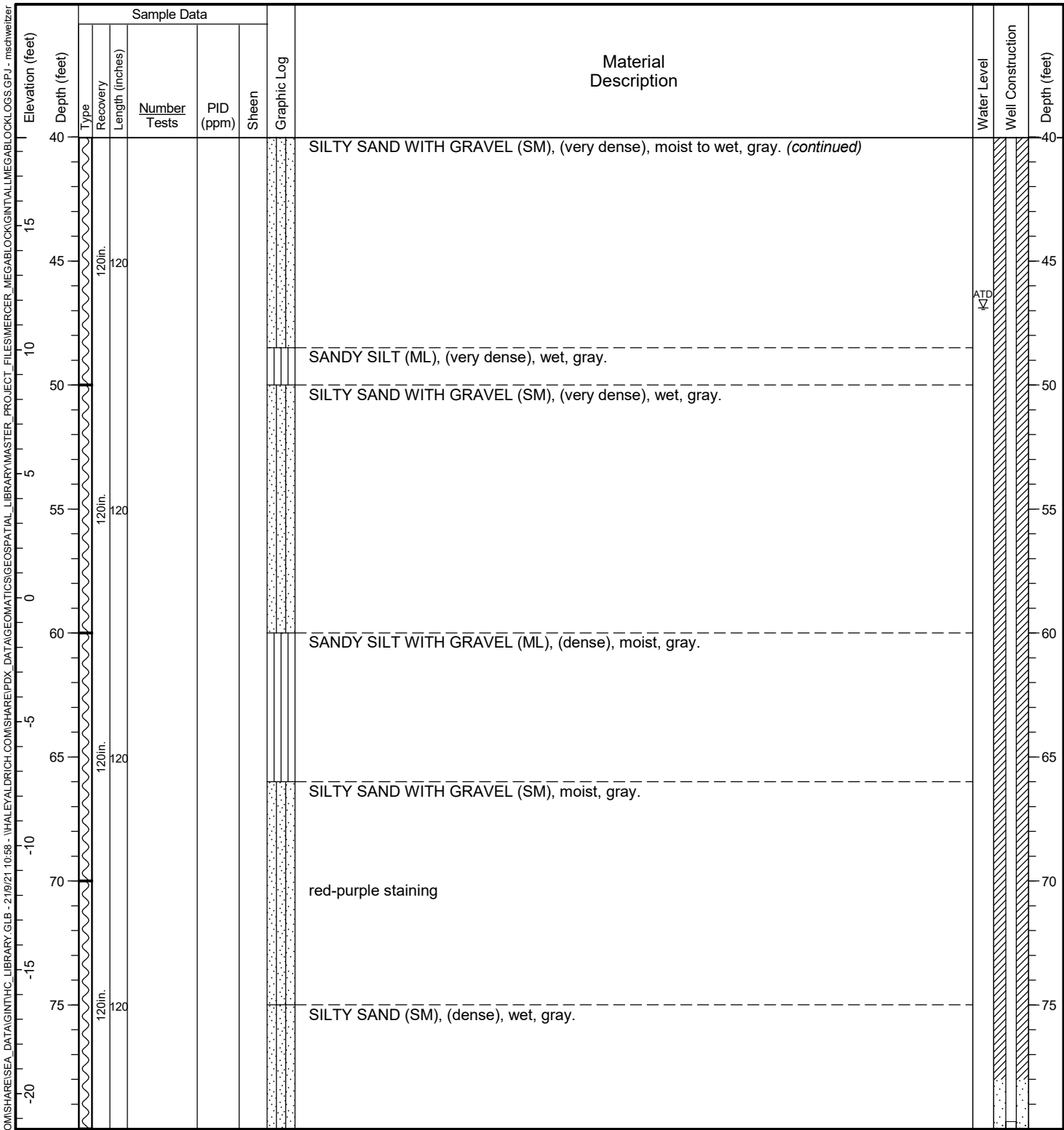
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 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624790 Long: -122.342094 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 58.58 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 46.89 feet
 Comments: Well Tag ID: BLZ187



General Notes:
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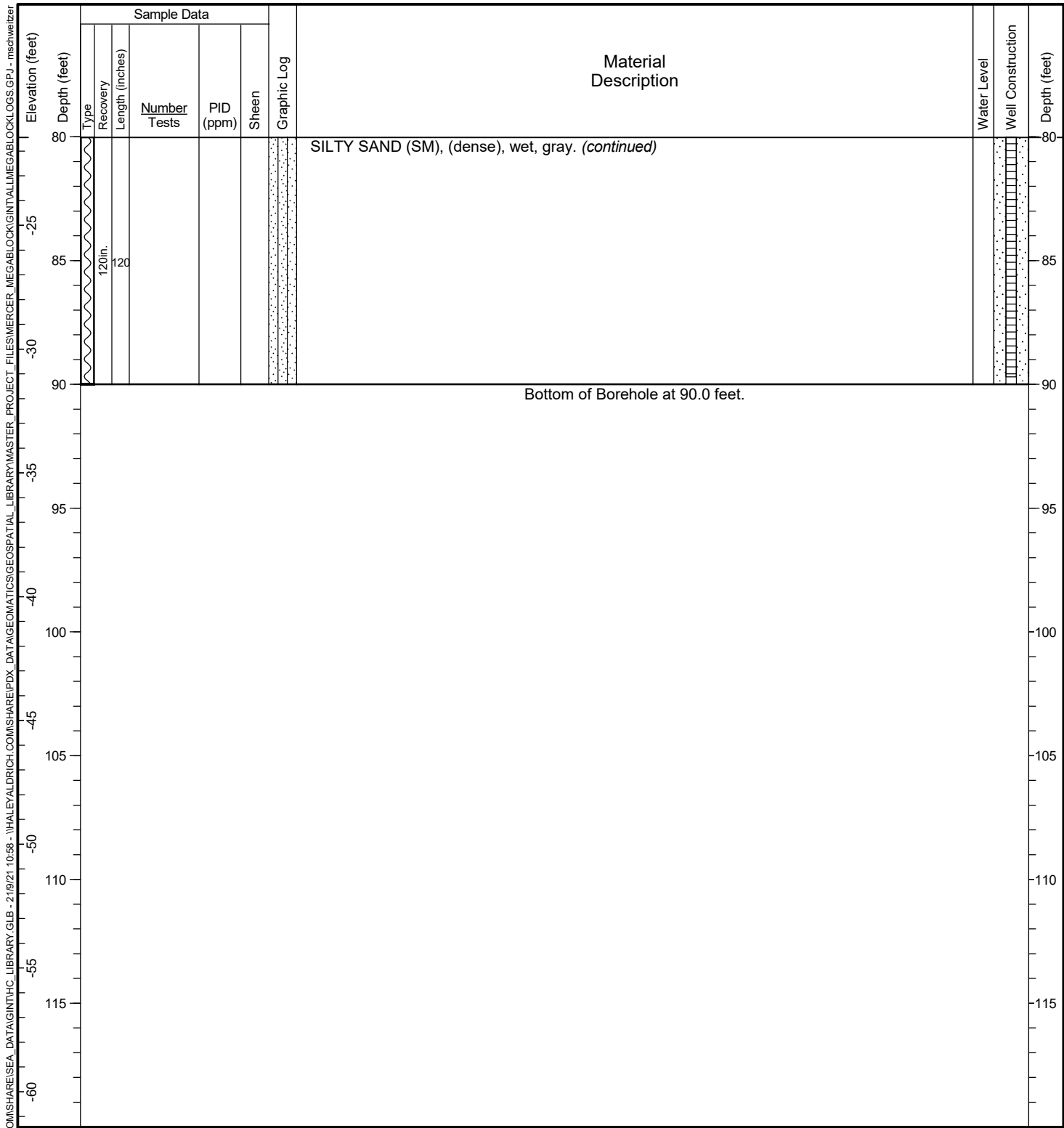
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 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624790 Long: -122.342094 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
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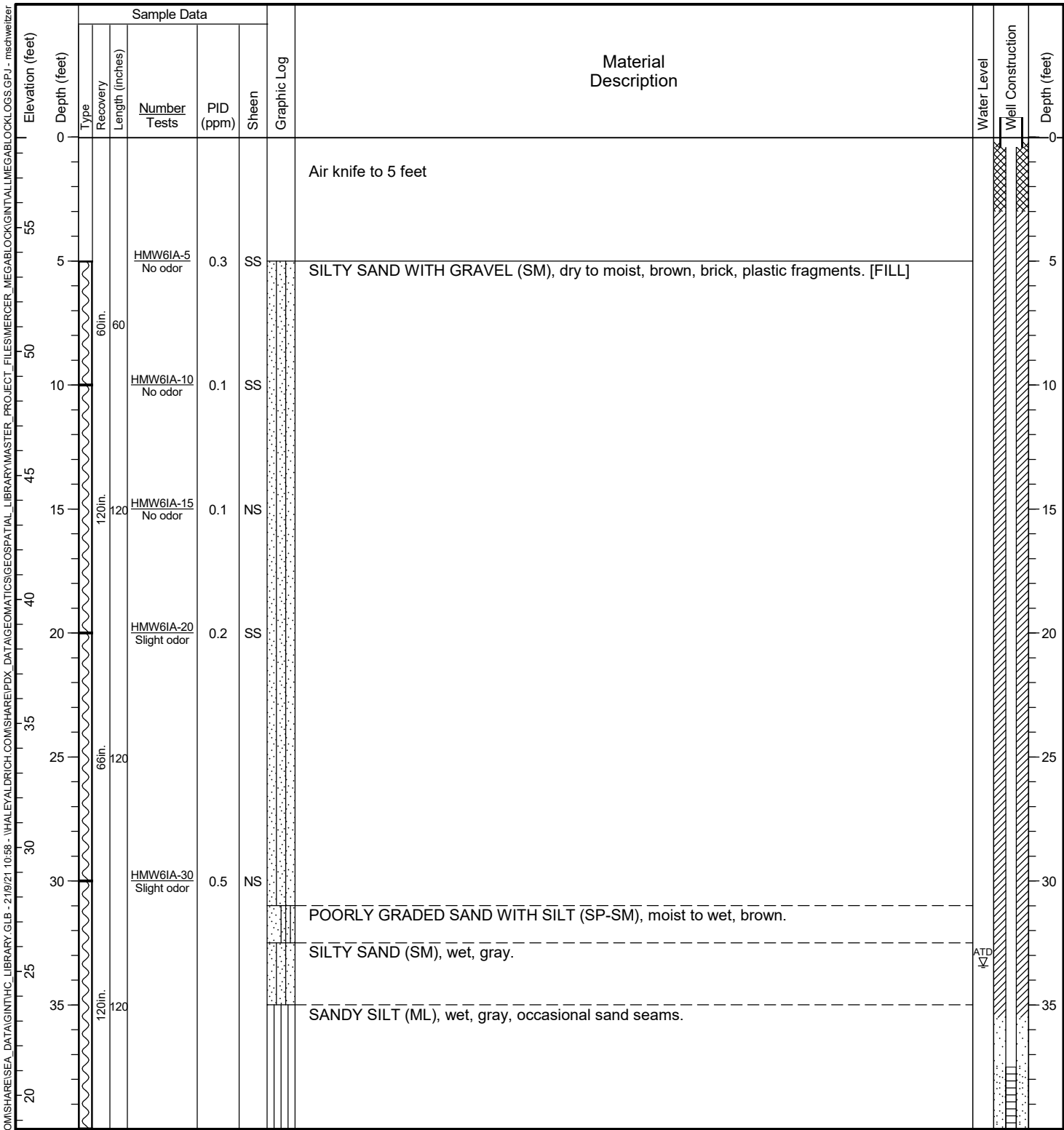
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 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624790 Long: -122.342094 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
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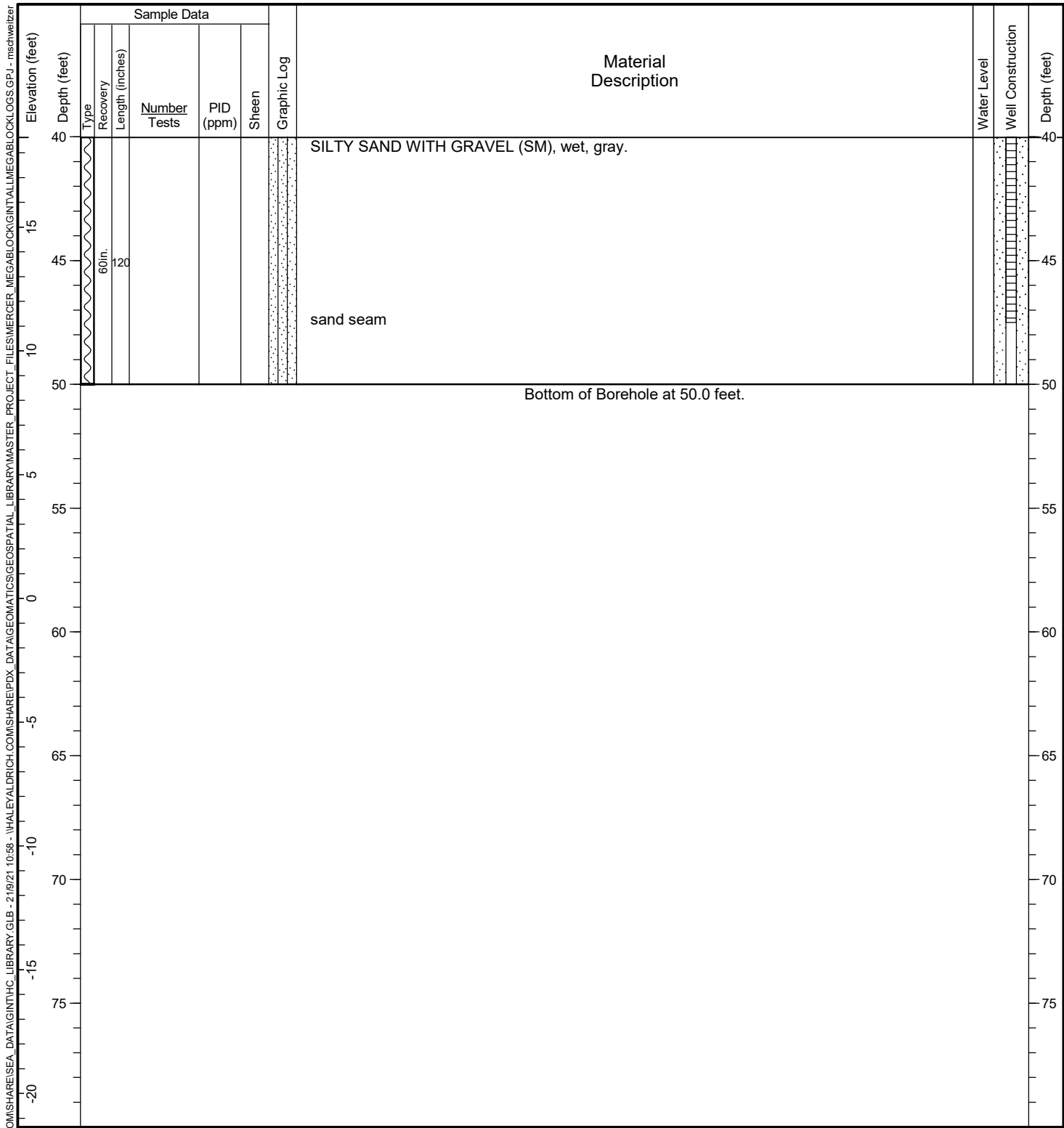
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Date Started: 03/02/2020 Date Completed: 03/02/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624793 Long: -122.342107 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 58.65 feet (NAVD 88) Total Depth: 50 feet Depth to Groundwater: 33.43 feet
 Comments: Well Tag ID: BLZ185



General Notes:
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 5. Location and ground surface elevations are approximate.

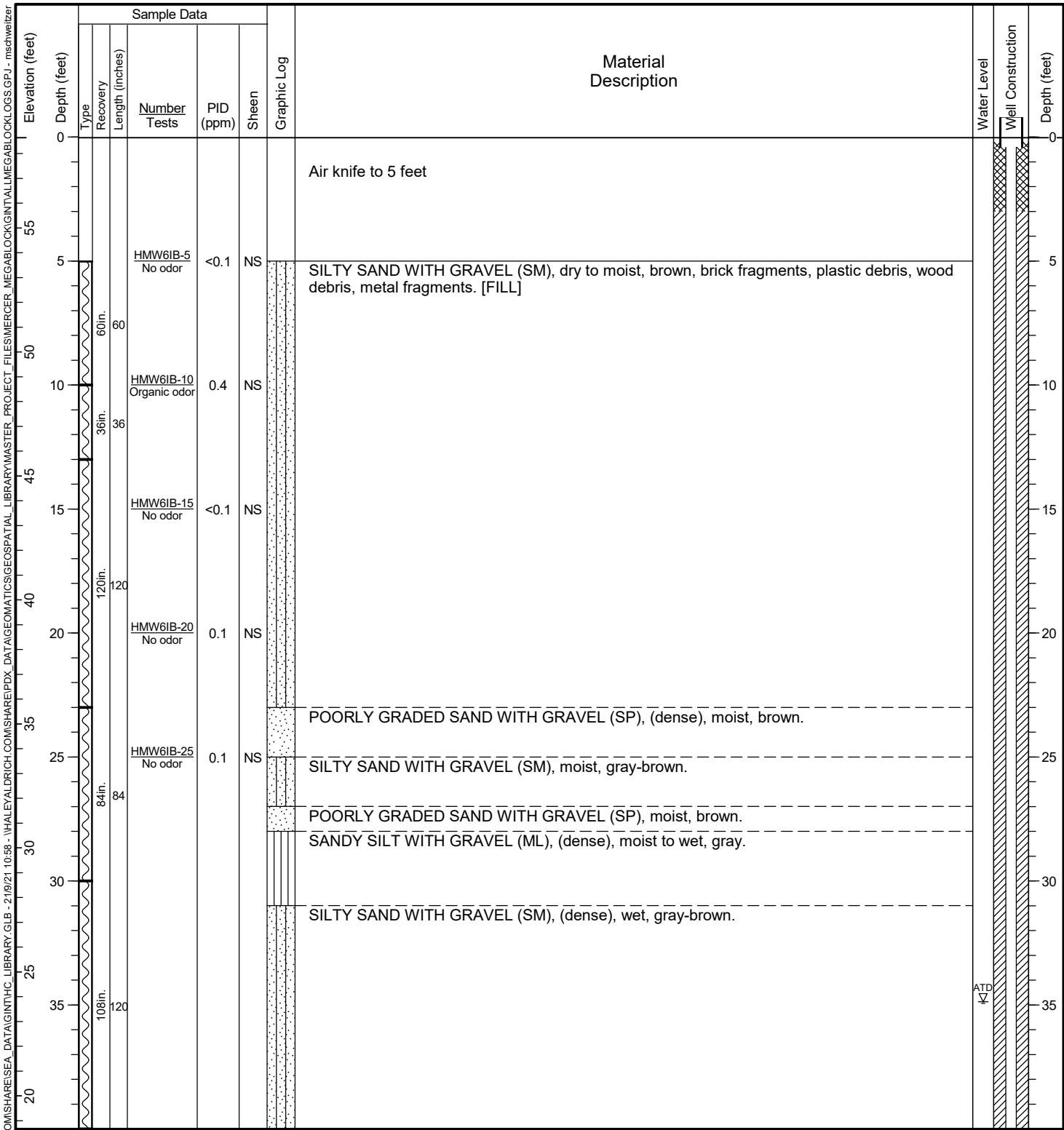
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 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624793 Long: -122.342107 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
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 Comments: Well Tag ID: BLZ185



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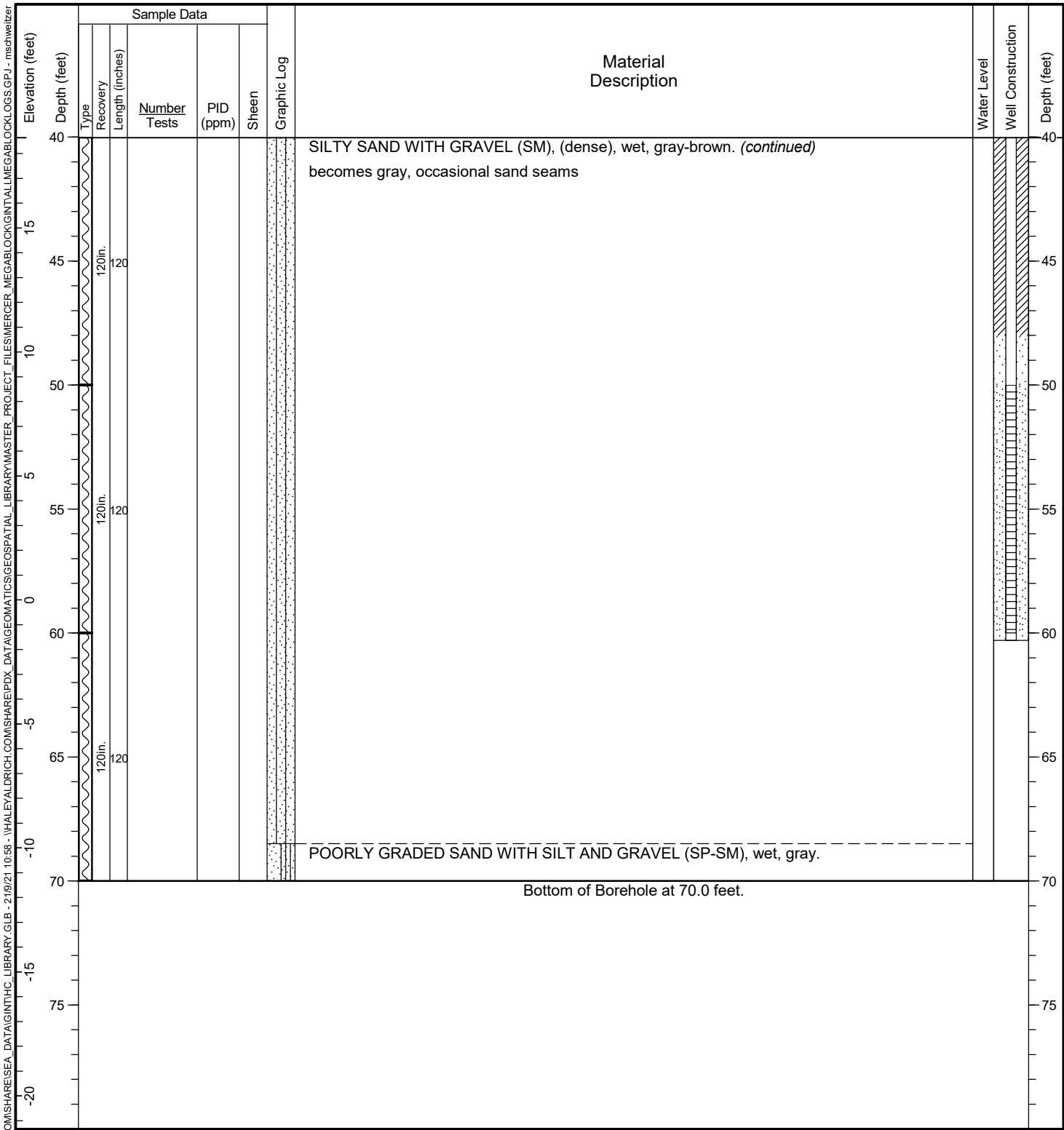
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 Location: Lat: 47.624781 Long: -122.342102 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 58.67 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 34.87 feet
 Comments: Well Tag ID: BLZ186



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC PUSH PROBE - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2109\21 10:58 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEO\MAT\CS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCK\LOGS.GPJ - mschweitzer

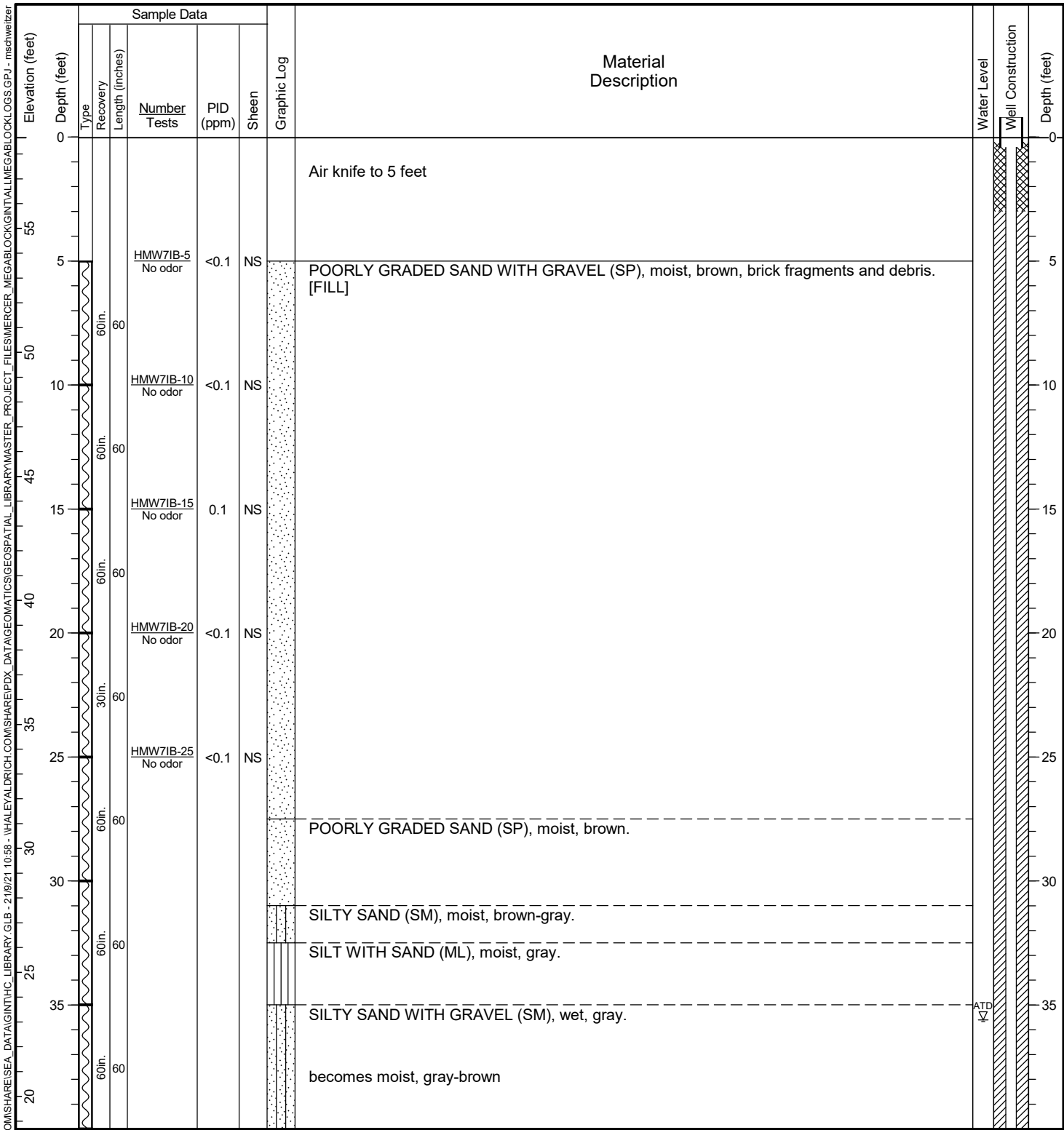
Date Started: 03/03/2020 Date Completed: 03/03/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624781 Long: -122.342102 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 58.67 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 34.87 feet
 Comments: Well Tag ID: BLZ186



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC PUSH PROBE - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2/18/21 10:58 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweitzer

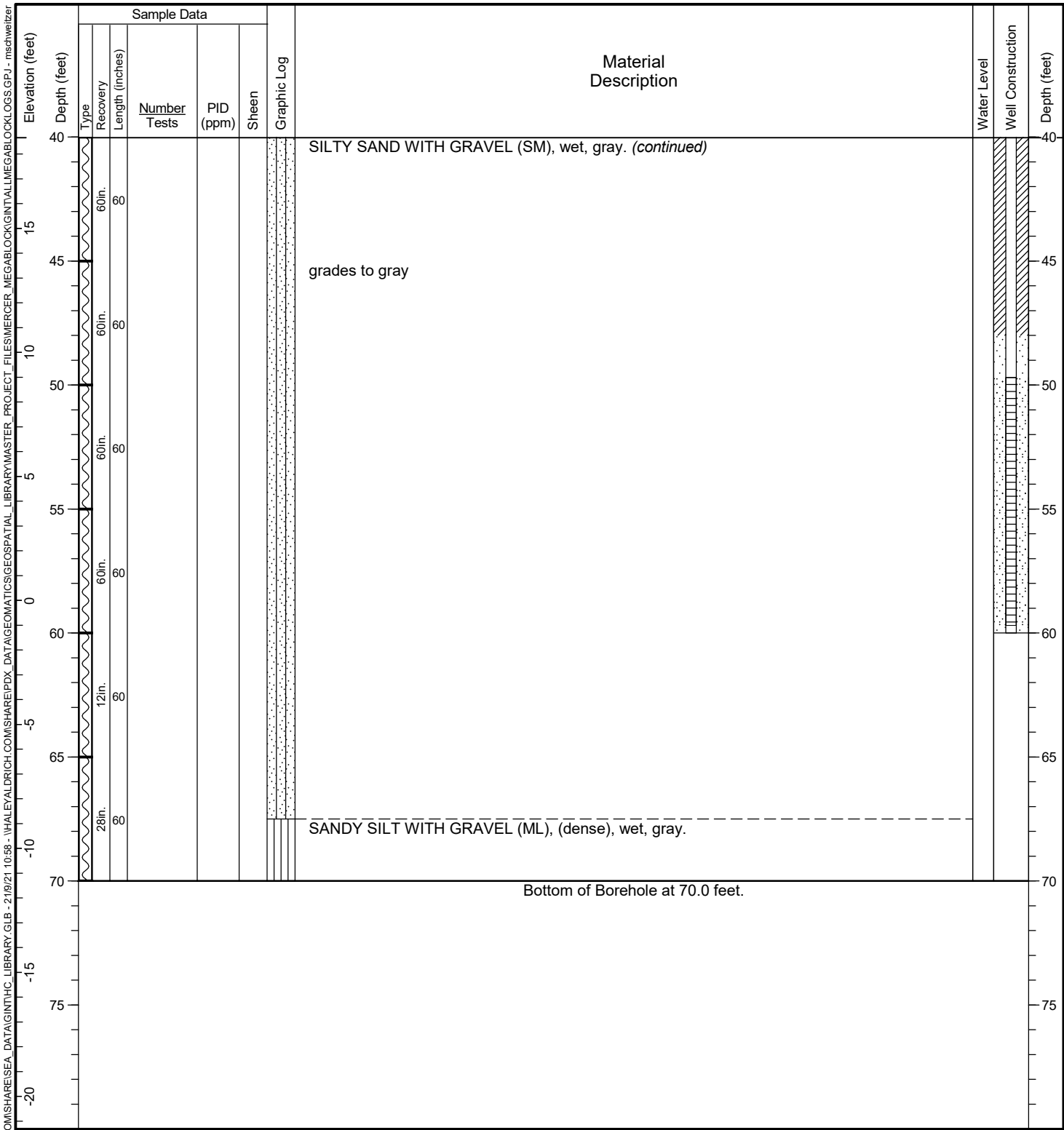
Date Started: 03/02/2020 Date Completed: 03/02/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.624711 Long: -122.342090 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 58.69 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 35.61 feet
 Comments: Well Tag ID: BLZ159



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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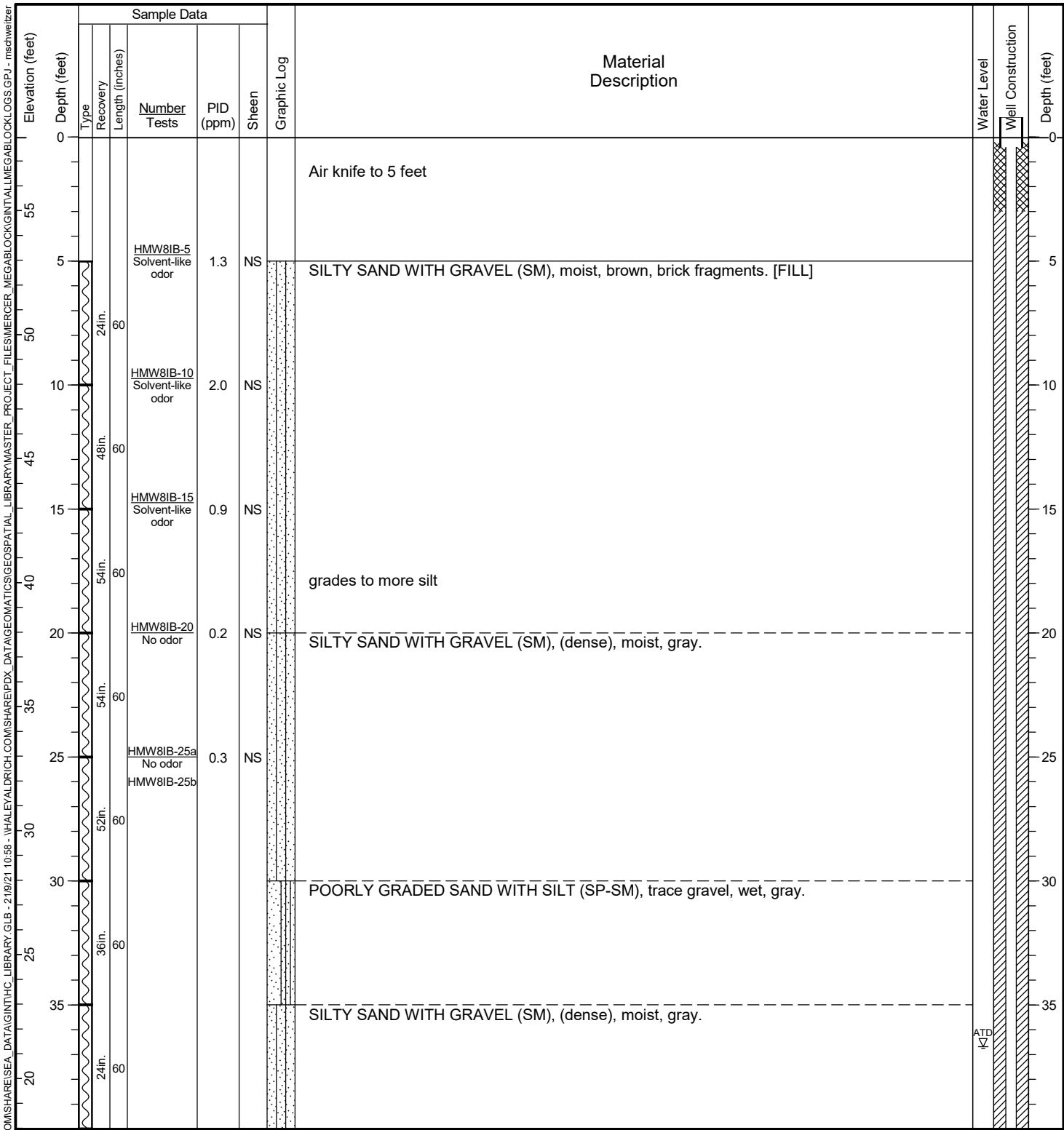
Date Started: 03/02/2020 Date Completed: 03/02/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.624711 Long: -122.342090 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 58.69 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 35.61 feet
 Comments: Well Tag ID: BLZ159



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC PUSH PROBE - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2109\21 10:58 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweitzer

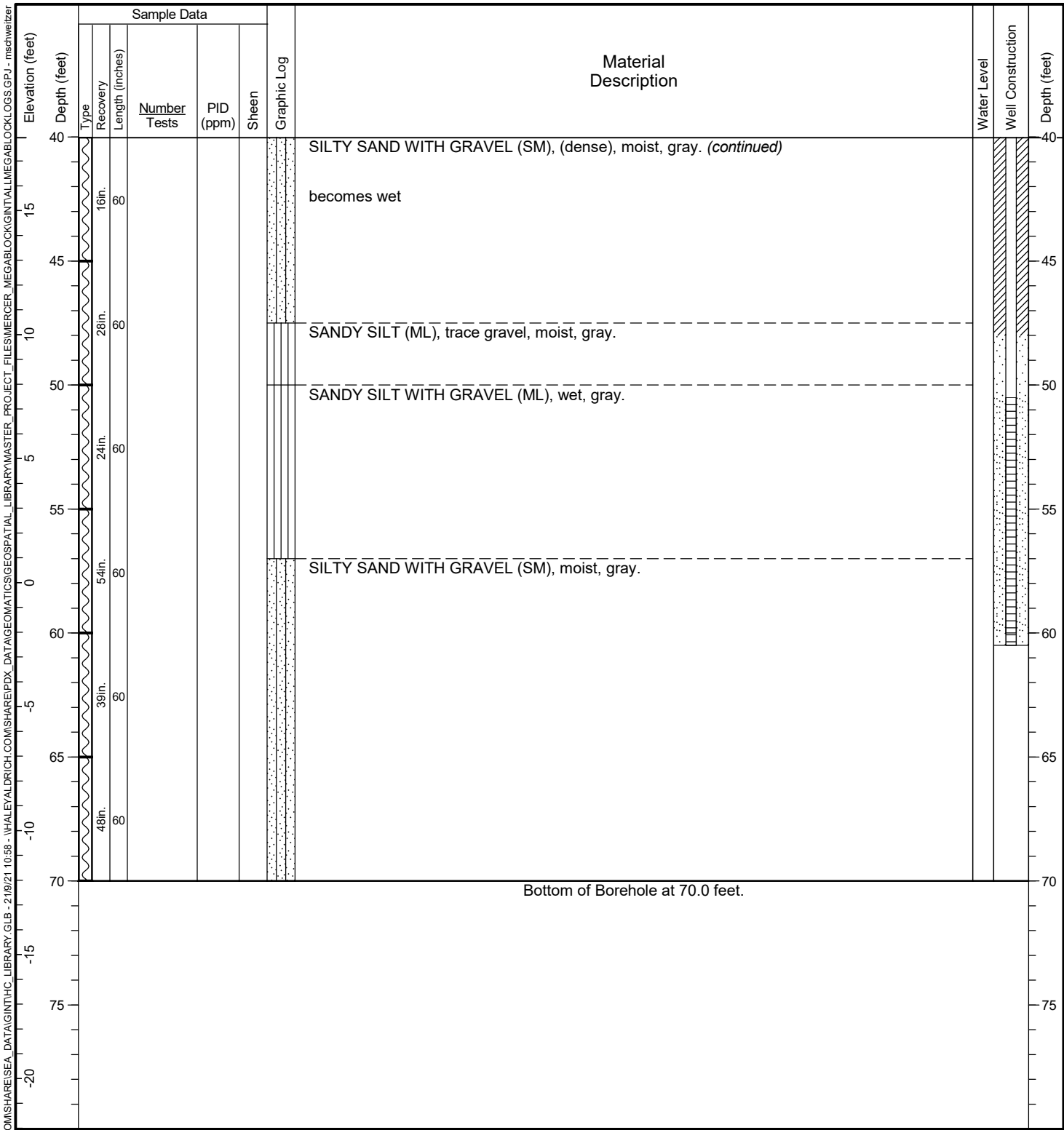
Date Started: 03/02/2020 Date Completed: 03/02/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.624814 Long: -122.341888 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 57.97 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 36.69 feet
 Comments: Well Tag ID: BLZ158



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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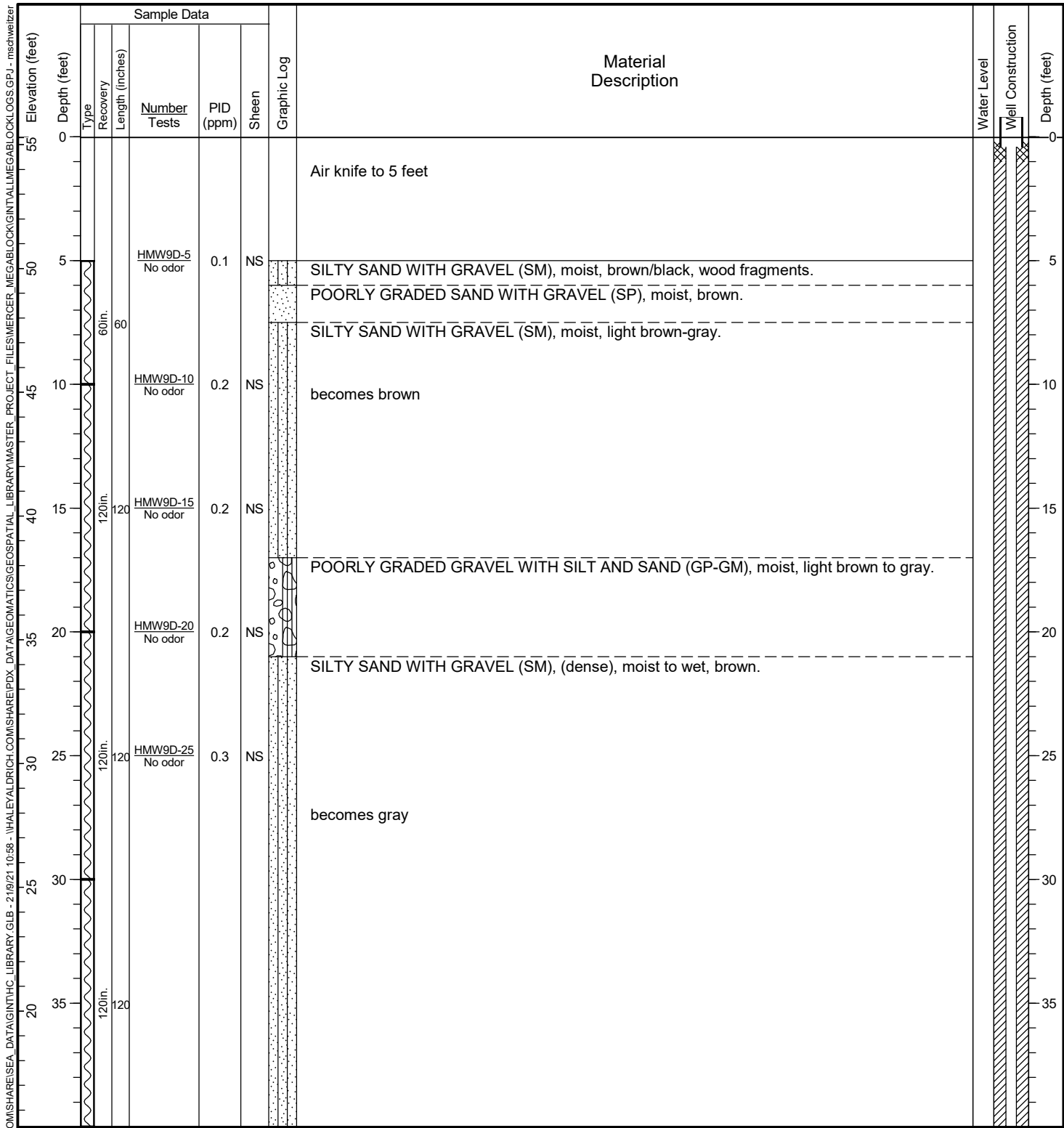
Date Started: 03/02/2020 Date Completed: 03/02/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.624814 Long: -122.341888 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 57.97 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 36.69 feet
 Comments: Well Tag ID: BLZ158



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC PUSH PROBE - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2/19/21 10:58 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEO\MAT\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCK\LOGS.GPJ - mschweitzer

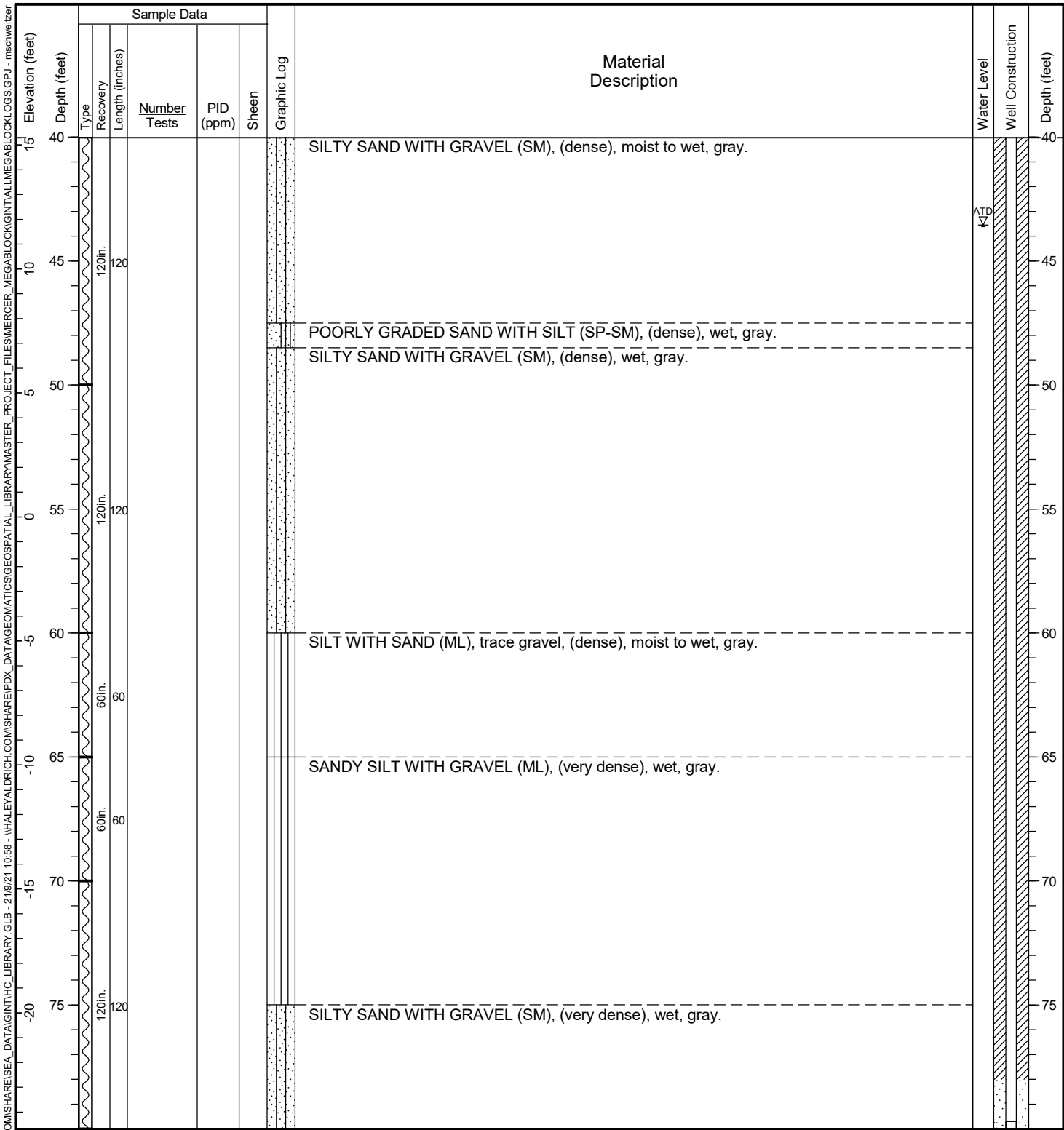
Date Started: 02/27/2020 Date Completed: 02/28/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624956 Long: -122.341687 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 55.32 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 43.55 feet
 Comments: Well Tag ID: BLZ192



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

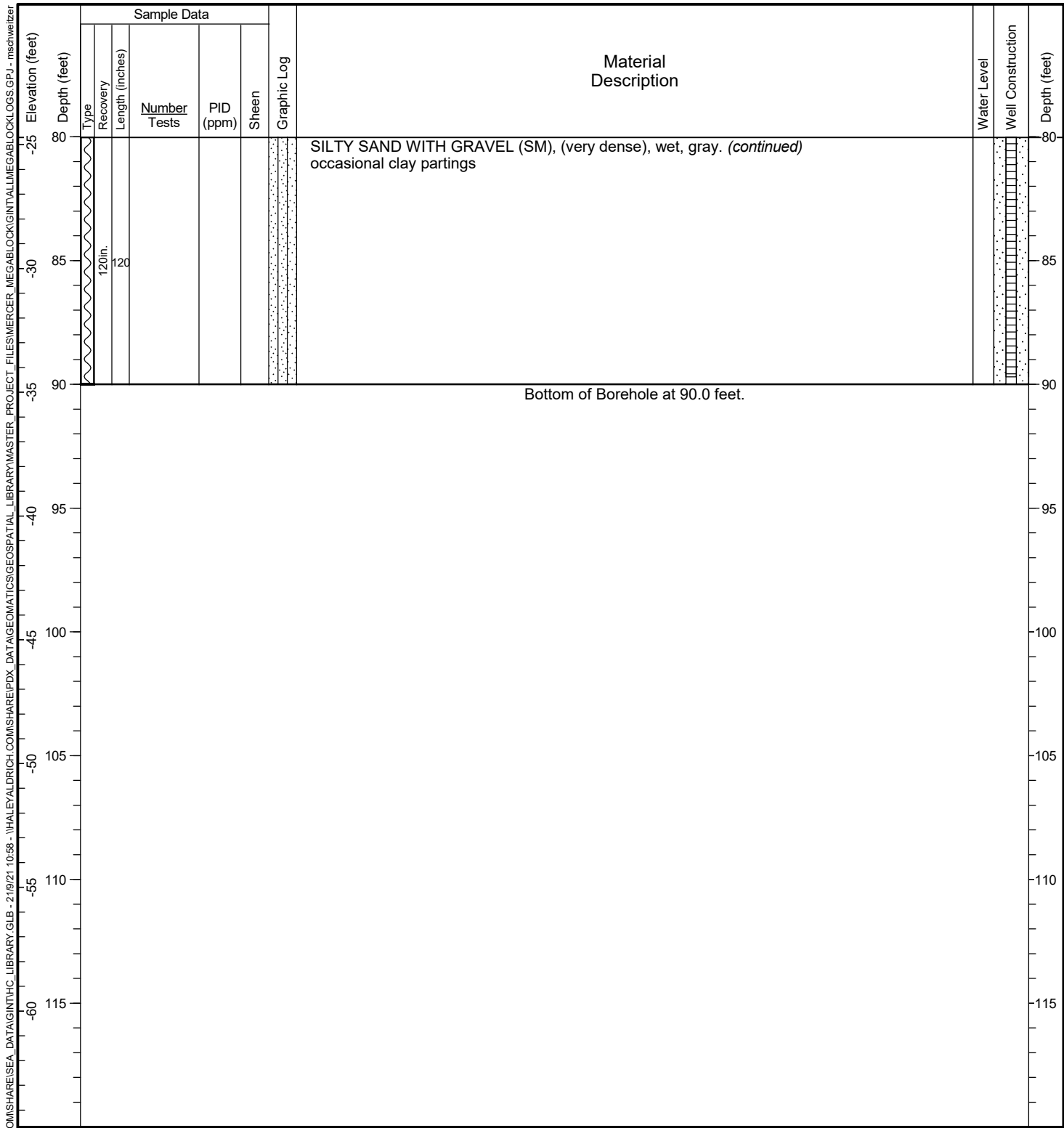
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Date Started: 02/27/2020 Date Completed: 02/28/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624956 Long: -122.341687 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 55.32 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 43.55 feet
 Comments: Well Tag ID: BLZ192



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

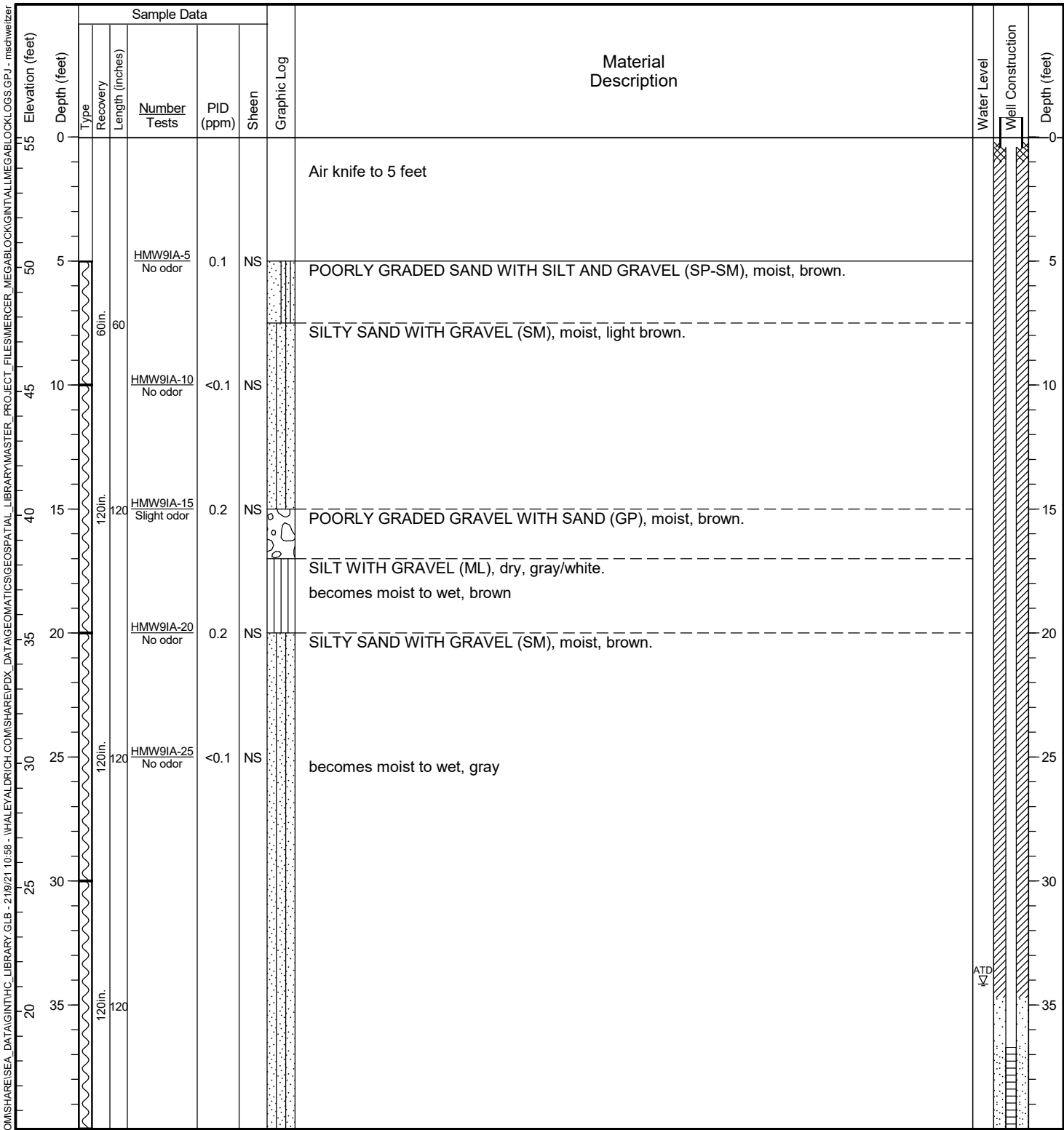
Date Started: 02/27/2020 Date Completed: 02/28/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624956 Long: -122.341687 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 55.32 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 43.55 feet
 Comments: Well Tag ID: BLZ192



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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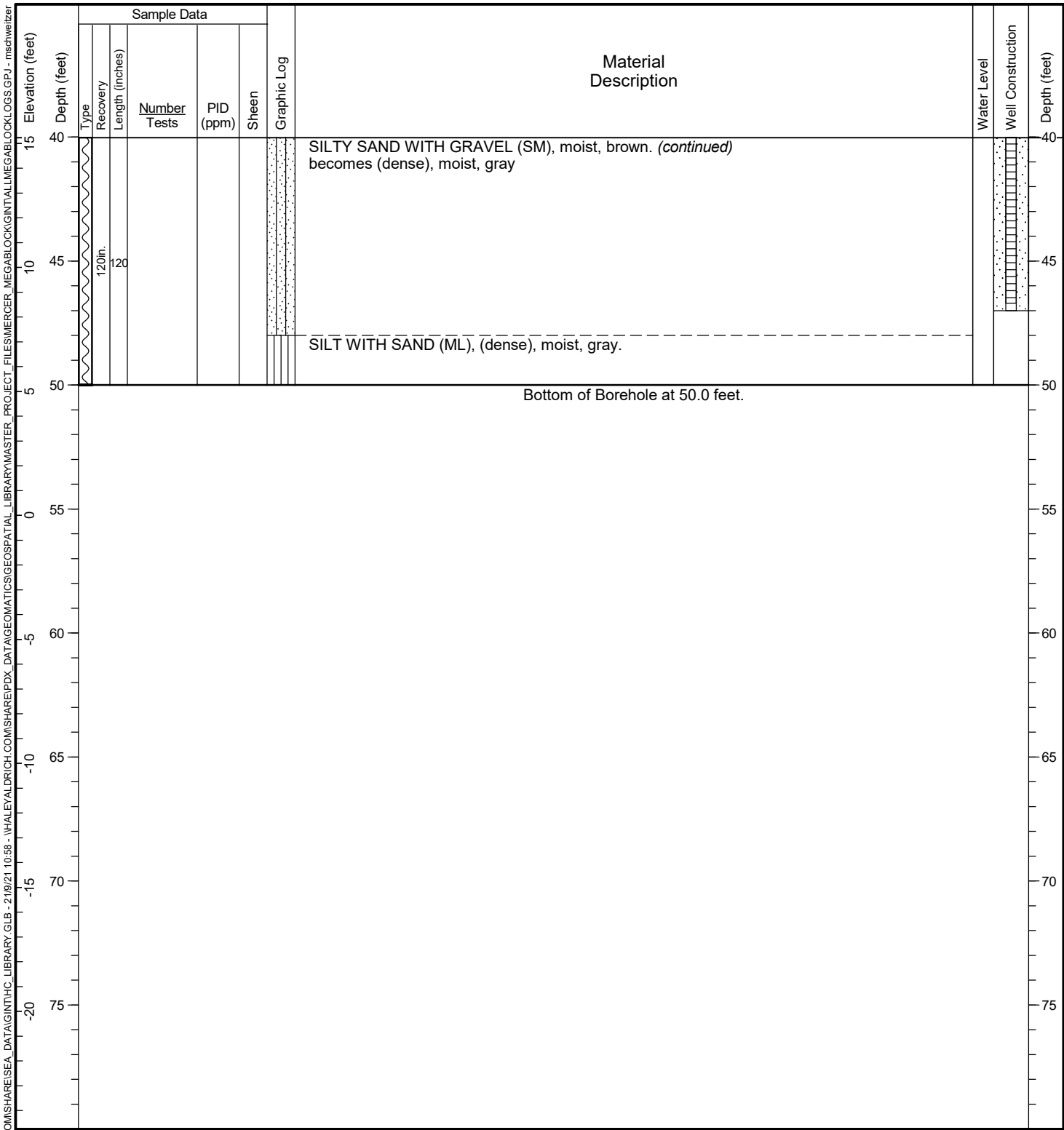
Date Started: 02/28/2020 Date Completed: 02/28/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624958 Long: -122.341703 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 55.26 feet (NAVD 88) Total Depth: 50 feet Depth to Groundwater: 34.16 feet
 Comments: Well Tag ID: BLZ190



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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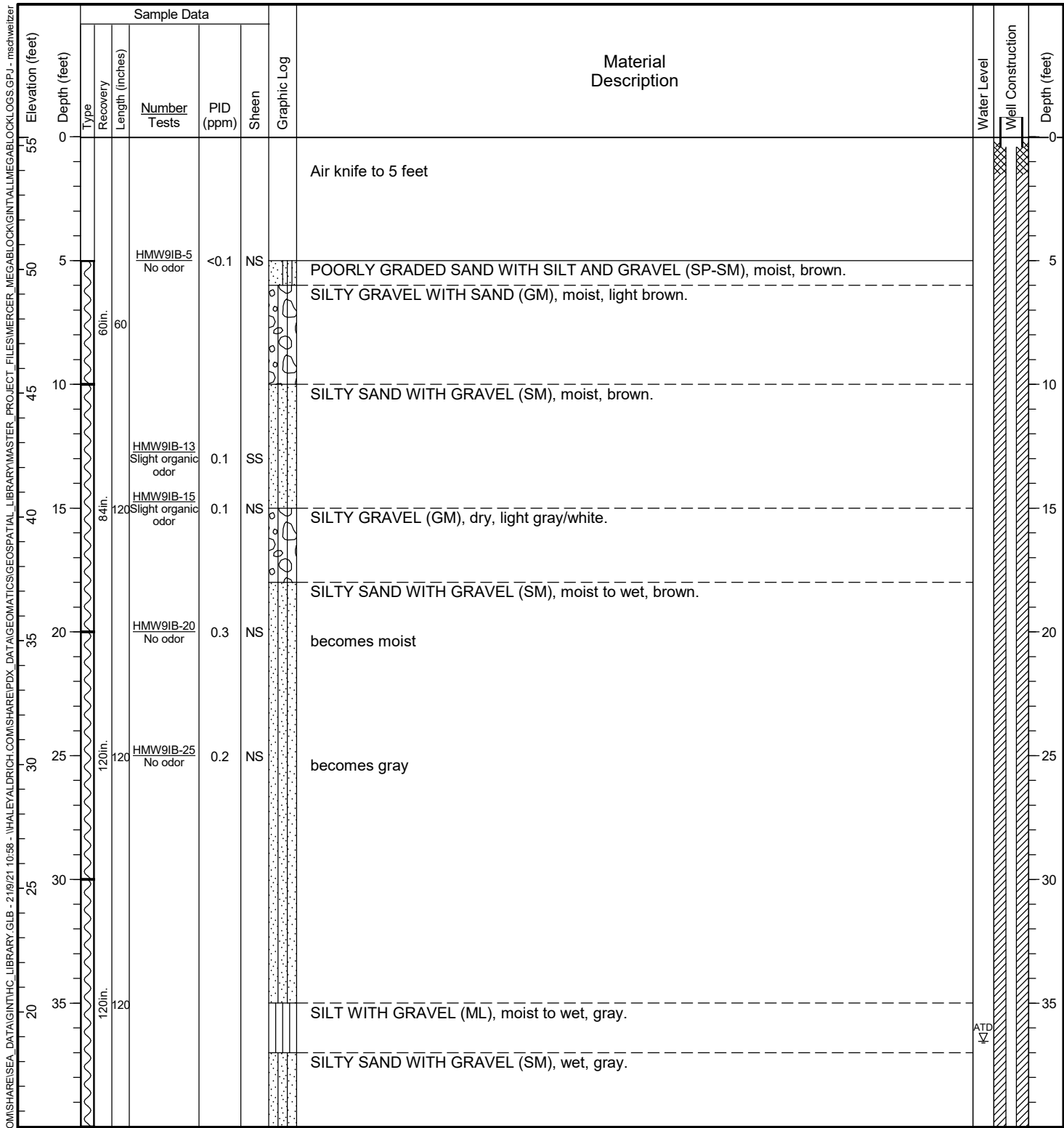
Date Started: 02/28/2020 Date Completed: 02/28/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624958 Long: -122.341703 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 55.26 feet (NAVD 88) Total Depth: 50 feet Depth to Groundwater: 34.16 feet
 Comments: Well Tag ID: BLZ190



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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Date Started: 02/28/2020	Date Completed: 02/28/2020	Contractor/Crew: Cascade Drilling, L.P.
Logged by: A. Nakahara	Checked by: M. Goodman	Rig Model/Type: TSi 150CC / Track-mounted drill rig
Location: Lat: 47.624942 Long: -122.341704 (WGS 84)	Hole Diameter: 10 inches	Casing Diameter: OD: 2 inches
Ground Surface Elevation: 55.36 feet (NAVD 88)	Total Depth: 70 feet	Depth to Groundwater: 36.54 feet
Comments: Well Tag ID: BLZ191		

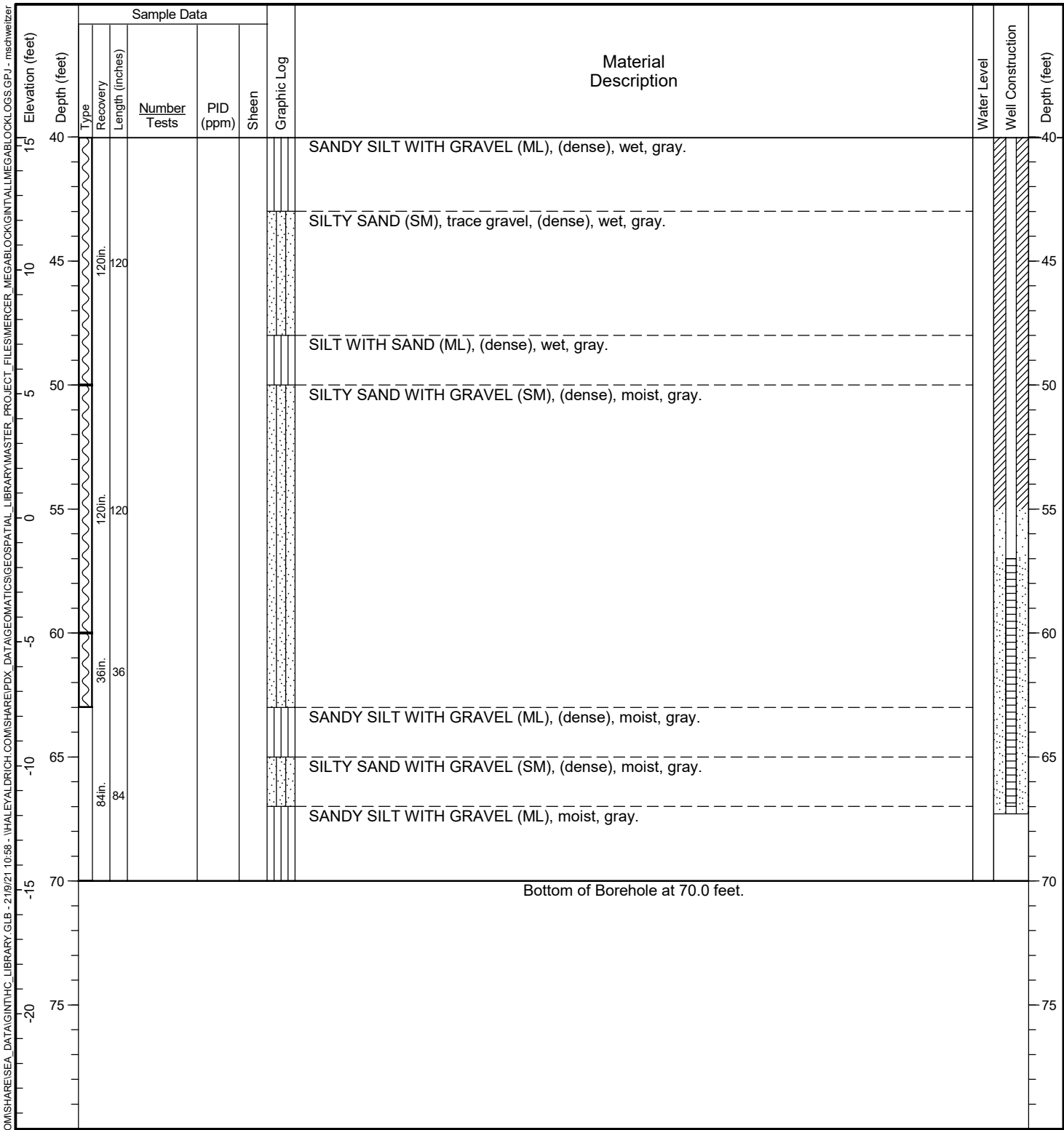


General Notes:

1. Refer to Figure A1-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

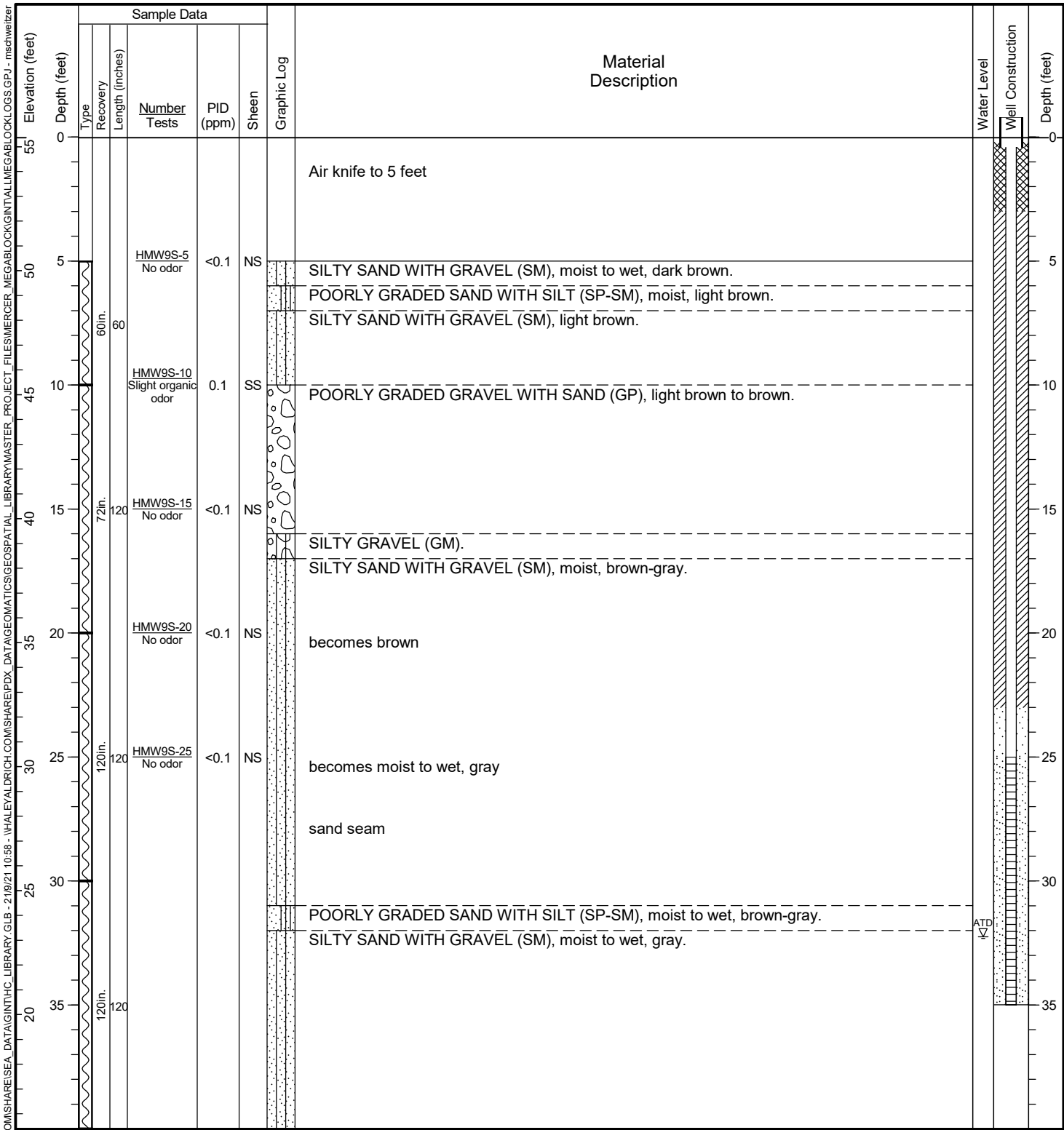
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Date Started: 02/28/2020 Date Completed: 02/28/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624942 Long: -122.341704 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 55.36 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 36.54 feet
 Comments: Well Tag ID: BLZ191



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

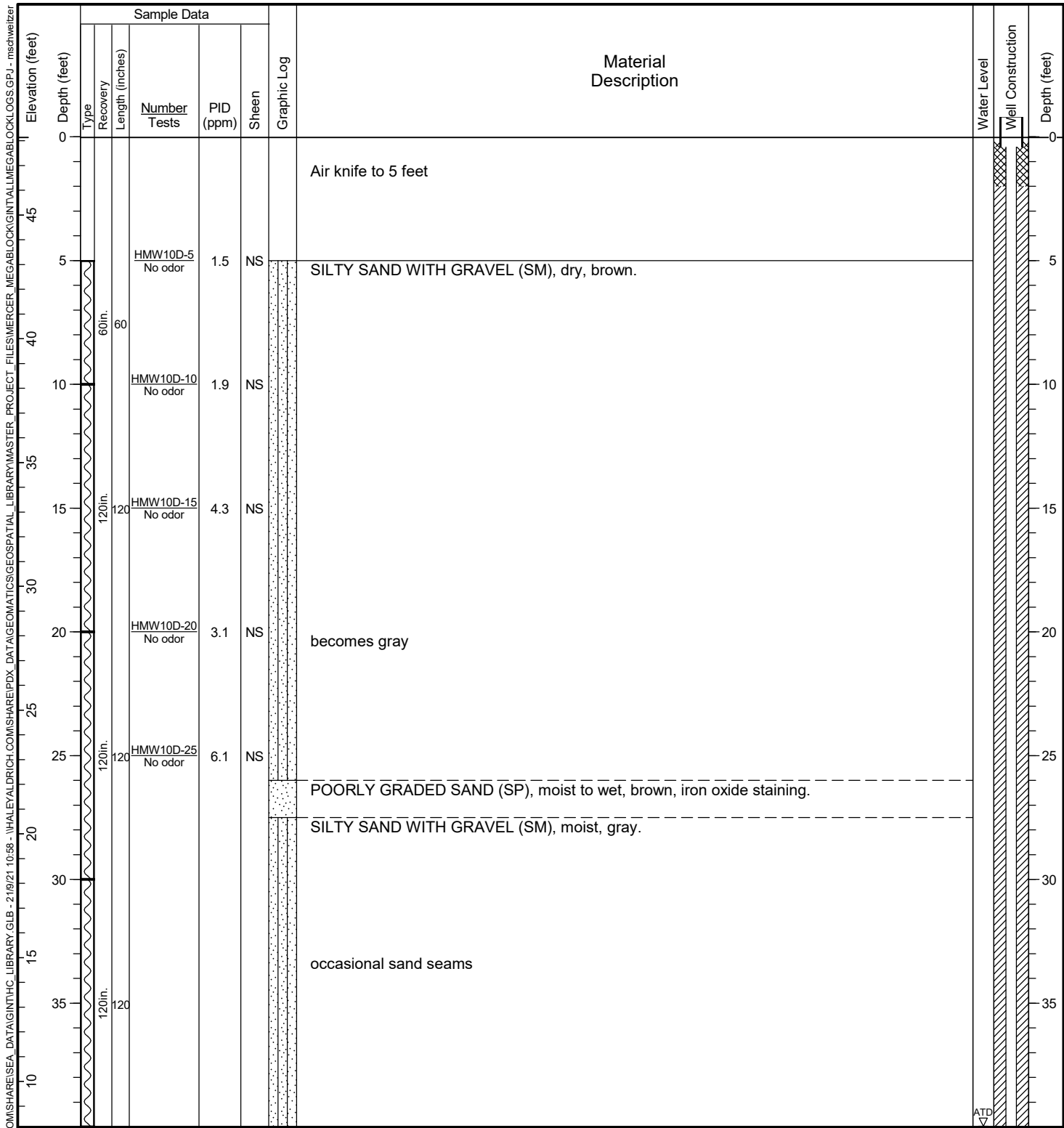
Date Started: 03/02/2020 Date Completed: 03/02/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624949 Long: -122.341724 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 55.39 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 32.25 feet
 Comments: Well Tag ID: BLZ189



General Notes: Bottom of Borehole at 40.0 feet.

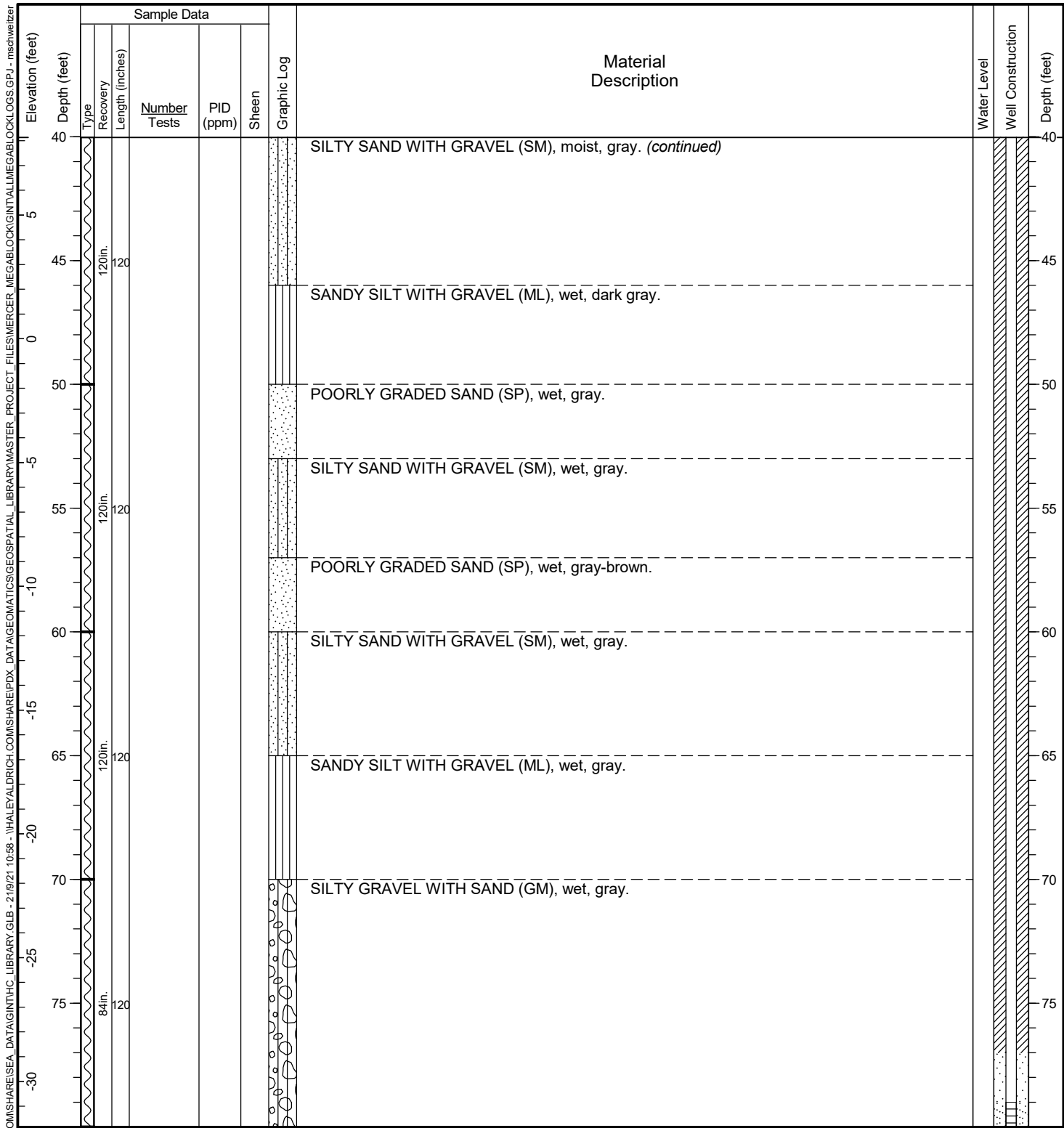
1. Refer to Figure A1-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

Date Started: 03/05/2020 Date Completed: 03/05/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624845 Long: -122.340865 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 48.16 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 39.97 feet
 Comments: Well Tag ID: BLZ194



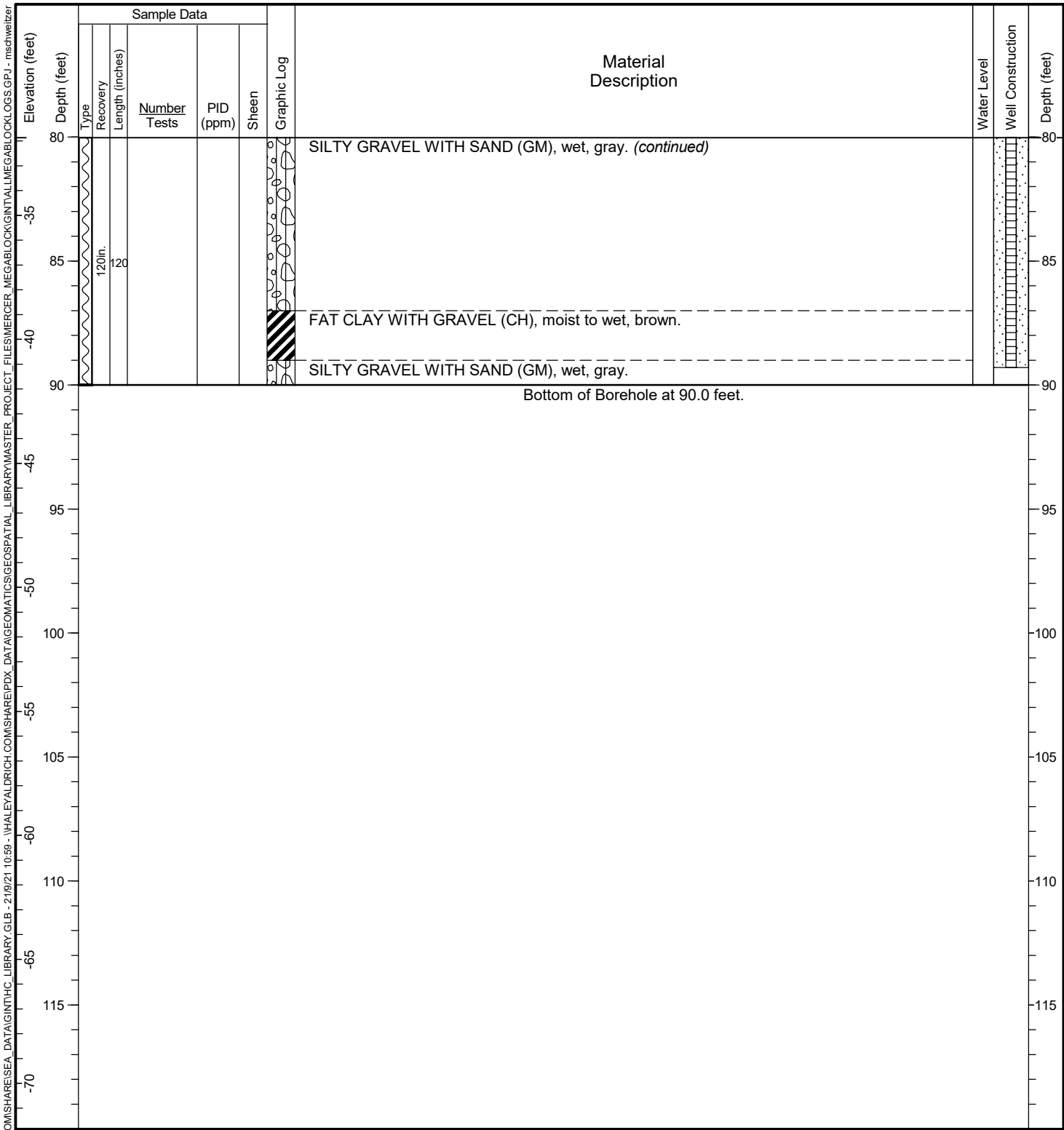
General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 03/05/2020 Date Completed: 03/05/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624845 Long: -122.340865 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 48.16 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 39.97 feet
 Comments: Well Tag ID: BLZ194



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

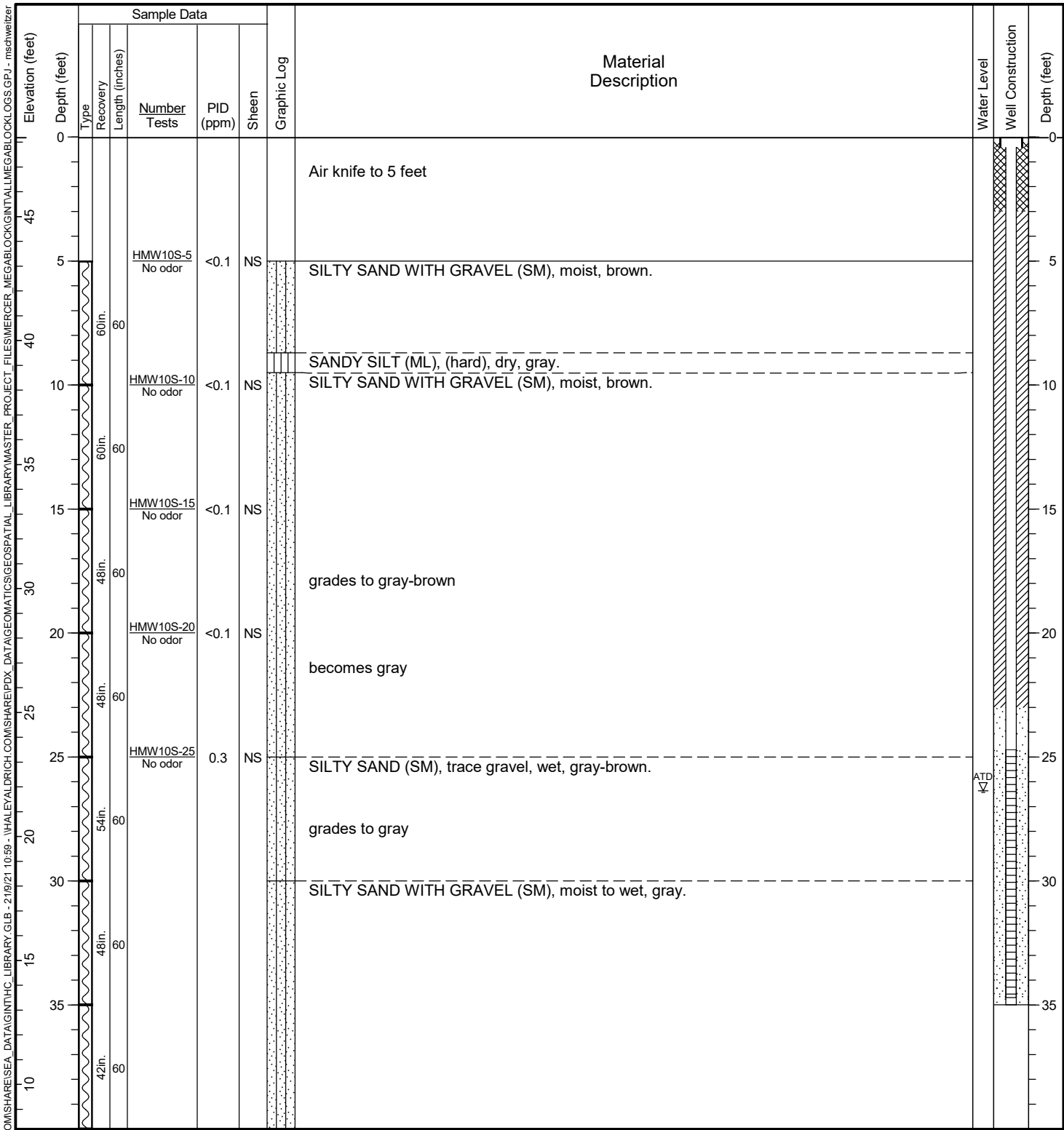
Date Started: 03/05/2020 Date Completed: 03/05/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: A. Nakahara Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624845 Long: -122.340865 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 48.16 feet (NAVD 88) Total Depth: 90 feet Depth to Groundwater: 39.97 feet
 Comments: Well Tag ID: BLZ194



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

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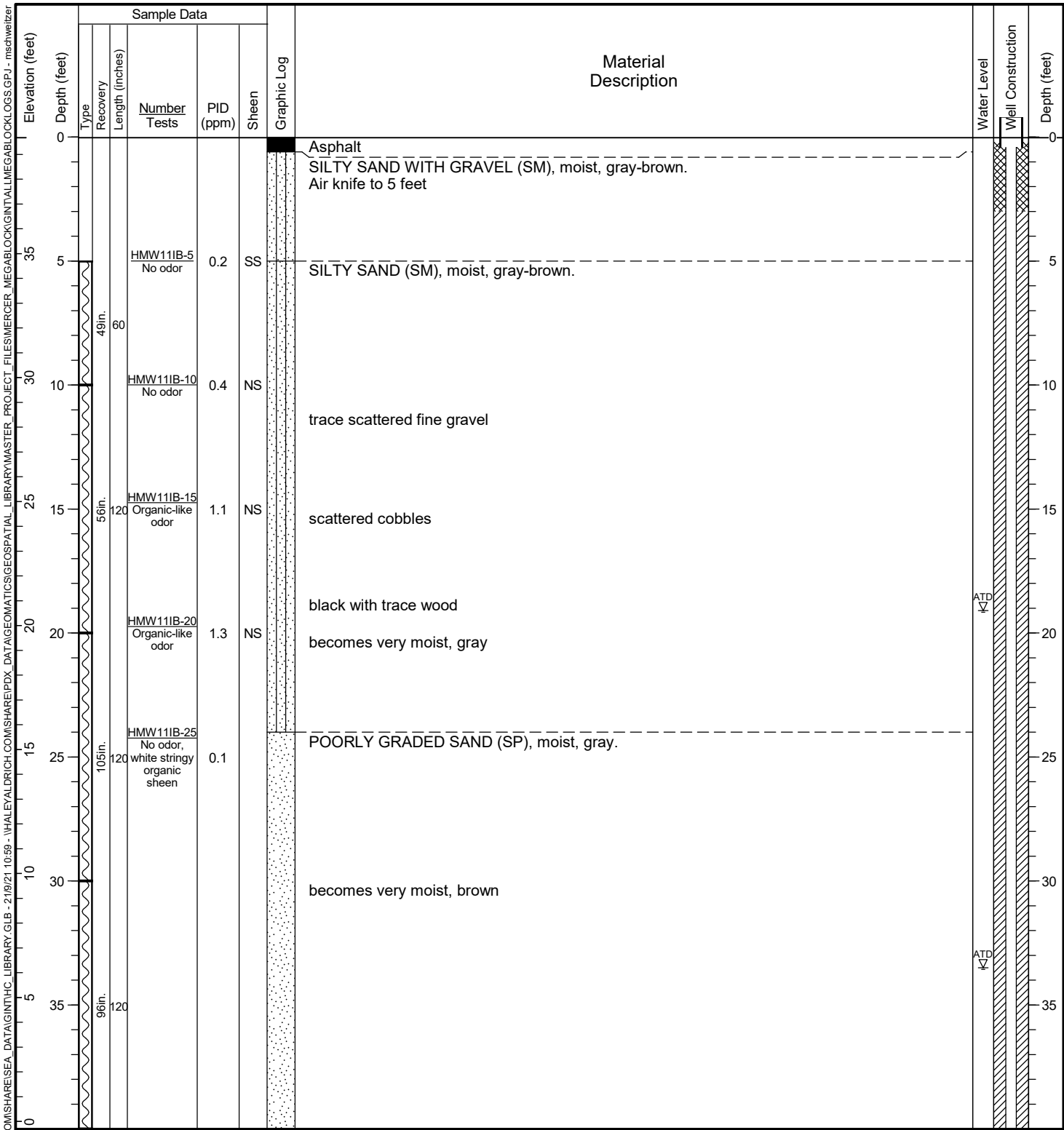
Date Started: 03/03/2020 Date Completed: 03/03/2020 Contractor/Crew: Cascade Drilling, L.P. / Rico
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig
 Location: Lat: 47.624843 Long: -122.340880 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 48.21 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 26.37 feet
 Comments: Well Tag ID: BLZ193



General Notes: Bottom of Borehole at 40.0 feet.

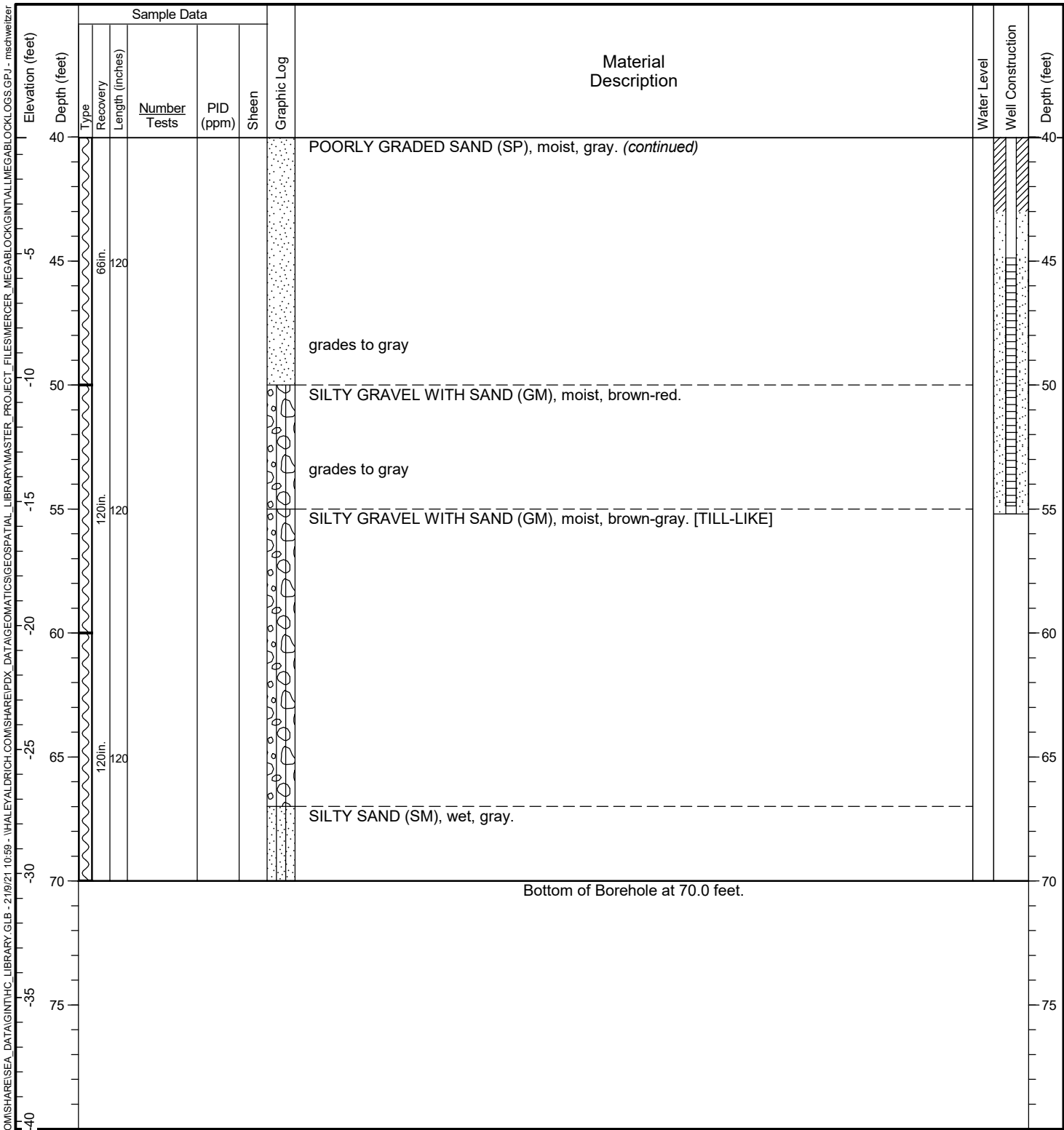
- Refer to Figure A1-1 for explanation of descriptions and symbols.
- Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
- USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
- Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
- Location and ground surface elevations are approximate.

Date Started: 02/24/2020 Date Completed: 02/24/2020 Contractor/Crew: Cascade Drilling, L.P. / Dan
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624855 Long: -122.340032 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 39.70 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 33.5 feet
 Comments: Well Tag ID: BLZ196



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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 5. Location and ground surface elevations are approximate.

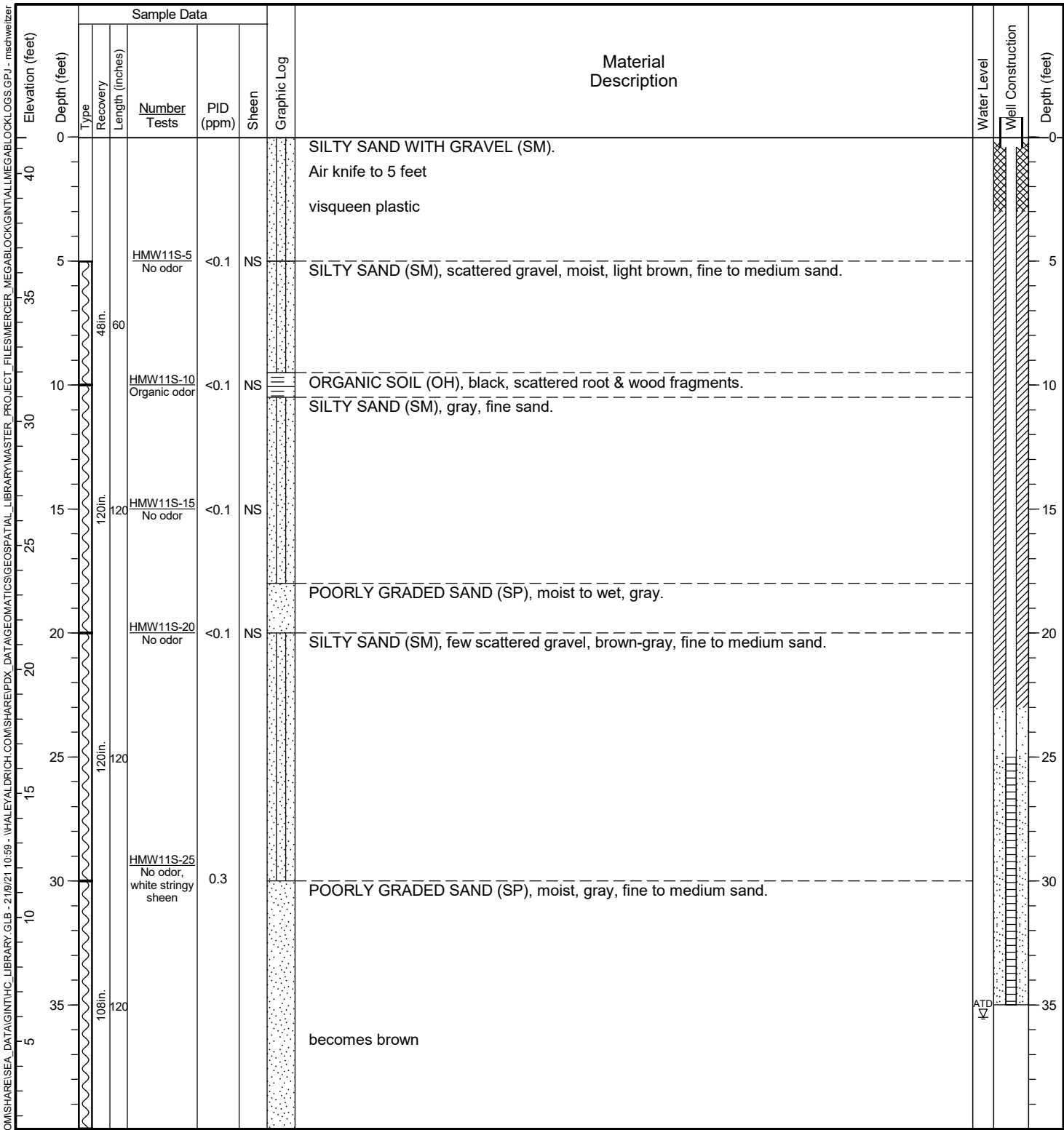
Date Started: 02/24/2020 Date Completed: 02/24/2020 Contractor/Crew: Cascade Drilling, L.P. / Dan
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624855 Long: -122.340032 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 39.70 feet (NAVD 88) Total Depth: 70 feet Depth to Groundwater: 33.5 feet
 Comments: Well Tag ID: BLZ196



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
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HC PUSH PROBE - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2/19/21 10:59 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEO\MATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCK\LOGS.GPJ - mschweitzer

Date Started: 02/24/2020 Date Completed: 02/24/2020 Contractor/Crew: Cascade Drilling, L.P.
 Logged by: B. Dozier Checked by: M. Goodman Rig Model/Type: TSi 150CC / Track-mounted drill rig
 Location: Lat: 47.624882 Long: -122.340043 (WGS 84) Hole Diameter: 10 inches Casing Diameter: OD: 2 inches
 Ground Surface Elevation: 41.47 feet (NAVD 88) Total Depth: 40 feet Depth to Groundwater: 35.5 feet
 Comments: Well Tag ID: BLZ195

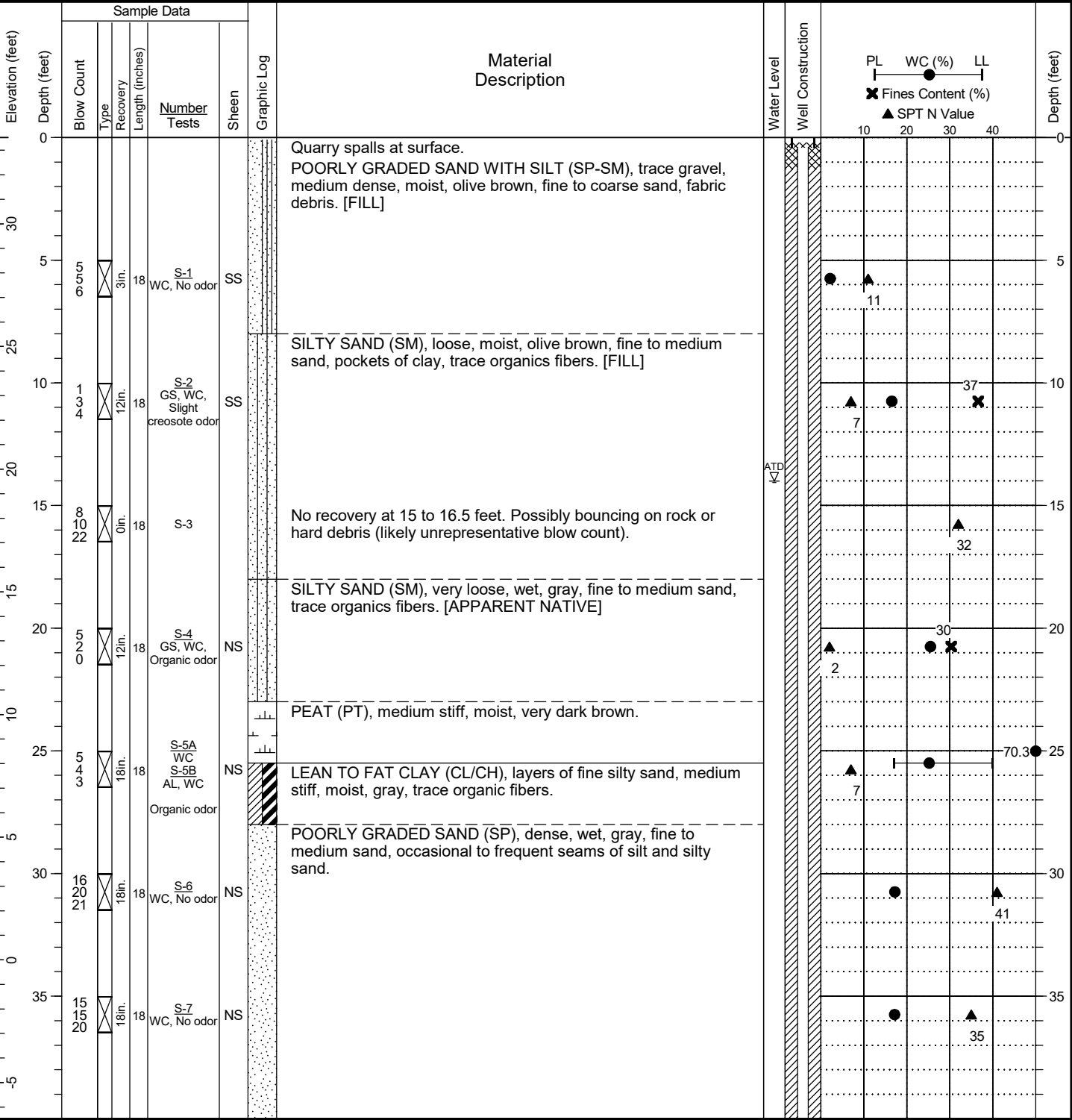


General Notes: Bottom of Borehole at 40.0 feet.

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- Location and ground surface elevations are approximate.

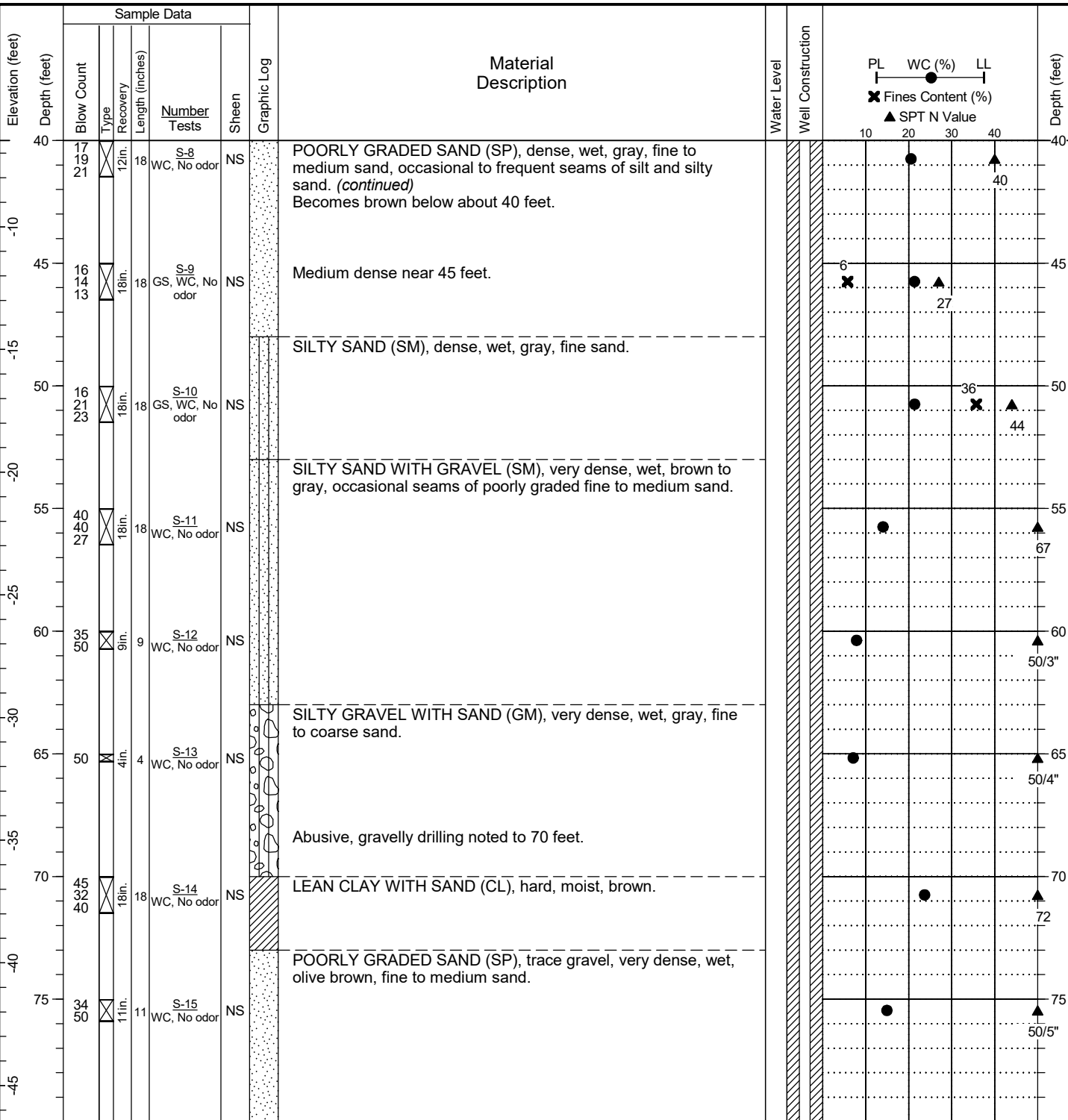
Date Started: 07/13/2020 Date Completed: 07/16/2020 Drilling Contractor/Crew: Holt Services, Inc. / A. Causland
 Logged by: C. Kroskie/L. Phillips Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.625239 Long: -122.339947 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 33.52 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP290 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 8 inches Casing Diameter: _____
 Total Depth: 100.3 feet Depth to Groundwater: 14 feet

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\9\21 11:00 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweizer



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 07/13/2020 Date Completed: 07/16/2020 Drilling Contractor/Crew: Holt Services, Inc. / A. Causland
 Logged by: C. Kroskie/L. Phillips Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.625239 Long: -122.339947 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 33.52 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP290 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 8 inches Casing Diameter: _____
 Total Depth: 100.3 feet Depth to Groundwater: 14 feet

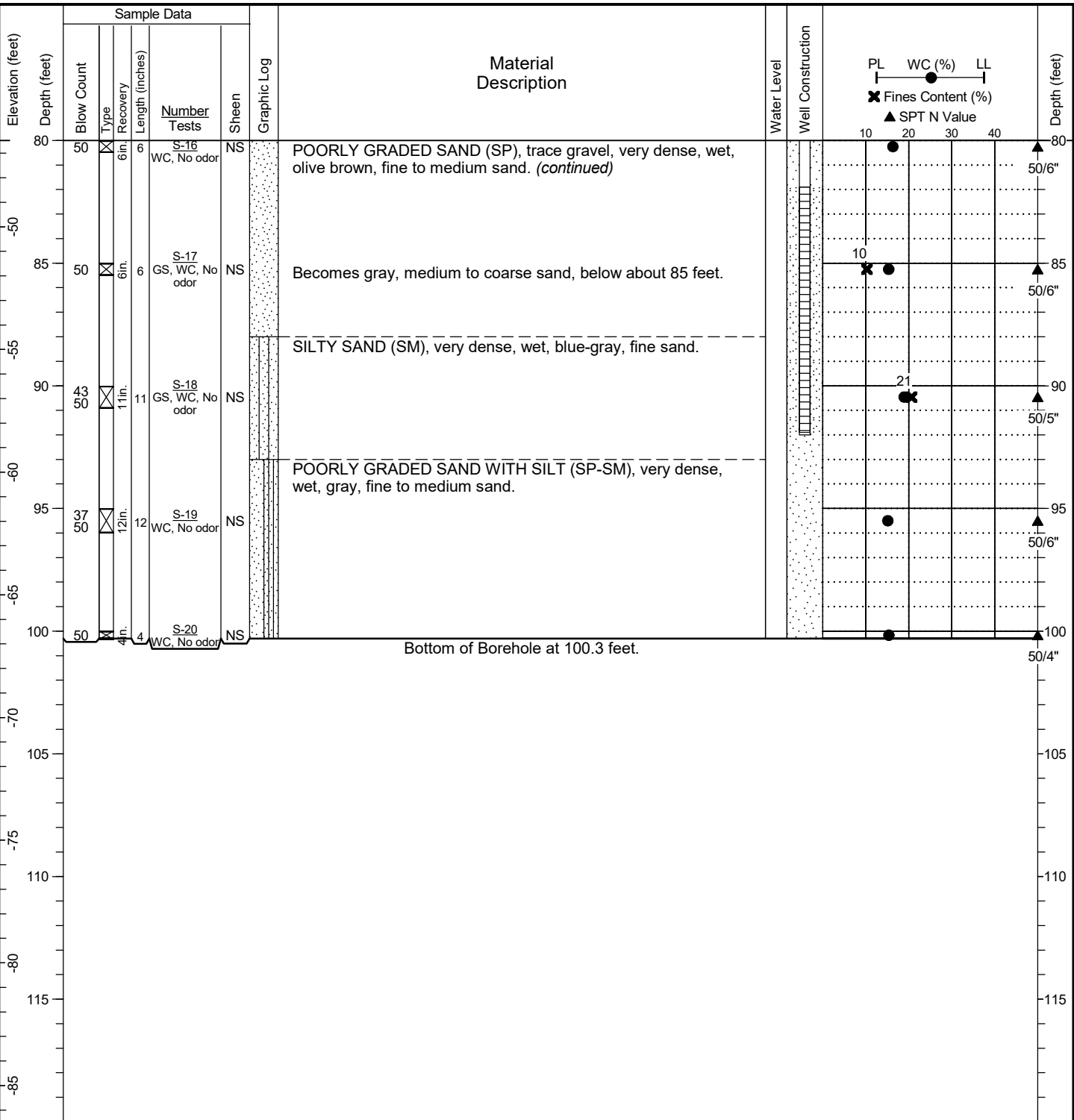


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HC BORING LOG - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY.GLB - 2/19/21 11:00 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweizer

Date Started: 07/13/2020 Date Completed: 07/16/2020 Drilling Contractor/Crew: Holt Services, Inc. / A. Causland
 Logged by: C. Kroskie/L. Phillips Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.625239 Long: -122.339947 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 33.52 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP290 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 8 inches Casing Diameter:
 Total Depth: 100.3 feet Depth to Groundwater: 14 feet

HC BORING LOG - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 11:00 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweitzer



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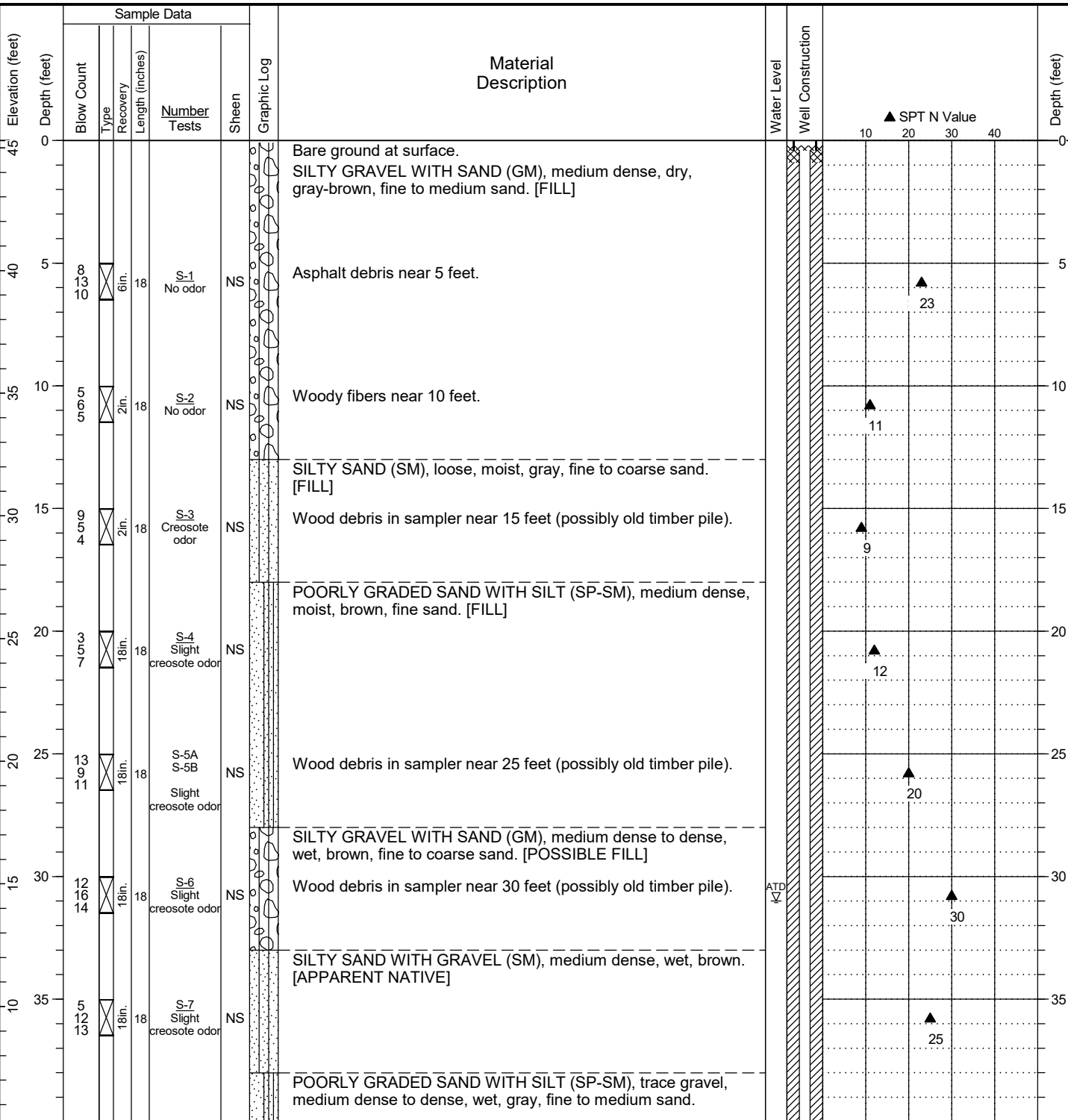
Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Boring Log
HMW-12D

Figure **A1-76**
 Sheet **3 of 3**

Date Started: 07/22/2020 Date Completed: 07/23/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: C. Kroskie Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.625052 Long: -122.340400 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 45.30 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP318 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter:
 Total Depth: 101 feet Depth to Groundwater: 31 feet

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5. Location and ground surface elevations are approximate.



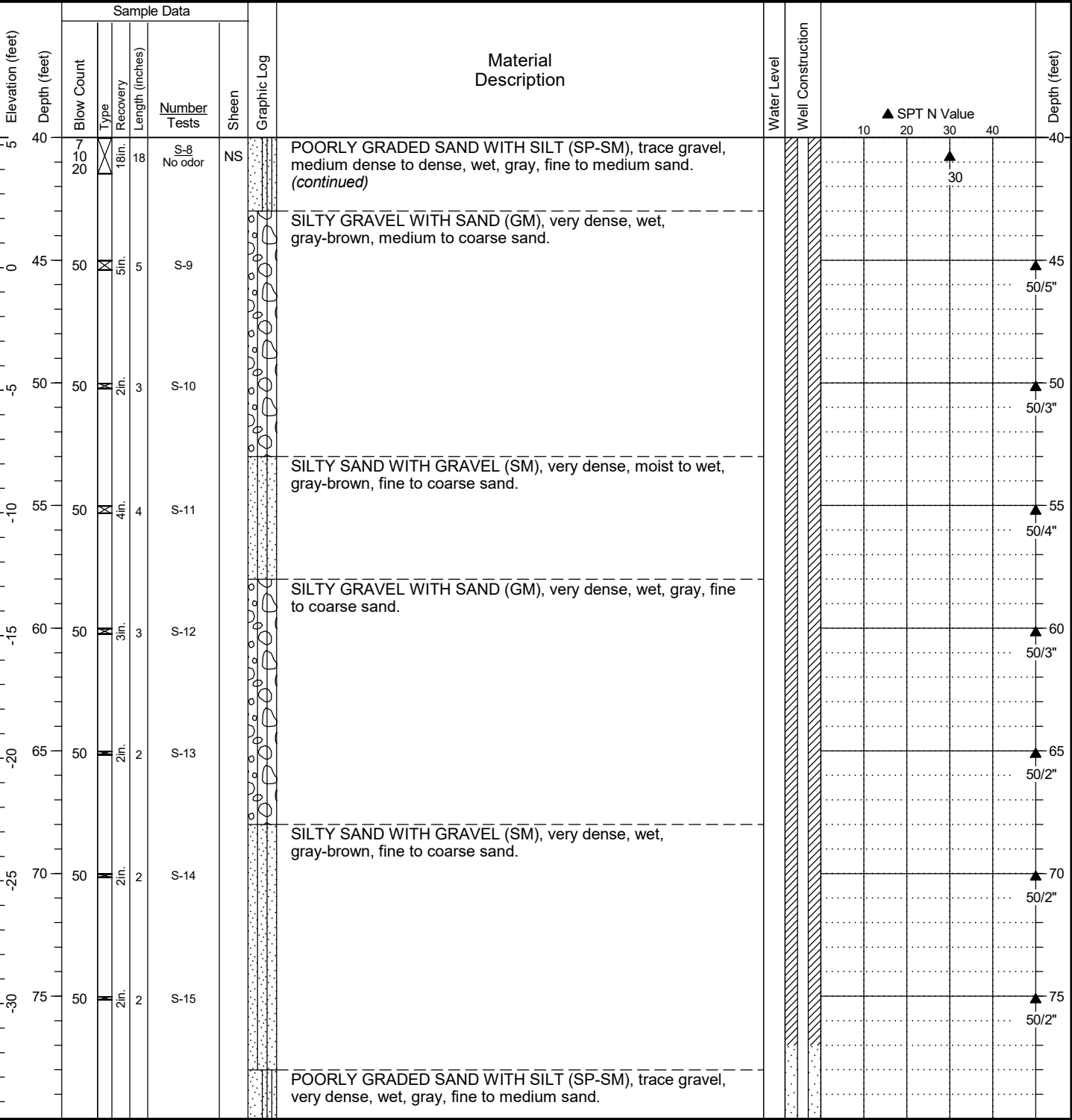
Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Boring Log
HMW-13D

Figure **A1-77**
 Sheet **1 of 3**

Date Started: 07/22/2020 Date Completed: 07/23/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: C. Kroskie Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.625052 Long: -122.340400 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 45.30 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP318 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: _____
 Total Depth: 101 feet Depth to Groundwater: 31 feet

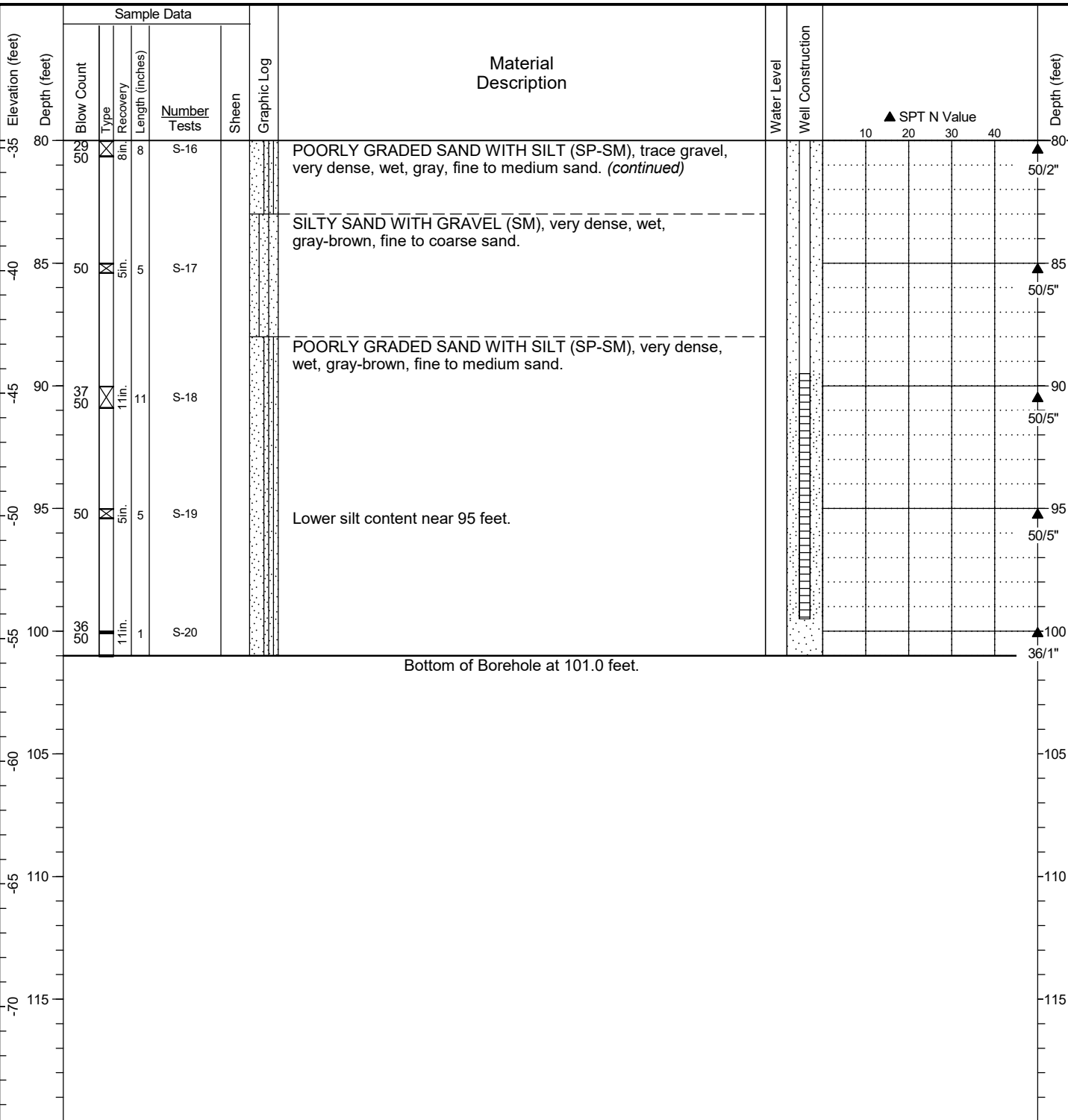
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Date Started: 07/22/2020 Date Completed: 07/23/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: C. Kroskie Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.625052 Long: -122.340400 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 45.30 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP318 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: _____
 Total Depth: 101 feet Depth to Groundwater: 31 feet

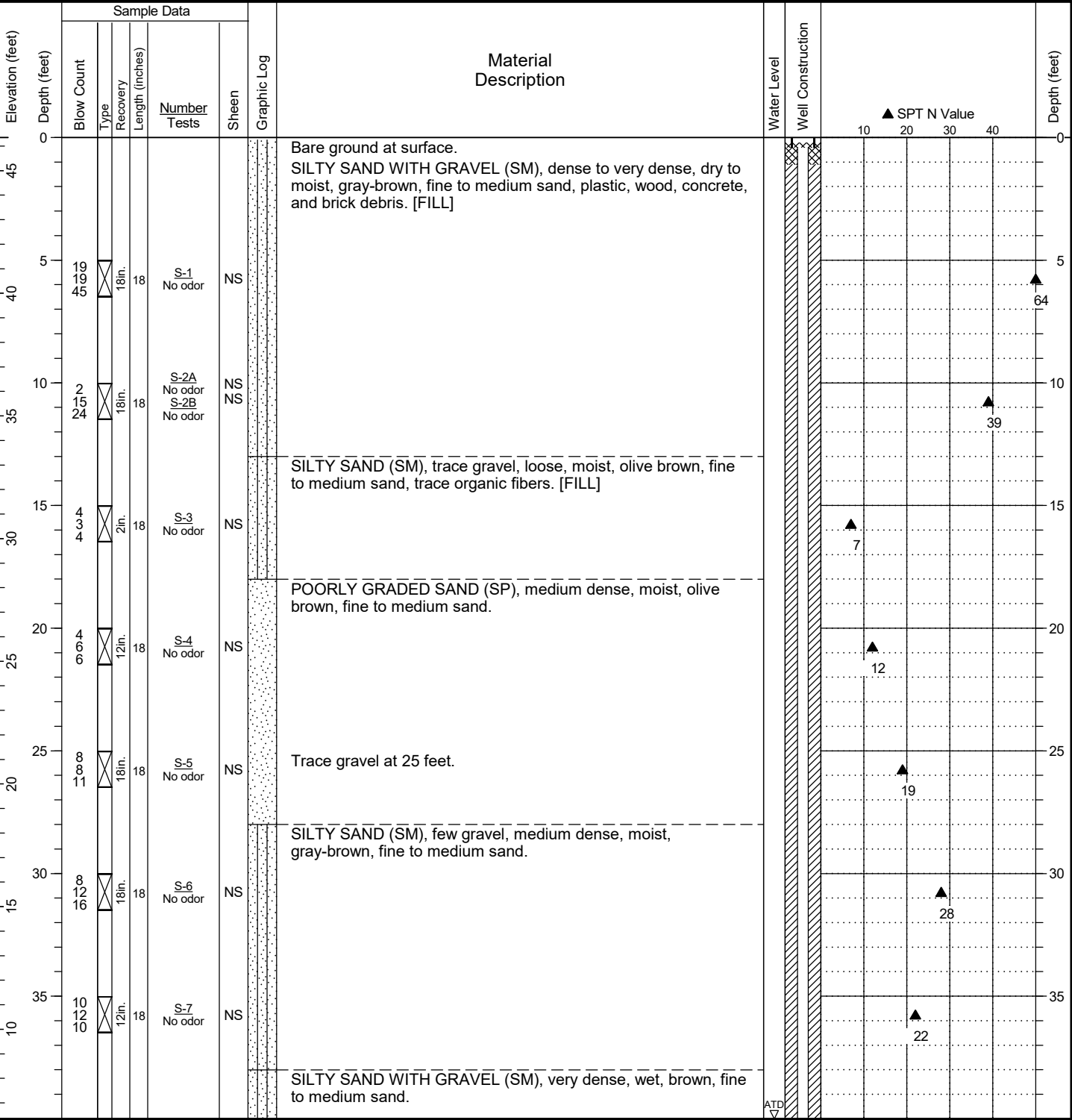
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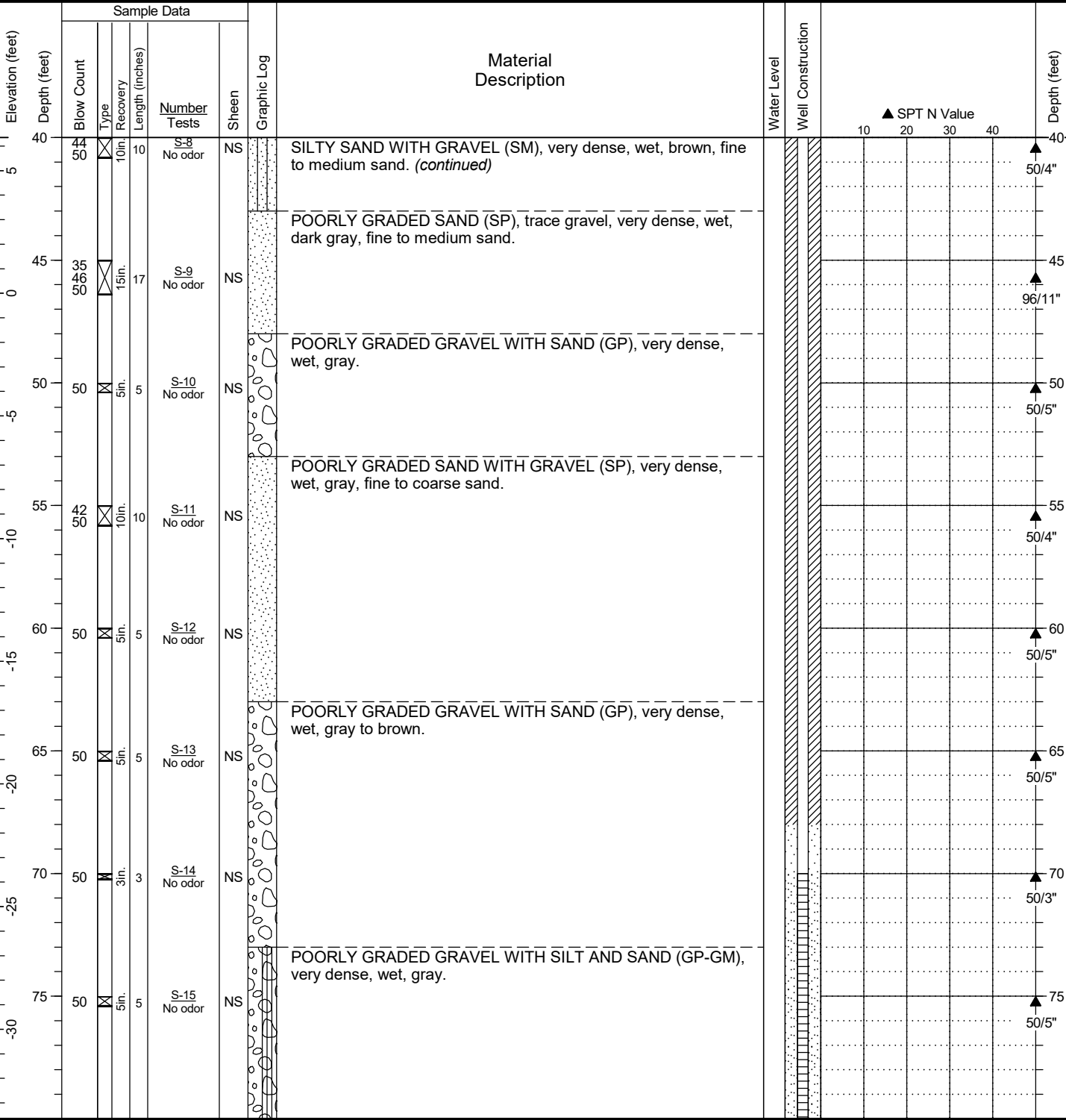
Date Started: 07/17/2020 Date Completed: 07/20/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: C. Kroskie/A. Finigan Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.624882 Long: -122.340402 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 46.35 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP317 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter: _____
 Total Depth: 81.5 feet Depth to Groundwater: 40 feet

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\9\21 11:00 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweizer



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Date Started: 07/17/2020 Date Completed: 07/20/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: C. Kroskie/A. Finigan Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.624882 Long: -122.340402 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 46.35 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP317 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter:
 Total Depth: 81.5 feet Depth to Groundwater: 40 feet

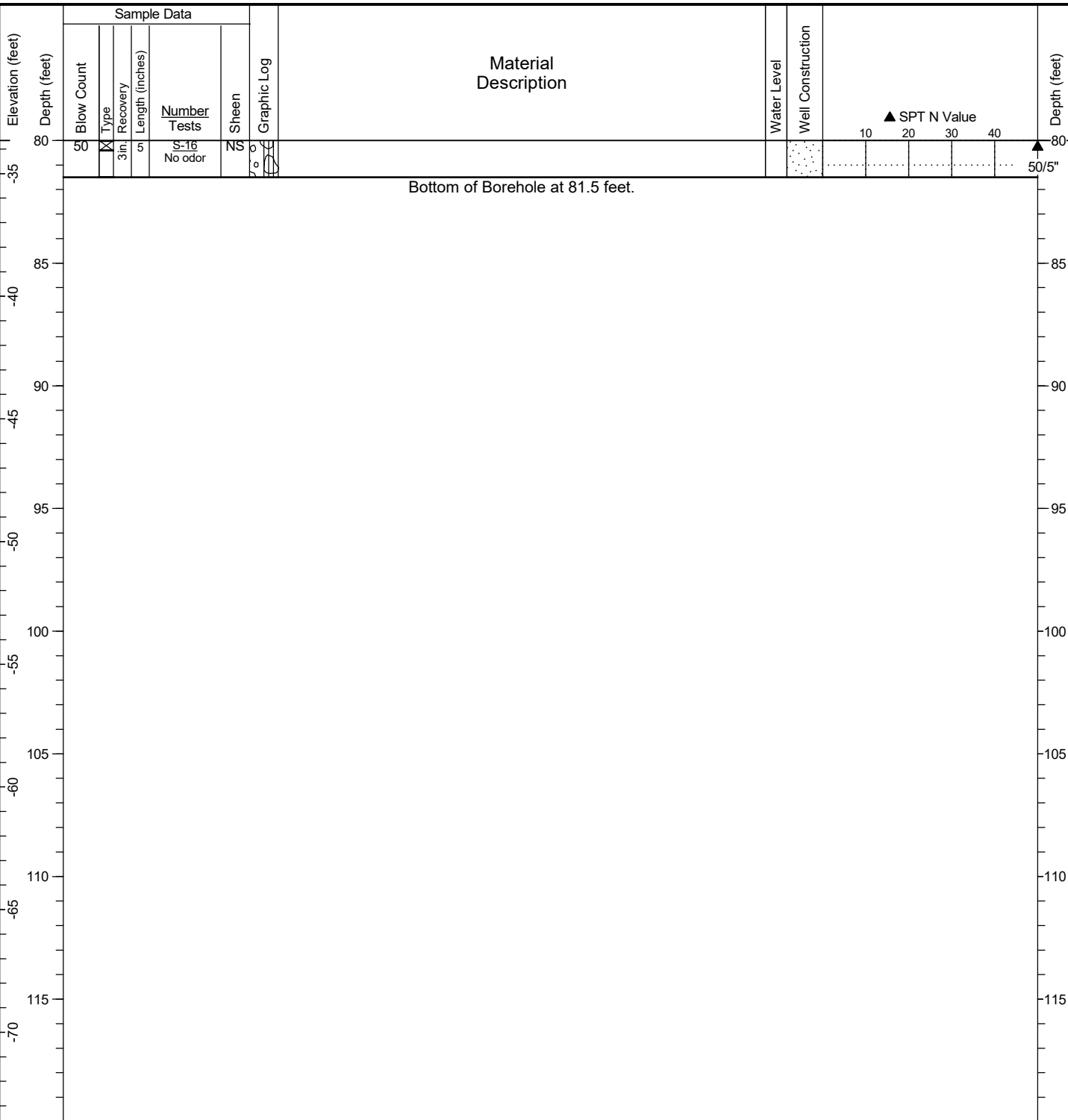


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HC BORING LOG - \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 11:00 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL_MEGABLOCKLOGS.GPJ - mschweizer

Date Started: 07/17/2020 Date Completed: 07/20/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: C. Kroskie/A. Finigan Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.624882 Long: -122.340402 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 46.35 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP317 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter: _____
 Total Depth: 81.5 feet Depth to Groundwater: 40 feet

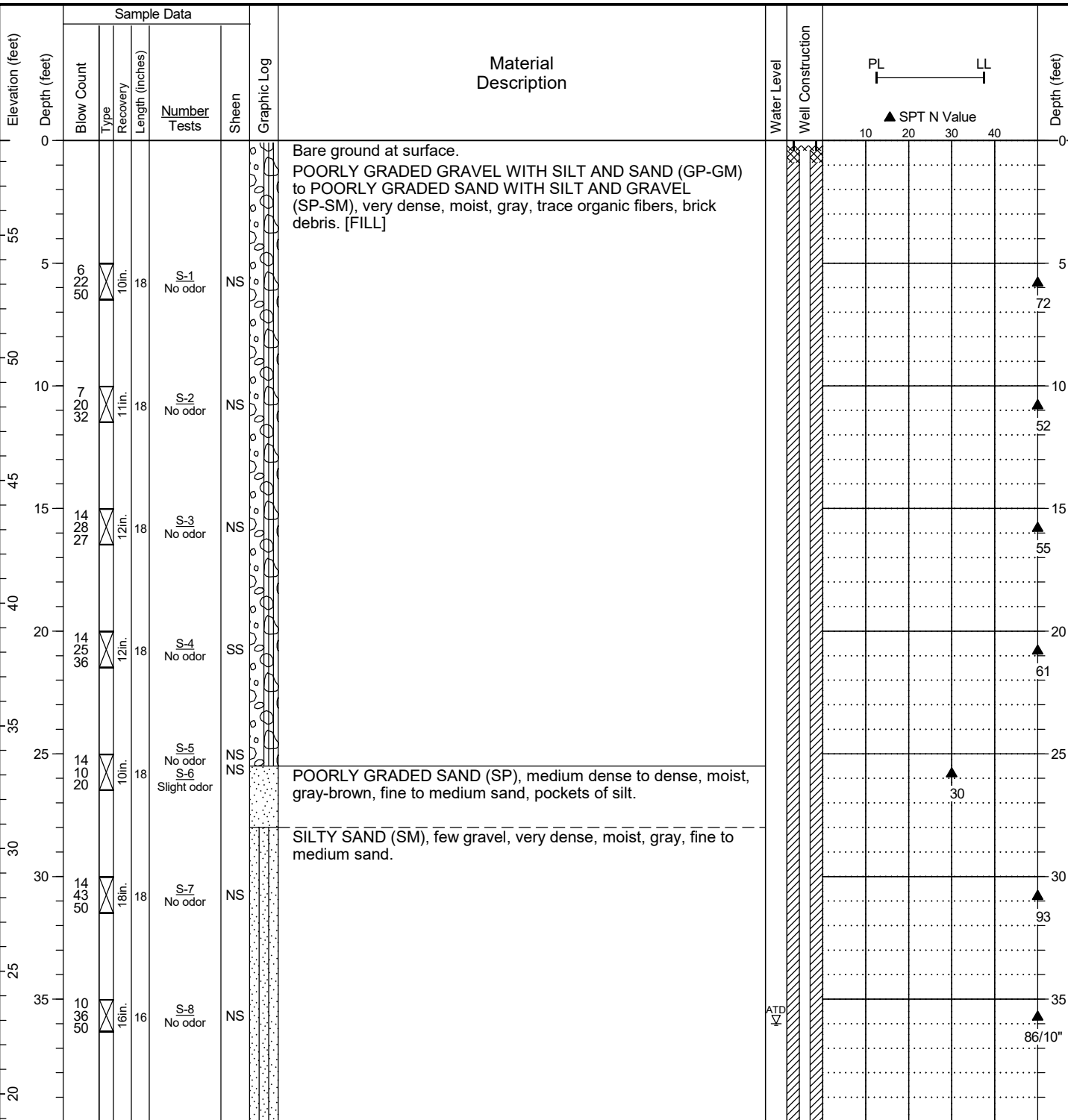
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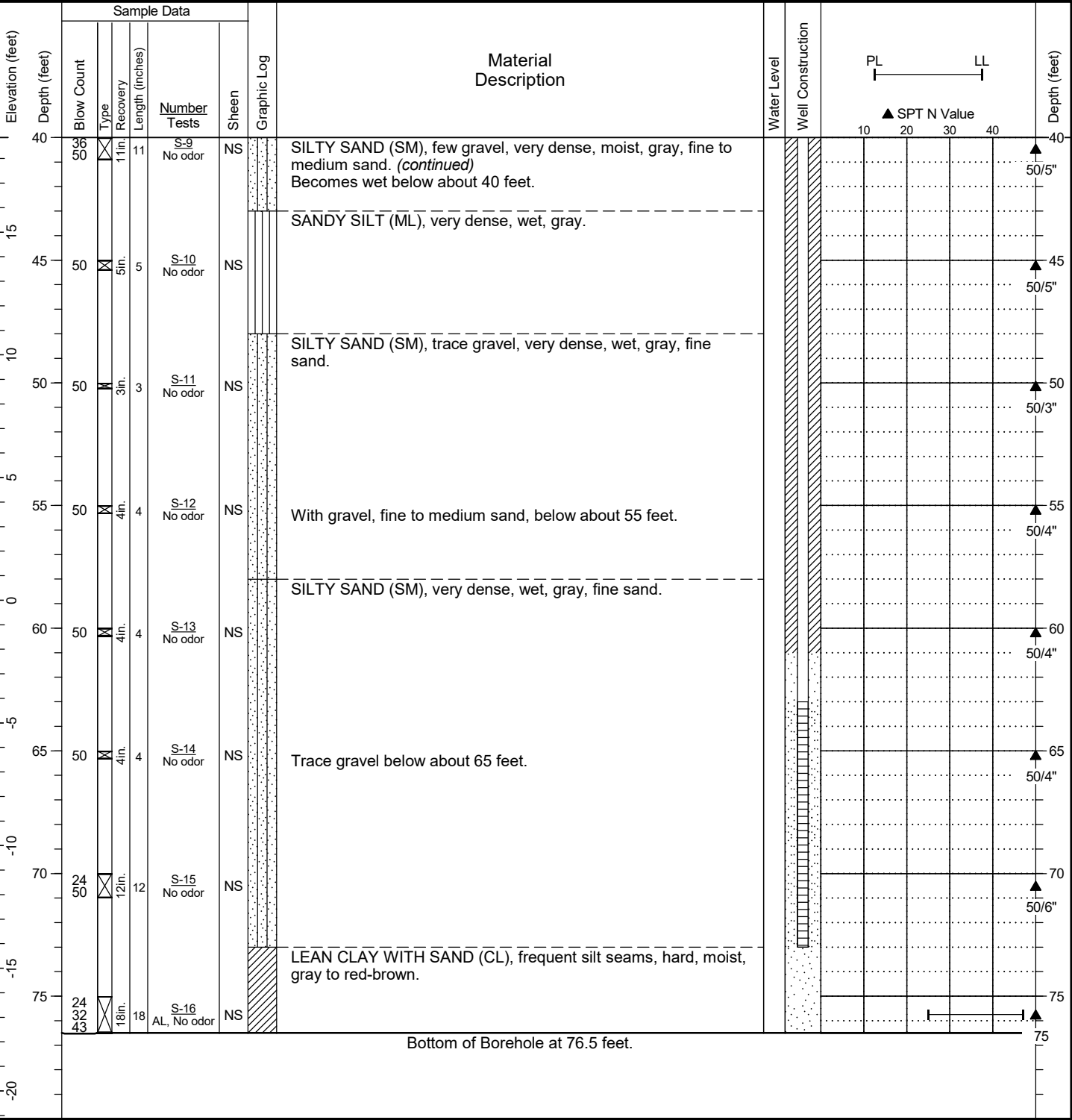
Date Started: 07/15/2020 Date Completed: 07/16/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: A. Finigan Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.624683 Long: -122.342064 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 58.86 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP316 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter: _____
 Total Depth: 76.5 feet Depth to Groundwater: 36 feet

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Date Started: 07/15/2020 Date Completed: 07/16/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: A. Finigan Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.624683 Long: -122.342064 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 58.86 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP316 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter: _____
 Total Depth: 76.5 feet Depth to Groundwater: 36 feet



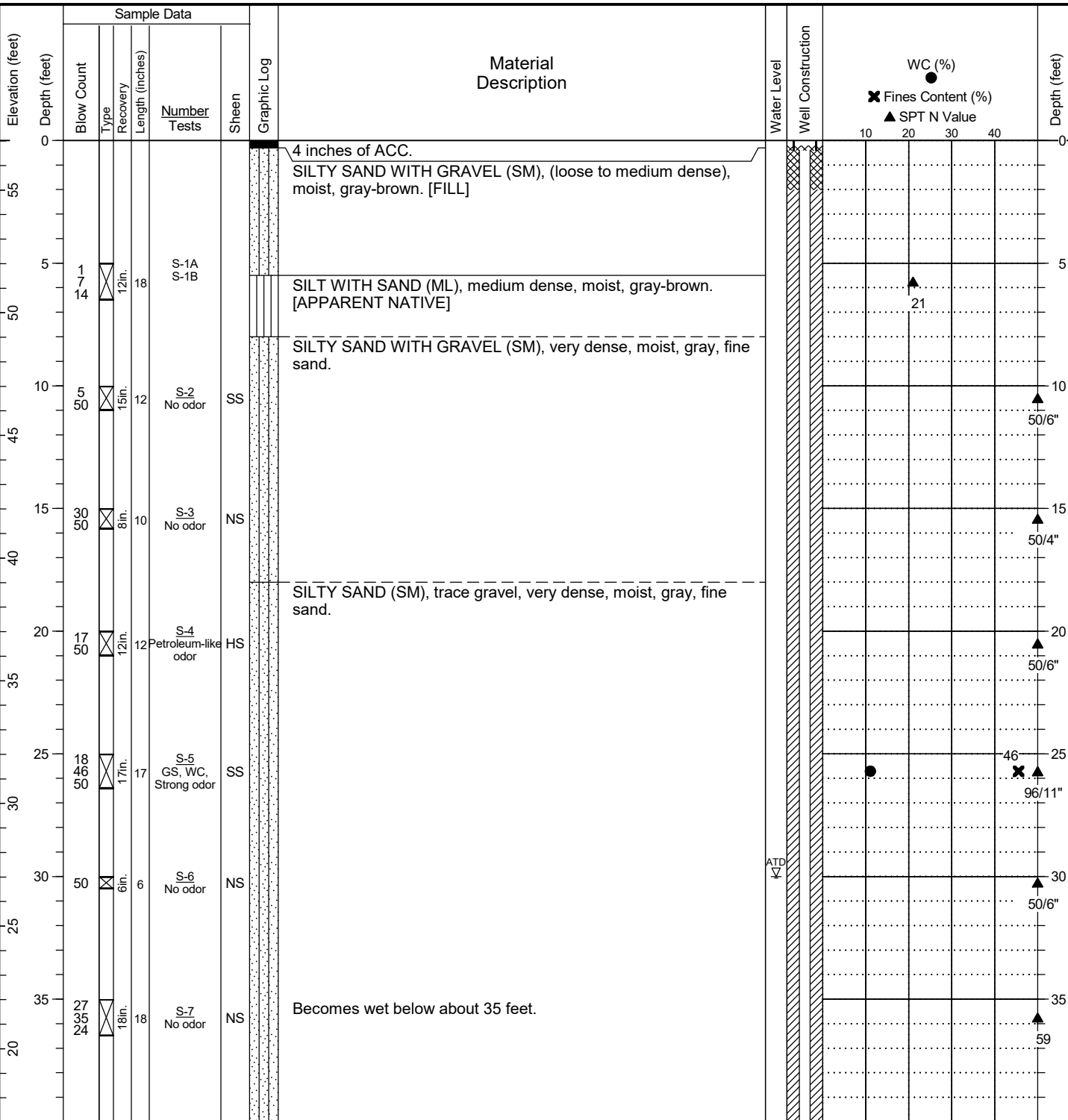
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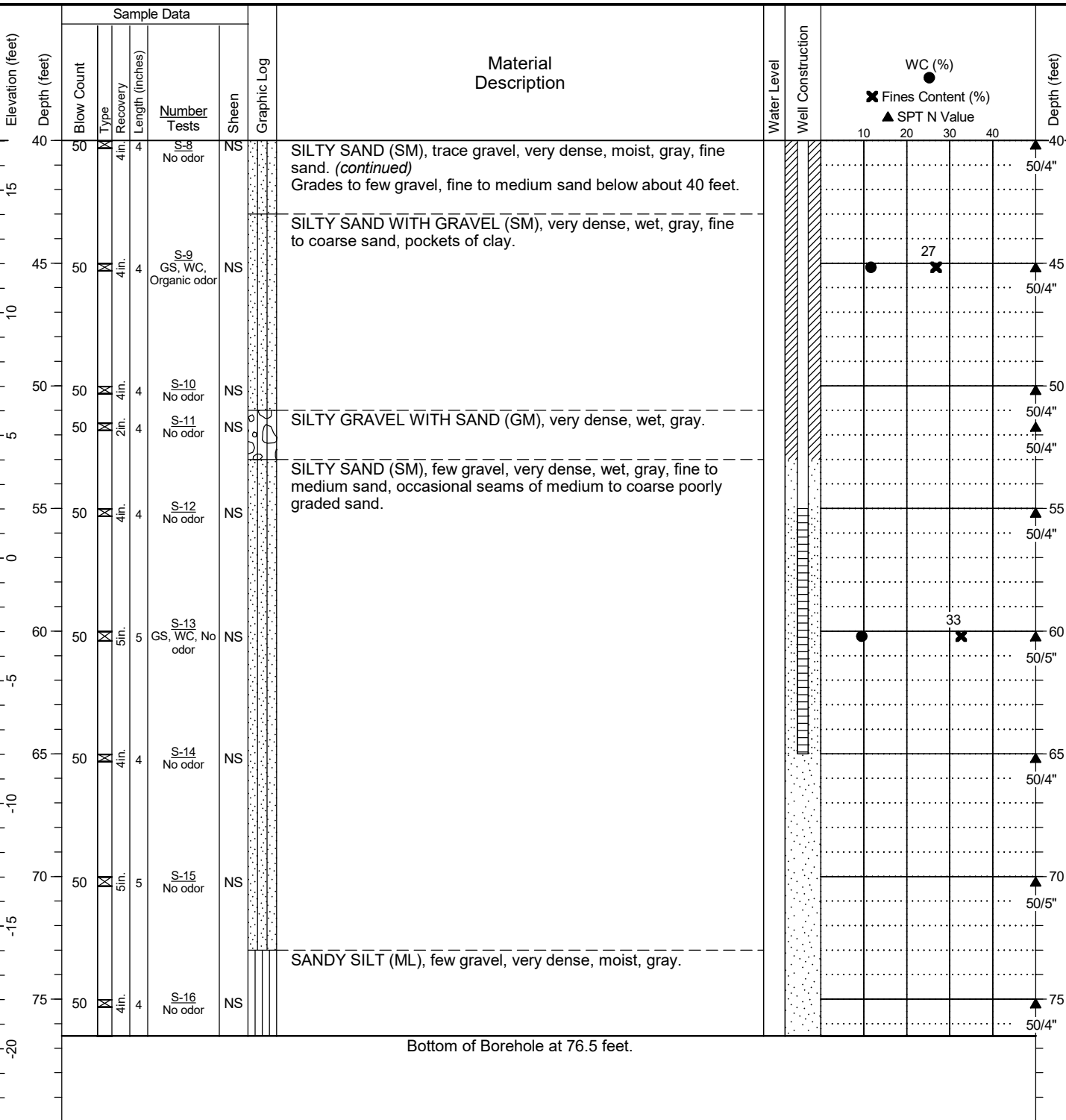
Date Started: 07/14/2020 Date Completed: 07/14/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: A. Finigan Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.625263 Long: -122.342093 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 57.02 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP315 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter: _____
 Total Depth: 76.5 feet Depth to Groundwater: 30 feet

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Date Started: 07/14/2020 Date Completed: 07/14/2020 Drilling Contractor/Crew: Holt Services, Inc. / J. Bennett
 Logged by: A. Finigan Checked by: J. Sved Drilling Method: Mud Rotary/Hollow Stem Auger
 Location: Lat: 47.625263 Long: -122.342093 (WGS 84) Rig Model/Type: CME-85 / Truck-mounted drill rig
 Ground Surface Elevation: 57.02 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP315 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter: _____
 Total Depth: 76.5 feet Depth to Groundwater: 30 feet

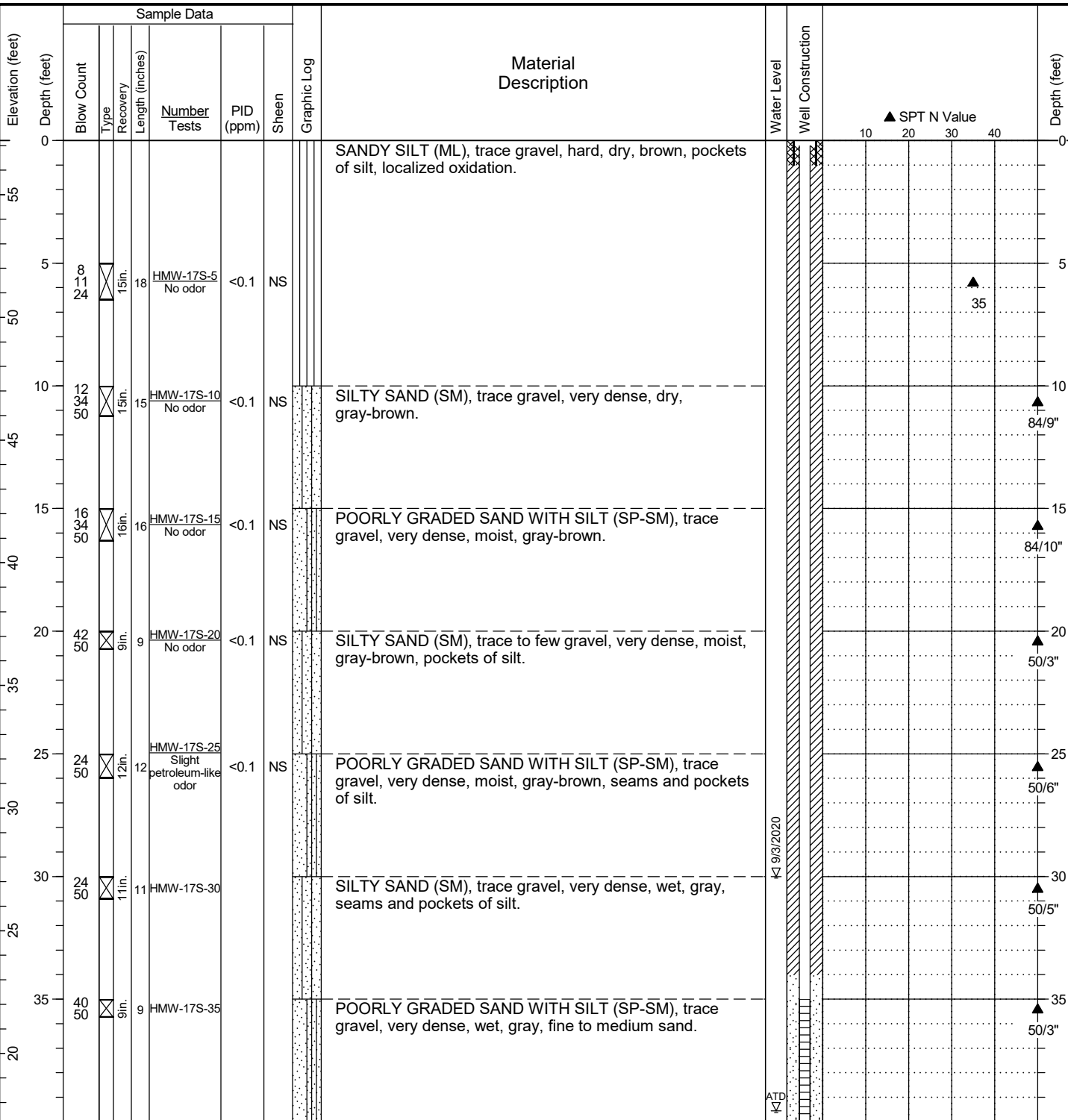


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Date Started: 09/03/2020 Date Completed: 09/03/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625233 Long: -122.342093 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 57.21 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP351 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 45.5 feet Depth to Groundwater: 39.55 feet

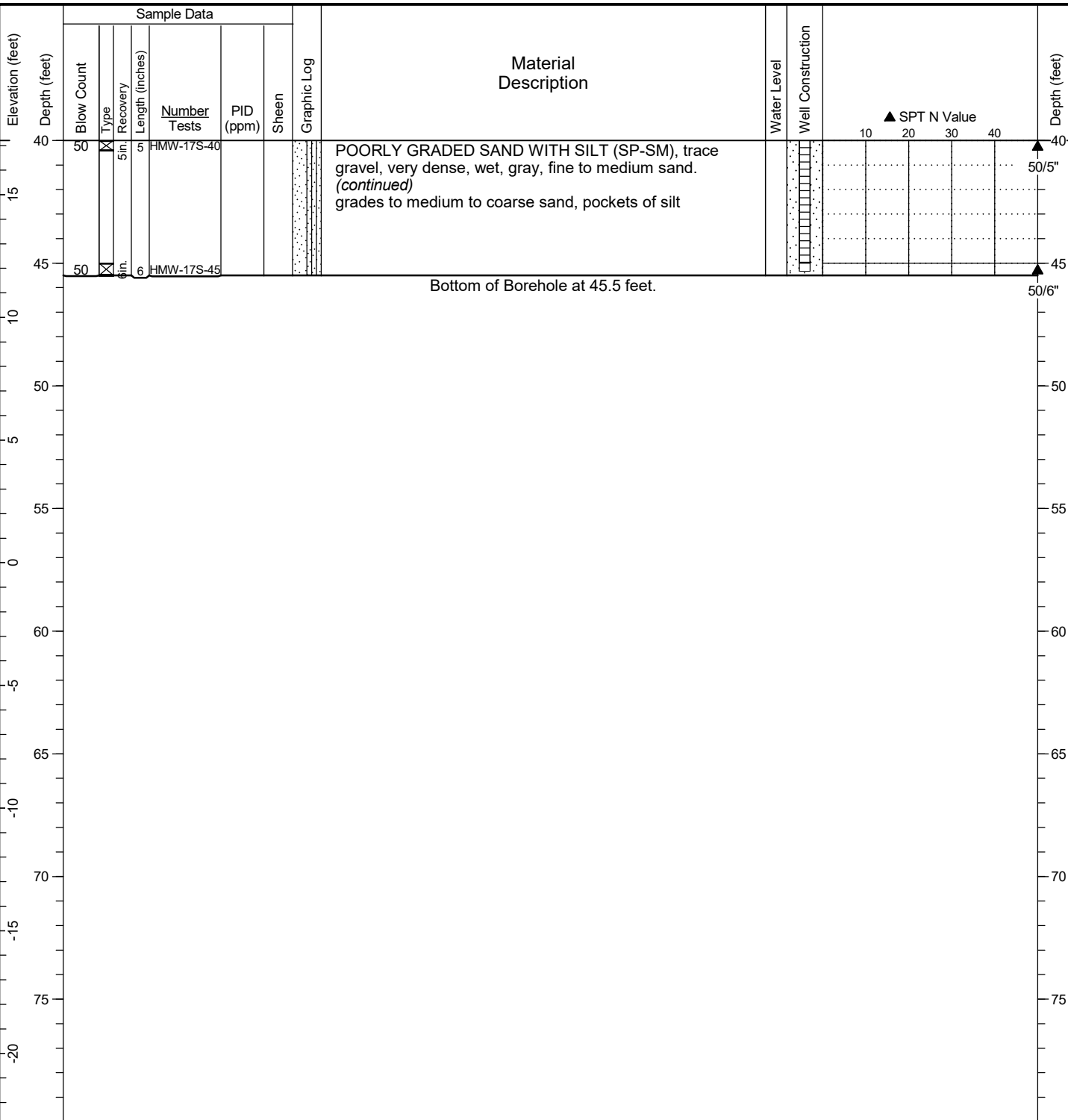
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- General Notes:
1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 09/03/2020 Date Completed: 09/03/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625233 Long: -122.342093 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 57.21 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP351 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 45.5 feet Depth to Groundwater: 39.55 feet

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\9\21 11:01 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL_MEGABLOCKLOGS.GPJ - mschweizer



General Notes:

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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

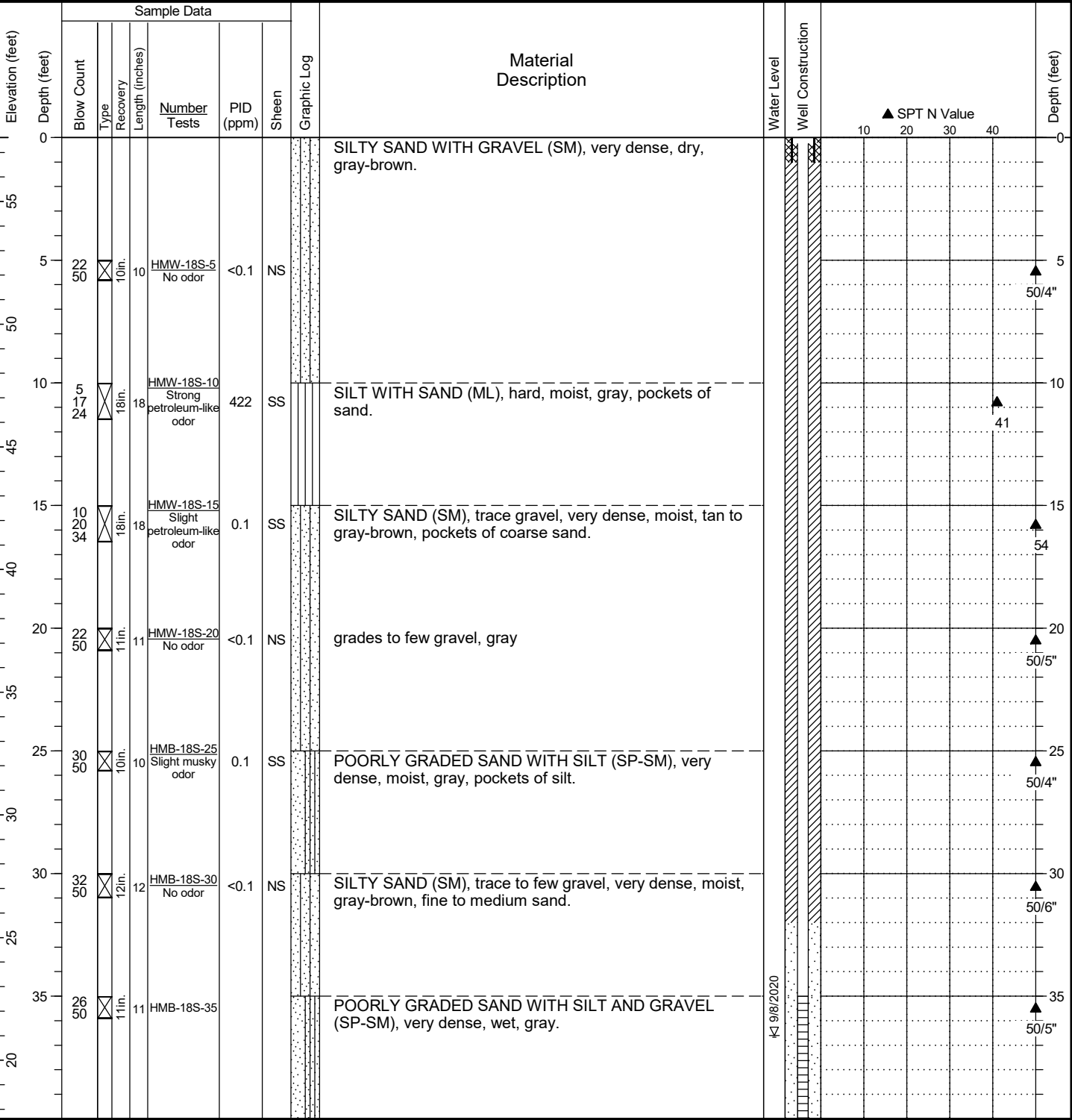


Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Boring and Monitoring Well
 Log
HMW-17S

Figure **A1-81**
 Sheet **2 of 2**

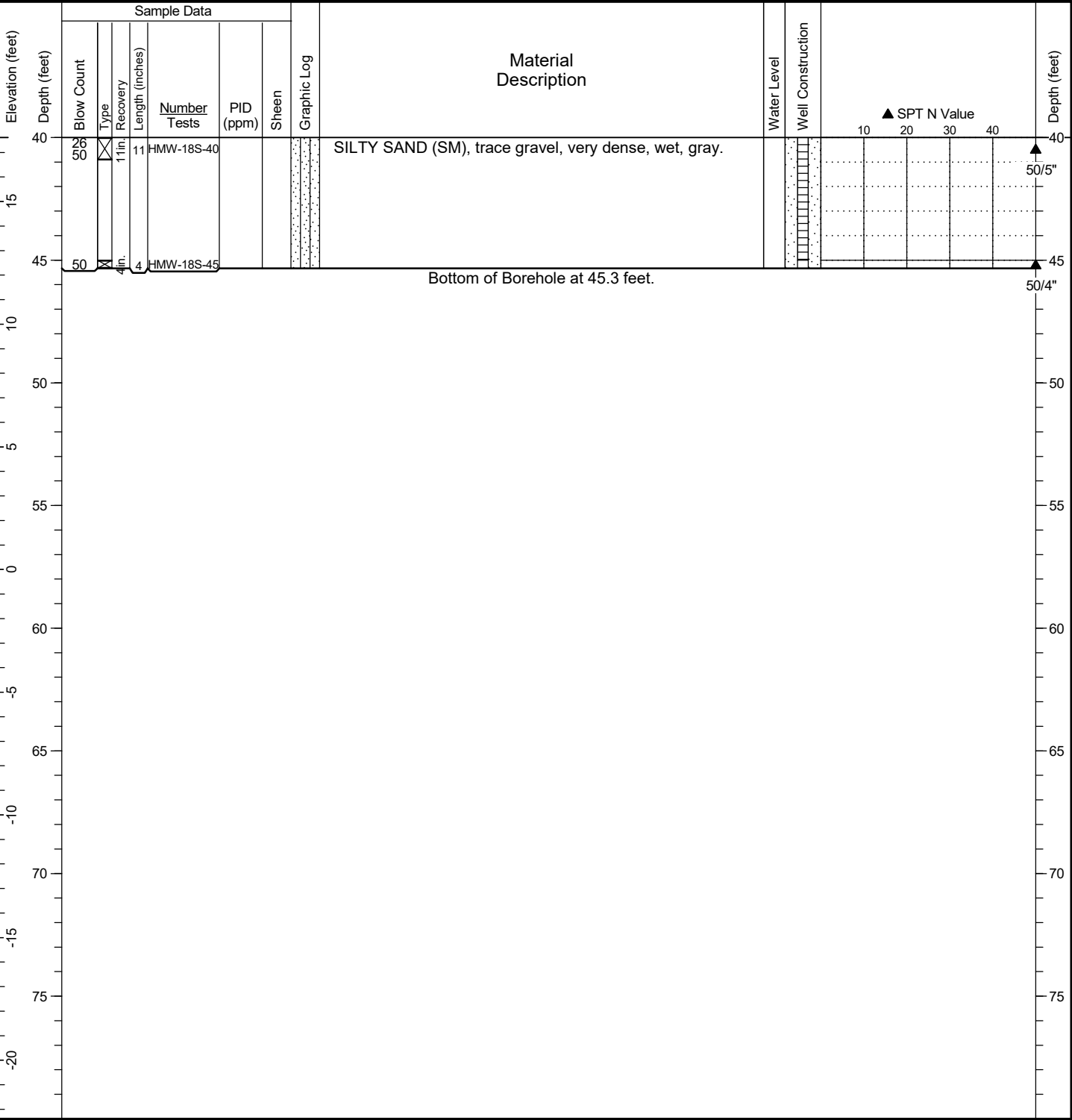
Date Started: 09/03/2020 Date Completed: 09/03/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625133 Long: -122.342088 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 57.61 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP352 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 45.33 feet Depth to Groundwater: 36.6 feet



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\9\21 11:01 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEO\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweitzer

Date Started: 09/03/2020 Date Completed: 09/03/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625133 Long: -122.342088 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 57.61 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP352 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 45.33 feet Depth to Groundwater: 36.6 feet

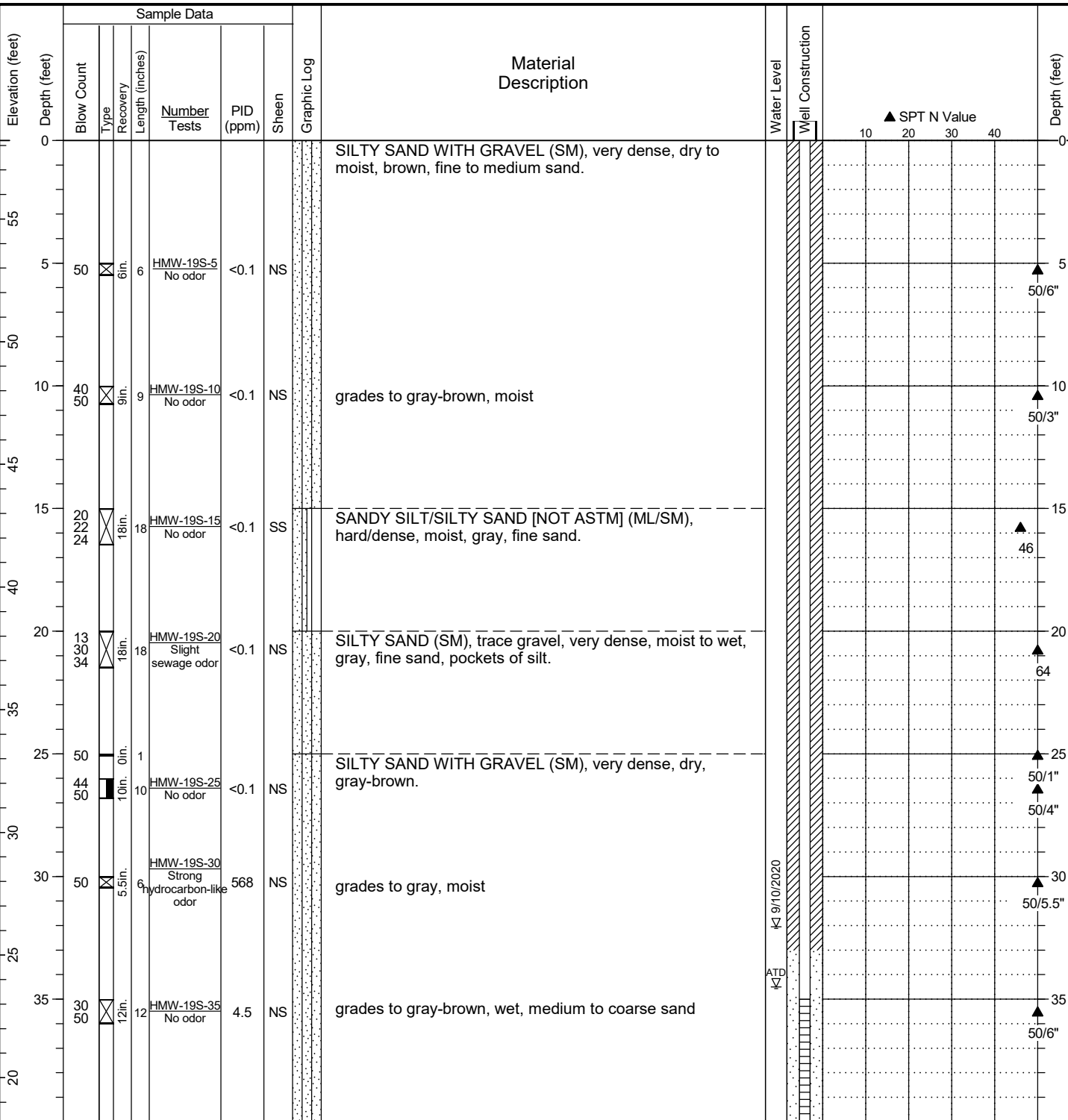


General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 11:01 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL_MEGABLOCKLOGS.GPJ - mschweizer

Date Started: 09/08/2020 Date Completed: 09/08/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625041 Long: -122.342097 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 58.20 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP353 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 46.4 feet Depth to Groundwater: 34.5 feet

HC BORING LOG: \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\9\21 11:01 - \\HALEYALDRICH.COM\SHARE\PDX_DATA\GEO\MATICS\GEO\S\PATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschwelizer



General Notes:

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2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.



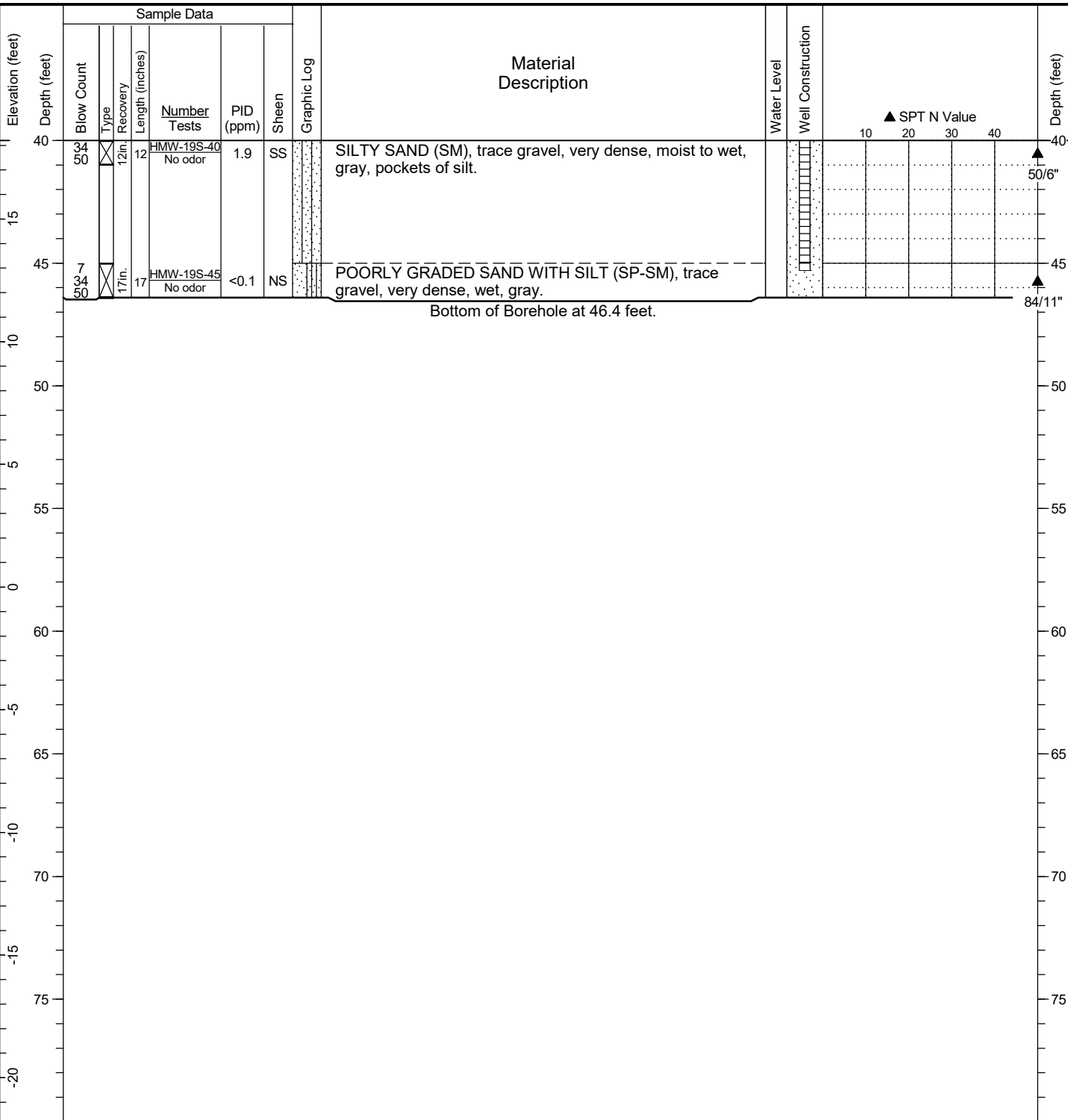
Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Boring and Monitoring Well
 Log
HMW-19S

Figure **A1-83**
 Sheet **1 of 2**

Date Started: 09/08/2020 Date Completed: 09/08/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625041 Long: -122.342097 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 58.20 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP353 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 46.4 feet Depth to Groundwater: 34.5 feet

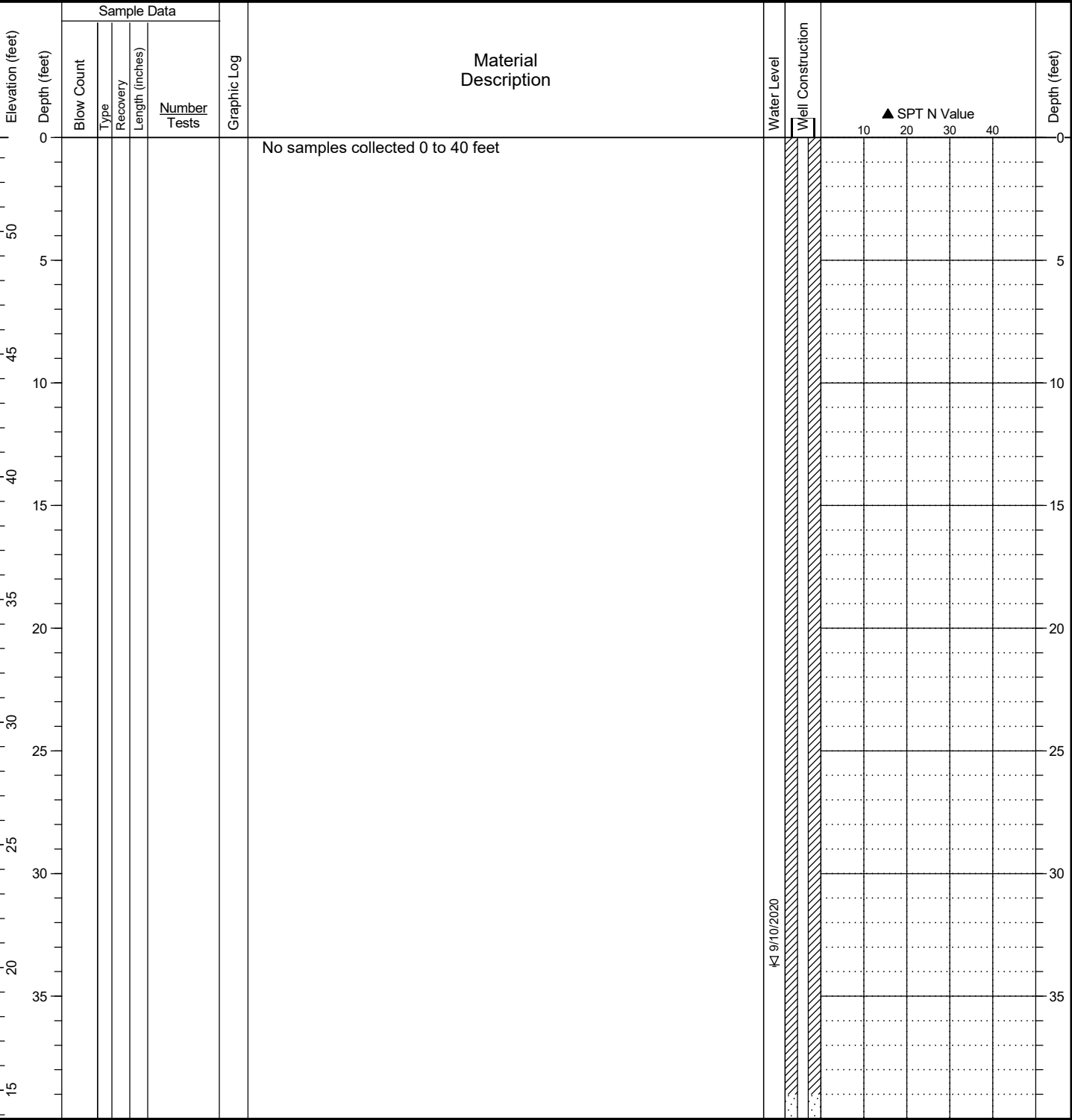
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- General Notes:
1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

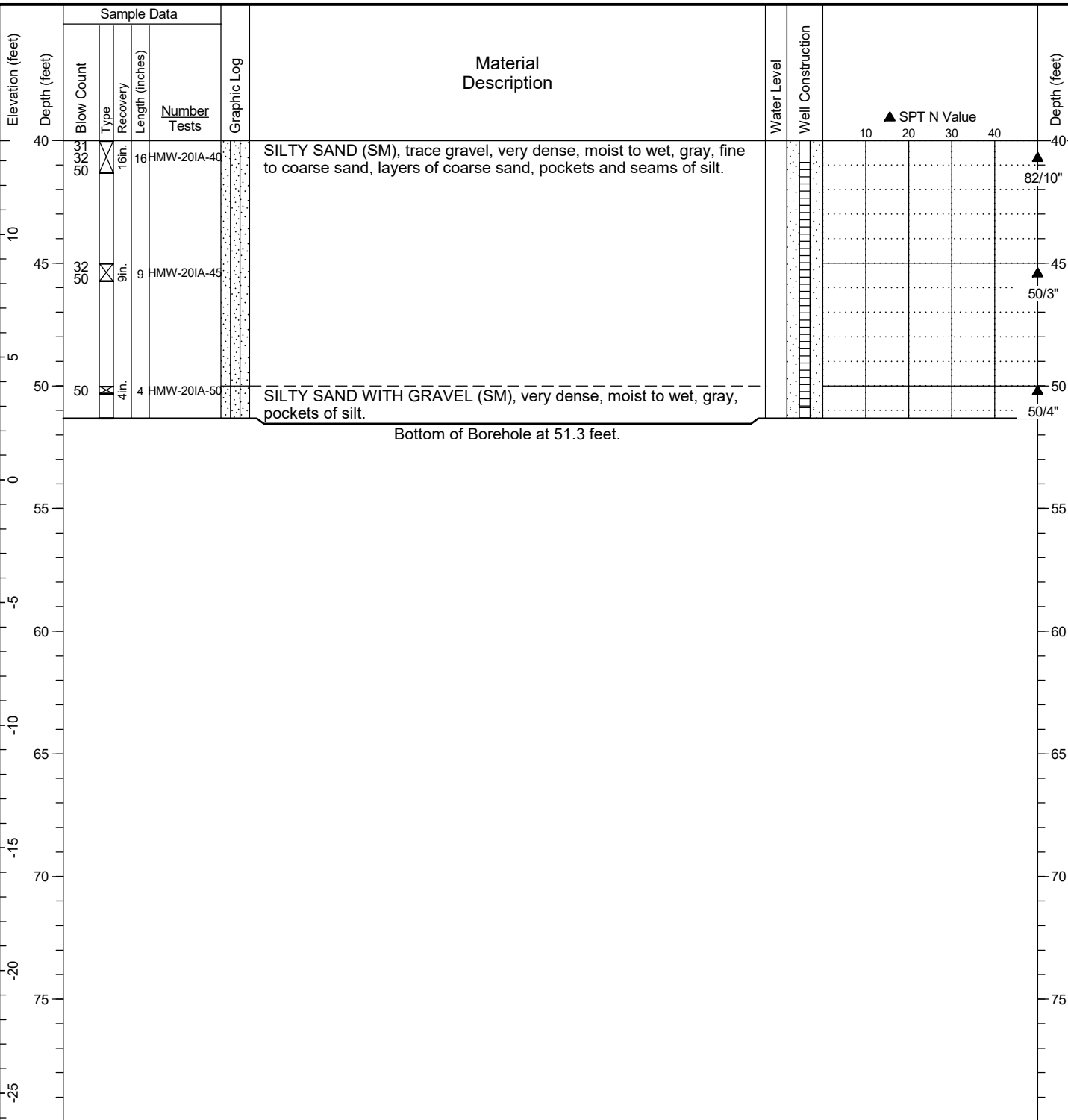
Date Started: 09/09/2020 Date Completed: 09/09/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625024 Long: -122.341560 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 53.83 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP356 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 51.33 feet Depth to Groundwater: 33.72 feet

HC BORING LOG: \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 11:01 - \\HALEYALDRICH.COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweizer



General Notes:
 1. Refer to Figure A1-1 for explanation of descriptions and symbols.
 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 09/09/2020 Date Completed: 09/09/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625024 Long: -122.341560 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 53.83 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP356 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 51.33 feet Depth to Groundwater: 33.72 feet



General Notes:

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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.



Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

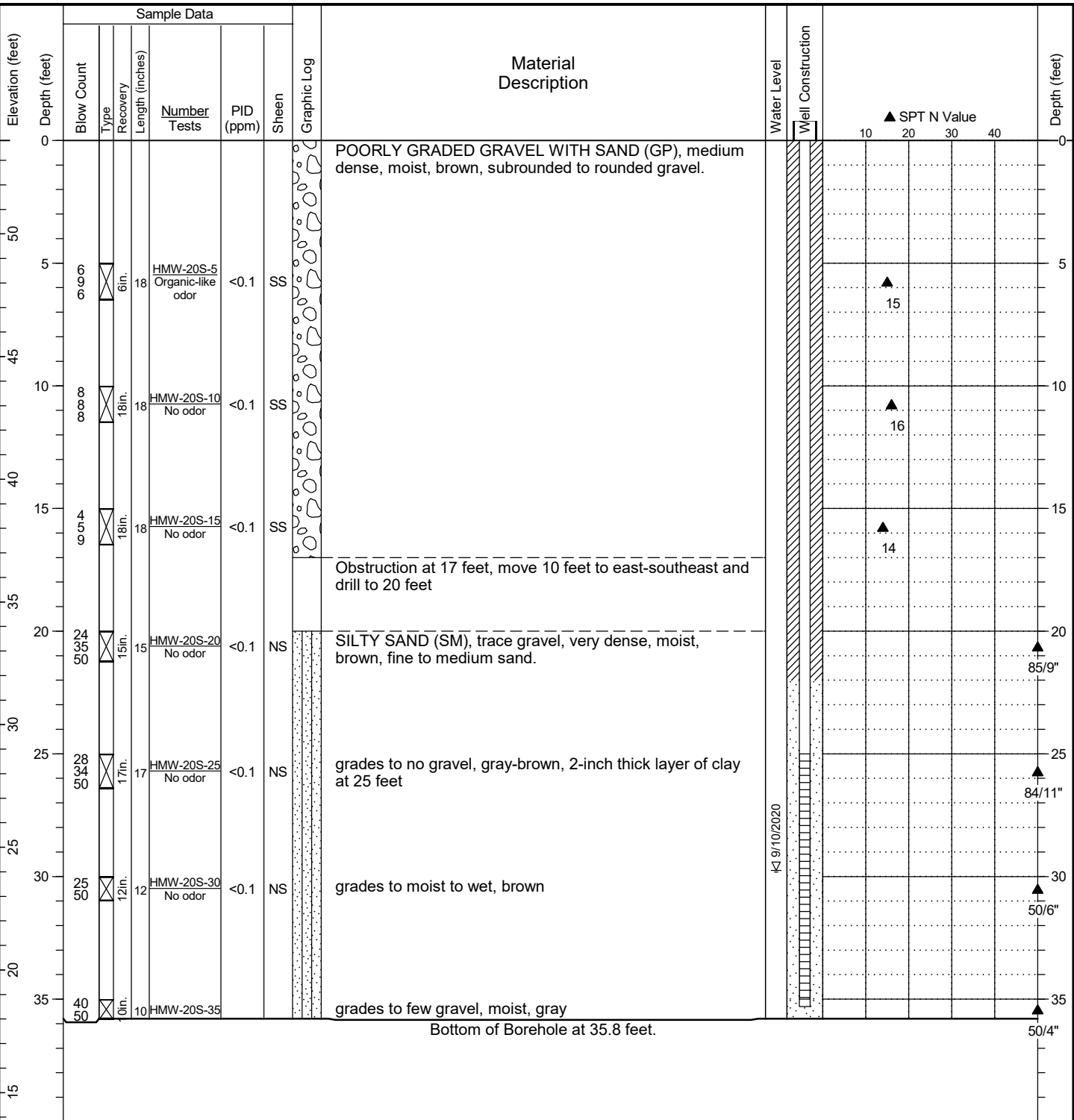
Boring and Monitoring Well
 Log
HMW-201A

Figure **A1-84**
 Sheet **2 of 2**

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 2/19/21 11:01 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL_MEGABLOCKLOGS.GPJ - mschweizer

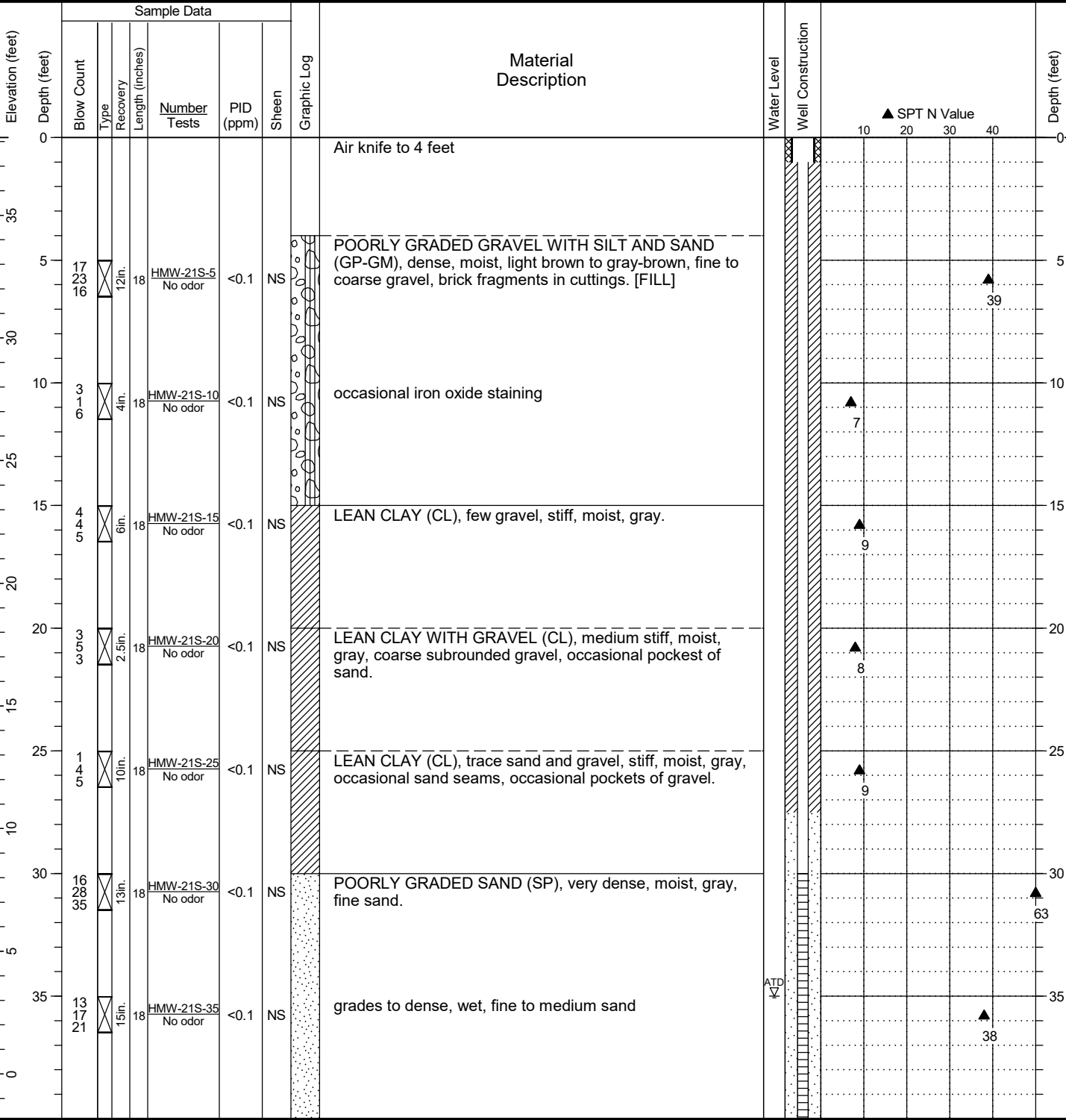
Date Started: 09/08/2020 Date Completed: 09/08/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin
 Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger
 Location: Lat: 47.625032 Long: -122.341575 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 53.81 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP354 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 5.875 inches Casing Diameter: OD: 2 inches
 Total Depth: 35.8 feet Depth to Groundwater: 29.75 feet

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21/9/21 11:01 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweitzer



General Notes:
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 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
 5. Location and ground surface elevations are approximate.

Date Started: 10/20/2020 Date Completed: 10/20/2020 Drilling Contractor/Crew: Holt Services, Inc. / Abe, Rayon, and Smiley
 Logged by: B. Lytle Checked by: C. Kroskie Drilling Method: Mud Rotary
 Location: Lat: 47.625024 Long: -122.339905 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 38.17 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP373 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter: OD: 2 inches
 Total Depth: 41.5 feet Depth to Groundwater: 35 feet



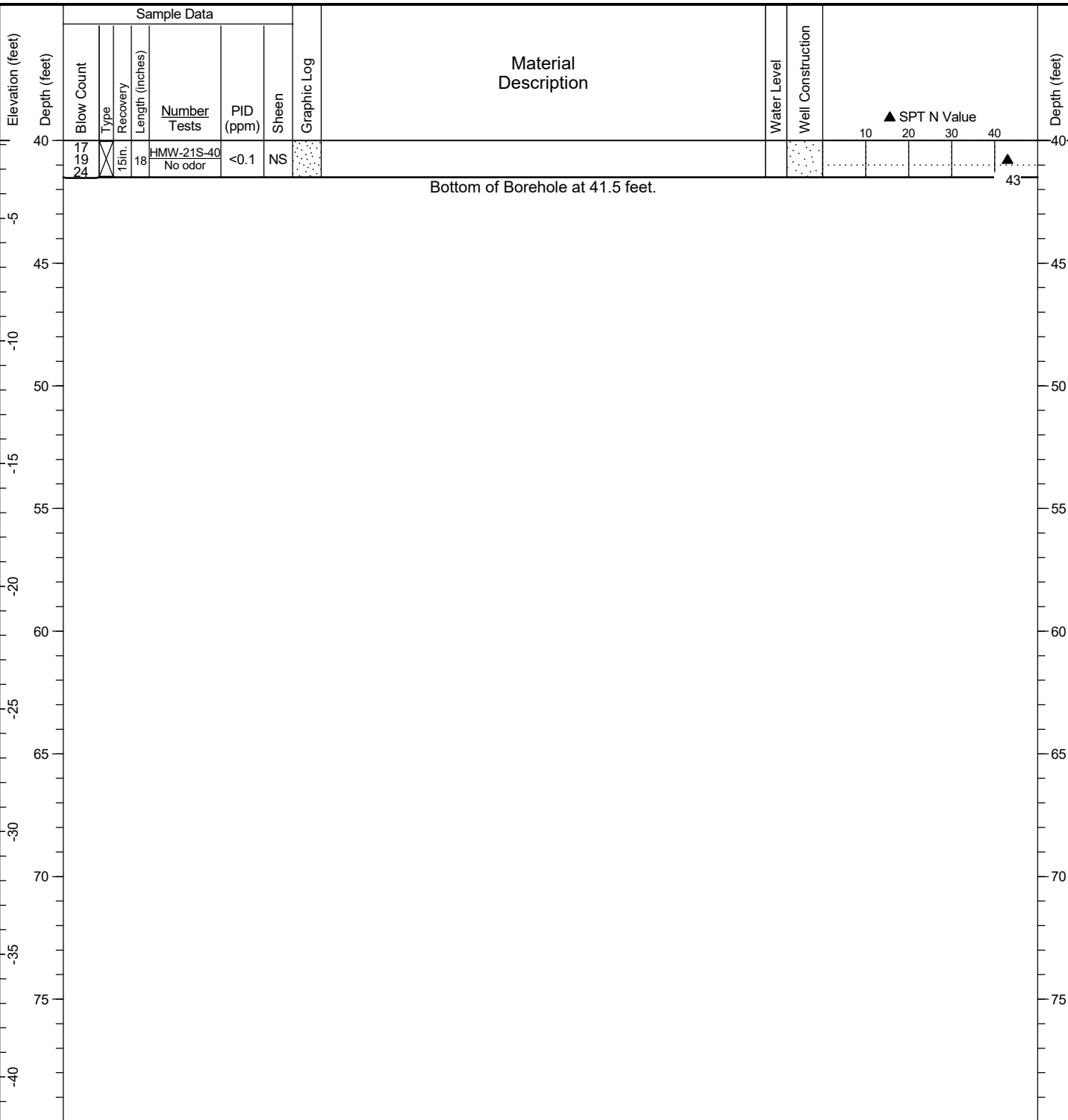
General Notes:

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HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\921 11:01 - \\HALEYALDRICH\COM\SHARE\PD\DATA\GEOMATICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweitzer

Date Started: 10/20/2020 Date Completed: 10/20/2020 Drilling Contractor/Crew: Holt Services, Inc. / Abe, Rayon, and Smiley
 Logged by: B. Lytle Checked by: C. Kroskie Drilling Method: Mud Rotary
 Location: Lat: 47.625024 Long: -122.339905 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 38.17 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP373 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter: OD: 2 inches
 Total Depth: 41.5 feet Depth to Groundwater: 35 feet

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\9\21 11:01 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - mschweizer



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4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.



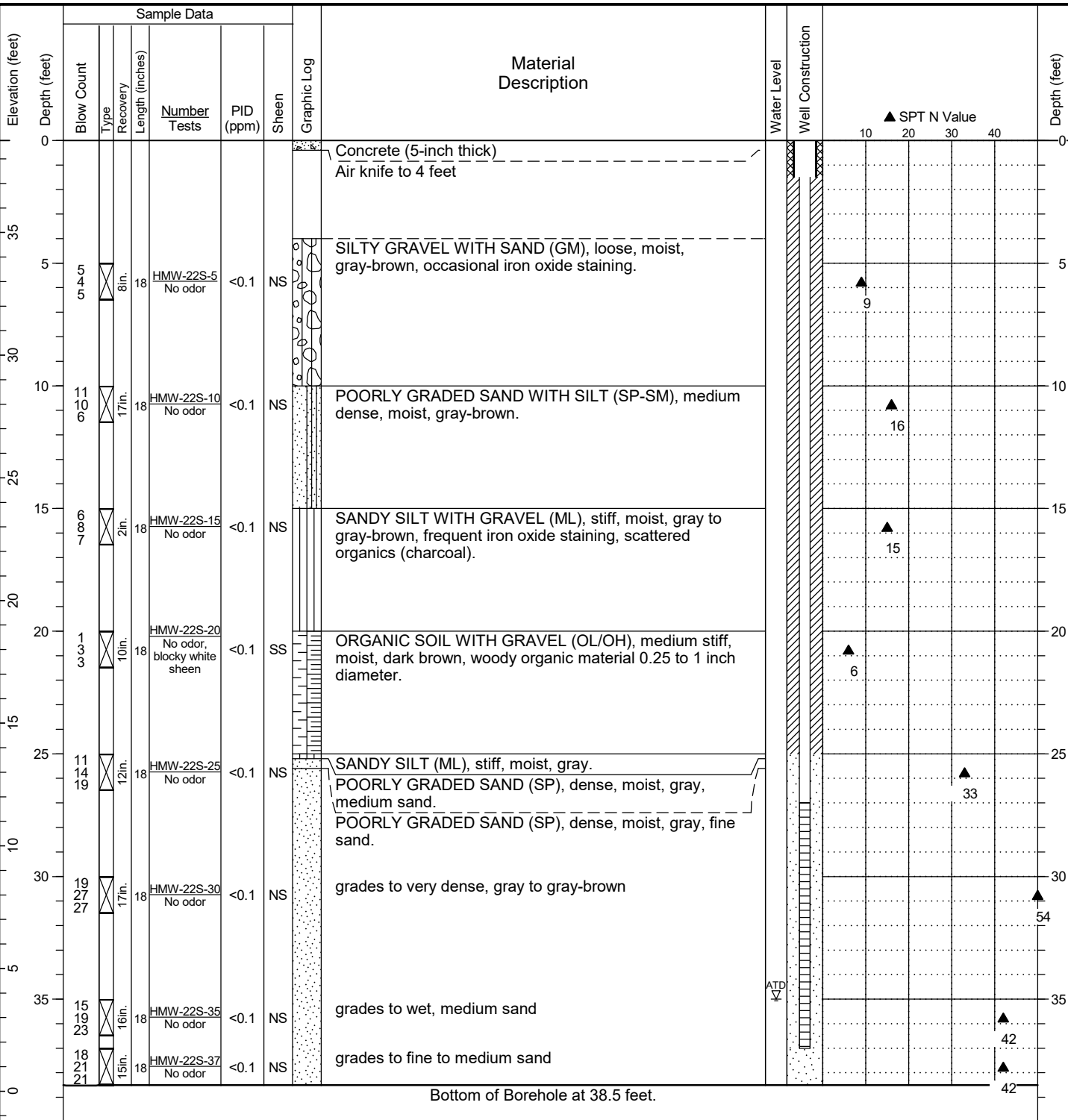
Project: Seattle DOT Mercer Parcels Site
 Location: Seattle, Washington
 Project No.: 19409-04

Boring and Monitoring Well Log
HMW-21S

Figure **A1-86**
 Sheet **2 of 2**

Date Started: 10/22/2020 Date Completed: 10/22/2020 Drilling Contractor/Crew: Holt Services, Inc. / Abe
 Logged by: B. Lytle Checked by: C. Kroskie Drilling Method: Mud Rotary
 Location: Lat: 47.624933 Long: -122.339904 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig
 Ground Surface Elevation: 38.75 feet (NAVD 88) Hammer Type: Auto-hammer
 Comments: Well Tag ID: BMP374 Hammer Weight (pounds): 140 Hammer Drop Height (inches): 30
 Measured Hammer Efficiency (%): Not Available
 Hole Diameter: 6 inches Casing Diameter: OD: 2 inches
 Total Depth: 38.5 feet Depth to Groundwater: 35 feet

HC BORING LOG - \\HALEYALDRICH\COM\SHARE\SEA_DATA\GINT\HC_LIBRARY\GLB - 21\9\21 11:01 - \\HALEYALDRICH\COM\SHARE\IPDX_DATA\GEO\MATRICS\GEO\SPATIAL_LIBRARY\MASTER_PROJECT_FILES\MERCER_MEGABLOCK\GINT\ALL\MEGABLOCKLOGS.GPJ - mschweitzer



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- Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
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