

Appendix E-1

Well Construction Logs

Appendix E-1

Well Construction Logs Summary Sheet

Well ID	Installation Date	Construction Log? (Y/N)
MW-1	12/19/1996	Y
MW-2	12/19/1996	Y
MW-3	12/20/1996	Y
MW-4	4/10/1997	Y
MW-5I	4/10/2023	Y
MW-5S	4/9/1997	Y
MW-6	11/9/1997	Y
MW-7	12/9/1997	Y
MW-8I	6/16/2021	Y
MW-8S	12/8/1997	Y
MW-9I	6/29/2021	Y
MW-9S	12/9/1997	Y
MW-10	12/9/1997	Y
MW-11D	5/2/2003	Y
MW-11I	7/10/2025	Y
MW-11S	12/10/1997	Y
MW-12	12/10/1997	Y
MW-13	12/10/1997	Y
MW-14	12/11/1997	Y
MW-15D	4/29/2003	Y
MW-15S	12/11/1997	Y
MW-16	12/11/1997	Y
MW-17	12/12/1997	Y
MW-18	7/7/1998	Y
MW-19D	No record	N
MW-19S	7/7/1998	Y
MW-20	7/8/1998	Y
MW-21	7/16/1998	Y
MW-22	7/16/1998	Y
MW-23	7/16/1998	Y
MW-24	7/16/1998	Y
MW-25	7/17/1998	Y
MW-26	7/17/1998	Y
MW-27	7/17/1998	Y
MW-28	7/17/1998	Y
MW-29	7/17/1998	Y
MW-30	No Record	N
MW-31	No Record	N

Well ID	Installation Date	Construction Log? (Y/N)
MW-32	No Record	N
MW-33	No Record	N
MW-34	No Record	N
MW-36	No Record	N
MW-37	No Record	N
MW-38	No Record	N
MW-39	No Record	N
MW-40	No Record	N
MW-41	12/9/2005	N
MW-42	3/1/2016	Y
MW-43	3/1/2016	Y
MW-44	2/29/2016	Y
MW-46	8/30/2016	Y
MW-47	8/29/2016	Y
MW-47I	8/24/2021	Y
MW-48	1/22/2021	Y
MW-48R	7/25/2023	Y
MW-49	2/5/2021	Y
MW-50I	1/21/2021	Y
MW-50R	7/26/2023	Y
MW-50S	1/21/2021	Y
MW-51	1/20/2021	Y
MW-52	1/20/2021	Y
MW-53	2/5/2021	Y
MW-54	2/4/2021	Y
MW-54R	7/25/2023	Y
MW-55	2/3/2021	Y
MW-56	2/8/2021	Y
MW-57	2/8/2021	Y
MW-57R	4/4/2023	Y
MW-58	1/25/2021	Y
MW-59I	2/9/2021	Y
MW-59IR	7/27/2023	Y
MW-59S	2/9/2021	Y
MW-59SR	7/28/2023	Y
MW-60	1/28/2021	Y
MW-60IR	7/27/2023	Y
MW-60SR	7/27/2023	Y
MW-61	1/25/2021	Y
MW-62	2/4/2021	Y
MW-62R	7/25/2023	Y
MW-63I	1/29/2021	Y
MW-63S	1/29/2021	Y

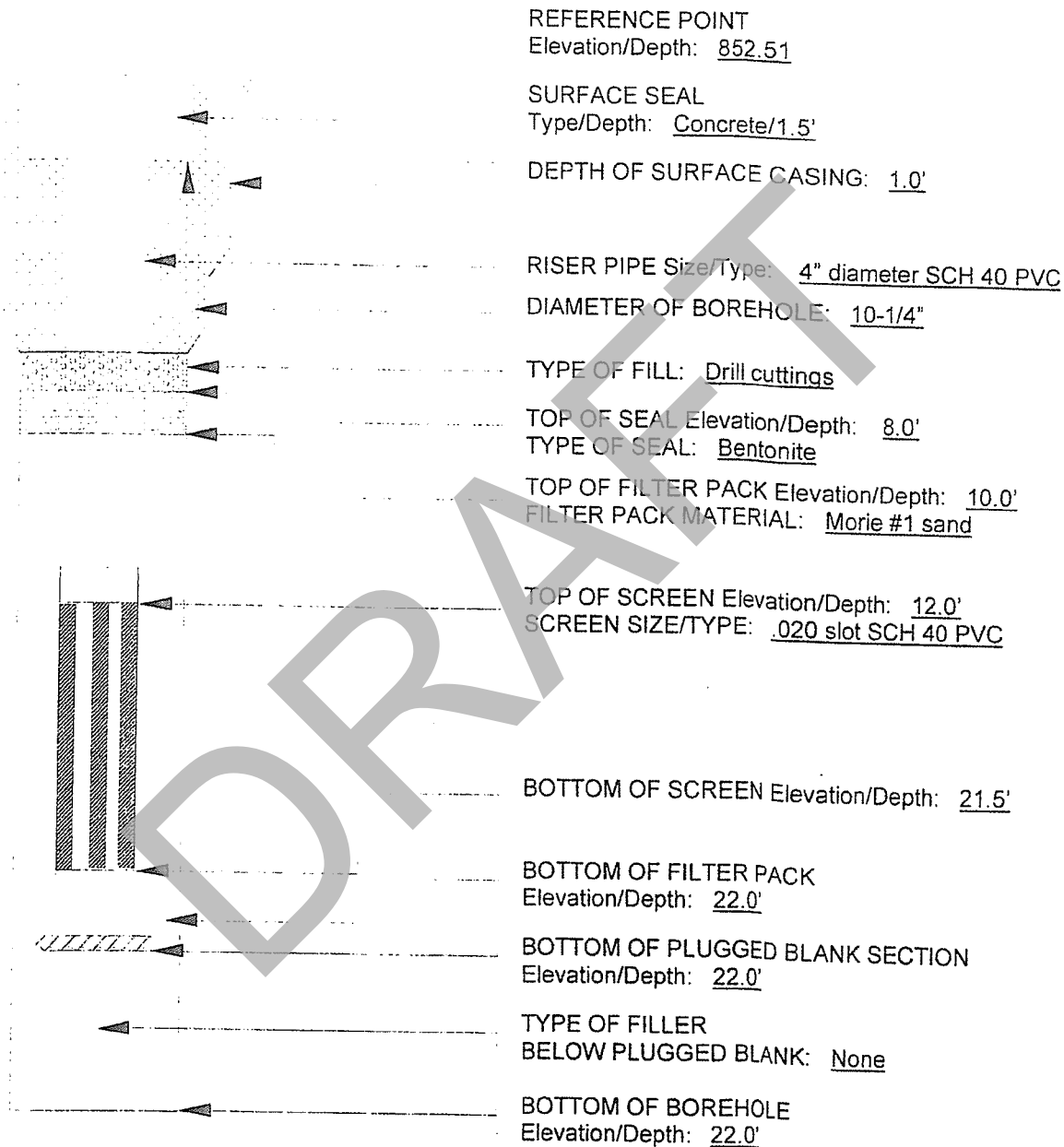
Well ID	Installation Date	Construction Log? (Y/N)
MW-64I	1/27/2021	Y
MW-64S	1/27/2021	Y
MW-65	1/26/2021	Y
MW-65R	7/27/2023	Y
MW-66I	1/28/2021	Y
MW-66S	1/28/2021	Y
MW-67I	6/24/2021	Y
MW-67S	6/25/2021	Y
MW-68S	6/28/2021	Y
MW-69I	6/23/2021	Y
MW-70I	8/3/2021	Y
MW-70S	8/3/2021	Y
MW-71I	8/9/2021	Y
MW-71S	8/9/2021	Y
MW-72I	8/4/2021	Y
MW-72S	8/5/2021	Y
MW-73I	8/5/2021	Y
MW-73S	8/6/2021	Y
MW-74I	8/11/2021	Y
MW-74S	8/12/2021	Y
MW-75I	8/25/2021	Y
MW-75S	8/27/2021	Y
MW-76I	8/31/2021	Y
MW-76S	8/31/2021	Y
MW-77I	8/30/2021	Y
MW-77S	8/31/2021	Y
MW-78I	9/2/2021	Y
MW-78S	9/2/2021	Y
MW-79I	9/2/2021	Y
MW-79S	9/2/2021	Y
MW-81I	6/29/2021	Y
MW-82S	8/2/2021	Y
MW-83I	8/27/2021	Y
MW-83S	8/26/2021	Y
MW-84S	8/23/2021	Y
MW-85I	6/16/2021	Y
MW-86I	6/29/2021	Y
MW-87I	6/29/2021	Y
MW-88I	6/16/2021	Y
MW-88S	6/16/2021	Y
MW-89I	6/11/2021	Y
MW-89S	6/11/2021	Y
MW-90I	8/19/2021	Y

Well ID	Installation Date	Construction Log? (Y/N)
MW-90S	8/19/2021	Y
MW-91I	8/20/2021	Y
MW-91S	8/20/2021	Y
MW-92I	9/1/2021	Y
MW-92S	9/1/2021	Y
MW-93I	8/30/2021	Y
MW-93S	8/26/2021	Y
MW-94I	8/24/2021	Y
MW-94S	8/24/2021	Y
MW-95I	4/6/2023	Y
MW-95S	4/6/2023	Y
MW-96	4/5/2023	Y
MW-97	4/5/2023	Y
MW-98I	7/21/2022	Y
MW-98S	7/20/2022	Y
MW-99I	4/12/2023	Y
MW-99S	4/12/2023	Y
MW-100I	7/28/2023	Y
MW-100S	7/31/2023	Y
MW-101I	4/11/2023	Y
MW-101S	4/11/2023	Y
MW-102I	4/4/2023	Y
MW-102S	4/4/2023	Y
MW-103I	7/28/2022	Y
MW-103S	7/28/2022	Y
MW-104I	4/5/2023	Y
MW-104S	4/5/2023	Y
MW-105I	7/27/2022	Y
MW-105S	4/4/2023	Y
MW-106	4/4/2023	Y
MW-107I	7/8/2025	Y
MW-107S	7/8/2025	Y
MW-108	7/9/2025	Y
MW-D	5/6/2003	Y
Pumping Well #1	9/29/1977	Y

Note - Wells installed by Matrix Environmental that became monitoring well pairs have had ID updated to reflect well pair (i.e. MW-5 to MW-5S)

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
 CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW1
 DATE COMPLETED: 12/19/96 SUPERVISED BY: Chris Treese

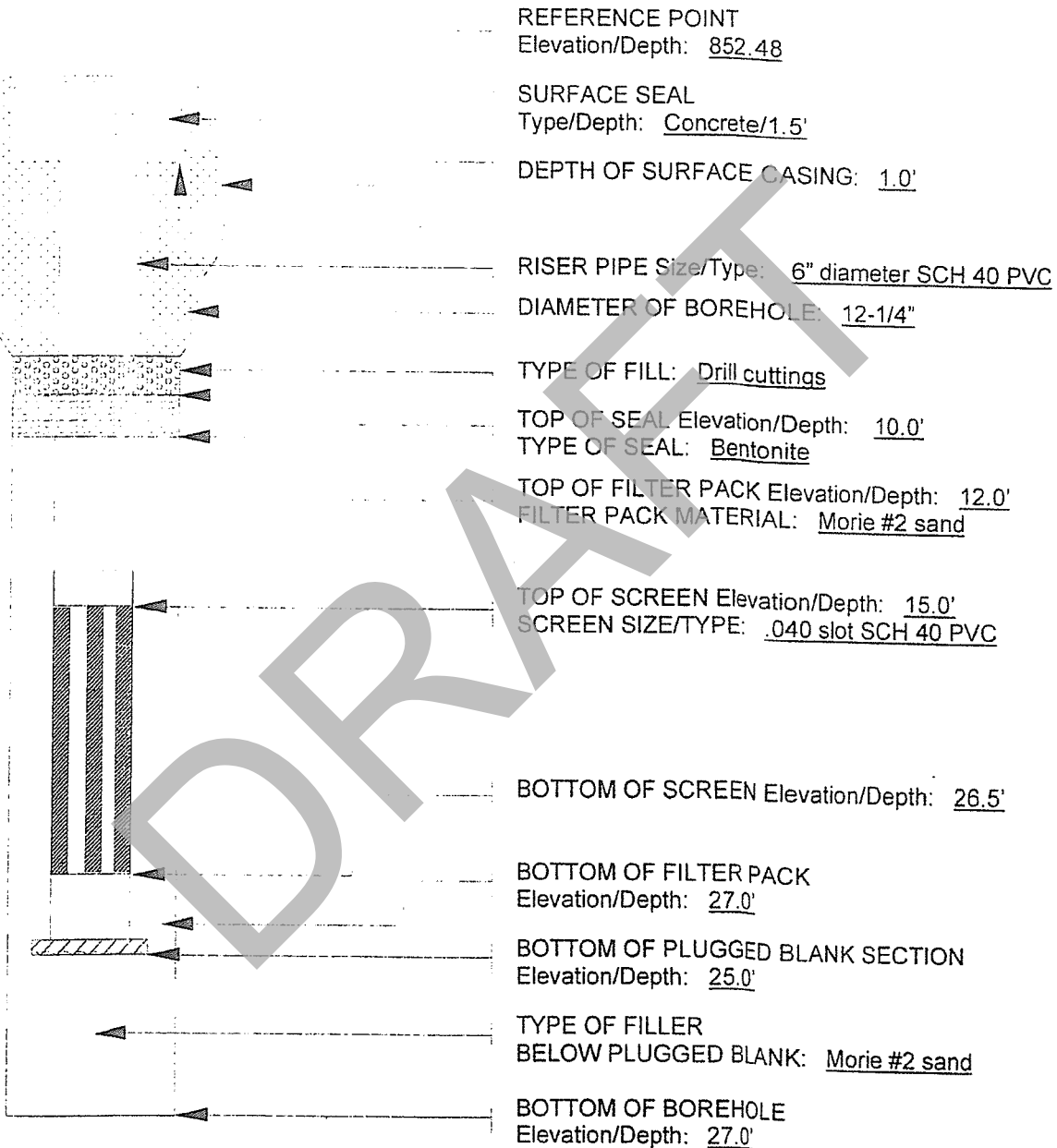


NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
 CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW2
 DATE COMPLETED: 12/19/96 SUPERVISED BY: Chris Treese

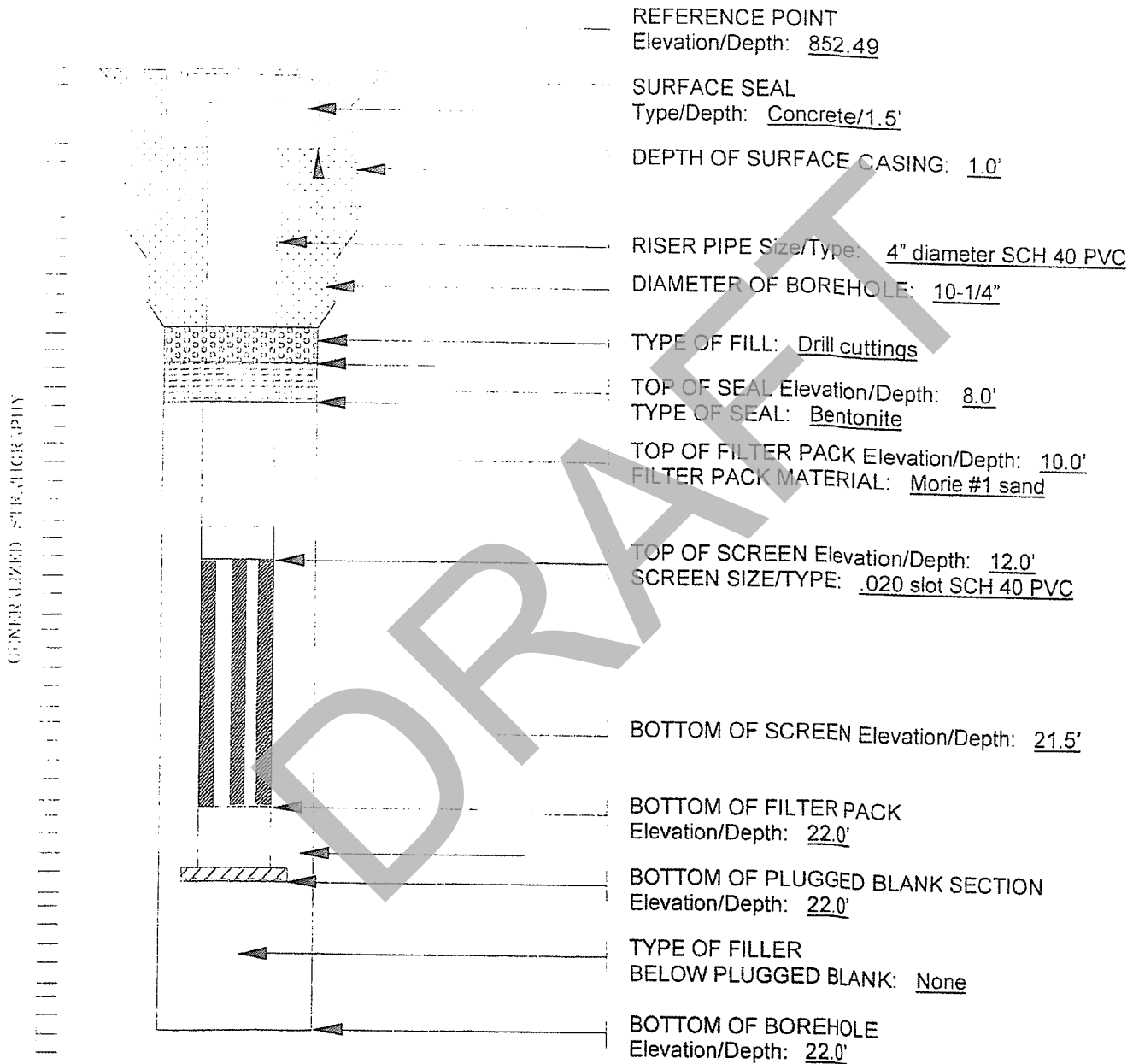
GENERALIZED STRATIGRAPHY



NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	NYSDEC/Miller Pond	PROJECT No.	96020
CLIENT:	NYSDEC Region 8 - Scott Rodabaugh	WELL No.	MW3
DATE COMPLETED:	12/20/96	SUPERVISED BY:	Chris Treese



NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:

NYSDEC/Miller Pond

PROJECT No.

96020

CLIENT:

NYSDEC Region 8 - Scott Rodabaugh

WELL No.

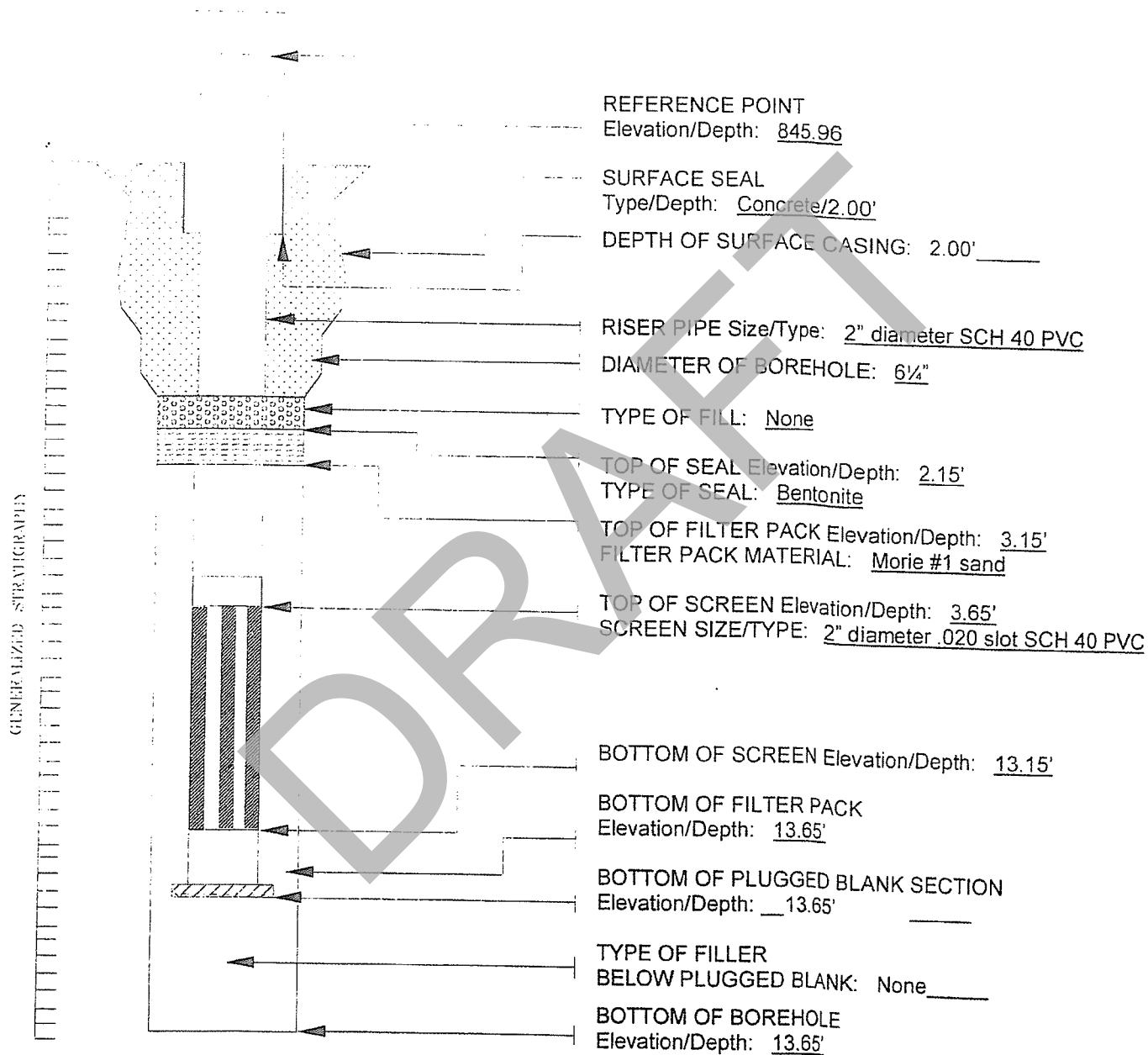
MW4

DATE COMPLETED:

4/10/97

SUPERVISED BY:

Chris Treese



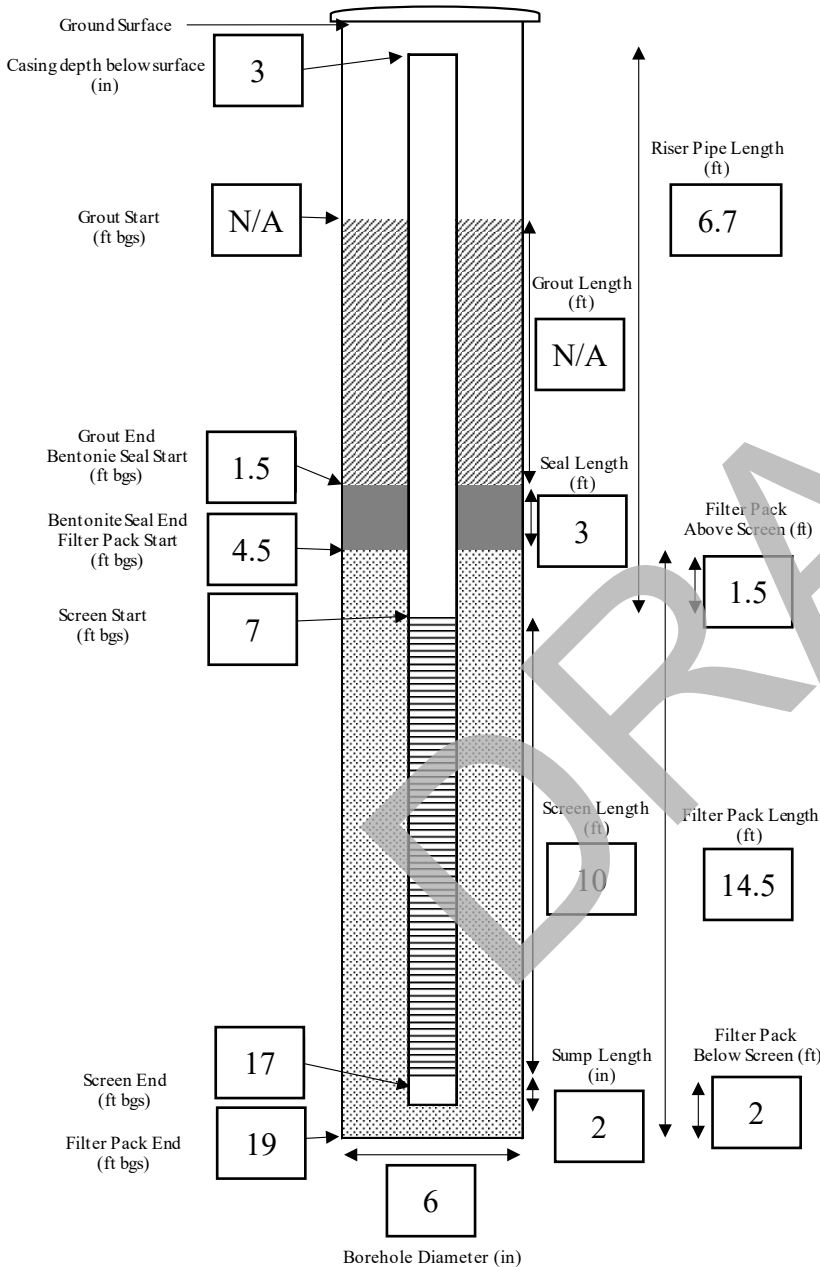
NOTES

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-05I
Drilling Company: Parratt Wolff
Driller: Joel Davis
Geologist/Engineer: Alec Hayes
Casing Installation Date: 04/10/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 839.96



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 4/10/23

Diameter: 8 inches Length: 8 inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout - Date Placed: 4/10/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement - Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal - Date Placed: 4/10/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC - Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC - Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 140 gallons

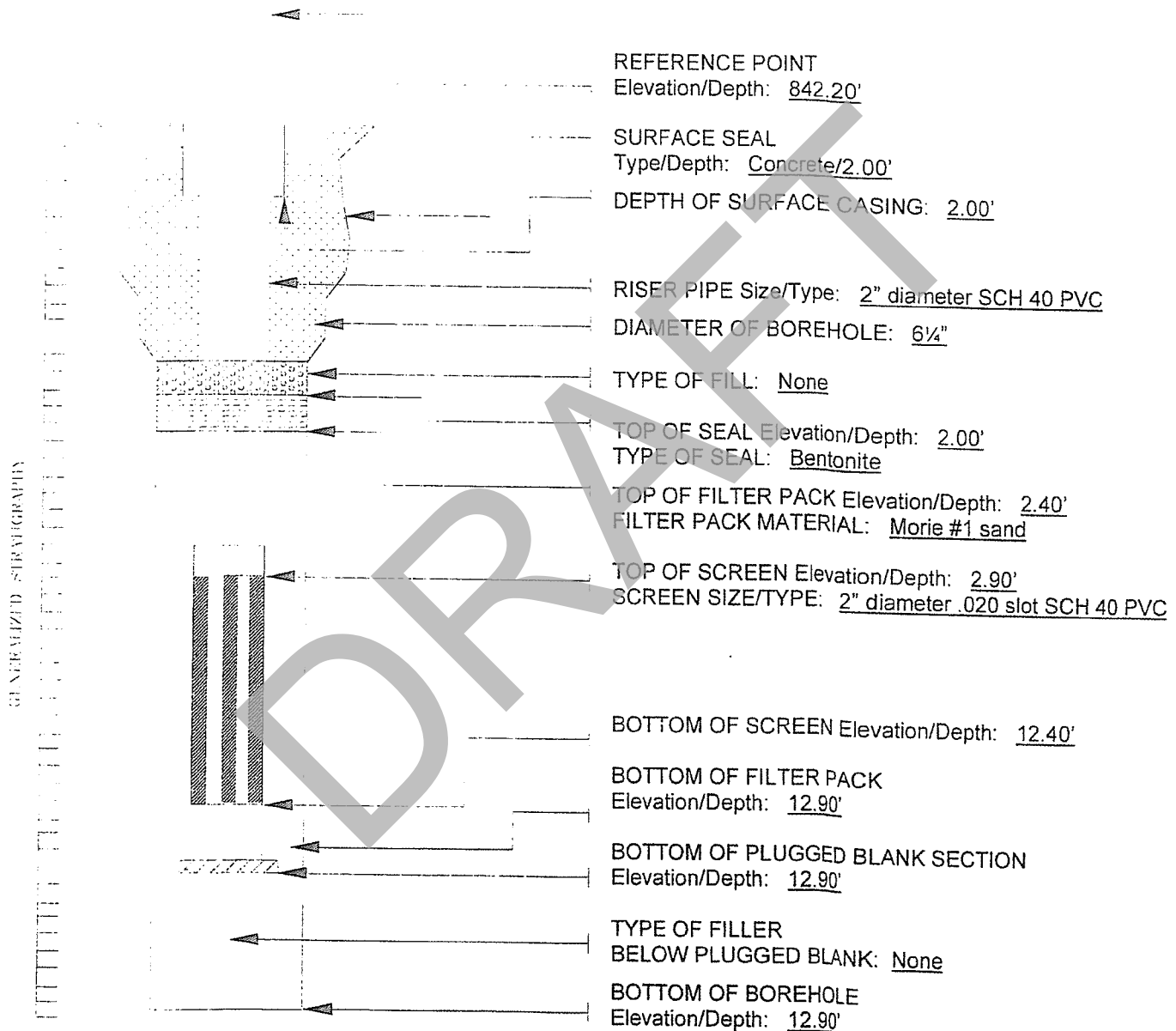
Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW5
DATE COMPLETED: 4/9/97 SUPERVISED BY: Chris Treese



NOTES

Well ID was retroactively changed to MW-5S

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	NYSDEC/Miller Pond	PROJECT No.	96020
CLIENT:	NYSDEC Region 8 - Scott Rodabaugh	WELL No.	MW6
DATE COMPLETED:	11/9/97	SUPERVISED BY:	Chris Treese

REFERENCE POINT

Elevation/Depth: 849.68'

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: ¾" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: NoneTOP OF SEAL Elevation/Depth: NA'TYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: NativeTOP OF SCREEN Elevation/Depth: 9.45'SCREEN SIZE/TYPE: ¾" diam. .010 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 19.35'

BOTTOM OF FILTER PACK

Elevation/Depth: 19.45'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 19.45'

TYPE OF FILLER

BELOW PLUGGED BLANK: None

BOTTOM OF BOREHOLE

Elevation/Depth: 19.45'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW7
DATE COMPLETED: 12/9/97 SUPERVISED BY: Chris Treese

REFERENCE POINT

Elevation/Depth: 852.21'

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 2" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: NoneTOP OF SEAL Elevation/Depth: NATYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: NativeTOP OF SCREEN Elevation/Depth: 5.45'SCREEN SIZE/TYPER: 3/4" diam. .010 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 15.45'

BOTTOM OF FILTER PACK

Elevation/Depth: 15.65'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 15.65'

TYPE OF FILLER

BELOW PLUGGED BLANK: None

BOTTOM OF BOREHOLE

Elevation/Depth: 15.65"

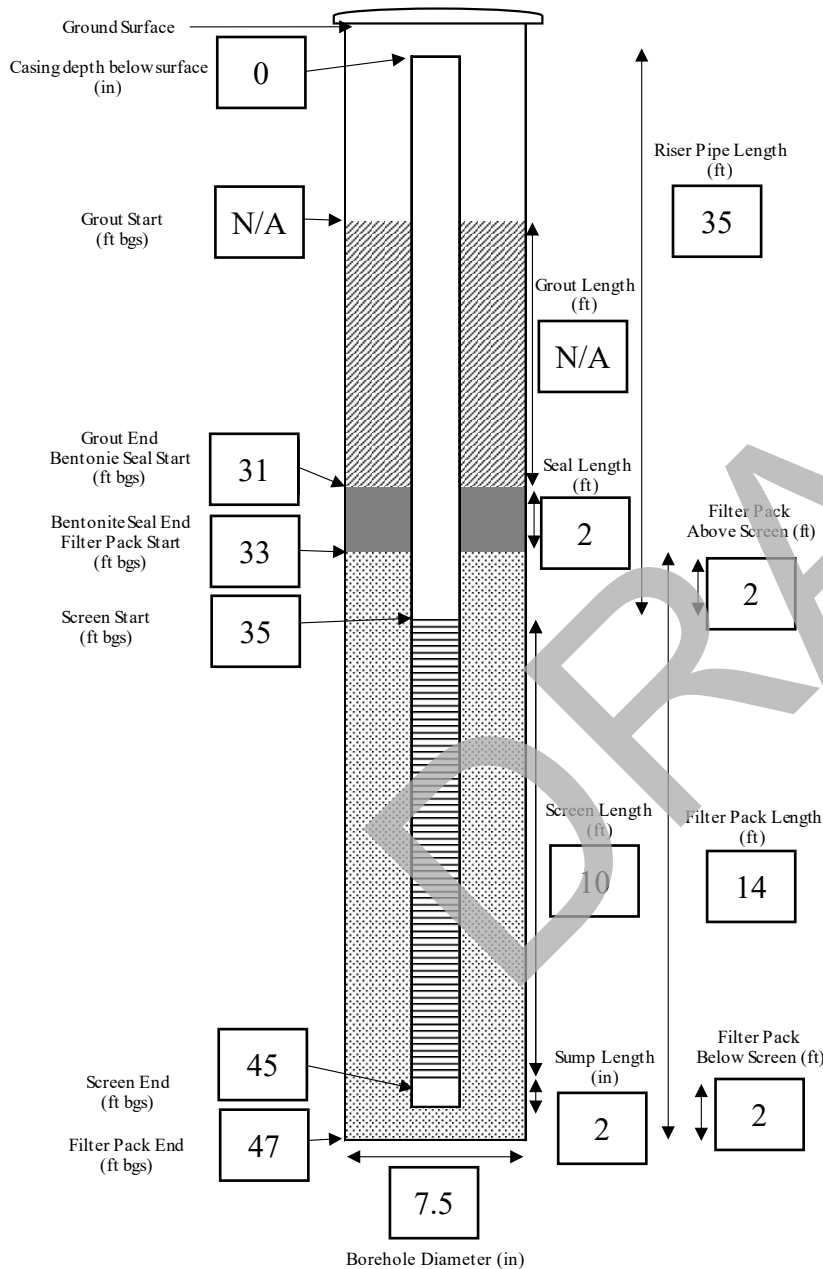
NOTES

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-8I
Drilling Company: Cascade
Driller: Roger Baley
Geologist/Engineer: Sung-Woo Lee
Casing Installation Date: 6/16/21

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.88



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 6/15/21

Diameter: 8 inches Length: 8 inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 6/15/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 6/15/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica
Amount Used: N/A ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 0 gallons Recovered: 0 gallons

Comments: Clay at 34'

Notes:

1. Drawing not to scale
2. Units are in feet

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96-020
 CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW8
 DATE COMPLETED: 12/8/97 SUPERVISED BY: Chris Treese

REFERENCE POINT

Elevation/Depth: _____

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 2" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 8.25"TYPE OF FILL: Drill cuttingsTOP OF SEAL Elevation/Depth: 5.30'TYPE OF SEAL: BentoniteTOP OF FILTER PACK Elevation/Depth: 6.30'FILTER PACK MATERIAL: #1 SandTOP OF SCREEN Elevation/Depth: 7.30'SCREEN SIZE/TYPE: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 16.80'

BOTTOM OF FILTER PACK

Elevation/Depth: 18.00'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 17.30'

TYPE OF FILLER

BELOW PLUGGED BLANK: #1 Sand

BOTTOM OF BOREHOLE

Elevation/Depth: 18.00'

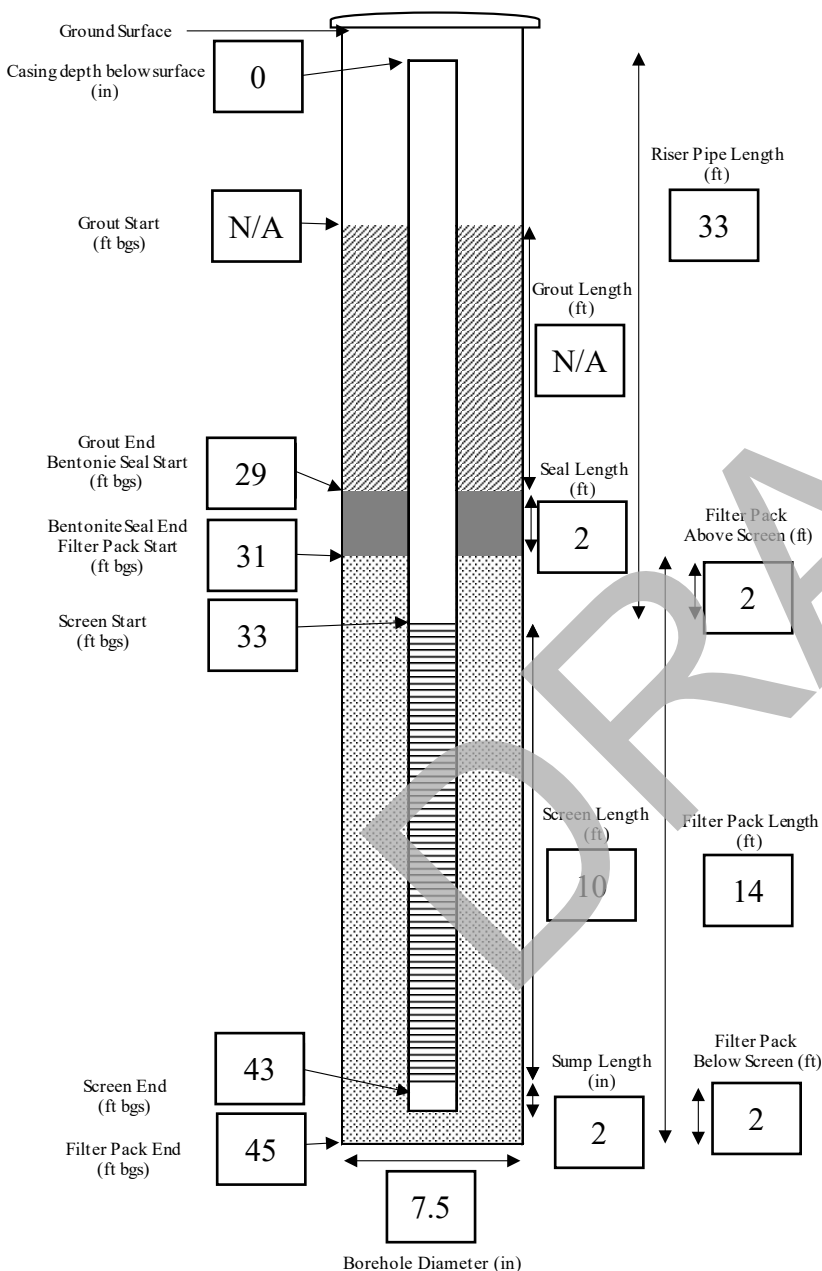
NOTES

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-9I
Drilling Company: Cascade
Driller: Roger Baley
Geologist/Engineer: Sung-Woo Lee
Casing Installation Date: 6/29/21

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.65



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 6/23/21

Diameter: 8 inches Length: 8 inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 6/23/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 6/23/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica
Amount Used: N/A ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 0 gallons Recovered: 0 gallons

Comments: Clay at 34'

Notes:
1. Drawing not to scale
2. Units are in feet

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	NYSDEC/Miller Pond	PROJECT No.	96020
CLIENT:	NYSDEC Region 8 - Scott Rodabaugh	WELL No.	MW9
DATE COMPLETED:	12/9/97	SUPERVISED BY:	Chris Treese

REFERENCE POINT

Elevation/Depth: 853.66

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 2" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 8.25"TYPE OF FILL: Drill cuttingsTOP OF SEAL Elevation/Depth: 7.00'TYPE OF SEAL: BentoniteTOP OF FILTER PACK Elevation/Depth: 8.00'FILTER PACK MATERIAL: #1 SandTOP OF SCREEN Elevation/Depth: 9.00'SCREEN SIZE/TYPER: 020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 18.50'

BOTTOM OF FILTER PACK

Elevation/Depth: 19.00'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 19.00'

TYPE OF FILLER

BELOW PLUGGED BLANK: #1 Sand

BOTTOM OF BOREHOLE

Elevation/Depth: 19.00'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:

NYSDEC/Miller Pond

PROJECT No.

96020

CLIENT:

NYSDEC Region 8 - Scott Rodabaugh

WELL No.

MW10

DATE COMPLETED:

12/9/97

SUPERVISED BY:

Chris Treese

REFERENCE POINT

Elevation/Depth: 853.04

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 2" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 8.25"TYPE OF FILL: Drill cuttingsTOP OF SEAL Elevation/Depth: 7.00'TYPE OF SEAL: BentoniteTOP OF FILTER PACK Elevation/Depth: 8.00'FILTER PACK MATERIAL: #1 SandTOP OF SCREEN Elevation/Depth: 9.00'SCREEN SIZE/TYPER: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 18.50'BOTTOM OF FILTER PACK
Elevation/Depth: 19.00'BOTTOM OF PLUGGED BLANK SECTION
Elevation/Depth: 19.00'TYPE OF FILLER
BELOW PLUGGED BLANK: #1 SandBOTTOM OF BOREHOLE
Elevation/Depth: 19.00'

NOTES

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-11D	
BORING COMPANY FOREMAN EARTH TECH INSPECTOR		GeoLogic, Inc. Scott Paul Sleasman		BORING LOCATION NE corner of track and field. GROUND ELEVATION DATE STARTED 5/1/03 DATE ENDED 5/2/03	
SIZE HAMMER FALL		CASING NA NA NA		TYPE HAMMER FALL	
SAMPLER 2" Split Spoon 140 lb 30"		OTHER: 4 1/4" I.D. Augers		GROUNDWATER READINGS DATE 5/7/03 13:00 DEPTH 17.11' CASING 2" PVC STABILIZATION TIME	

SAMPLE					SAMPLE DESCRIPTION	STRATA CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED	
	NO.	REC.	DEPTH	BLOWS					
0'	1	0.9'	0-2'	5-6-8-8	LOAM, dry-damp.	0-0.9'	0	PVC RISER PIPE	
	2	1.5'	2'-4'	11-12-14-14	LOAM, dry-damp. Brown fine loamy SAND, and (-) fine-crs Gravel (fill material - red brick, concrete fragments), damp.	2'-2.2' 2.2'-3.5'	0		
	3	1.0'	4'-6'	7-8-11-8	Brown fine loamy SAND, some(-) fine-crs Gravel (fill material), damp.	4'-5'	0		
5'				(FILL)					
10'	4	1.0'	6'-8'	6-6-8-7	Brown fine loamy SAND, some fine-crs Gravel, damp-moist.	6'-7'	0		
	5	1.0'	8'-10'	4-4-2-6	Brown fine loamy SAND, some fine-crs Gravel, damp-moist. Brown-black-gray silty fine SAND, some fine-crs Gravel, wet.	8'-8.3' 8.3'-9'	0.2		
	6	0.6'	10'-12'	5-7-4-4	Brown fine-crs SAND, and fine-crs Gravel, damp.	10'-10.6'	0		
	7	0.3'	12'-14'	6-5-11-10	Brown fine-crs SAND, and fine-crs Gravel, wet.	12'-12.3'	0		
15'	8	0.2'	14'-16'	4-7-6-6	Brown-gray fine-crs SAND and fine-crs Gravel, wet.	14'-14.2'	0.7		
	9	1.0'	16'-18'	5-6-9-11	Gray fine-crs SAND, and fine-crs Gravel, wet.	16'-17'	9.5		
20'	10	0.9'	18'-20'	6-9-11-15	Gray fine-crs SAND, and fine-crs Gravel, wet, sheen observed.	18'-18.9'	9.8		
					(GLACIAL OUTWASH)				

PROPORTIONS USED				PENETRATION RESISTANCE				WELL CONSTRUCTION LEGEND			
TRACE 0 TO 10% LITTLE 10 TO 20% SOME 20 TO 35% AND 35 TO 50%				140 LB WT FALLING 30" ON 2" O.D. SAMPLER COHESIONLESS DENSITY 0-4 VERY LOOSE 5-9 LOOSE 10-29 MED. DENSE 30-49 DENSE 50+ VERY DENSE				COHESIVE CONSISTENCY 0-2 VERY SOFT 3-4 SOFT 5-8 M/STIFF 9-15 STIFF 16-30 V-STIFF 31+ HARD			
				BENTONITE EEEE				CONCRETE *****			
				SILICA SAND XXXXXX				NATURAL BACKFILL XXXXXX			
								GROUT *****			
								BEDROCK +++++			

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-11D	
BORING COMPANY FOREMAN EARTH TECH INSPECTOR		GeoLogic, Inc. Scott Paul Sleasman		BORING LOCATION West side of school bldg. GROUND ELEVATION DATE STARTED 5/1/03 DATE ENDED 5/2/03	

SIZE	<u>CASING</u> NA	TYPE	<u>SAMPLER</u> 2" Split Spoon	OTHER:	DATE	GROUNDWATER READINGS		
HAMMER	NA	HAMMER	140 lb	4 1/2" I.D. Augers	5/7/03	DEPTH	CASING	STABILIZATION TIME
FALL	NA	FALL	30"		13:00	17.11'	2" PVC	
						Top of Casing		

SAMPLE					SAMPLE DESCRIPTION	STRATA CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED	
	NO.	REC.	DEPTH	BLOWS					
20'	11	1.0'	20'-22'	16-20-22-22	Gray fine-crs SAND, and (+) fine-crs Gravel, wet, sheen observed.	11'-12'	8.0	P V C R I S E R P I P E	
	12	1.5	22'-24'	15-7-6-6	Same. Brown med SAND, wet, sheen observed.	22'-22.8' 22.8'-23.5'	7.0		
	25'	13	0.8'	24'-26'	6-8-6-6	Same.	24'-24.8'		1.0
14		2.0'	26'-28'	6-6-8-10	Same.	26'-28'	2.3		
15		2.0'	28'-30'	8-10-12-12	Brown med SAND, wet. Brown SILT, wet. Brown fine-crs SAND, and fine(+)-crs Gravel, wet.	28'-29.4' 29.4'-29.8' 29.8'-30'	5.5 0 0		
30'	16	0.8'	30'-32'	9-7-9-9	Brown fine-crs SAND, wet. Brown fine SAND, wet. (GLACIAL OUTWASH)	30'-30.4' 30.4'-30.6'	0		
35'	17	0.7'	32'-34'	3-3-4-3	Brown Silty Clay, moist.	32'-32.7'	0		
	18	0.3'	34'-36'	2-3-2-2	Gray Silty CLAY, moist.	34'-34.3'	0		
	19	0.8'	36'-38'	2-3-2-2	Same.	36'-36.8'	0		
	20	0.9'	38'-40'	2-2-3-3	Same.	38'-38.9'	0		
40'	21	0.7'	40'-42'	0-1-3-3	Same.	40'-41.7'	0		
	22	1.6'	42'-44'	2-2-3-3	Same. (GLACIO LACUSTRINE)	42'-43.6'	0		

PROPORTIONS USED		PENETRATION RESISTANCE 140 LB WT FALLING 30" ON 2" O.D. SAMPLER		WELL CONSTRUCTION LEGEND	
TRACE	0 TO 10%	COHESIONLESS DENSITY	COHESIVE CONSISTENCY	BENTONITE	
LITTLE	10 TO 20%	0-4 VERY LOOSE	0-2 VERY SOFT	CONCRETE	
SOME	20 TO 35%	5-9 LOOSE	3-4 SOFT	GROUT	
AND	35 TO 50%	10-29 MED. DENSE	5-8 M/STIFF	SILICA SAND	
		30-49 DENSE	9-15 STIFF	NATURAL BACKFILL	
		50+ VERY DENSE	16-30 V-STIFF	BEDROCK	
			31+ HARD		

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-11D	
BORING COMPANY FOREMAN EARTH TECH INSPECTOR		GeoLogic, Inc. Scott Paul Sleasman		BORING LOCATION West side of school bldg. GROUND ELEVATION DATE STARTED 5/1/03 DATE ENDED 5/2/03	

CASING		SAMPLER		GROUNDWATER READINGS			
SIZE	NA	TYPE	2" Split Spoon	OTHER:	DATE	DEPTH	CASING
HAMMER	NA	HAMMER	140 lb	4 1/4" I.D. Augers	5/7/03	17.11'	2" PVC
FALL	NA	FALL	30"		13:00	Top of Casing	

SAMPLE					SAMPLE DESCRIPTION	STRATA CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED	
	NO.	REC.	DEPTH	BLOWS					
45'	23	1.7'	44'-46'	2-3-3-4	Gray Silty Clay, moist, no odor.	44'-45.7'	0	P V C R I S E R P I P E	
	24	1.8'	46'-48'	2-2-3-3	Same.	46'-47.8'	0		
	25	1.9'	48'-50'	3-3-3-3	Same.	48'-49.9'	0		
50'	26	2.0'	50'-52'	3-3-4-4	Same.	50'-52'	NR		
	27	2.0'	52'-54'	0-2-3-4	Same.	52'-54'	NR		
55'	28	2.0'	54'-56'	2-3-4-3	Same.	54'-56'	NR		
	29	2.0'	56'-58'	3-4-3-5	Same.	56'-58'	NR		
	30	2.0'	58'-60'	4-4-3-5	Same.	58'-60'	NR		
60'	31	2.0'	60'-62'	0-4-4-4	Same.	60'-62'	NR		
	32	2.0'	62'-64'	0-0-2-2	Same.	62'-64'	NR		
65'	33	2.0'	64'-66'	4-3-4-4	Same.	64'-66'	NR		
	34	2.0'	66'-68'	3-3-4-4	Same.	66'-67'	NR		
	35	1.9'	68'-70'	2-3-2-3	Same.	68'-68.9'	NR		

DRAFT

(GLACIO LACUSTRINE)

WELL CONSTRUCTION LEGEND												
PROPORTIONS USED TRACE 0 TO 10% LITTLE 10 TO 20% SOME 20 TO 35% AND 35 TO 50%			PENETRATION RESISTANCE 140 LB WT FALLING 30" ON 2" O.D. SAMPLER COHESIONLESS DENSITY 0-4 VERY LOOSE 5-9 LOOSE 10-29 MED. DENSE 30-49 DENSE 50+ VERY DENSE			COHESIVE CONSISTENCY 0-2 VERY SOFT 3-4 SOFT 5-8 M/STIFF 9-15 STIFF 16-30 V-STIFF 31+ HARD			BENTONITE EEEE CONCRETE ***** GROUT ***** NATURAL BACKFILL BEDROCK 			

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-11D	
BORING COMPANY FOREMAN EARTH TECH INSPECTOR		GeoLogic, Inc. Scott Paul Sleasman		BORING LOCATION West side of school bldg. GROUND ELEVATION DATE STARTED 5/1/03 DATE ENDED 5/2/03	
SIZE HAMMER FALL		CASING NA NA NA		TYPE HAMMER FALL	
SAMPLER 2" Split Spoon 140 lb 30"		OTHER: 4 1/4" I.D. Augers		DATE 5/7/03 13:00	
DEPTH 17.11' Top of Casing		CASING 2" PVC		STABILIZATION TIME	

SAMPLE					SAMPLE DESCRIPTION	STRATA CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED
NO.	REC.	DEPTH	BLOWS					
70'	36	1.9'	70'-72'	0-1-3-3	Gray Silty Clay, moist, no odor.	70'-70.9'	NR	
	37	1.4'	72'-74'	0-1-2-2	Same.	72'-73.4'	NR	
	38	1.8'	74'-76'	0-0-1-10	Same.	74'-74.8'	NR	
75'					(GLACIO LACUSTRINE)			
	39	1.2'	76'-78'	20-50-60-45	Gray Shale fragments, little (+) gray Silty Clay, wet, no odor.	76'-77.2'	NR	
	40	1.0'	78'-80'	20-48-100/0.2	Same. (GLACIAL TILL OR WEATHERED BEDROCK)	78'-79'	NR	
80'					END OF BORING TOTAL BORING DEPTH = 79.0' 5/2/03 12:00			0-68.0': Grout 68.0'-70.5': Bentonite Seal 70.5'-71.0': #00 Silica Choke Sand 71.0'-79.0': #0 Silica Filter Pack 0-73.5': 2" I.D. PVC Riser Pipe 73.5'-78.5': 2" I.D. PVC Well Screen (0.01" slot)
85'								
90'								

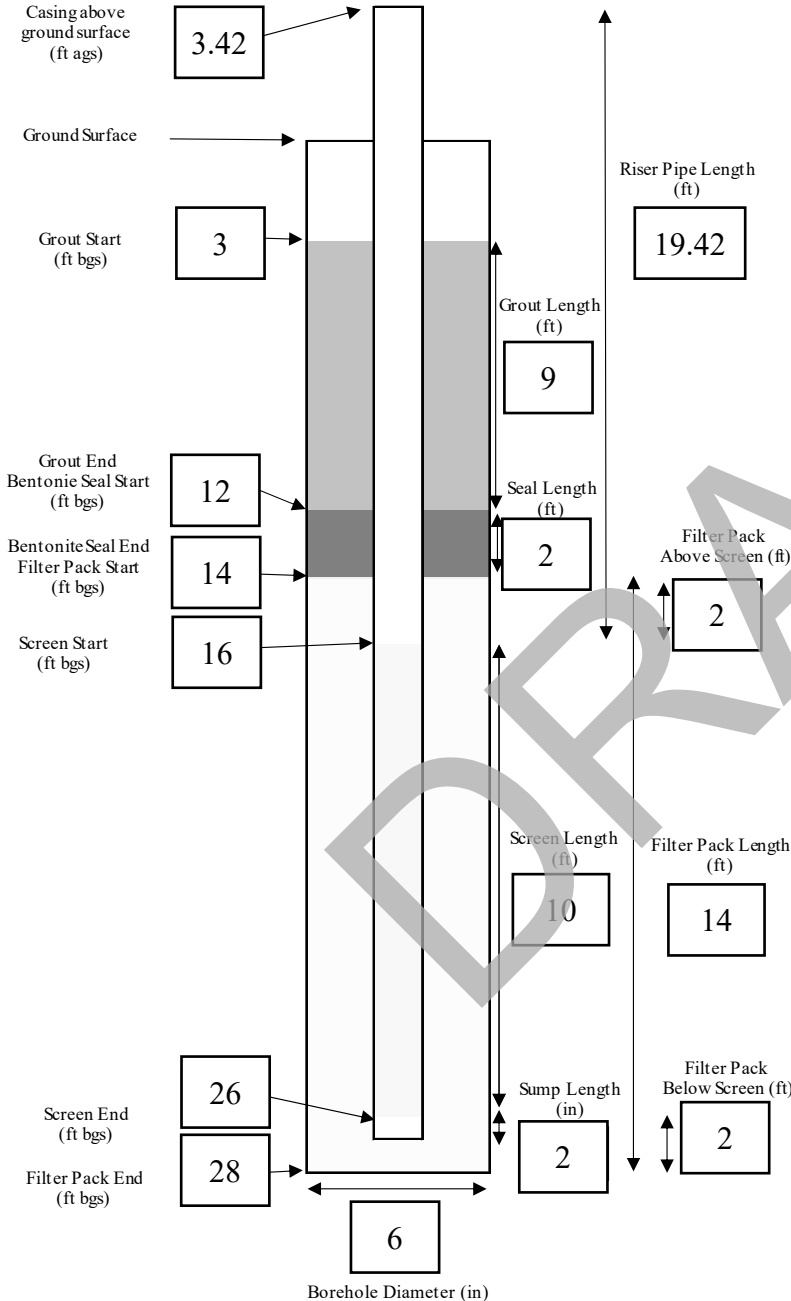
PROPORTIONS USED				PENETRATION RESISTANCE				WELL CONSTRUCTION LEGEND			
TRACE 0 TO 10% LITTLE 10 TO 20% SOME 20 TO 35% AND 35 TO 50%				140 LB WT FALLING 30" ON 2" O.D. SAMPLER COHESIONLESS DENSITY 0-4 VERY LOOSE 5-9 LOOSE 10-29 MED. DENSE 30-49 DENSE 50+ VERY DENSE				COHESIVE CONSISTENCY 0-2 VERY SOFT 3-4 SOFT 5-8 M/STIFF 9-15 STIFF 16-30 V-STIFF 31+ HARD			
				BENTONITE				CONCRETE			
				SILICA SAND				NATURAL BACKFILL			
				GROUT				BEDROCK			

Well Construction Log – Stickup

250 Marquette Avenue South, Suite 590
Minneapolis, Minnesota 55401

Well I.D.: MW-111
Drilling Company: Parratt Wolff
Driller: Alex Boyd
Geologist/Engineer: Stephen Perdziola
Casing Installation Date: 7/10/25

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.57



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: N/A
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/11/25

Diameter: 8 inches Length: 12 inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout - Date Placed: 7/10/25 Time Placed: 11:20

Composition/Proportions:
☒ 95/5 Type I/Type II Cement - Bentonite Mix ☐ Other:
Source/Brand: Quikrete Commercial Grade Type 1
Placement Method: ☒ Tremie ☐ Gravity ☐ Other:

Seal - Date Placed: 7/10/25 Time Placed: 10:50

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Holeplug
Amount Used: 0.5 ☒ Bags ☐ Pounds
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 5 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI Well Gravel Pack
Amount Used: 4.5 ☒ bags ☐ pounds
Placement Method: ☐ Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC - Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC - Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 60 gallons Recovered: 0 gallons

Comments: Clay at 25 ft bgs

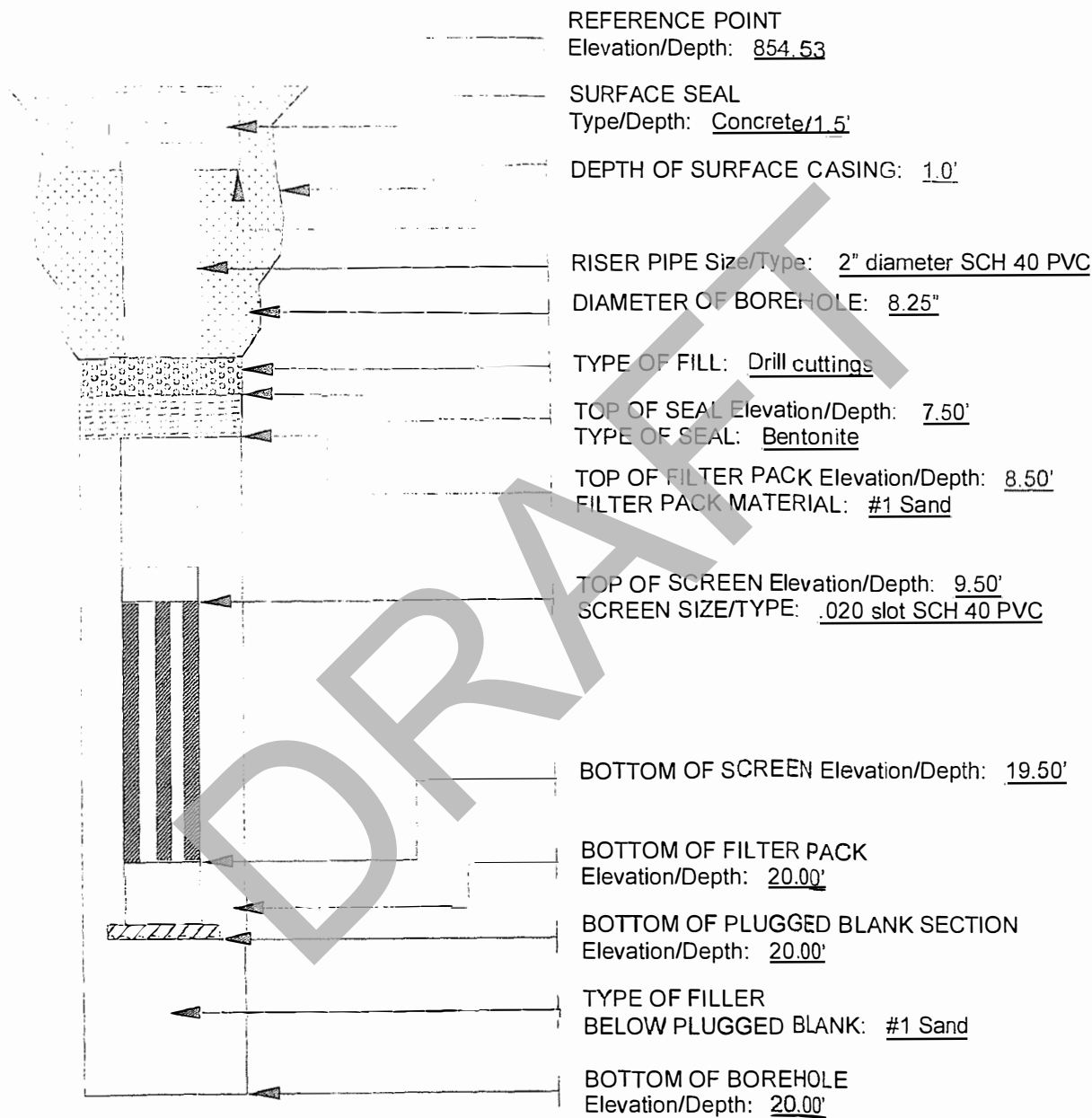
Notes:

1. Drawing not to scale
2. Units are in feet

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
 CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW11
 DATE COMPLETED: 12/10/97 SUPERVISED BY: Chris Treese

GENERALIZED SHEET PILE



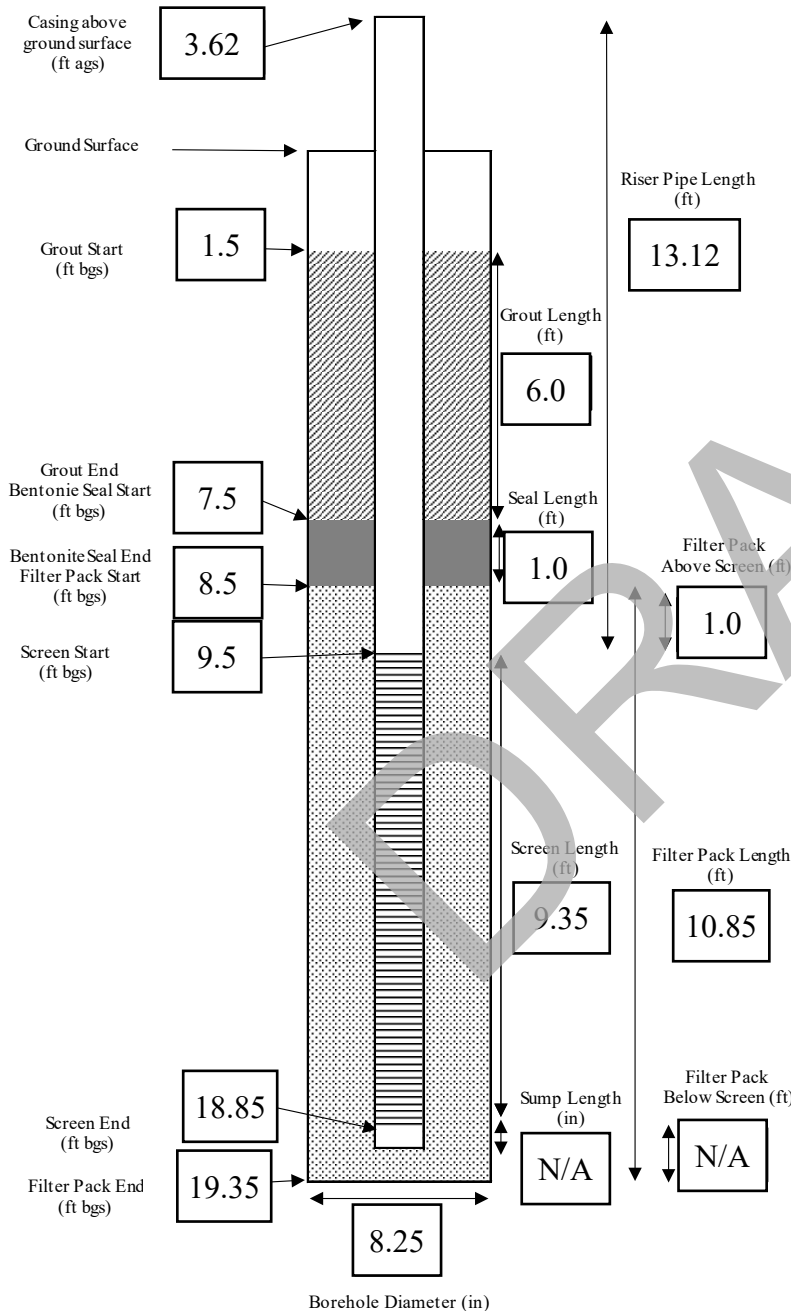
NOTES

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-12
Matrix Environmental
Drilling Company: Technologies
Driller: N/A
Geologist/Engineer: Chris Treese
Casing Installation Date: 12/10/1997

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.47



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: N/A
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: Unknown

Protective Manhole Cover - ☐ Yes ☒ No Date Installed: N/A

Diameter: inches Length: inches
Type: ☐ Steel ☐ Aluminum ☐ Other:
Depth set: ☐ Ground Surface ☐ Other:

Grout - Date Placed: N/A Time Placed: N/A
Composition/Proportions:
☐ 95/5 Type I/Type II Cement - Bentonite Mix ☒ Other: Concrete
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal - Date Placed: N/A Time Placed:
Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☐ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack
Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: N/A ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC - Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC - Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☐ 0.010-inch ☒ Other: 0.020-inch
Percent Open Area: ☐ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

1. Drawing not to scale
2. Units are in feet
3. Well construction details transcribed from 1997 well construction log
4. Monitoring well retrofit to stick-up completion as of 6/24/2024

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	NYSDEC/Miller Pond	PROJECT No.	96020
CLIENT:	NYSDEC Region 8 - Scott Rodabaugh	WELL No.	MW13
DATE COMPLETED:	12/10/97	SUPERVISED BY:	Chris Treese

REFERENCE POINT

Elevation/Depth: 854.60

SURFACE SEAL

Type/Depth: Concrete/1.5'

DEPTH OF SURFACE CASING: 1.0'

RISER PIPE Size/Type: 2" diameter SCH 40 PVC

DIAMETER OF BOREHOLE: 8.25"

TYPE OF FILL: Drill cuttings

TOP OF SEAL Elevation/Depth: 7.50'

TYPE OF SEAL: Bentonite

TOP OF FILTER PACK Elevation/Depth: 8.50'

FILTER PACK MATERIAL: #1 Sand

TOP OF SCREEN Elevation/Depth: 9.50'

SCREEN SIZE/TYPE: .020 slot SCH 40 PVC

BOTTOM OF SCREEN Elevation/Depth: 20.50'

BOTTOM OF FILTER PACK

Elevation/Depth: 21.00'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 21.00'

TYPE OF FILLER

BELOW PLUGGED BLANK: #1 Sand

BOTTOM OF BOREHOLE

Elevation/Depth: 21.00'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	NYSDEC/Miller Pond	PROJECT No.	96020
CLIENT:	NYSDEC Region 8 - Scott Rodabaugh	WELL No.	MW14
DATE COMPLETED:	12/11/97	SUPERVISED BY:	Chris Treese

REFERENCE POINT

Elevation/Depth: 853.73

SURFACE SEAL

Type/Depth: Concrete/1.5'

DEPTH OF SURFACE CASING: 1.0'

RISER PIPE Size/Type: 2" diameter SCH 40 PVC

DIAMETER OF BOREHOLE: 8.25"

TYPE OF FILL: Drill cuttings

TOP OF SEAL Elevation/Depth: 7.50'

TYPE OF SEAL: Bentonite

TOP OF FILTER PACK Elevation/Depth: 8.50'

FILTER PACK MATERIAL: #1 Sand

TOP OF SCREEN Elevation/Depth: 9.50'

SCREEN SIZE/TYPE: .020 slot SCH 40 PVC

BOTTOM OF SCREEN Elevation/Depth: 20.50'

BOTTOM OF FILTER PACK

Elevation/Depth: 21.50'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 21.50'

TYPE OF FILLER

BELOW PLUGGED BLANK: #1 Sand

BOTTOM OF BOREHOLE

Elevation/Depth: 21.50'

WELL CONSTRUCTION DETAIL

NOTES

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-15D	
BORING COMPANY FOREMAN EARTH TECH INSPECTOR		GeoLogic, Inc. Scott Paul Sleasman		BORING LOCATION West side of school bldg. GROUND ELEVATION DATE STARTED 4/29/03 DATE ENDED 4/30/03	

SIZE	CASING	TYPE	SAMPLER	OTHER:	DATE	DEPTH	CASING	STABILIZATION TIME
HAMMER	NA	HAMMER	2" Split Spoon		5/7/03	17.0'	2" PVC	
FALL	NA	FALL	140 lb	4 1/4" I.D. Augers	09:00	Top of Casing		
	NA		30"					

SAMPLE					SAMPLE DESCRIPTION	STRATA CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED
	NO.	REC.	DEPTH	BLOWS				
25'	11	1.0'	20'-22'	30-18-12-15	Fine-crs GRAVEL, little(-) brown fine-crs Sand, wet.	20'-21'	0	PVC RISER PIPE
	12	0.3'	22'-24'	23-9-6-9	Brown-black-gray-red fine-crs SAND, and fine-crs Gravel, wet.	22'-22.3'	0	
	13	0.7'	24'-26'	12-14-8-8	Brown-black-gray-red fine-crs SAND, and fine-crs Gravel, wet. Brown med SAND, wet.	24'-24.3'	0	
						24.3'-24.7'	0	
30'	14	0	26'-28'	12-12-10-6	No Recovery.			
	15	2.0'	28'-30'	40-27-23-20	Brown med SAND, wet, no odor. Brown fine(+)-crs SAND, some fine-crs Gravel, wet.	28'-28.2'	0	
						28.2'-30'	0	
	16	1.3'	30'-32'	12-6-4-5	Fine-crs GRAVEL, and brown fine-crs Sand (coarsens downward), wet.	30'-31.3'	0	
35'	17	1.4'	32'-34'	12-10-20-11	Brown fine-crs SAND, wet. Brown fine-crs SAND, and (-) fine-crs Gravel, wet.	32'-33.4'	0	
	18	0.7'	34'-36'	28-25-15-13	Brown fine-crs SAND, and fine-crs Gravel, wet.	34'-34.7'	0	
	19	0.9'	36'-38'	20-18-16-19	Same.	36'-36.8'	0	
	(GLACIAL OUTWASH)							
40'	20	0.3'	38'-40'	7-5-5-6	Brown Silty CLAY, moist. Same.	36.8'-36.9'	0	
	21	0.8'	40'-42'	2-3-4-3	Brown-gray Silty CLAY, moist.	38'-38.3'	0	
	22	0.9'	42'-44'	2-3-3-2	Gray Silty CLAY, moist.	40'-40.8'	0	
(GLACIO LACUSTRINE)					42'-42.9'	NR		

PROPORTIONS USED		PENETRATION RESISTANCE		WELL CONSTRUCTION LEGEND	
TRACE	0 TO 10%	140 LB WT FALLING 30" ON 2" O.D. SAMPLER	BENTONITE	CONCRETE	GROUT
LITTLE	10 TO 20%	COHESIONLESS DENSITY	0-2 VERY LOOSE	0-2 VERY SOFT	
SOME	20 TO 35%	5-9 LOOSE	3-4 SOFT	5-8 M/STIFF	
AND	35 TO 50%	10-29 MED. DENSE	5-8 M/STIFF	9-15 STIFF	
		30-49 DENSE	16-30 V-STIFF	31+ HARD	
		50+ VERY DENSE			
				SILICA SAND	NATURAL BACKFILL
					BEDROCK

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-15D	
BORING COMPANY FOREMAN EARTH TECH INSPECTOR		GeoLogic, Inc. Scott Paul Sleasman		BORING LOCATION West side of school bldg. GROUND ELEVATION DATE STARTED 4/29/03 DATE ENDED 4/30/03	

CASING		SAMPLER		OTHER:		GROUNDWATER READINGS			
SIZE	NA	TYPE	2" Split Spoon			DATE	DEPTH	CASING	STABILIZATION TIME
HAMMER	NA	HAMMER	140 lb	4 1/2" I.D. Augers		5/7/03	17.0'	2" PVC	
FALL	NA	FALL	30"			09:00	Top of Casing		

SAMPLE					SAMPLE DESCRIPTION	STRATA CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED
	NO.	REC.	DEPTH	BLOWS				
45'	23	0.8'	44'-46'	2-2-2-2	Gray Silty CLAY, moist.	44'-44.8'	NR	P V C R I S E R P I P E
	24	1.3'	46'-48'	0-1-2-3	Same.	46'-47.3'	NR	
	25	1.8	48'-50'	1-1-2-3	Same.	48'-49.8'	NR	
50'	26	1.3	50'-52'	0-1-2-2	Same.	50'-51.3'	NR	
	27	2.0'	52'-54'	0-2-2-3	Same.	52'-54'	NR	
	28	1.6	54'-56'	0-0-2-3	Same.	54'-55.6'	NR	
55'	29	2.0'	56'-58'	0-0-3-4	Same.	56'-58'	NR	
	30	2.0'	58'-60'	2-3-4-5	Same.	58'-60'	NR	
60'	31	2.0'	60'-62'	2-3-3-4	Same.	60'-62'	NR	
	32	2.0'	62'-64'	2-3-4-5	Same.	62'-64'	NR	
65'	33	2.0'	64'-66'	2-2-3-3	Same.	64'-66'	NR	
	34	2.0'	66'-68'	1-1-3-6	Same.	66'-68'	NR	
	35	1.7'	68'-70'	2-2-3-3	Same.	68'-69.7'	NR	
(GLACIO LACUSTRINE)								

PROPORTIONS USED		PENETRATION RESISTANCE		WELL CONSTRUCTION LEGEND			
140 LB WT FALLING 30" ON 2" O.D. SAMPLER							
TRACE	0 TO 10%	COHESIONLESS DENSITY	COHESIVE CONSISTENCY	BENTONITE	CONCRETE	GROUT	
LITTLE	10 TO 20%	0-4	VERY LOOSE	0-2	VERY SOFT		
SOME	20 TO 35%	5-9	LOOSE	3-4	SOFT		
AND	35 TO 50%	10-29	MED. DENSE	5-8	M/STIFF		
		30-49	DENSE	9-15	STIFF		
		50+	VERY DENSE	16-30	V-STIFF		
				31+	HARD		
				SILICA SAND	NATURAL BACKFILL	BEDROCK	

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-15D	
BORING COMPANY GeoLogic, Inc. FOREMAN Scott EARTH TECH INSPECTOR Paul Sleasman		BORING LOCATION West side of school bldg. GROUND ELEVATION DATE STARTED 4/29/03 DATE ENDED 4/30/03			

SIZE	CASING	TYPE	SAMPLER	OTHER:	DATE	DEPTH	CASING	STABILIZATION TIME
HAMMER	NA	HAMMER	2" Split Spoon	4 1/2" I.D. Augers	5/7/03	17.0'	2" PVC	
FALL	NA	FALL	140 lb		09:00	Top of Casing		
			30"					

SAMPLE					SAMPLE DESCRIPTION	STRATA CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED
	NO.	REC.	DEPTH	BLOWS				
70'	36	2.0'	70'-72'	3-4-8-5	Gray Silty CLAY, moist.	70'-72'	NR	
	37	1.1'	72'-74'	6-9-15-15	Same. (GLACIO LACUSTRINE)	72'-72.6'	NR	
75'	38	0.8'	74'-76'	35-30-18-90	Gray SILT and fine-med Sand, and fine-crs gravel, wet.	72.6'-73.1'	NR	
	39	0.8'	76'-78'	30-100/0.4'	Gray Silty CLAY, and (+) fine-crs Gravel (abundant shale fragments).	74'-74.8'	NR	
					Gray fine-crs gravel, and Silty Clay. (GLACIAL TILL OR WEATHERED BEDROCK)	76'-76.8'	NR	76.5'-77.0'
80'					END OF BORING TOTAL BORING DEPTH = 77.0' 4/30/03 12:15		0-61.6: Grout 61.6'-65.5': Bentonite Seal 65.0'-65.5': #00 Silica Choke Sand 65.5'-77.0': #0 Silica Filter Pack 0-66.5: 2" I.D. PVC Riser Pipe 66.5'-76.5': 2" I.D. PVC Well Screen (0.01" slot)	
85'								
90'								

WELL CONSTRUCTION LEGEND										
PROPORTIONS USED TRACE 0 TO 10% LITTLE 10 TO 20% SOME 20 TO 35% AND 35 TO 50%		PENETRATION RESISTANCE 140 LB WT FALLING 30" ON 2" O.D. SAMPLER COHESIONLESS DENSITY 0-4 VERY LOOSE 5-9 LOOSE 10-29 MED. DENSE 30-49 DENSE 50+ VERY DENSE		COHESIVE CONSISTENCY 0-2 VERY SOFT 3-4 SOFT 5-8 M/STIFF 9-15 STIFF 16-30 V-STIFF 31+ HARD		BENTONITE	CONCRETE	GROUT	SILICA SAND	NATURAL BACKFILL
					BEDROCK					

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:

NYSDEC/Miller Pond

PROJECT No.

96020

CLIENT:

NYSDEC Region 8 - Scott Rodabaugh

WELL No.

MW15

DATE COMPLETED:

12/11/97

SUPERVISED BY:

Chris Treese

REFERENCE POINT

Elevation/Depth: 855.19

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 2" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 8.25"TYPE OF FILL: Drill cuttingsTOP OF SEAL Elevation/Depth: 7.50'TYPE OF SEAL: BentoniteTOP OF FILTER PACK Elevation/Depth: 8.50'FILTER PACK MATERIAL: #1 SandTOP OF SCREEN Elevation/Depth: 9.50'SCREEN SIZE/TYPE: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 18.60'

BOTTOM OF FILTER PACK

Elevation/Depth: 19.10'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 19.10'

TYPE OF FILLER

BELOW PLUGGED BLANK: #1 Sand

BOTTOM OF BOREHOLE

Elevation/Depth: 19.10'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
 CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW16
 DATE COMPLETED: 12/11/97 SUPERVISED BY: Chris Treese

REFERENCE POINT

Elevation/Depth: 854.37

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 2" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 8.25"TYPE OF FILL: Drill cuttingsTOP OF SEAL Elevation/Depth: 7.50'TYPE OF SEAL: BentoniteTOP OF FILTER PACK Elevation/Depth: 8.50'FILTER PACK MATERIAL: #1 SandTOP OF SCREEN Elevation/Depth: 9.50'SCREEN SIZE/TYPE: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 20.00'

BOTTOM OF FILTER PACK

Elevation/Depth: 20.50'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 20.50'

TYPE OF FILLER

BELOW PLUGGED BLANK: #1 Sand

BOTTOM OF BOREHOLE

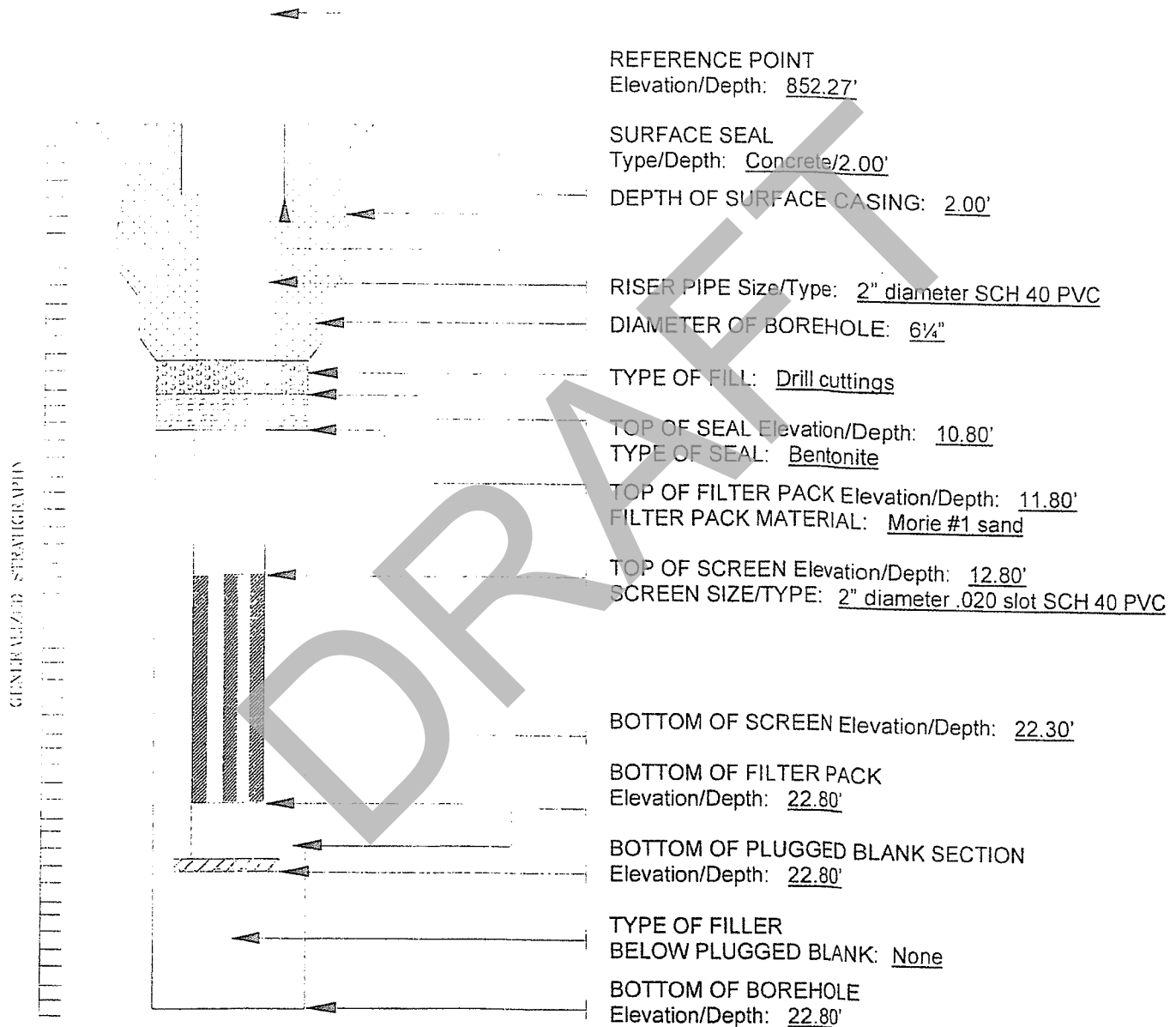
Elevation/Depth: 20.50'

GENERAL STRUCTURE

NOTES

WELL CONSTRUCTION DETAIL

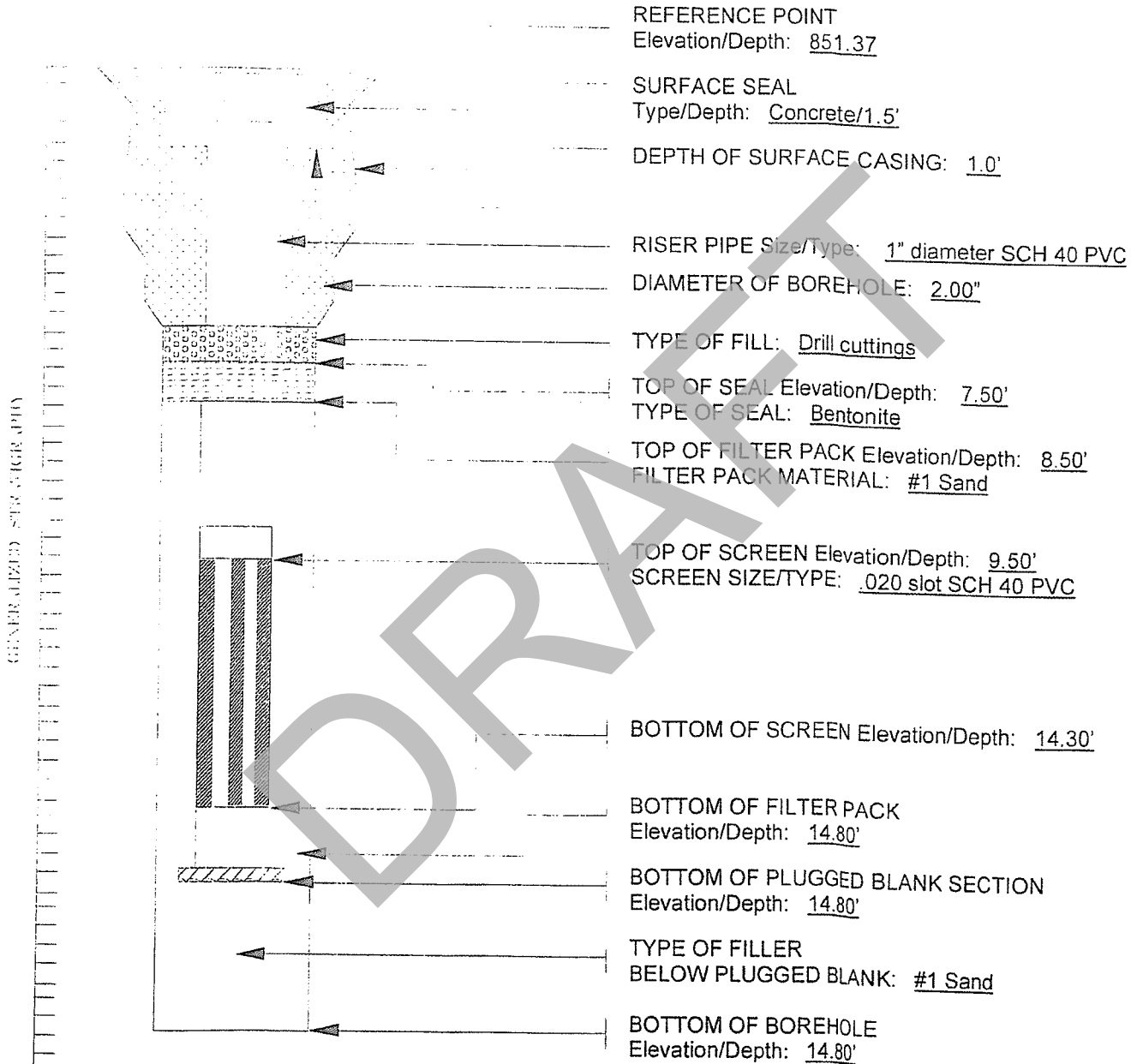
PROJECT/LOCATION:	NYSDEC/Miller Pond	PROJECT No.	96020
CLIENT:	NYSDEC Region 8 - Scott Rodabaugh	WELL No.	MW17
DATE COMPLETED:	12/12/97	SUPERVISED BY:	Chris Treese



NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
 CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW18
 DATE COMPLETED: 7/7/98 SUPERVISED BY: Chris Treese



NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	NYSDEC/Miller Pond	PROJECT No.	96020
CLIENT:	NYSDEC Region 8 - Scott Rodabaugh	WELL No.	MW19
DATE COMPLETED:	7/7/98	SUPERVISED BY:	Chris Treese

REFERENCE POINT
Elevation/Depth: 851.30

SURFACE SEAL
Type/Depth: Concrete/1.5'

DEPTH OF SURFACE CASING: 1.0'

RISER PIPE Size/Type: 1" diameter SCH 40 PVC

DIAMETER OF BOREHOLE: 2.00"

TYPE OF FILL: Drill cuttings

TOP OF SEAL Elevation/Depth: 7.50'

TYPE OF SEAL: Bentonite

TOP OF FILTER PACK Elevation/Depth: 8.50'

FILTER PACK MATERIAL: #1 Sand

TOP OF SCREEN Elevation/Depth: 9.50'

SCREEN SIZE/TYPE: .020 slot SCH 40 PVC

BOTTOM OF SCREEN Elevation/Depth: 20.15'

BOTTOM OF FILTER PACK
Elevation/Depth: 20.65'

BOTTOM OF PLUGGED BLANK SECTION
Elevation/Depth: 20.65'

TYPE OF FILLER
BELOW PLUGGED BLANK: #1 Sand

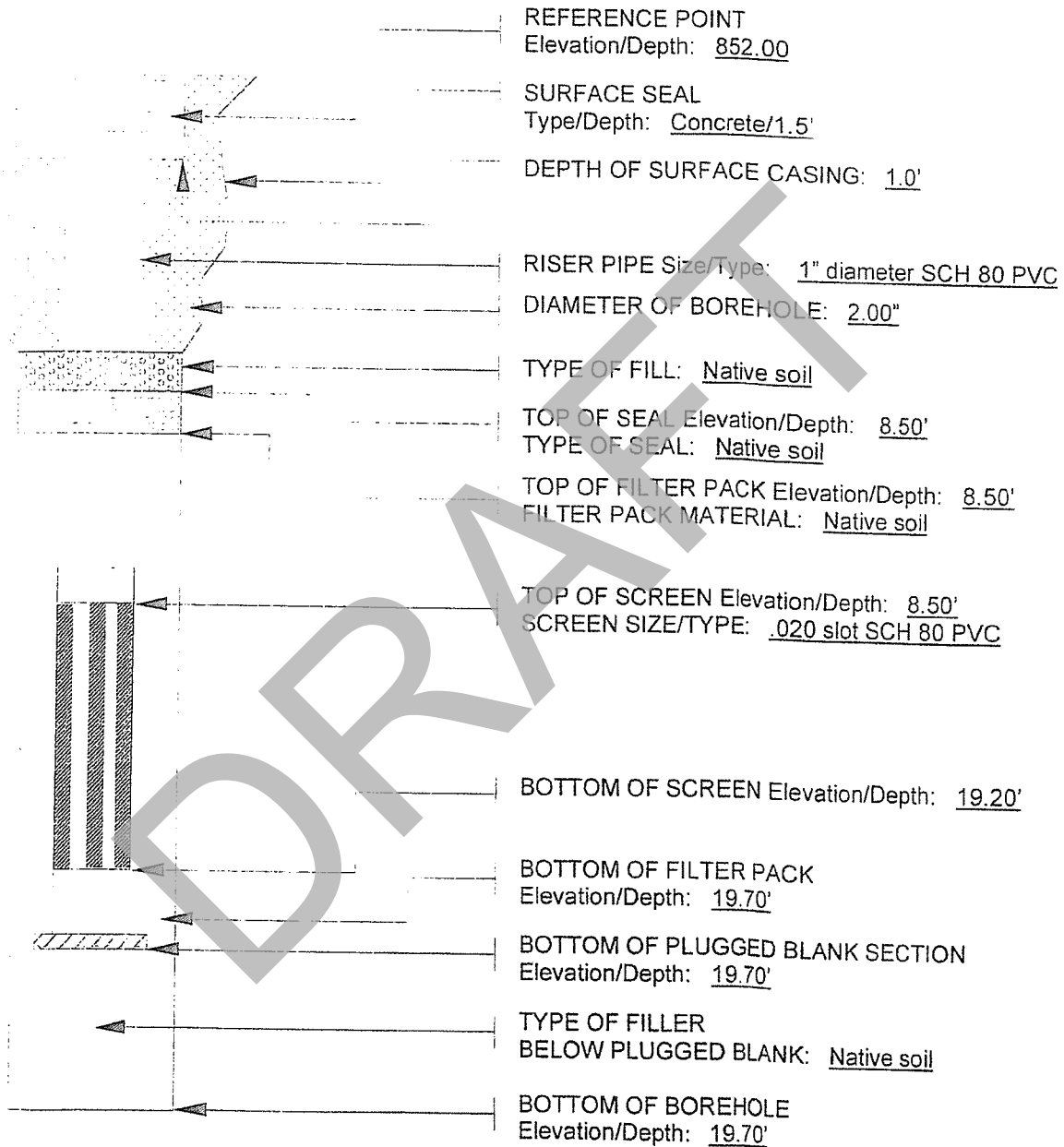
BOTTOM OF BOREHOLE
Elevation/Depth: 20.65'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
 CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW20
 DATE COMPLETED: 7/8/98 SUPERVISED BY: Chris Treese

GENERAL NOTES: SEE PLAN



NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:

NYSDEC/Miller Pond

PROJECT No.

96020

CLIENT:

NYSDEC Region 8 - Scott Rodabaugh

WELL No.

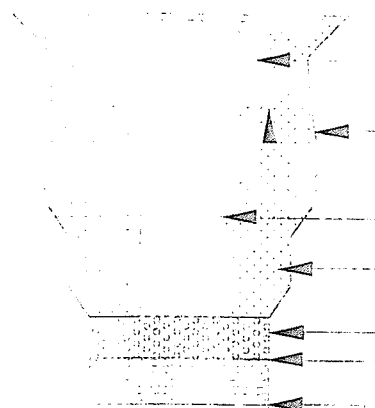
MW21

DATE COMPLETED:

7/16/98

SUPERVISED BY:

Chris Treese



REFERENCE POINT

Elevation/Depth: 852.83

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 1" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: Native soilTOP OF SEAL Elevation/Depth: 1.50'TYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: Native soilTOP OF SCREEN Elevation/Depth: 12.35'SCREEN SIZE/TYPE: .020 slot SCH 80 PVCBOTTOM OF SCREEN Elevation/Depth: 20.85'

BOTTOM OF FILTER PACK

Elevation/Depth: 21.35'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 21.35'

TYPE OF FILLER

BELOW PLUGGED BLANK: Native soil

BOTTOM OF BOREHOLE

Elevation/Depth: 21.35'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:	NYSDEC/Miller Pond	PROJECT No.	96020
CLIENT:	NYSDEC Region 8 - Scott Rodabaugh	WELL No.	MW22
DATE COMPLETED:	7/16/98	SUPERVISED BY:	Chris Treese

REFERENCE POINT

Elevation/Depth: 842.52

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 1" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: Native soilTOP OF SEAL Elevation/Depth: 1.50'TYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: Native soilTOP OF SCREEN Elevation/Depth: 11.60'SCREEN SIZE/TYPE: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 21.10'

BOTTOM OF FILTER PACK

Elevation/Depth: 21.60'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 21.60'

TYPE OF FILLER

BELOW PLUGGED BLANK: Native soil

BOTTOM OF BOREHOLE

Elevation/Depth: 21.60'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:

NYSDEC/Miller Pond

PROJECT No.

96020

CLIENT:

NYSDEC Region 8 - Scott Rodabaugh

WELL No.

MW23

DATE COMPLETED:

7/16/98

SUPERVISED BY:

Chris Treese

REFERENCE POINT

Elevation/Depth: 838.80

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 1" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: Native soilTOP OF SEAL Elevation/Depth: 1.50'TYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: Native soilTOP OF SCREEN Elevation/Depth: 8.70'SCREEN SIZE/TYPER: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 18.20'

BOTTOM OF FILTER PACK

Elevation/Depth: 18.70'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 18.70'

TYPE OF FILLER

BELOW PLUGGED BLANK: Native soil

BOTTOM OF BOREHOLE

Elevation/Depth: 18.70'

CONCRETE SURFACE SEAL

PLUGGED BLANK SECTION

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:

NYSDEC/Miller Pond

PROJECT No.

96-020

CLIENT:

NYSDEC Region 8 - Scott Rodabaugh

WELL No.

MW24

DATE COMPLETED:

7/16/98

SUPERVISED BY:

Chris Treese

REFERENCE POINT

Elevation/Depth: _____

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 1" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: Native soilTOP OF SEAL Elevation/Depth: 1.50'TYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: Native soilTOP OF SCREEN Elevation/Depth: 6.72'SCREEN SIZE/TYPE: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 16.22'BOTTOM OF FILTER PACK
Elevation/Depth: 16.72'BOTTOM OF PLUGGED BLANK SECTION
Elevation/Depth: 16.72'TYPE OF FILLER
BELOW PLUGGED BLANK: Native soilBOTTOM OF BOREHOLE
Elevation/Depth: 16.72'

NOTES

PROJECT/LOCATION:

NYSDEC/Miller Pond

PROJECT No.

96020

CLIENT:

NYSDEC Region 8 - Scott Rodabaugh

WELL No.

MW25

DATE COMPLETED:

7/17/98

SUPERVISED BY:

Chris Treese

REFERENCE POINT

Elevation/Depth: 841.16

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 1" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: Native soilTOP OF SEAL Elevation/Depth: 1.50'TYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: Native soilTOP OF SCREEN Elevation/Depth: 9.25'SCREEN SIZE/TYPE: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 18.75'

BOTTOM OF FILTER PACK

Elevation/Depth: 19.25'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 19.25'

TYPE OF FILLER

BELOW PLUGGED BLANK: Native soil

BOTTOM OF BOREHOLE

Elevation/Depth: 19.25'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
 CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW26
 DATE COMPLETED: 7/17/98 SUPERVISED BY: Chris Treese

REFERENCE POINT
 Elevation/Depth: 843.44

SURFACE SEAL
 Type/Depth: Concrete/1.5'

DEPTH OF SURFACE CASING: 1.0'

RISER PIPE Size/Type: 1" diameter SCH 40 PVC

DIAMETER OF BOREHOLE: 2.00"

TYPE OF FILL: Native soil

TOP OF SEAL Elevation/Depth: 1.50'

TYPE OF SEAL: None

TOP OF FILTER PACK Elevation/Depth: 1.50'

FILTER PACK MATERIAL: Native soil

TOP OF SCREEN Elevation/Depth: 7.05'

SCREEN SIZE/TYPE: .020 slot SCH 40 PVC

BOTTOM OF SCREEN Elevation/Depth: 16.55'

BOTTOM OF FILTER PACK
 Elevation/Depth: 17.05'

BOTTOM OF PLUGGED BLANK SECTION
 Elevation/Depth: 17.05'

TYPE OF FILLER
 BELOW PLUGGED BLANK: Native soil

BOTTOM OF BOREHOLE
 Elevation/Depth: 17.05'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION: NYSDEC/Miller Pond PROJECT No. 96020
CLIENT: NYSDEC Region 8 - Scott Rodabaugh WELL No. MW27
DATE COMPLETED: 7/17/98 SUPERVISED BY: Chris Treese

REFERENCE POINT

Elevation/Depth: 840.38

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 1" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: Native soilTOP OF SEAL Elevation/Depth: 1.50'TYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: Native soilTOP OF SCREEN Elevation/Depth: 6.30'SCREEN SIZE/TYPE: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 15.80'

BOTTOM OF FILTER PACK

Elevation/Depth: 16.30'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 16.30'

TYPE OF FILLER

BELOW PLUGGED BLANK: Native soil

BOTTOM OF BOREHOLE

Elevation/Depth: 16.30'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:

NYSDEC/Miller Pond

PROJECT No.

96020

CLIENT:

NYSDEC Region 8 - Scott Rodabaugh

WELL No.

MW28

DATE COMPLETED:

7/17/98

SUPERVISED BY:

Chris Treese

REFERENCE POINT

Elevation/Depth: 851.30

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 1" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: Native soilTOP OF SEAL Elevation/Depth: 1.50'TYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: Native soilTOP OF SCREEN Elevation/Depth: 12.00'SCREEN SIZE/TYPE: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 21.50'

BOTTOM OF FILTER PACK

Elevation/Depth: 22.00'

BOTTOM OF PLUGGED BLANK SECTION

Elevation/Depth: 22.00'

TYPE OF FILLER

BELOW PLUGGED BLANK: Native soil

BOTTOM OF BOREHOLE

Elevation/Depth: 22.00'

NOTES

WELL CONSTRUCTION DETAIL

PROJECT/LOCATION:

NYSDEC/Miller Pond

PROJECT No.

96020

CLIENT:

NYSDEC Region 8 - Scott Rodabaugh

WELL No.

MW29

DATE COMPLETED:

7/17/98

SUPERVISED BY:

Chris Treese

REFERENCE POINT

Elevation/Depth: 851.46

SURFACE SEAL

Type/Depth: Concrete/1.5'DEPTH OF SURFACE CASING: 1.0'RISER PIPE Size/Type: 1" diameter SCH 40 PVCDIAMETER OF BOREHOLE: 2.00"TYPE OF FILL: Native soilTOP OF SEAL Elevation/Depth: 1.50'TYPE OF SEAL: NoneTOP OF FILTER PACK Elevation/Depth: 1.50'FILTER PACK MATERIAL: Native soilTOP OF SCREEN Elevation/Depth: 11.90'SCREEN SIZE/TYPER: .020 slot SCH 40 PVCBOTTOM OF SCREEN Elevation/Depth: 21.40'BOTTOM OF FILTER PACK
Elevation/Depth: 21.90'BOTTOM OF PLUGGED BLANK SECTION
Elevation/Depth: 21.90'

TYPE OF FILLER

BELOW PLUGGED BLANK: Native soilBOTTOM OF BOREHOLE
Elevation/Depth: 21.90'

NOTES

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-42
Drilling Company: Cascade
Driller: Zoc Fordley, Rich Reagan
Geologist/Engineer: M. Zhang
Casing Installation Date: 3/1/2016

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): N/A

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 3/1/2016
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 1 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 3/1/16

Diameter: 8.5 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 3/1/2016 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 3/1/2016 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: DPS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 1.5 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Filpro
Amount Used: 7 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

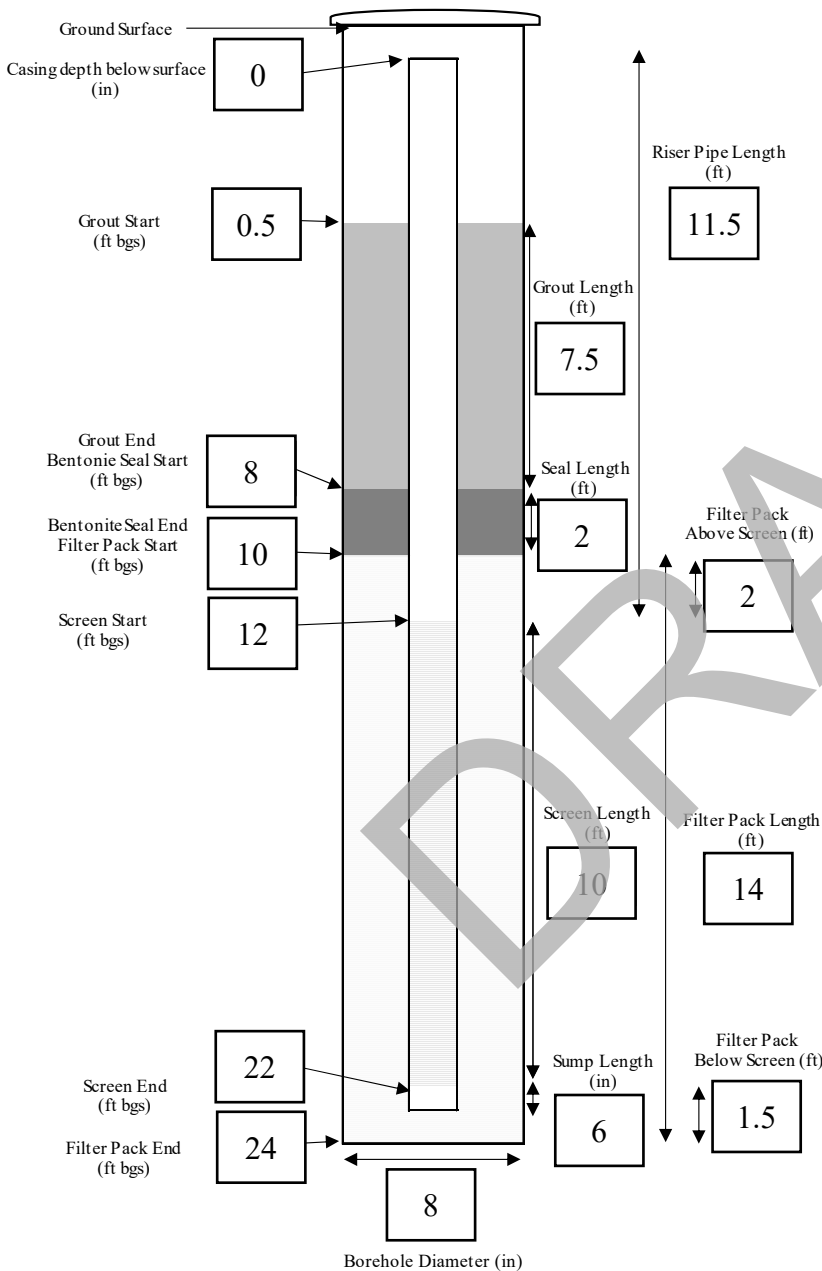
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons



Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-43
Drilling Company: Cascade
Driller: Zac Fordley, Rich Reagan
Geologist/Engineer: M. Zhang
Casing Installation Date: 3/1/2016

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 851.81

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 3/1/2016
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 1 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 3/1/2016

Diameter: 12 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 3/1/2016 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 3/1/2016 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: DPS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 1.5 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Filpro
Amount Used: 9 ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

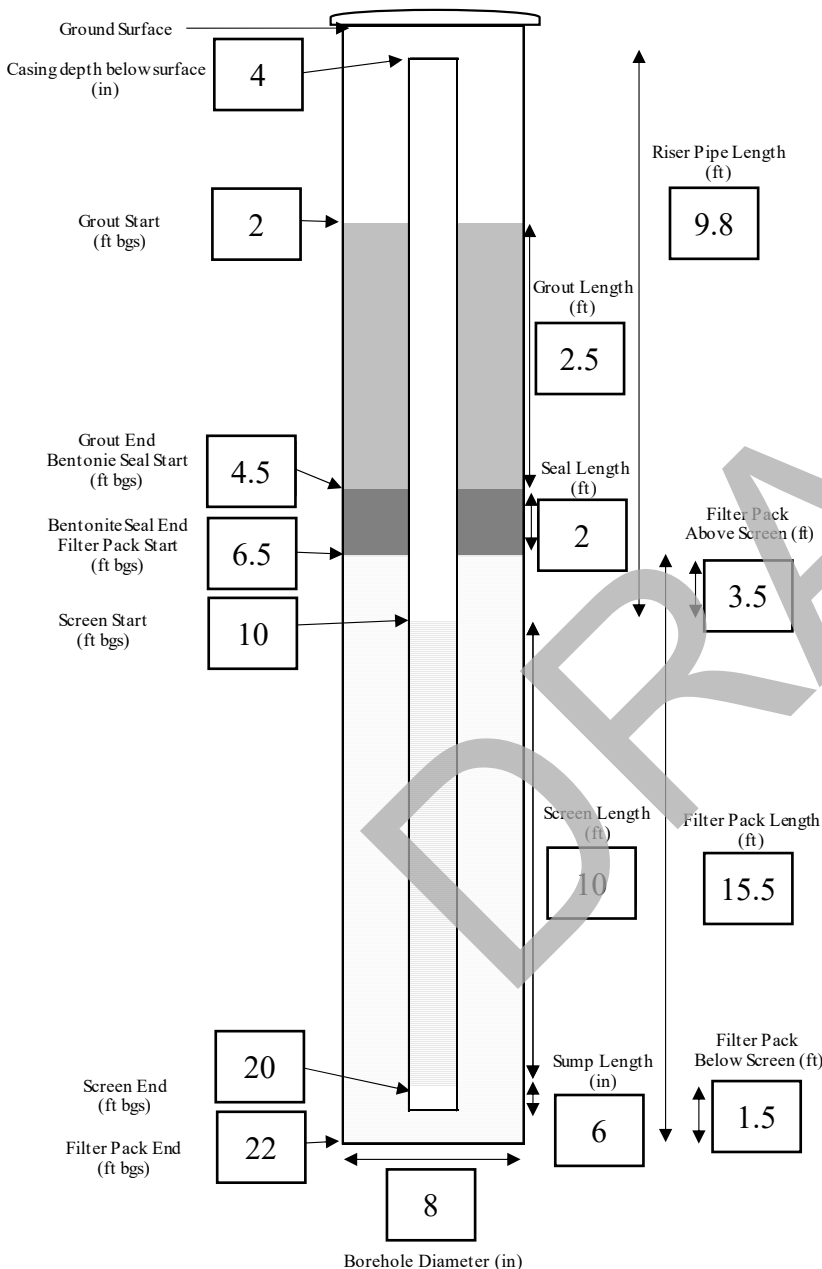
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons



Comments:

Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-44
Drilling Company: Cascade
Driller: Zac Fordley, Dan Bubniak
Geologist/Engineer: M. Zhang
Casing Installation Date: 2/29/2016

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): N/A

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 3/1/2016
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 1 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 2/29/16

Diameter: 8.5 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 2/29/2016 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 2/29/2016 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: DPS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 2 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Filpro
Amount Used: 8 ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

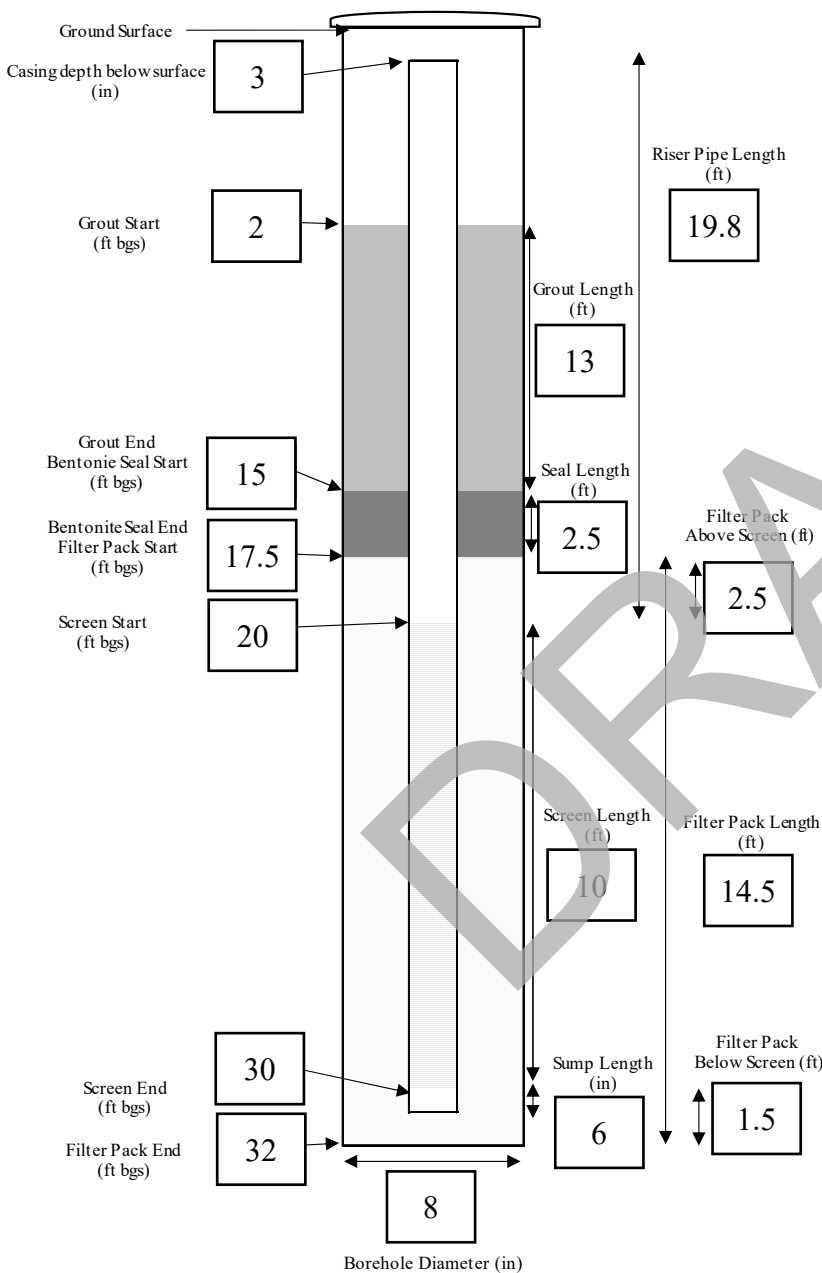
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons



Comments:

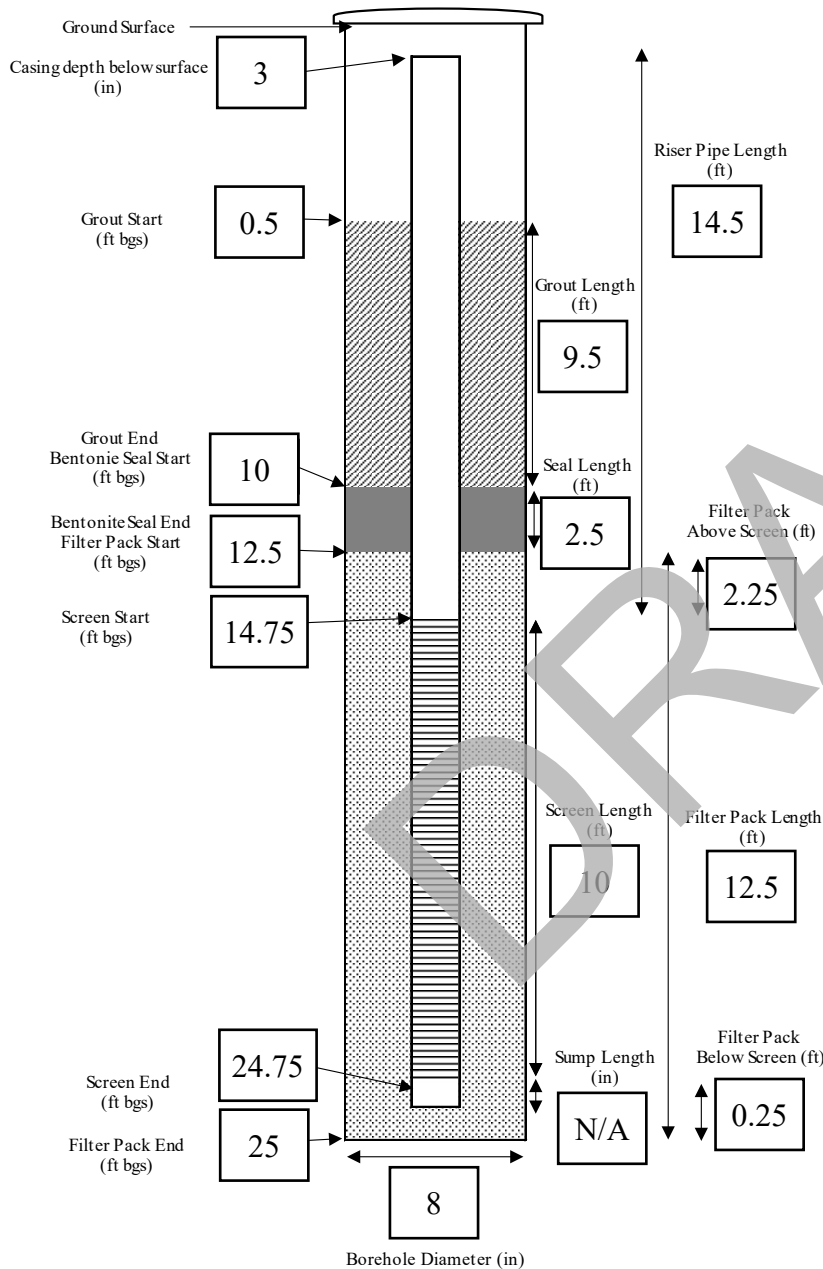
Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-46
Drilling Company: Zebra
Driller: JH/JD
Geologist/Engineer: KWH
Casing Installation Date: 8/30/2016

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): N/A



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/31/2016
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 0.5 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/31/16

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/30/2016 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 8/30/2016 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: DPS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 5 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Filpro
Amount Used: 5 ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 5 gallons Recovered: 0 gallons

Comments:

Notes:

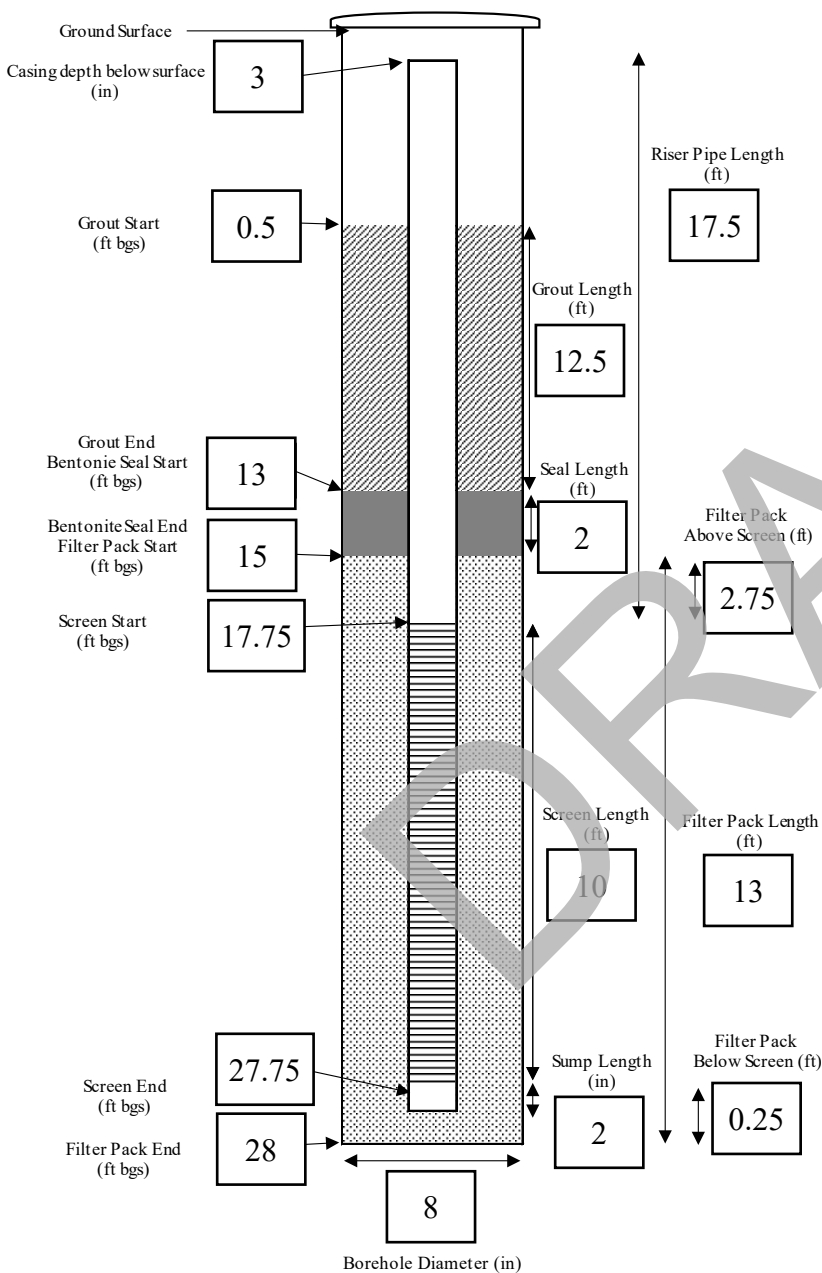
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-47
Drilling Company: Zebra
Driller: JH/JD
Geologist/Engineer: KWH
Casing Installation Date: 8/29/2016

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.13



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 0.5 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/30/16

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 8/29/2016 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 8/29/2016 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: DPS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 5 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Filpro
Amount Used: 4 ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 5 gallons Recovered: 0 gallons

Comments:

Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-47I
Drilling Company: Cascade
Driller: Rich, Yusef
Geologist/Engineer: A. Waheed
Casing Installation Date: 8/24/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.03

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/24/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/24/21

Diameter: 6 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/24/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 8/24/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: N/A ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: 6 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

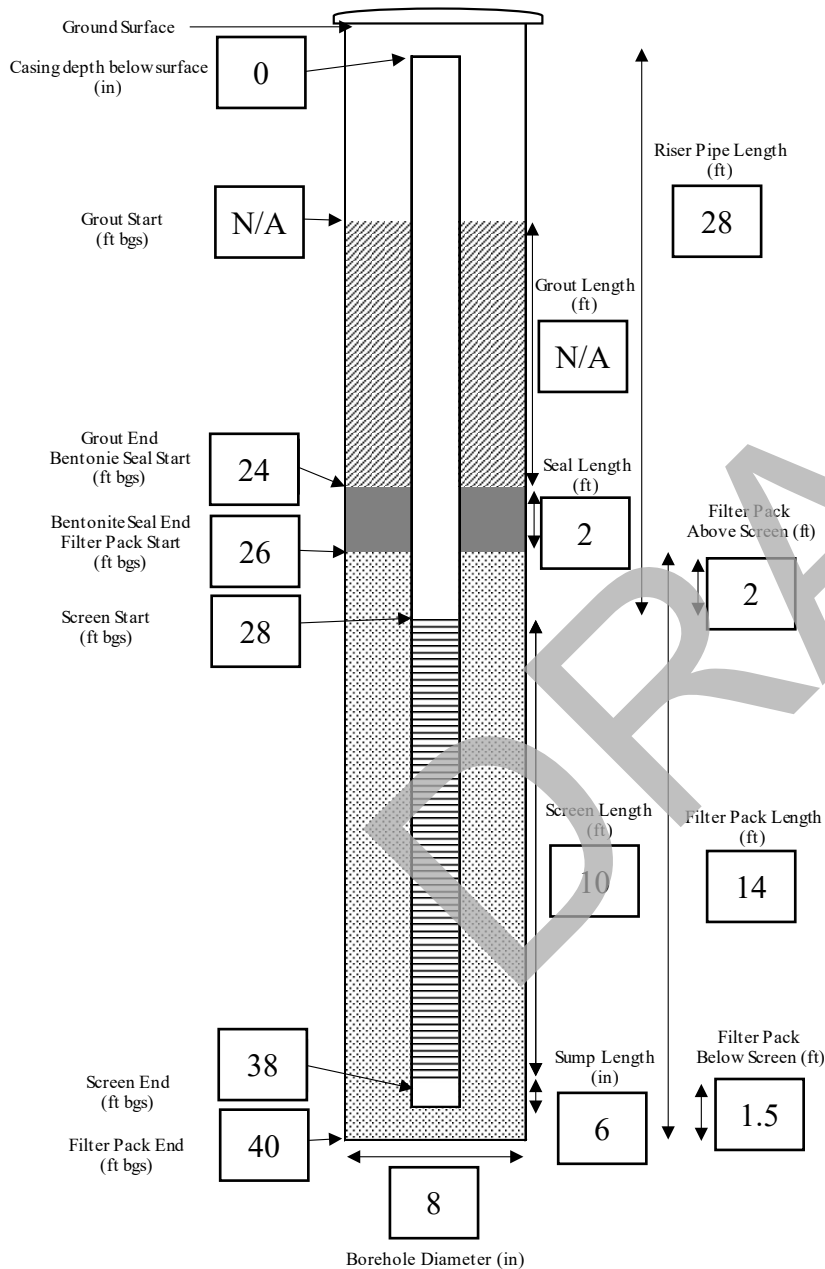
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons



Comments:

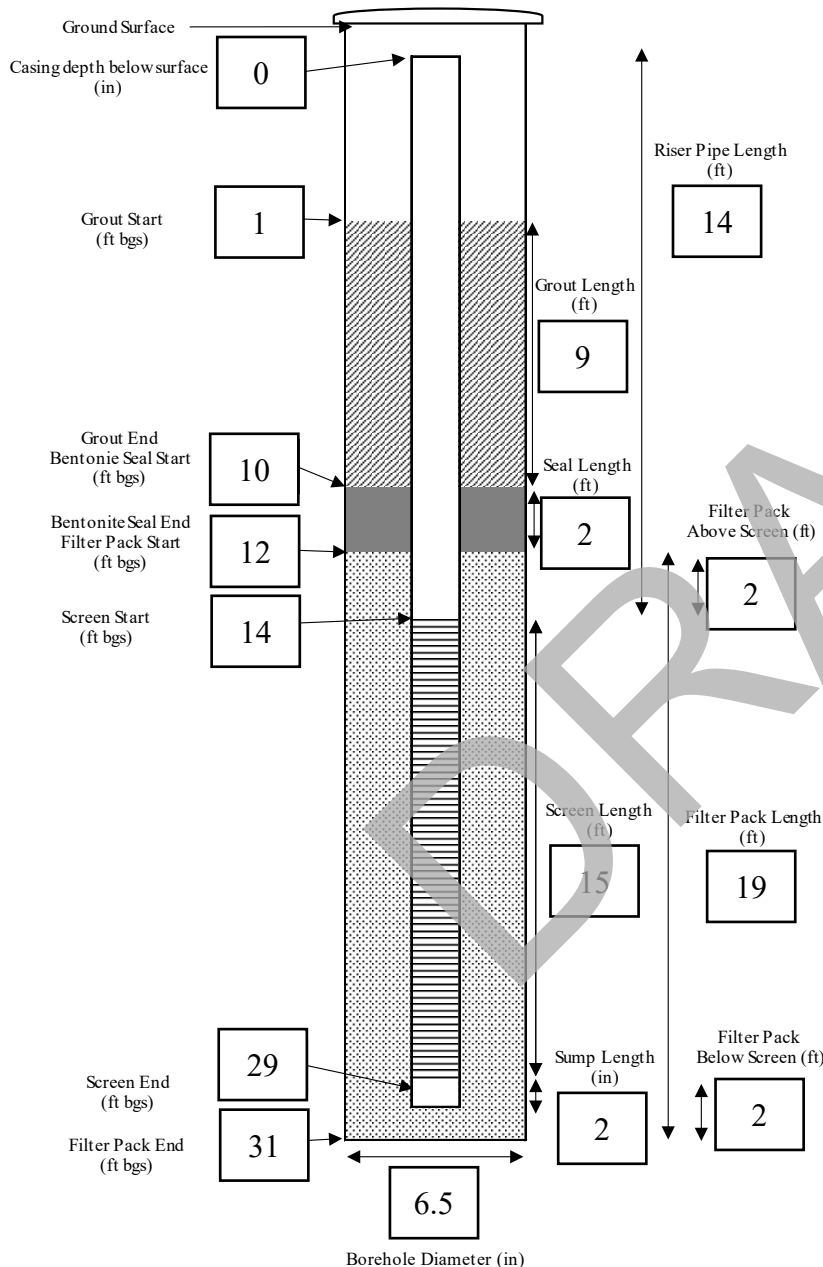
Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-48
Drilling Company: Cascade
Driller: N/A
Geologist/Engineer: K.K.
Casing Installation Date: 1/22/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.00



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/22/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/22/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/22/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/22/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Ceto Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3.5 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

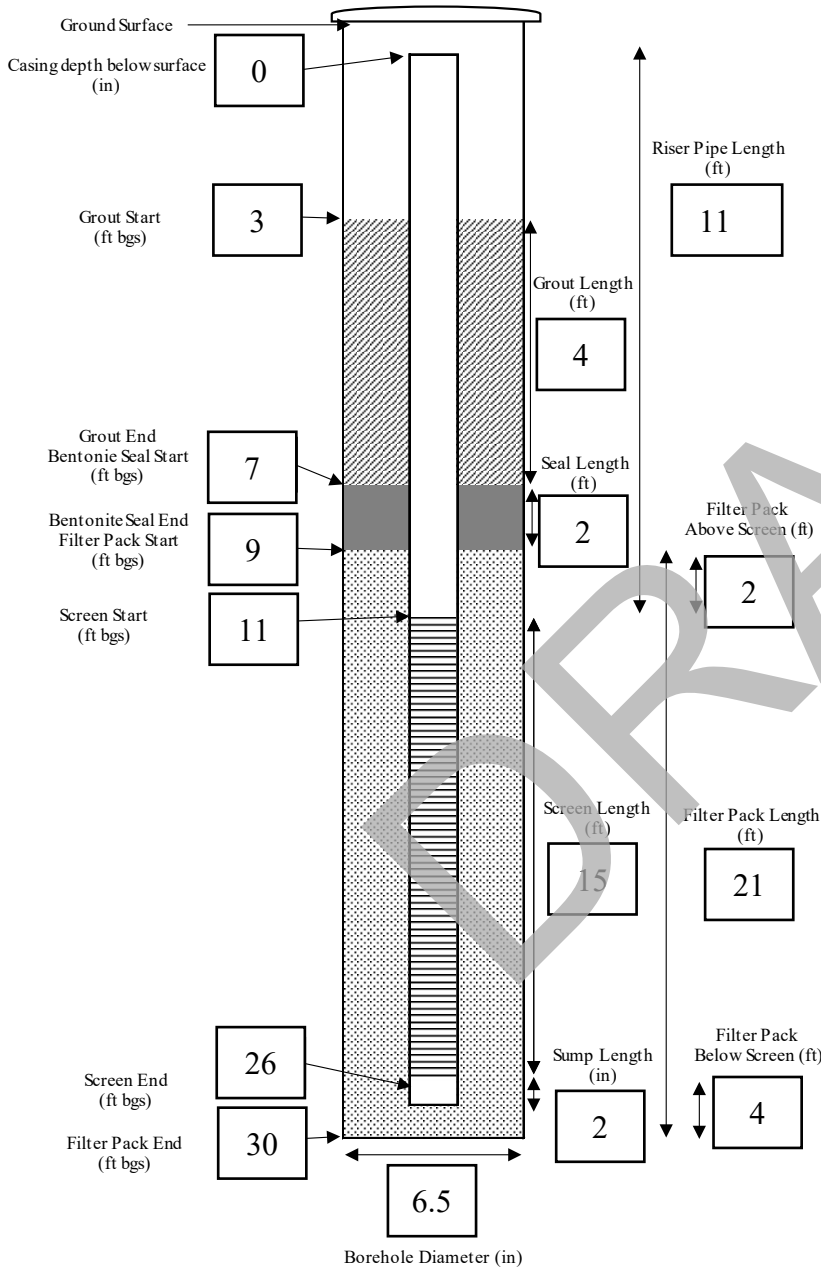
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-48R
Drilling Company: Parratt Wolff
Driller: Jeromy Dube
Geologist/Engineer: E.Gardner
Casing Installation Date: 7/25/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.3



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed:

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/25/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand:
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/25/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 70 gallons Recovered: 140 gallons

Comments: Surface completion pending

Notes:

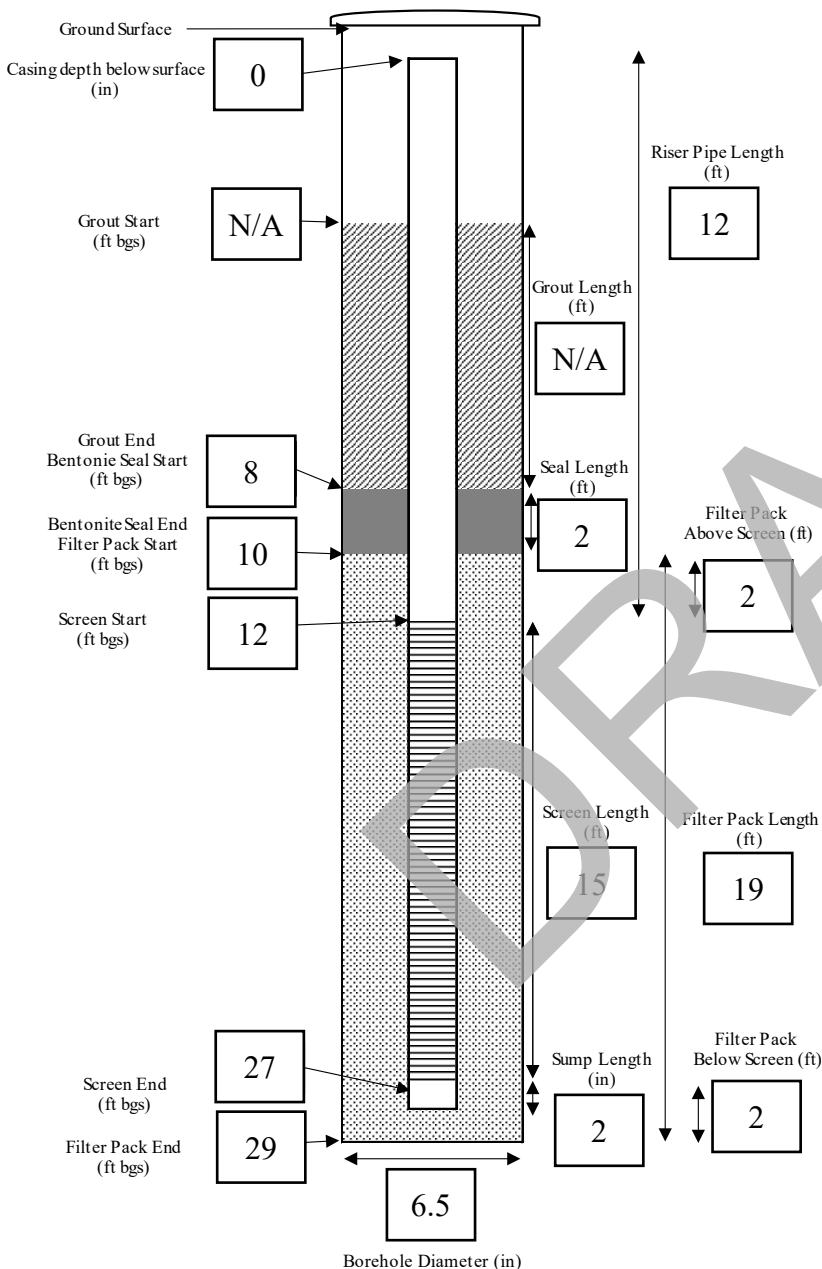
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-49
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A.Jennings
Casing Installation Date: 2/5/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.05



Well Completion

Guard Posts/Bollards: ☐ Yes ☐ No Date Installed: 2/5/2021
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 2/5/21

Diameter: N/A inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 2/5/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 2/5/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 20 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 4 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

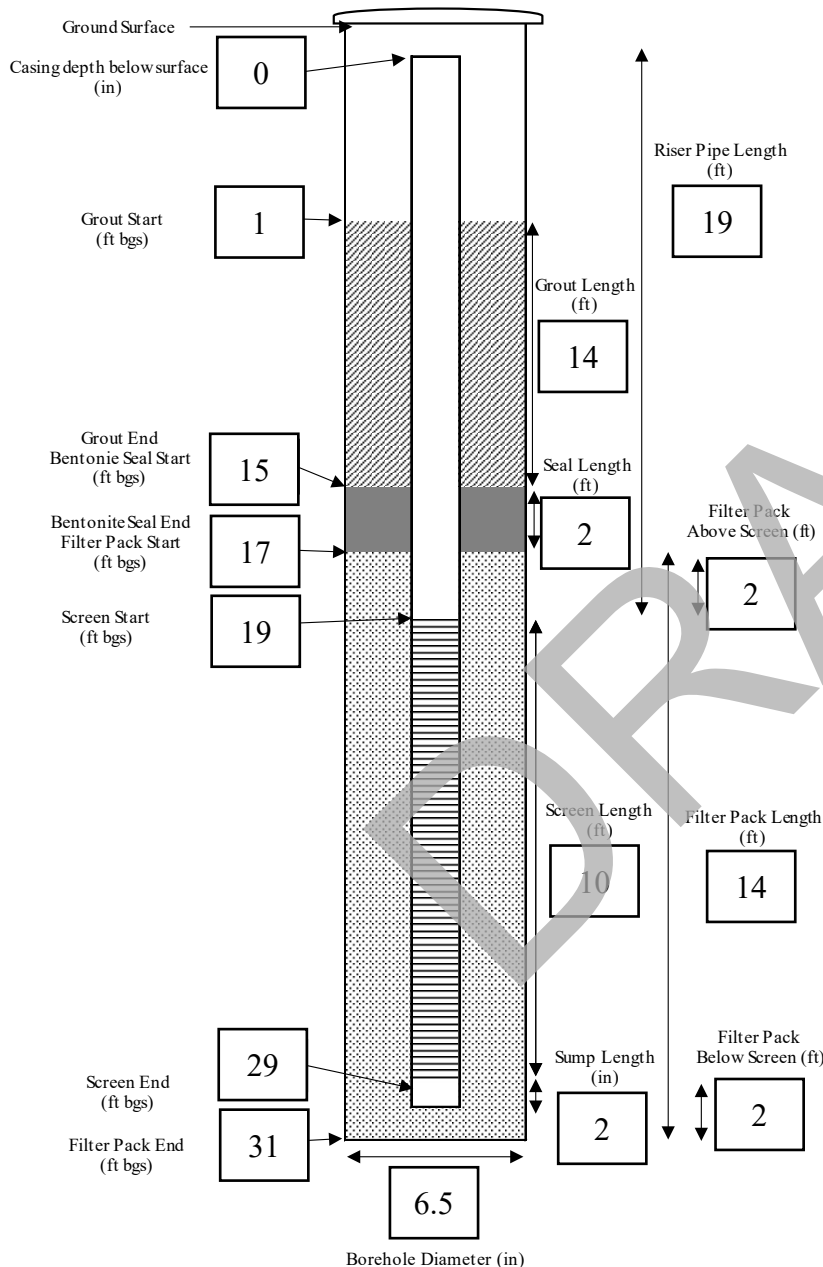
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-50I
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 1/21/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.61



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/22/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/22/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/22/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/21/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Ceto Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments: Sump includes 2' of sand and 4' of bentonite

Notes:

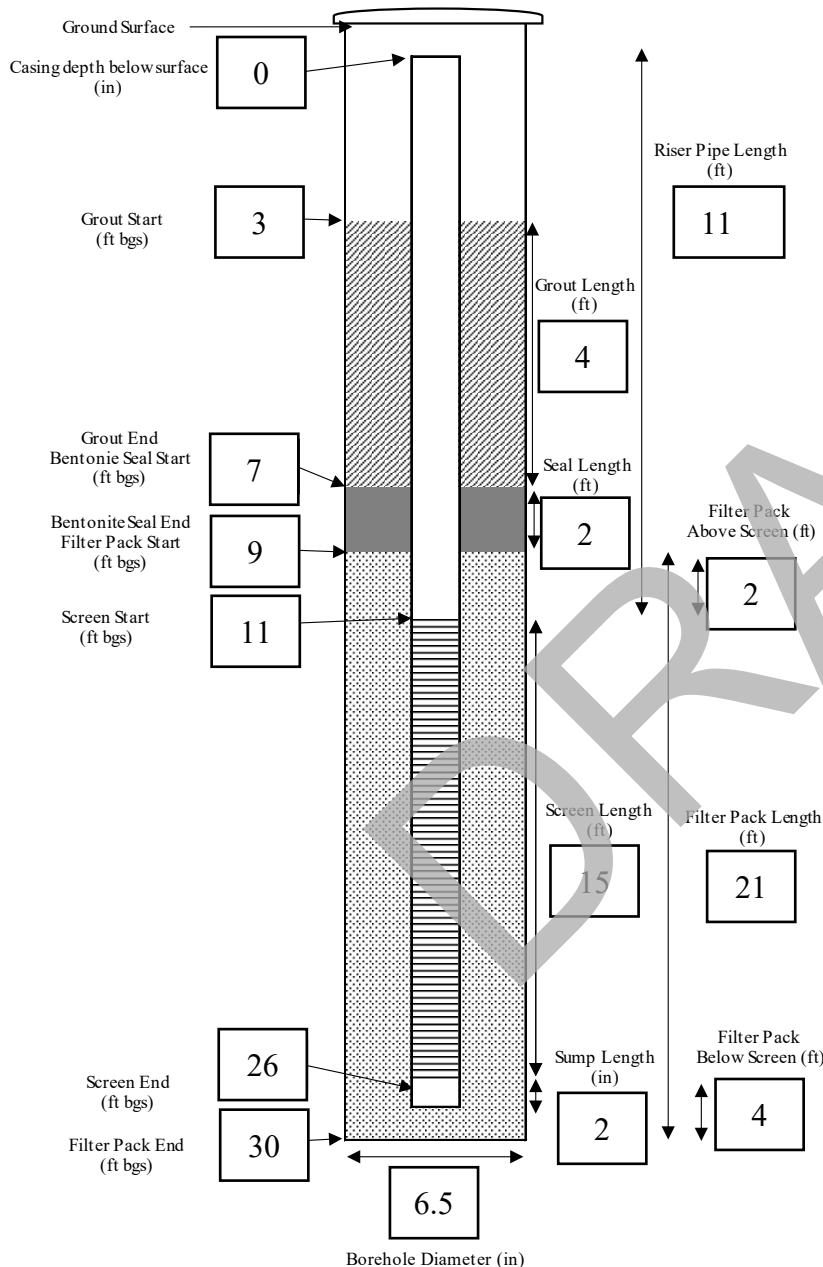
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-50R
Drilling Company: Parratt Wolff
Driller: Jeromy Dube
Geologist/Engineer: A.Hayes
Casing Installation Date: 07/26/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.42



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/26/23

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/26/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/26/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 200 gallons

Comments:

Notes:

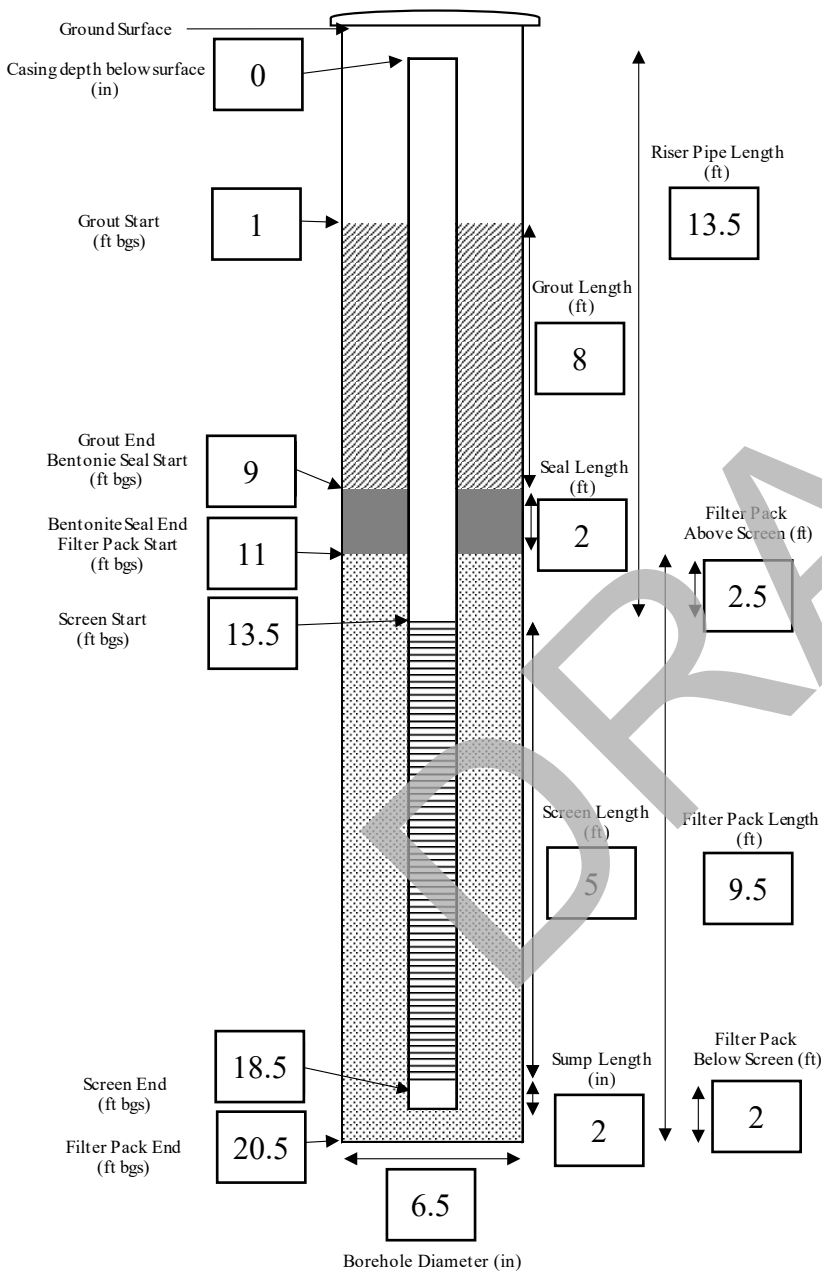
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-50S
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 1/21/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.61



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/22/2021
Pad Shape: ☒ Square ☒ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/22/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/22/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/21/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Ceto Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

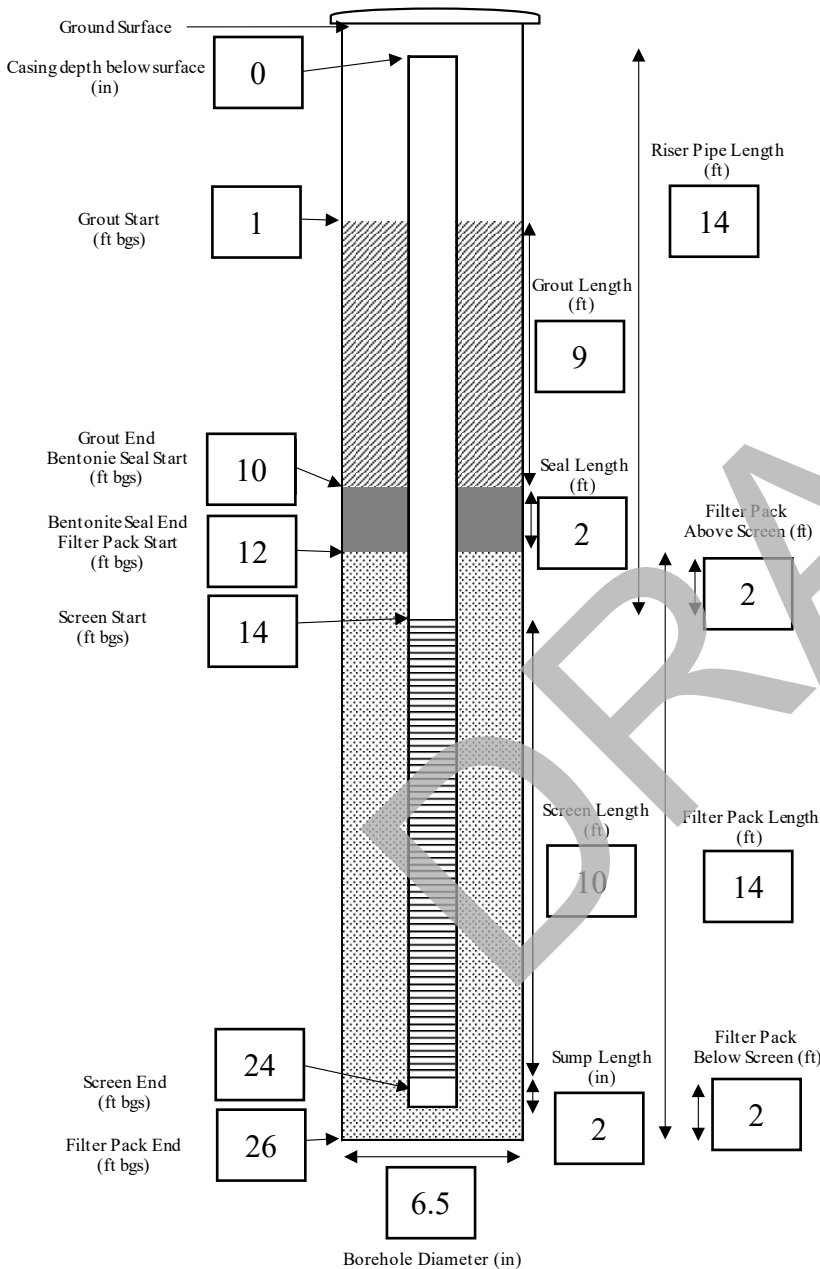
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-51
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 1/20/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.67



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/22/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/22/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/22/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/21/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 4 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments: Sump includes 2' of sand and 6' of bentonite

Notes:

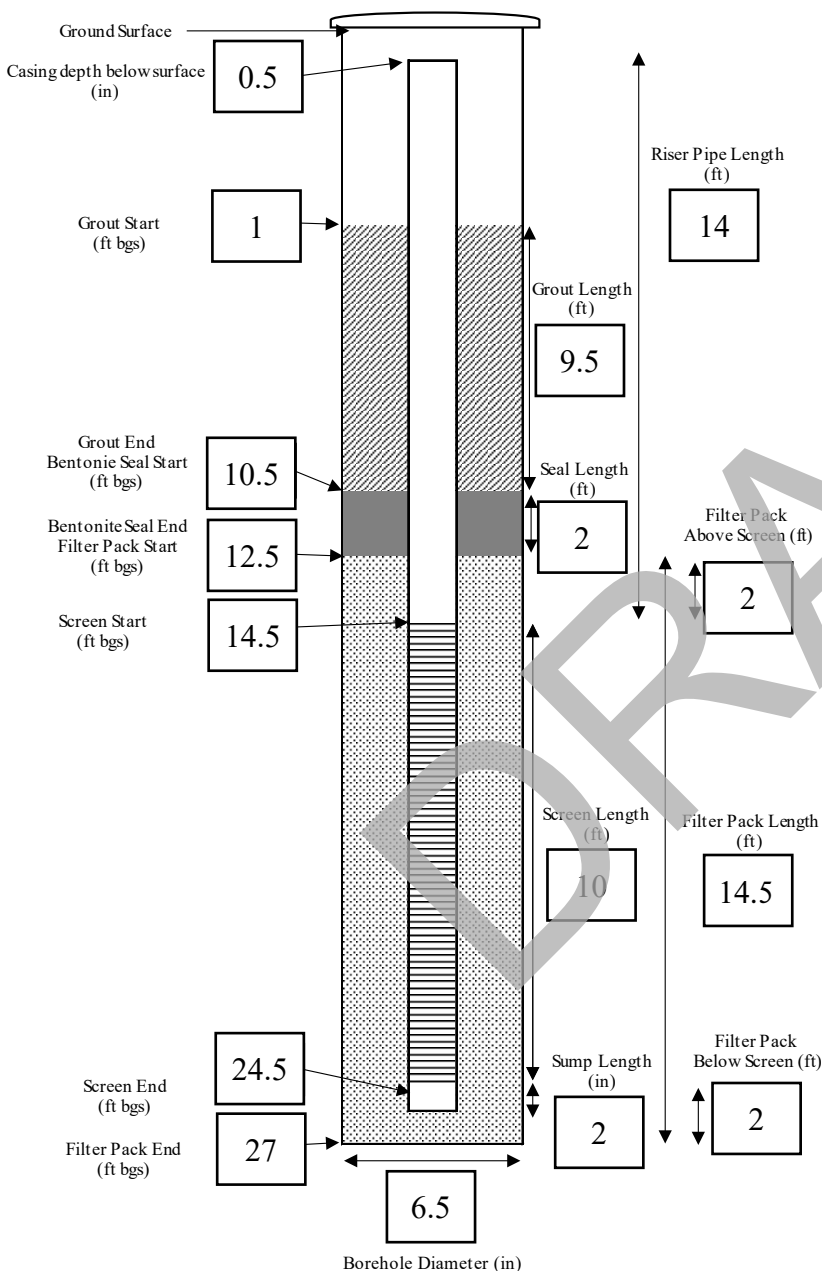
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-52
Drilling Company: Cascade
Driller: Rich, Roger
Geologist/Engineer: S. Perdziola
Casing Installation Date: 1/20/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.73



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/20/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/20/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/20/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/20/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☐ 30 Minutes ☒ Other: overnight
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 1 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Filpro
Amount Used: ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments: Clay aquitard at 24' bgs / 4.5" ID / 6.5" OD HSA

Notes:

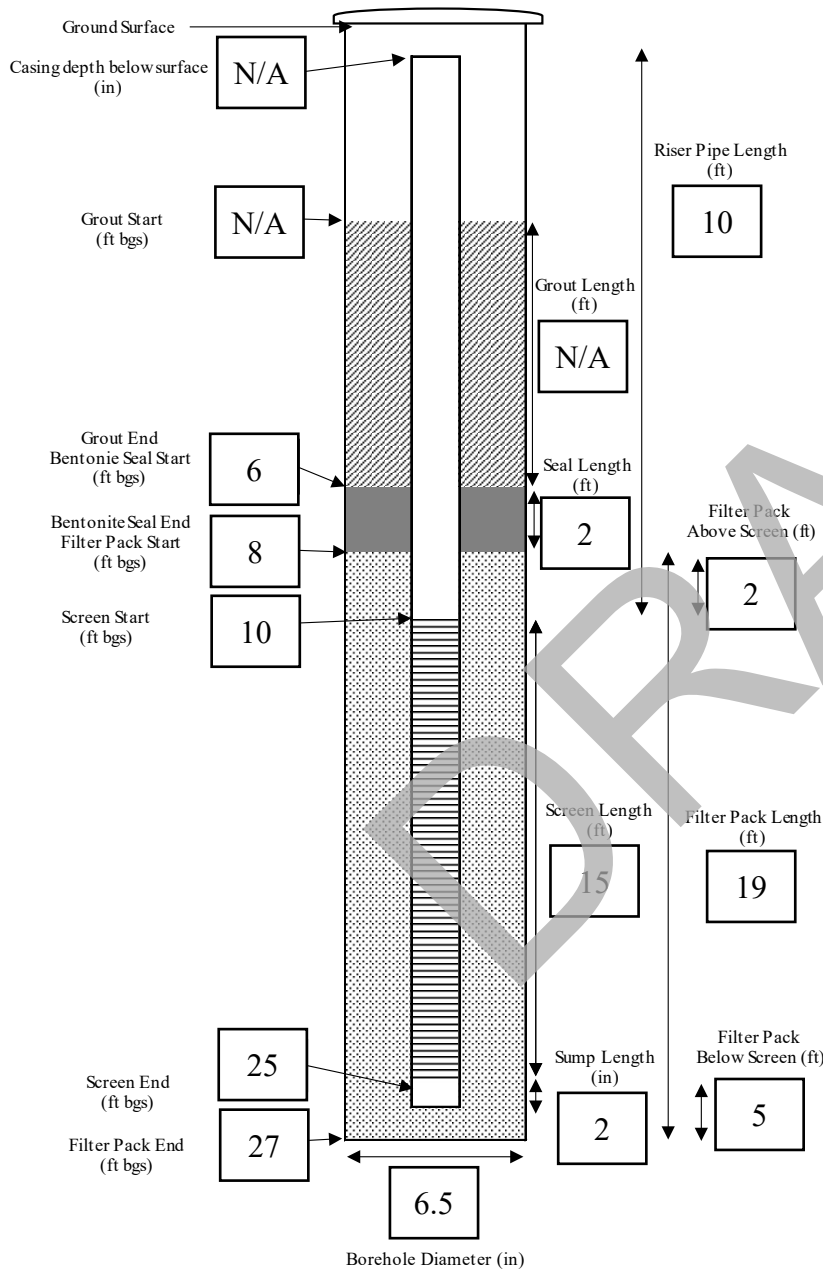
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-53
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A.Jennings
Casing Installation Date: 2/5/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.11



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 2/5/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 2/5/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 2/5/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 2/5/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other: overnight
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 1 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 4 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments: Sump includes 2' sand and 3' of bentonite

Notes:

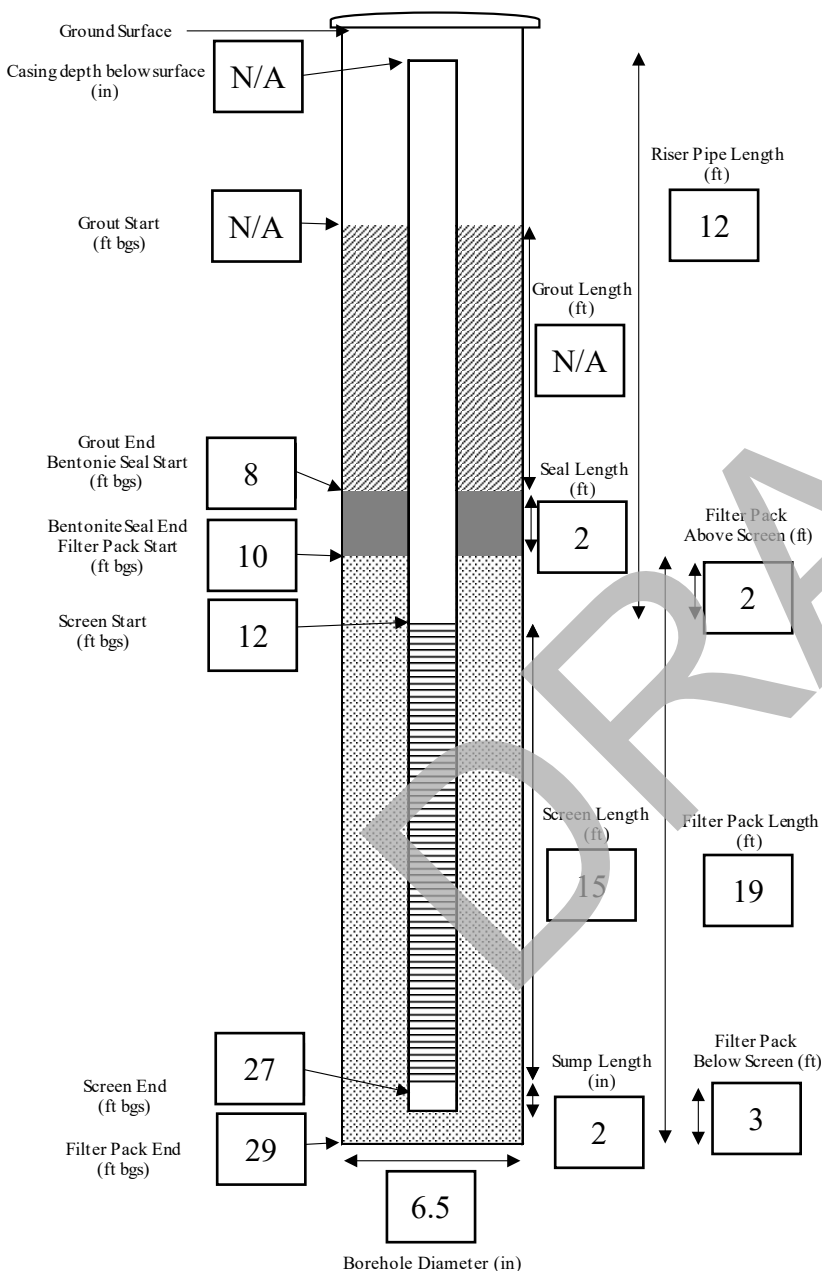
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-54
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: N/A
Casing Installation Date: 2/4/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.11



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 2/4/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 2/4/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 2/4/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 2/5/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other: overnight
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 20 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 4 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

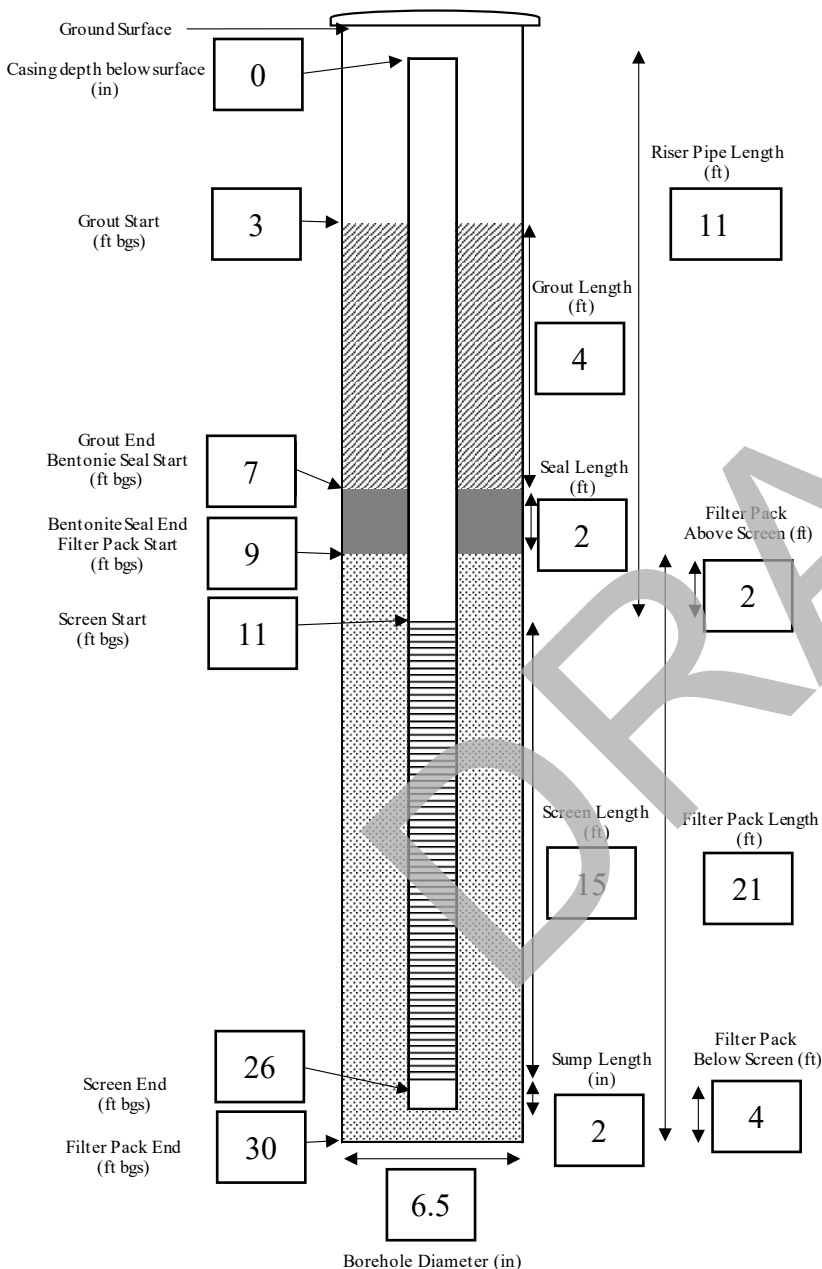
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-54R
Drilling Company: Parratt Wolff
Driller: Jeromy Dube
Geologist/Engineer: A.Hayes
Casing Installation Date: 07/25/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 857.37



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/25/23

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/25/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/25/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 70 gallons Recovered: 120 gallons

Comments:

Notes:

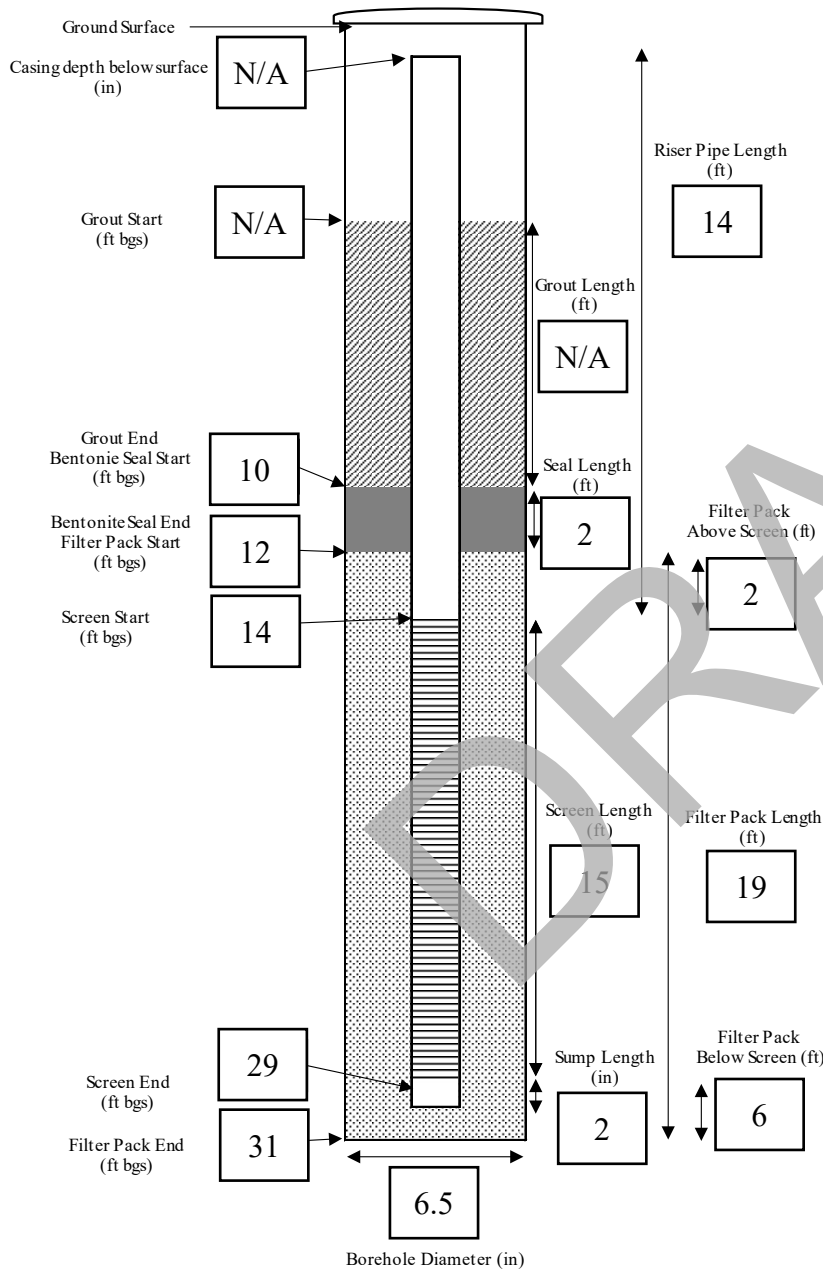
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-55
Drilling Company: Cascade
Driller: N/A
Geologist/Engineer: N/A
Casing Installation Date: 2/3/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.33



Well Completion

Guard Posts/Bollards: ☐ Yes ☐ No Date Installed: N/A
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☐ No Date Installed: N/A

Diameter: _ inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: N/A Time Placed: _____
Composition/Proportions: ☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other: _____

Seal – Date Placed: N/A Time Placed: _____
Type: ☒ 3/8" Bentonite Chips ☐ Other: _____
Source/Brand: N/A
Set-up/Hydration Time: ☐ 30 Minutes ☐ Other: overnight
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Vol. Fluid Added: N/A ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other: _____
Source/Brand: Holliston
Amount Used: 4 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other: _____

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other: _____
Screen Slot Size: ☒ 0.010-inch ☐ Other: _____
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments

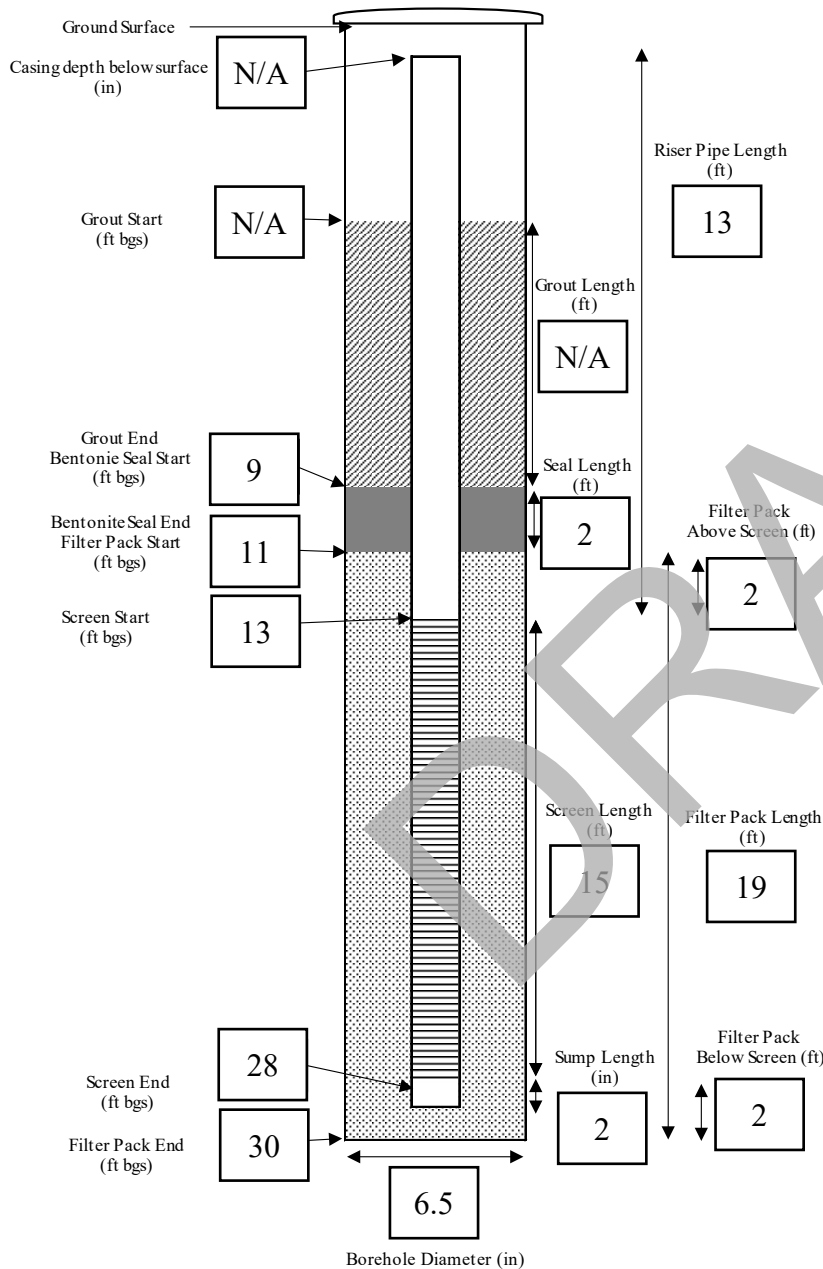
Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-56
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 2/8/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.16



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 2/8/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 2/8/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 2/8/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 2/8/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other: overnight
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 20 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

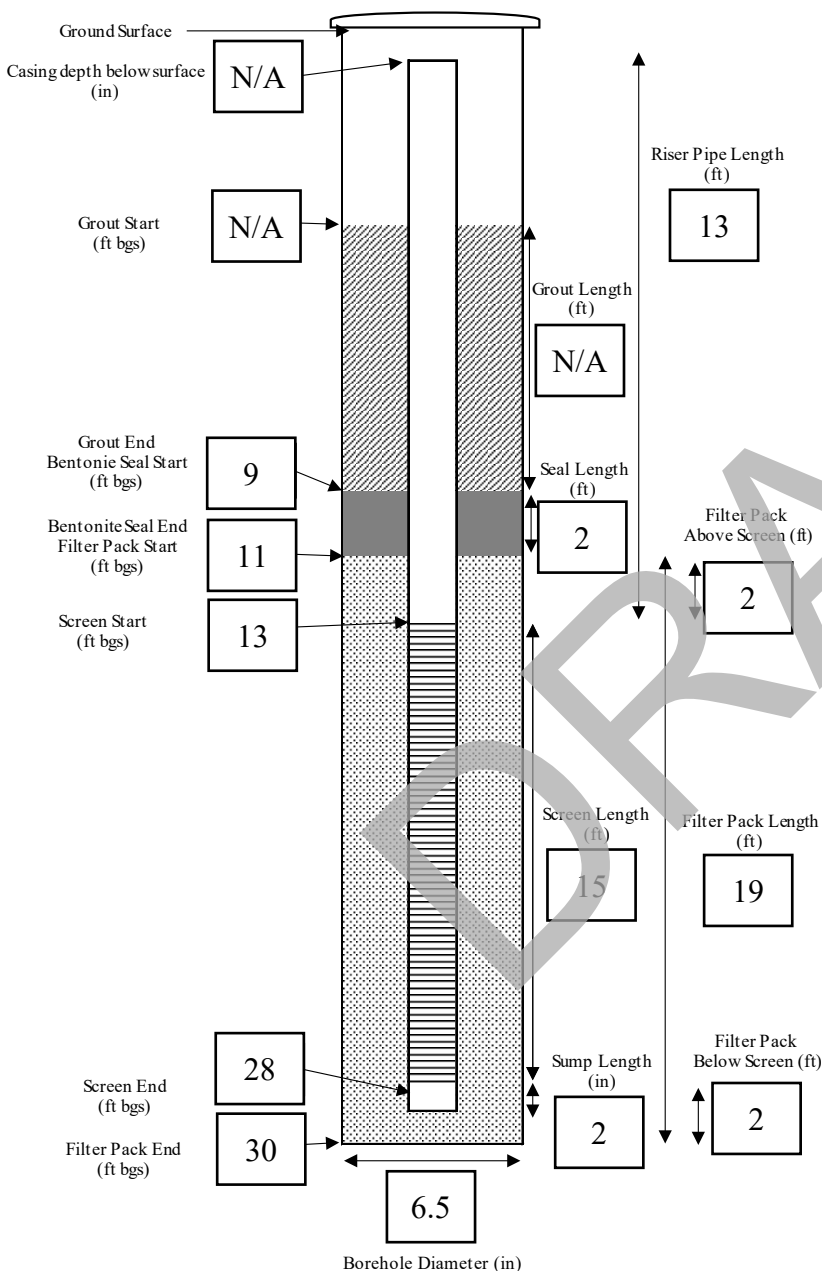
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-57
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 2/8/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.36



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 2/8/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 2/8/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 2/8/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 2/8/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

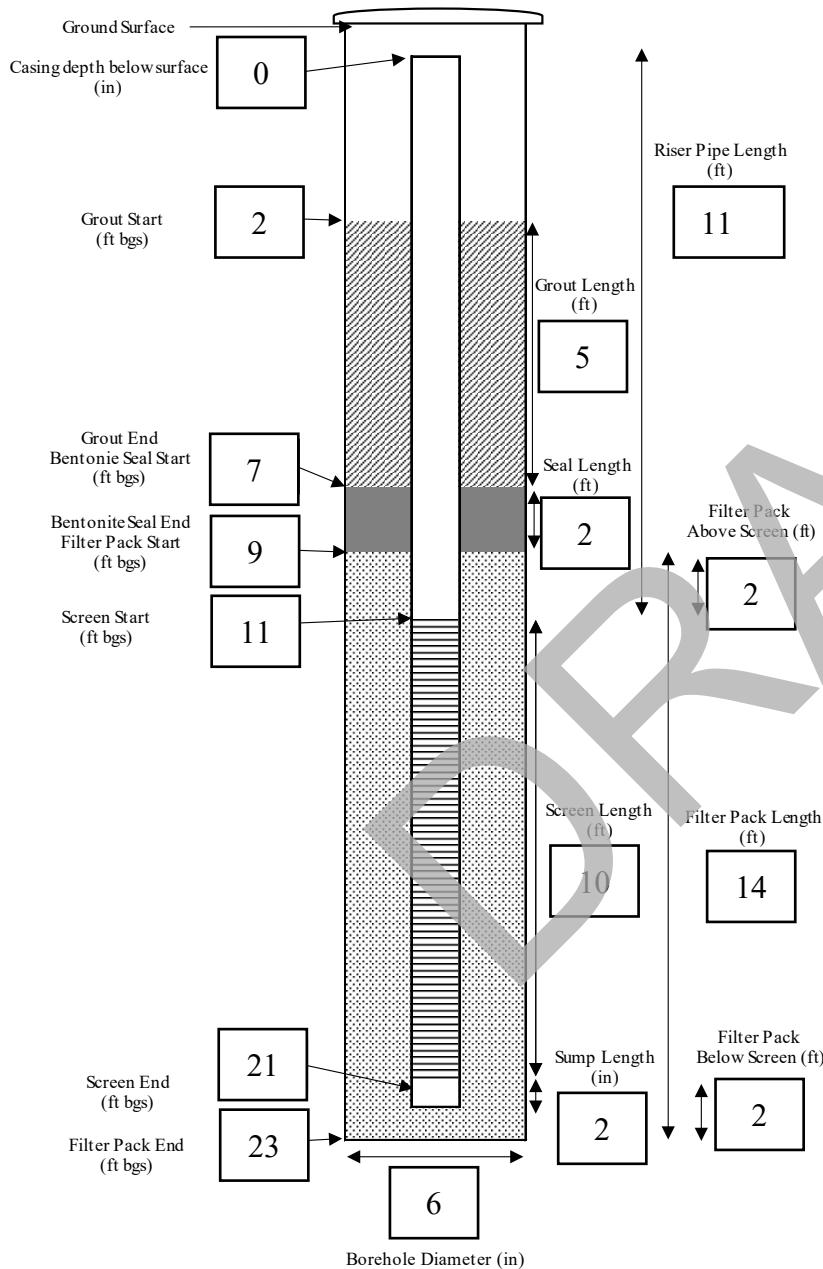
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-57R
Drilling Company: Parratt Wolff
Driller: Joel
Geologist/Engineer: A.Hayes
Casing Installation Date: 04/4/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.41



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 4/4/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/3/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☐ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 90 gallons

Comments:

Notes:

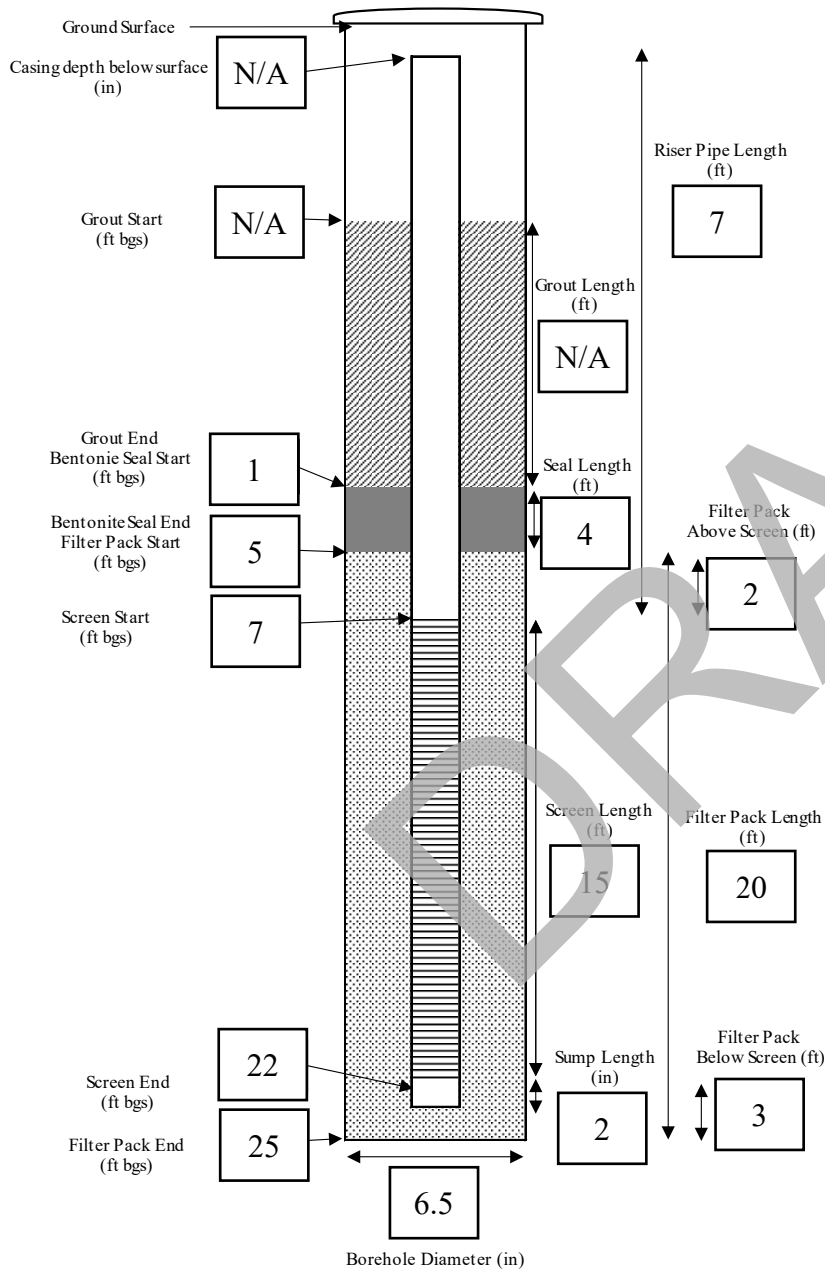
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-58
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 1/25/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.27



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/27/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/27/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: Not Grouted Time Placed:

Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/26/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments: Sump includes 2' sand and 1' of bentonite

Notes:

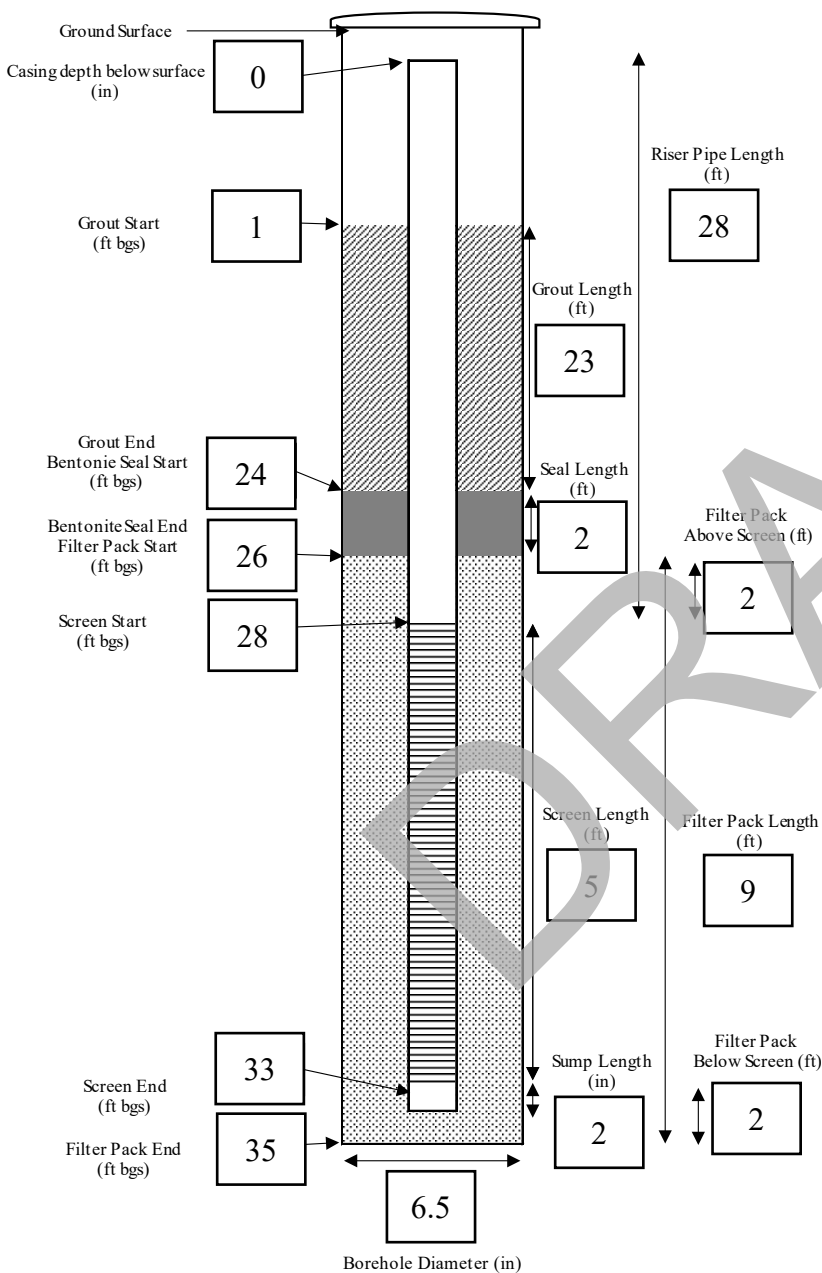
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-59I
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 2/9/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.14



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 2/9/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 2/9/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 2/9/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 2/9/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

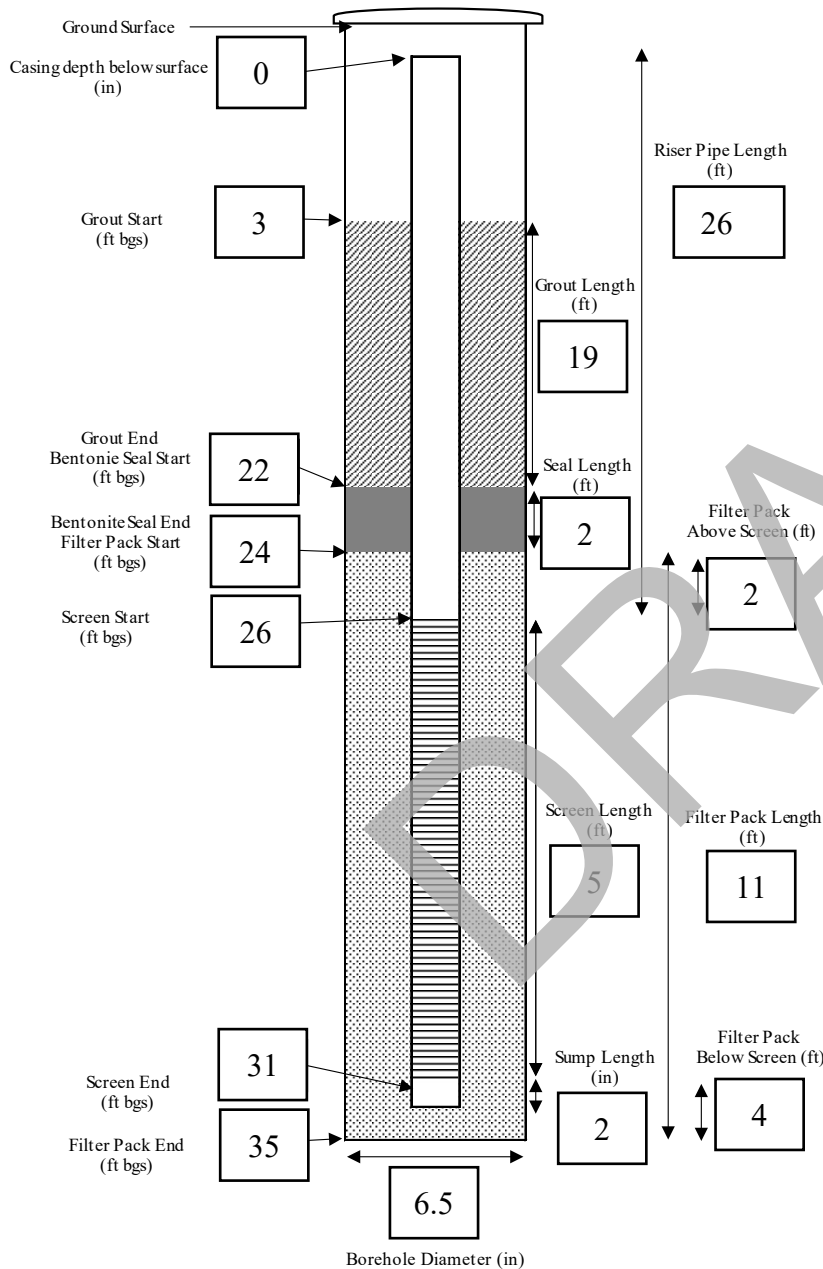
Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-59IR
Drilling Company: Parratt Wolff
Driller: Jeromy Dube
Geologist/Engineer: A.Hayes
Casing Installation Date: 07/27/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.05



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed:

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/27/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/27/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 70 gallons Recovered: 150 gallons

Comments:

Notes:

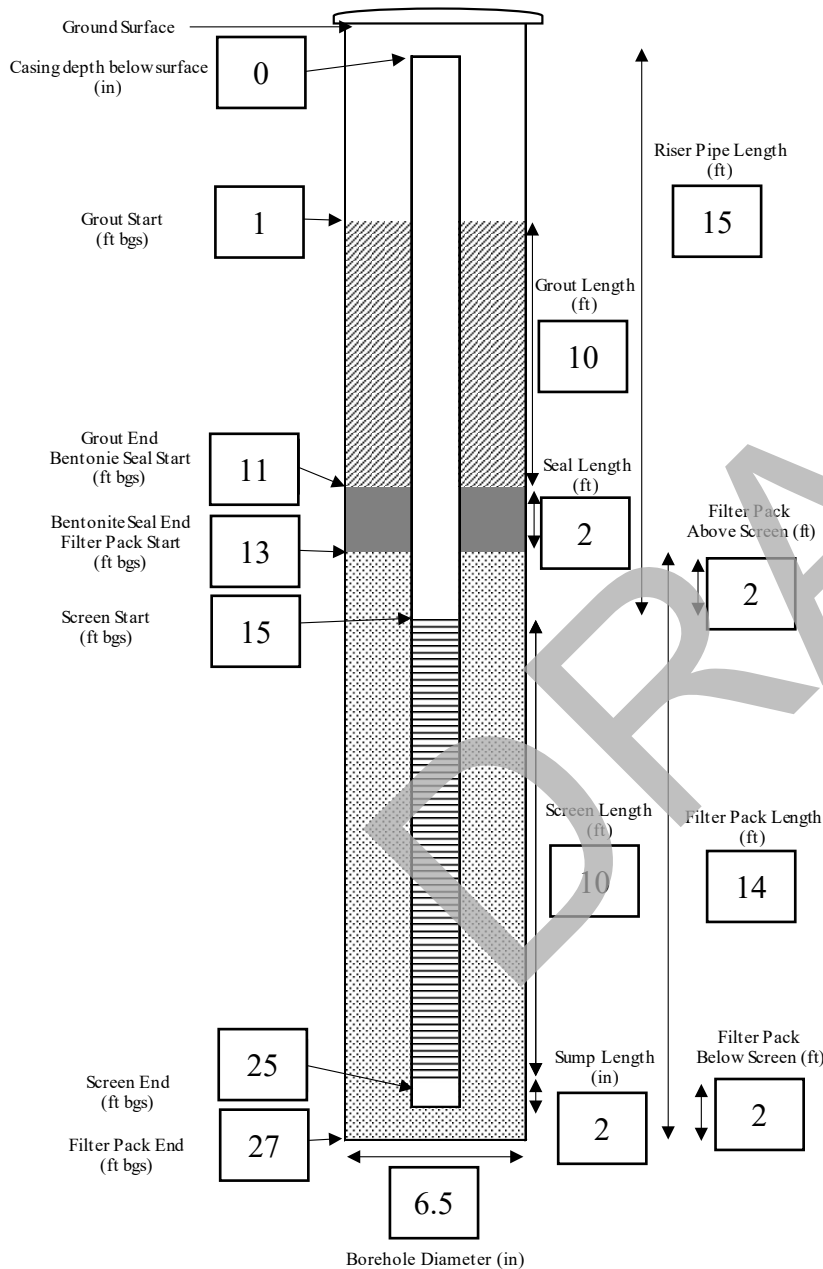
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-59S
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: K.K
Casing Installation Date: 2/9/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.34



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 2/10/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 2/9/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 2/9/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 2/9/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

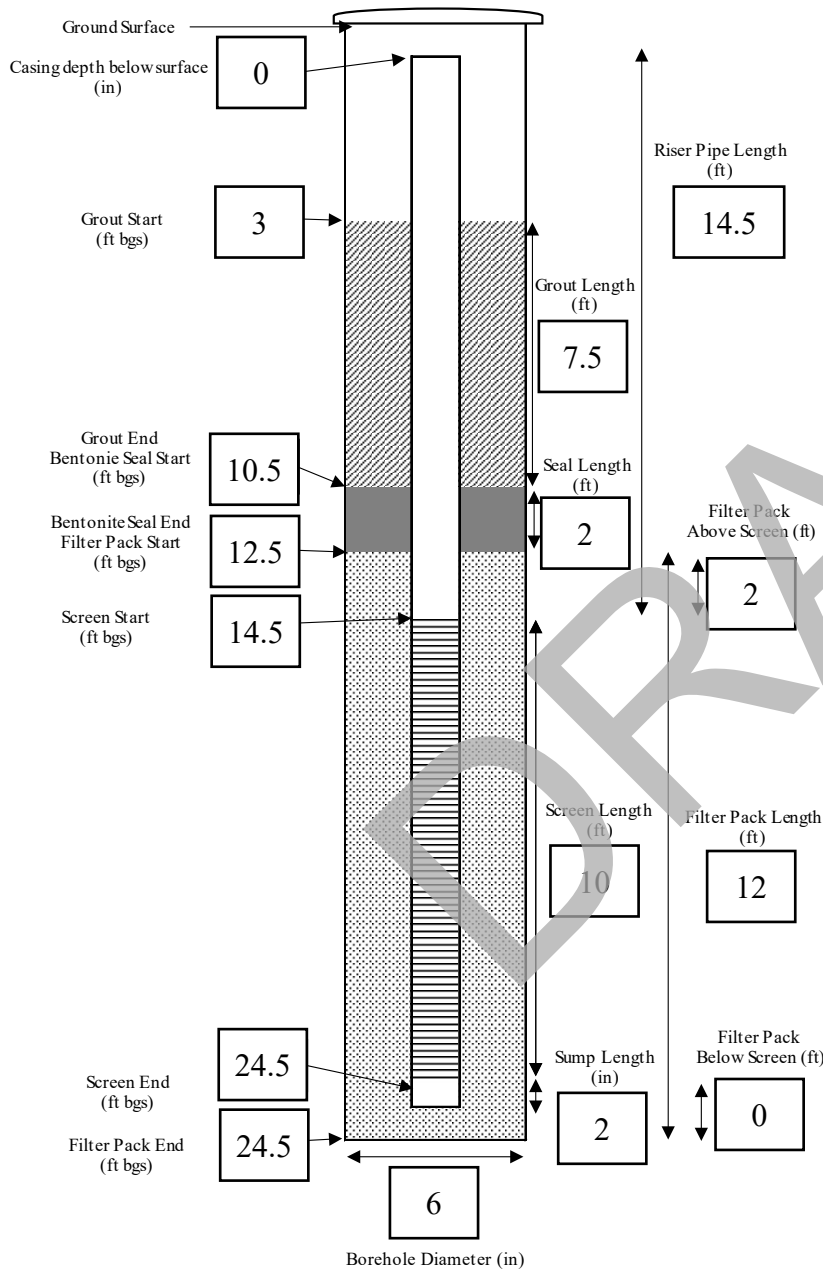
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-59SR
Drilling Company: Parratt Wolff
Driller: Jeromy Dube
Geologist/Engineer: A.Hayes
Casing Installation Date: 07/28/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.09



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed:

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/28/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/28/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: 85 gallons

Comments: Surface pending completion

Notes:

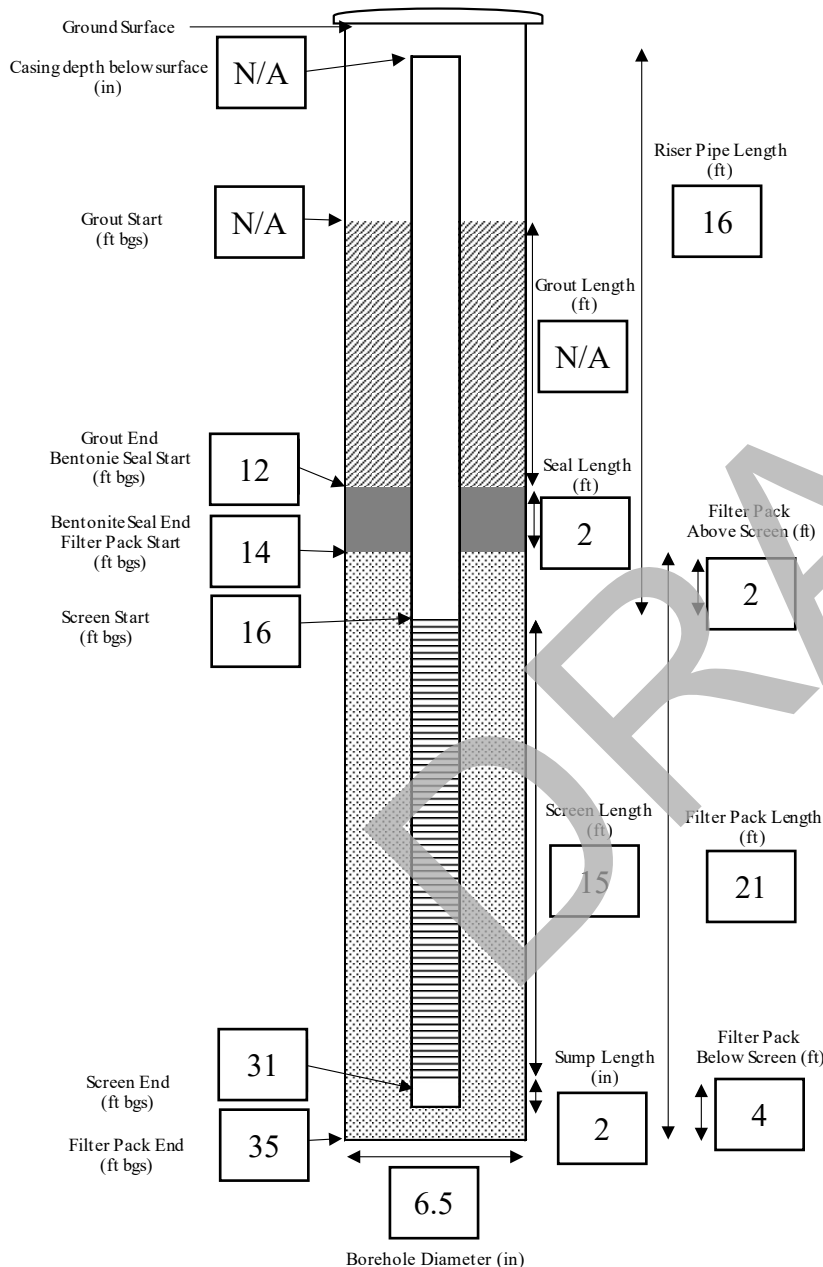
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-60
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A.Jennings
Casing Installation Date: 1/28/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.12



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/28/21
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/28/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/28/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/28/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 4 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

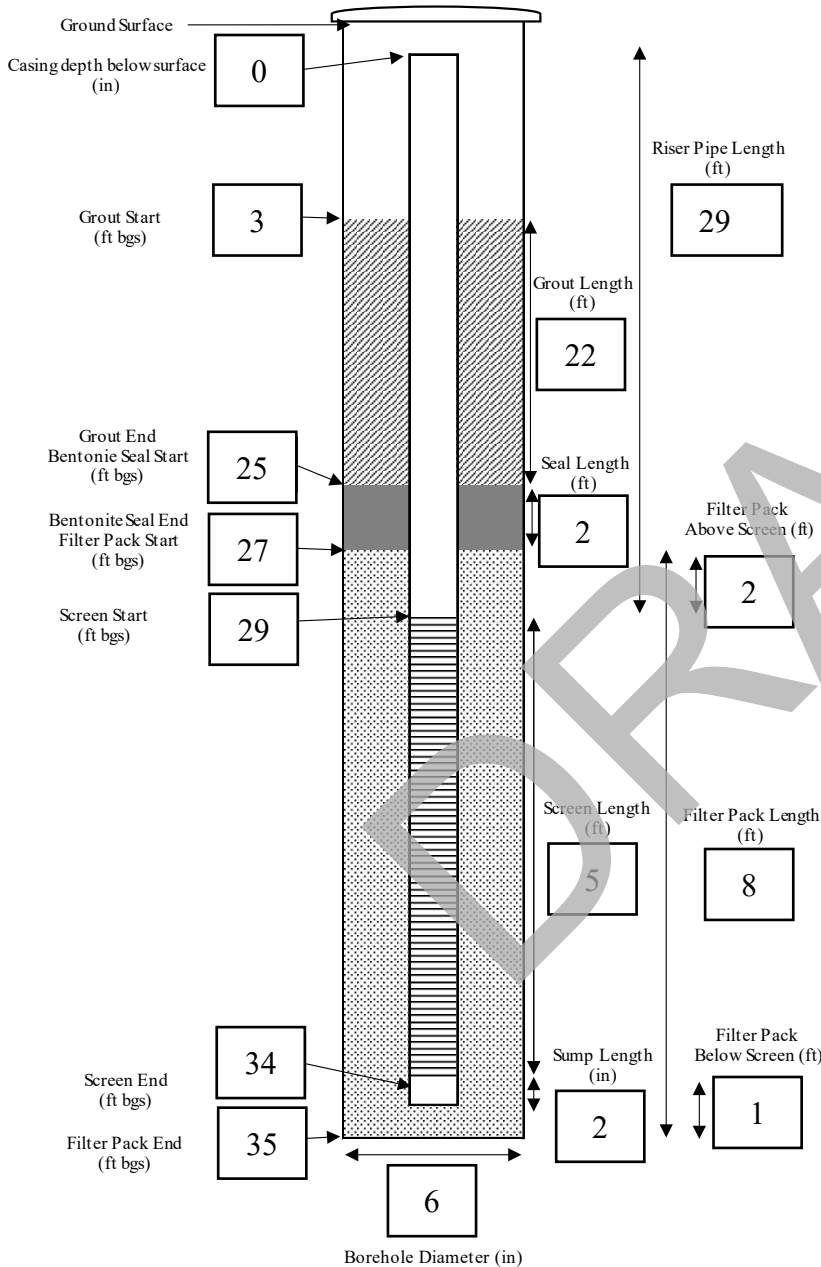
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-60IR
Drilling Company: Parratt Wolff
Driller: Dakota
Geologist/Engineer: A.Hayes
Casing Installation Date: 07/27/2023

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.90



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed:

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/27/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/27/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: 175 gallons

Comments:

Notes:

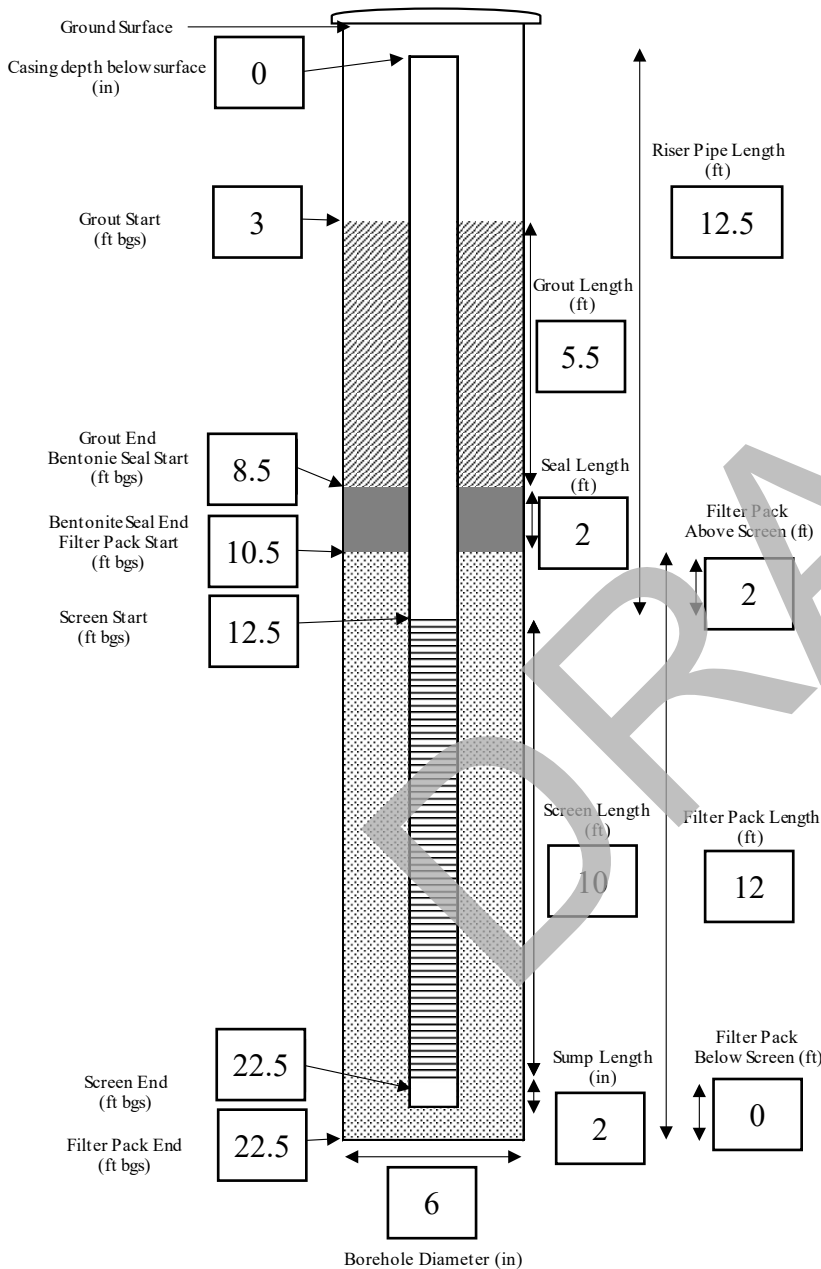
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-60SR
Drilling Company: Parratt Wolff
Driller: Dakota
Geologist/Engineer: A.Hayes
Casing Installation Date: 07/27/2023

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.08



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed:

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/27/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/27/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: 145 gallons

Comments:

Notes:

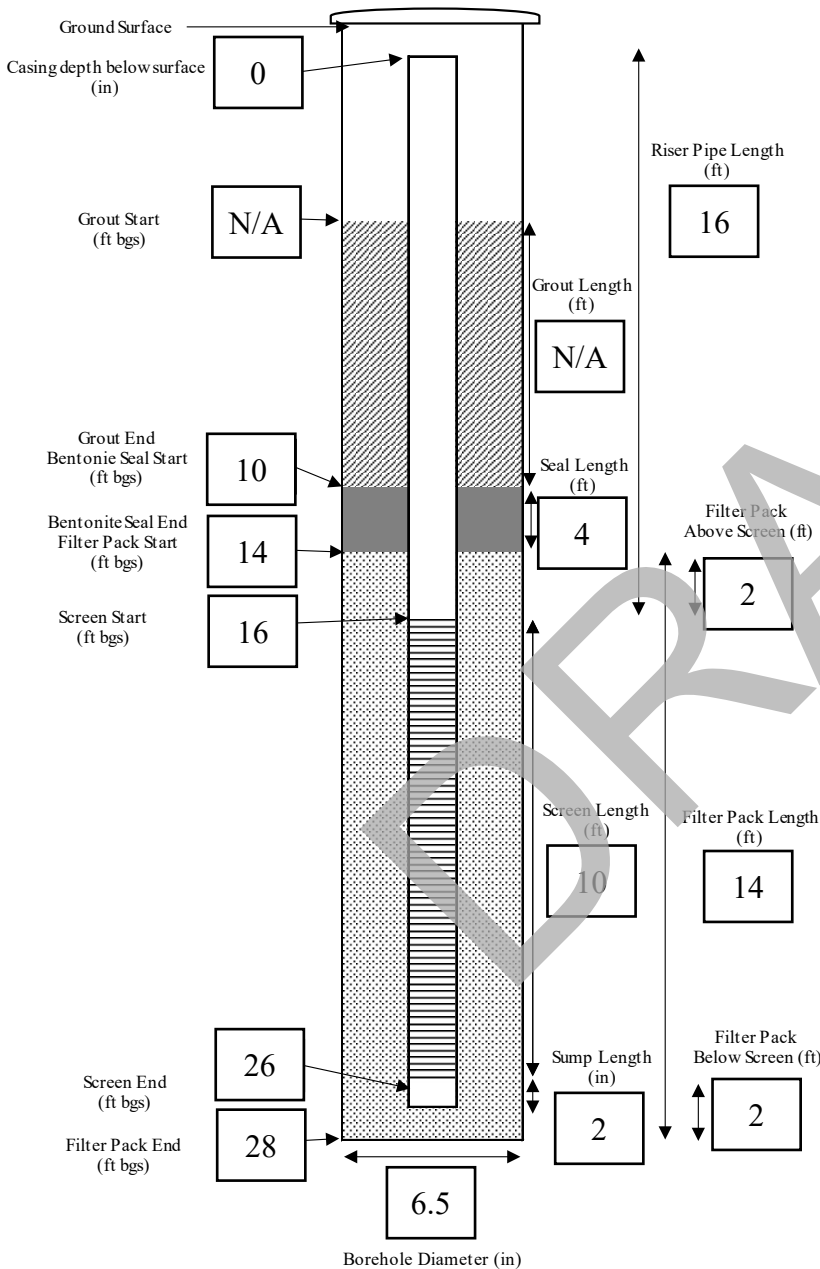
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-61
Drilling Company: Cascade
Driller: Frank, Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 1/25/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 857.39



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/26/21
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/26/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/26/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/25/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

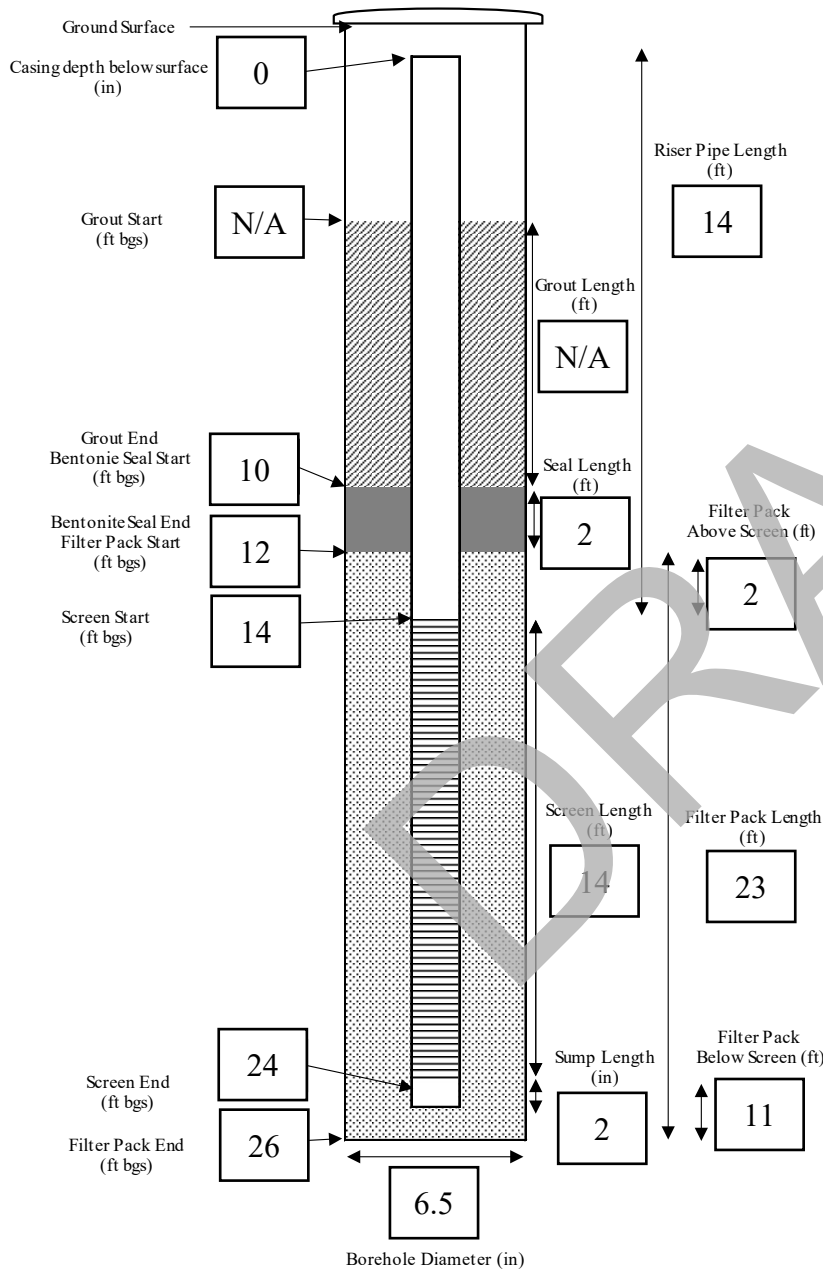
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-62
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: N/A
Casing Installation Date: 2/4/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 857.39



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 2/4/21
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 2/4/21

Diameter: 8 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 2/4/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 2/4/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 20 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 5 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

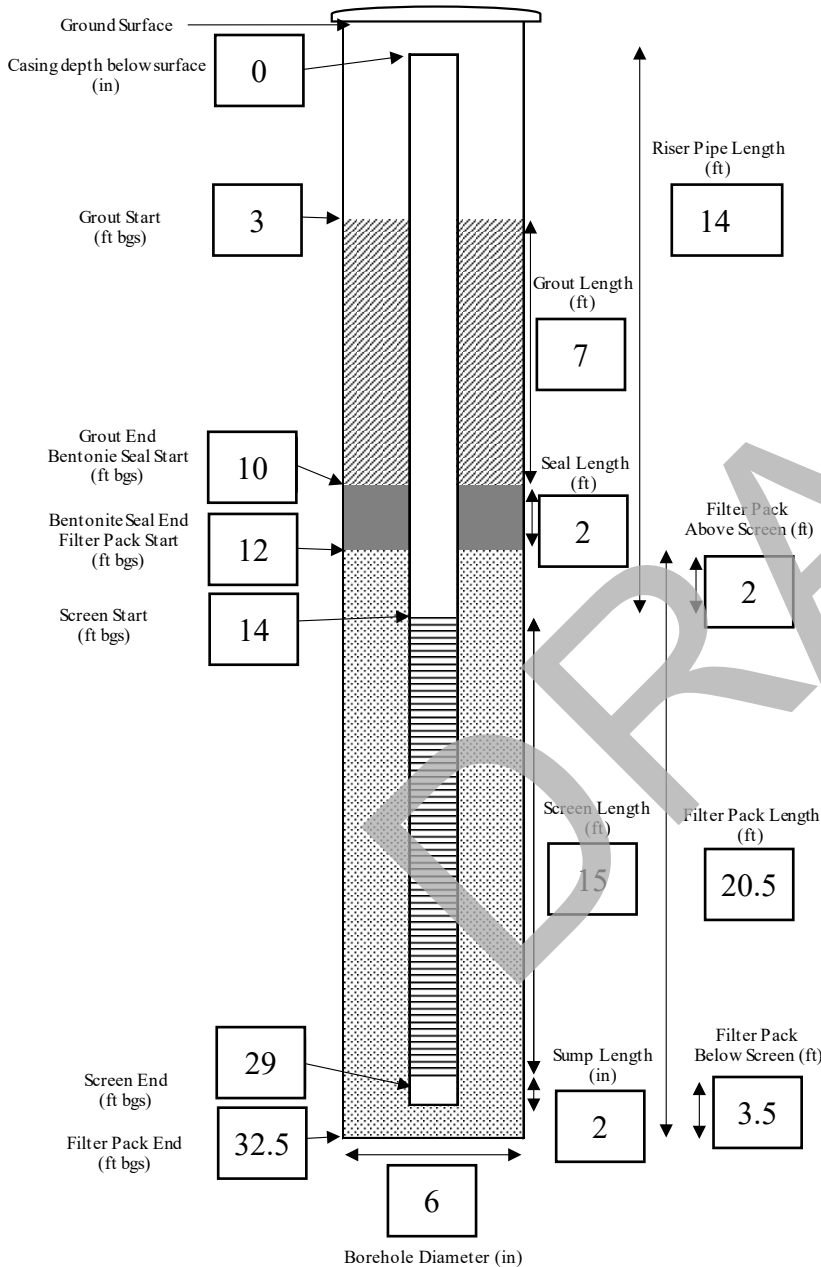
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-62R
Drilling Company: Parratt Wolff
Driller: Dakota
Geologist/Engineer: A.Hayes
Casing Installation Date: 07/25/2023

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 857.94



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed:

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/25/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/25/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: 145 gallons

Comments:

Notes:

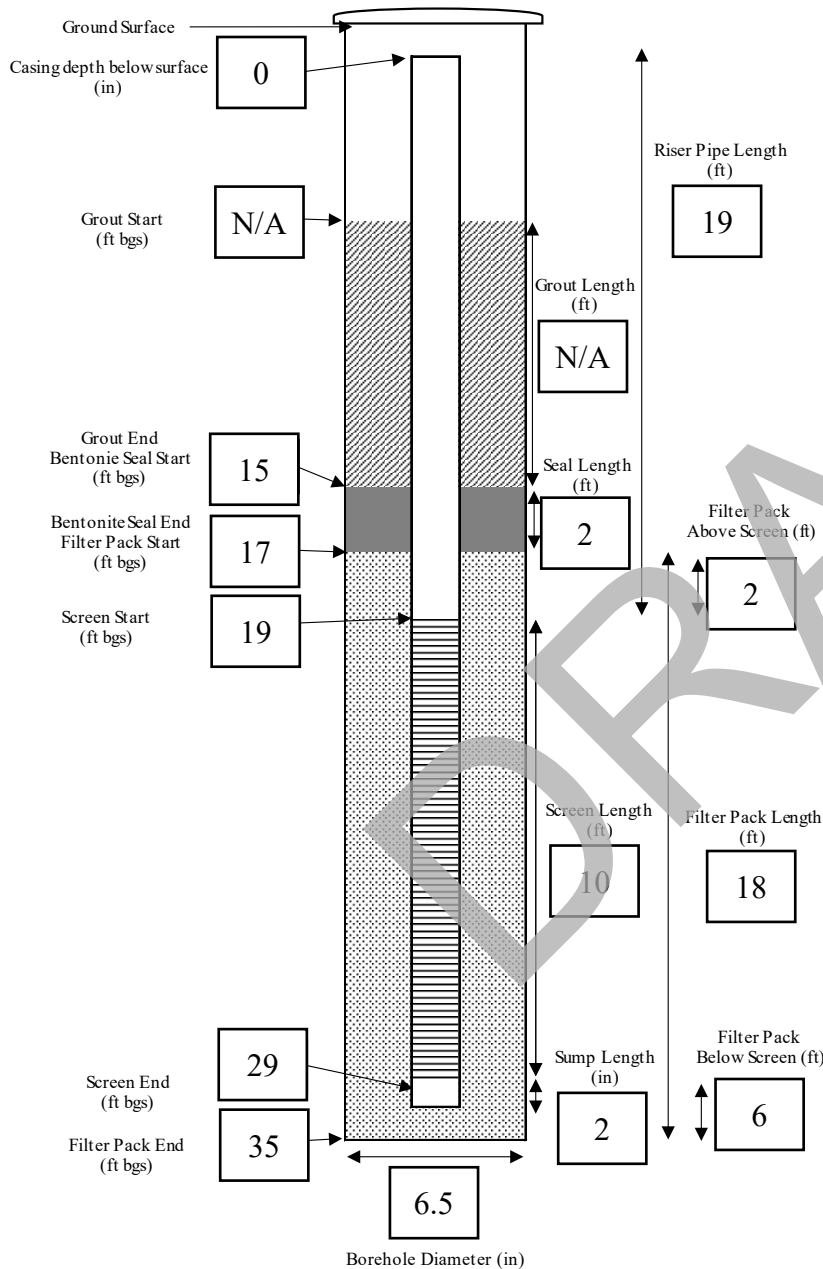
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-63I
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A.Jennings
Casing Installation Date: 1/29/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.54



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/29/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 1 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/29/21

Diameter: 8 inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/29/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/29/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 4 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

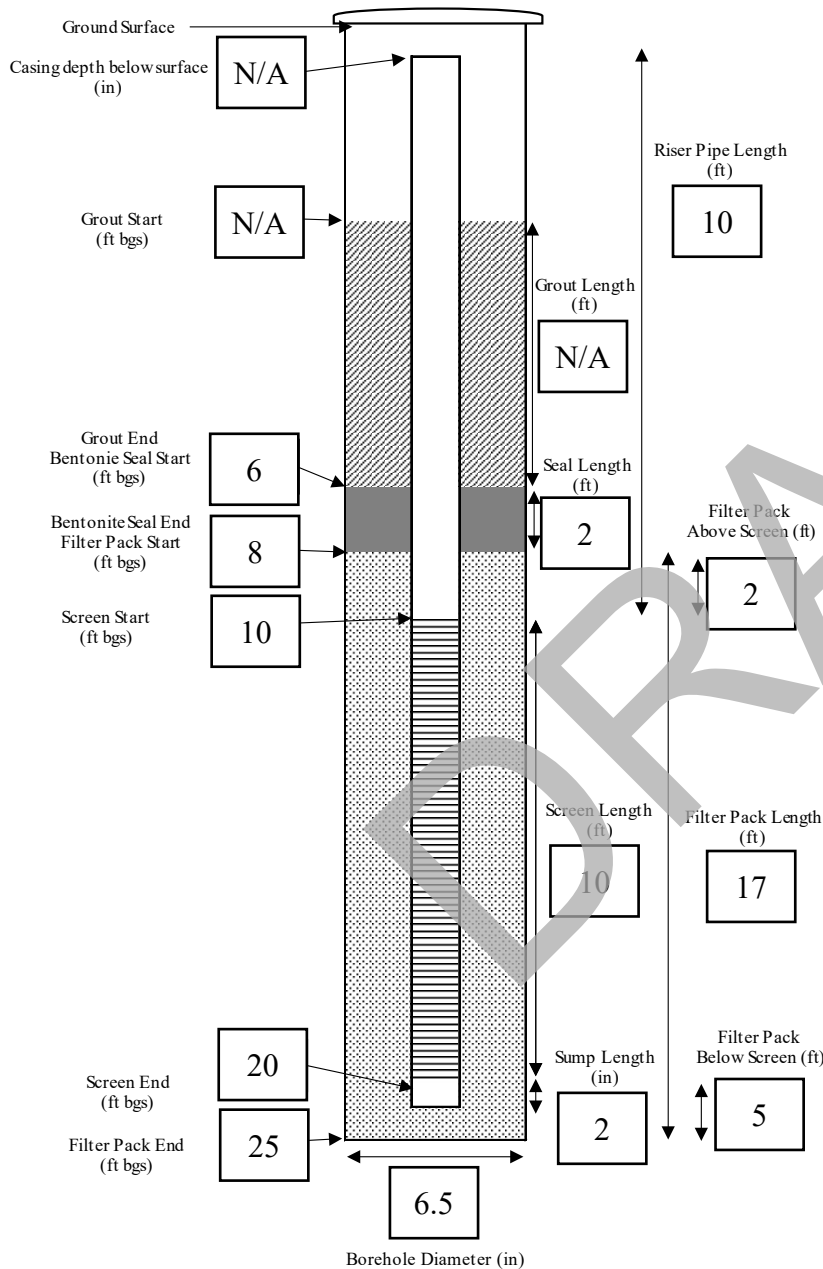
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-63S
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A.Jennings
Casing Installation Date: 1/29/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.81



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/28/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/29/21

Diameter: 8 inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/29/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/29/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

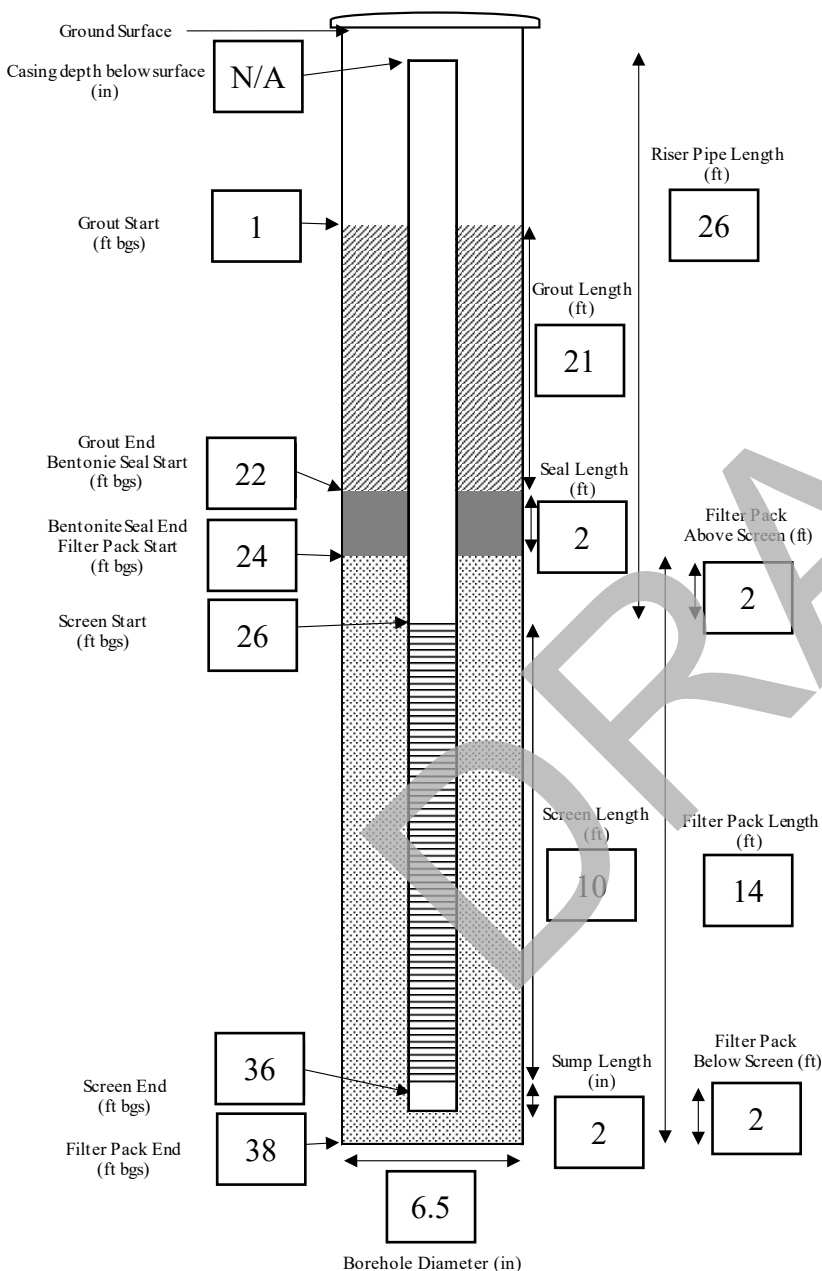
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-64I
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: K.K.
Casing Installation Date: 1/27/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.81



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/28/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/28/21

Diameter: 8 inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/26/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/26/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

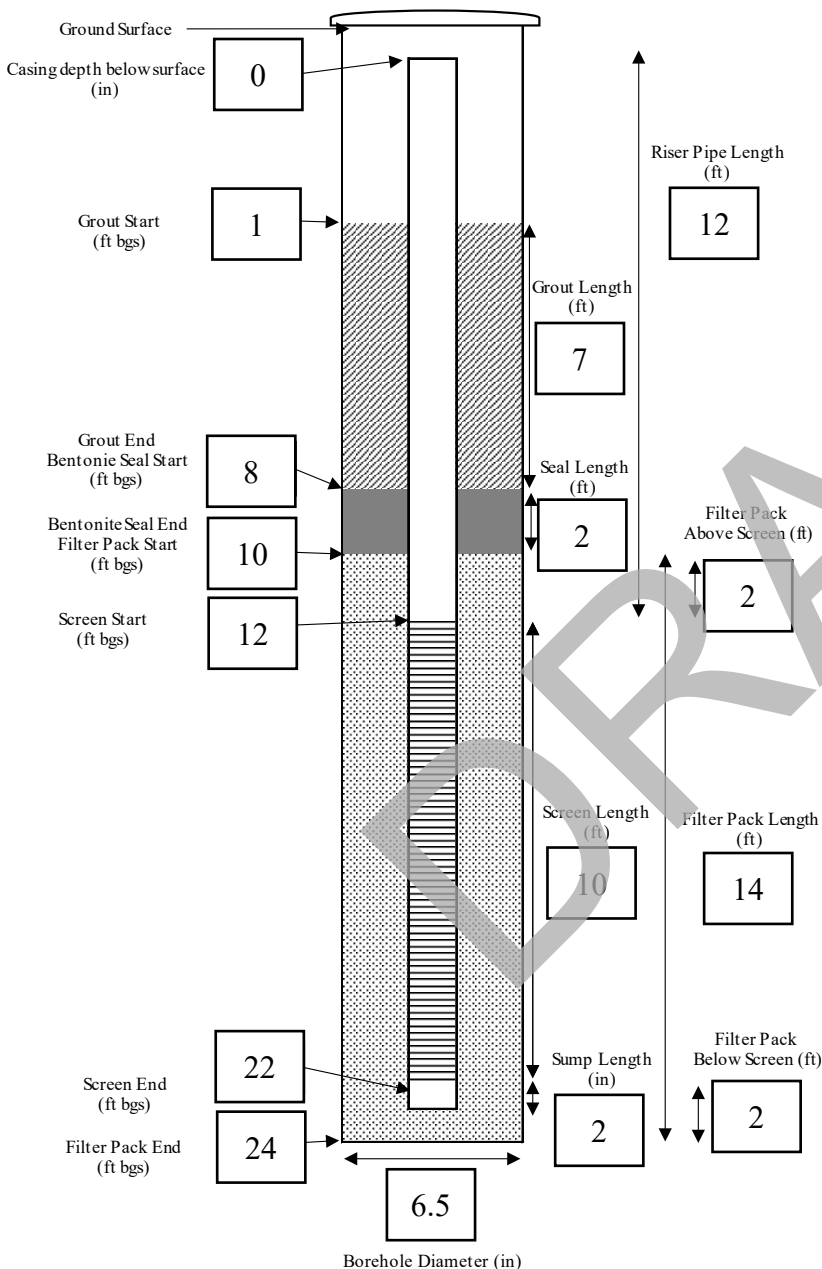
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-64S
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: K.K.
Casing Installation Date: 1/27/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.80



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/28/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/28/21

Diameter: 8 inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/27/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/26/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 2 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments: Sump includes 2' of sand, 2' of bentonite

Notes:

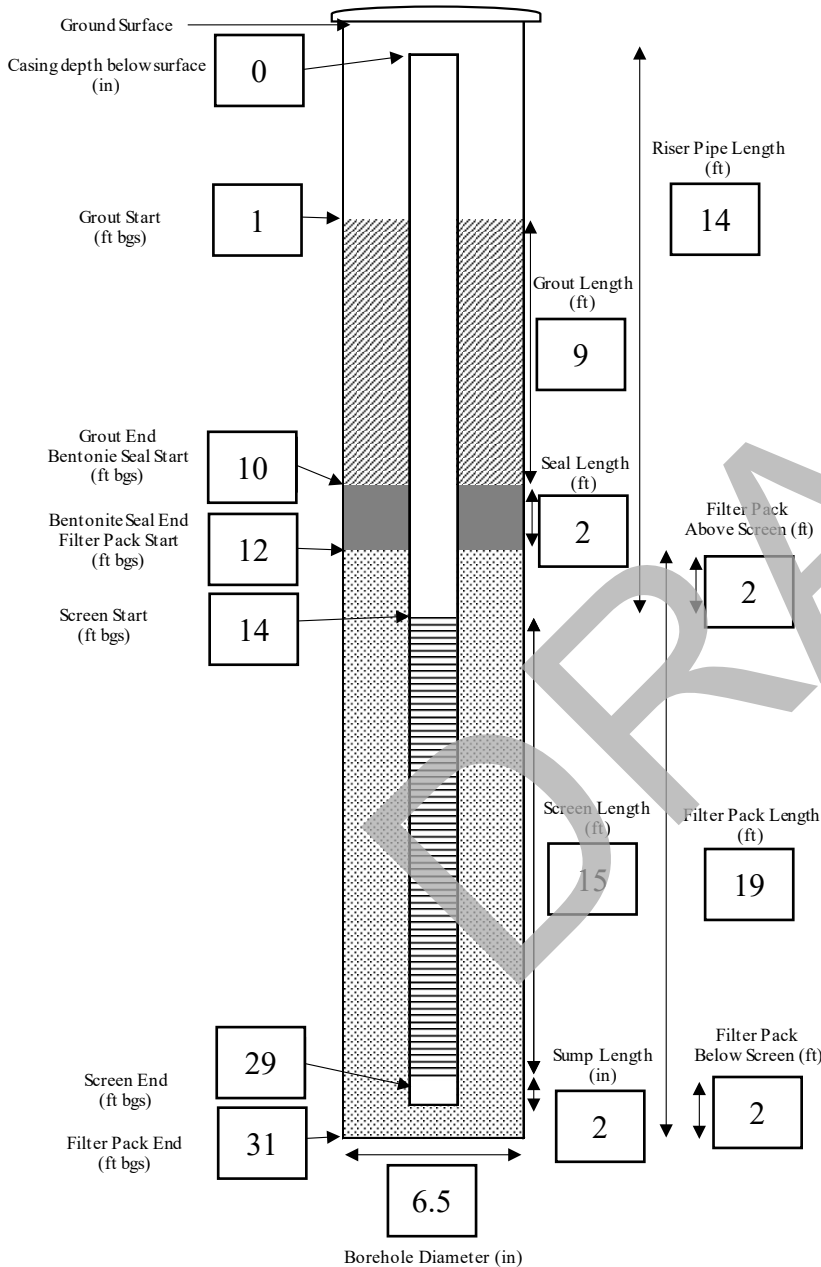
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-65
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A.Jennings
Casing Installation Date: 1/26/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.28



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/27/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/27/21

Diameter: 8 inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/27/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/26/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: _ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments: S

Notes:

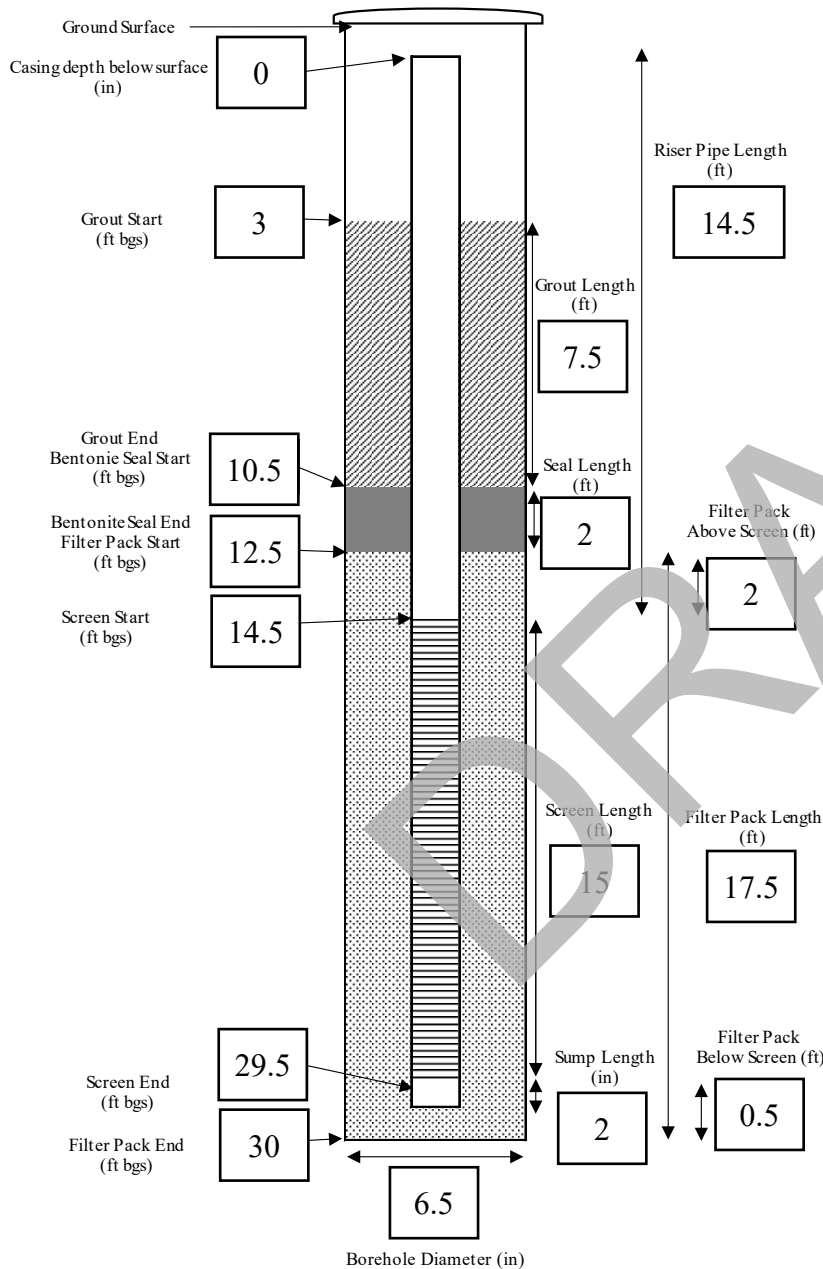
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-65R
Drilling Company: Parratt Wolff
Driller: Dakota
Geologist/Engineer: A.Hayes
Casing Installation Date: 07/27/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.47



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed:

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/27/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/27/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 70 gallons Recovered: 130 gallons

Comments:

Notes:

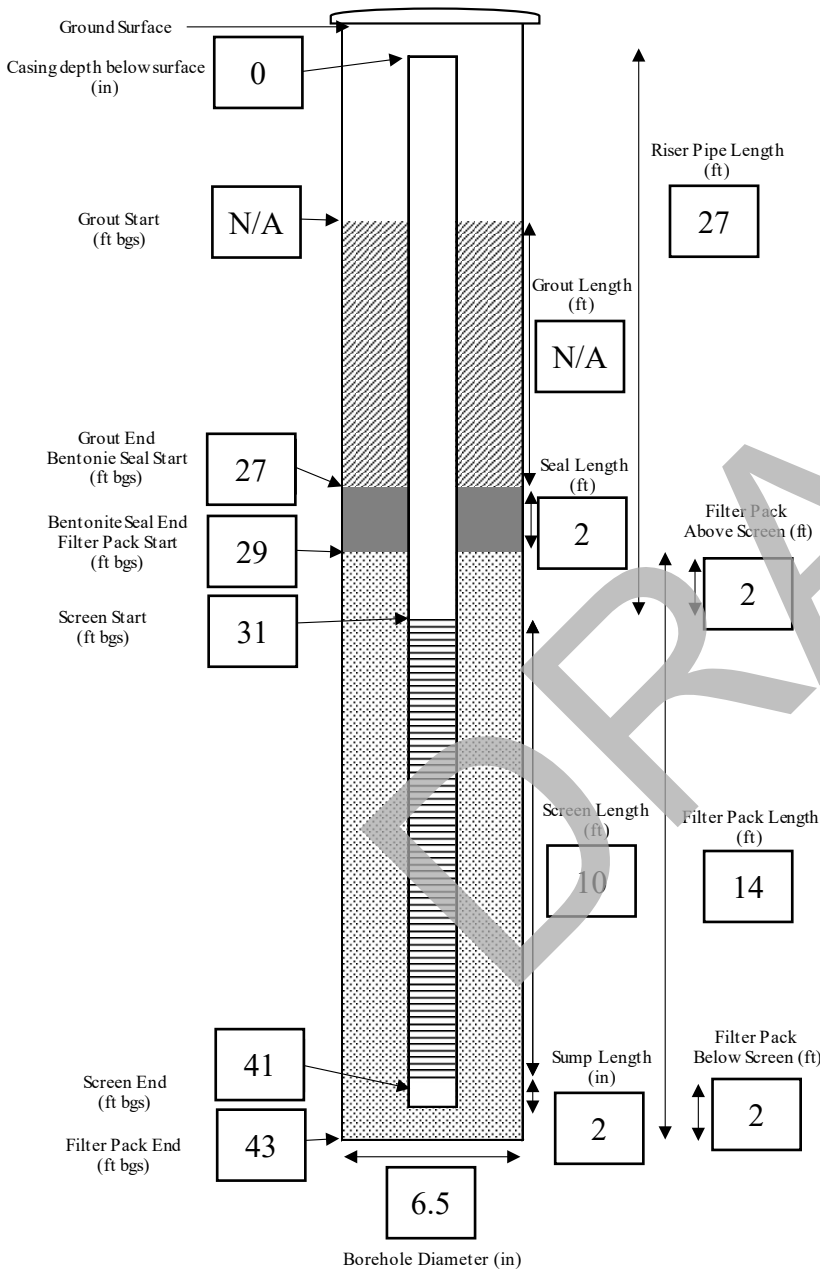
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-66I
Drilling Company: Cascade
Driller: Frank and Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 1/28/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.74



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/27/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/27/21

Diameter: 8 inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/27/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/27/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 15 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: _ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

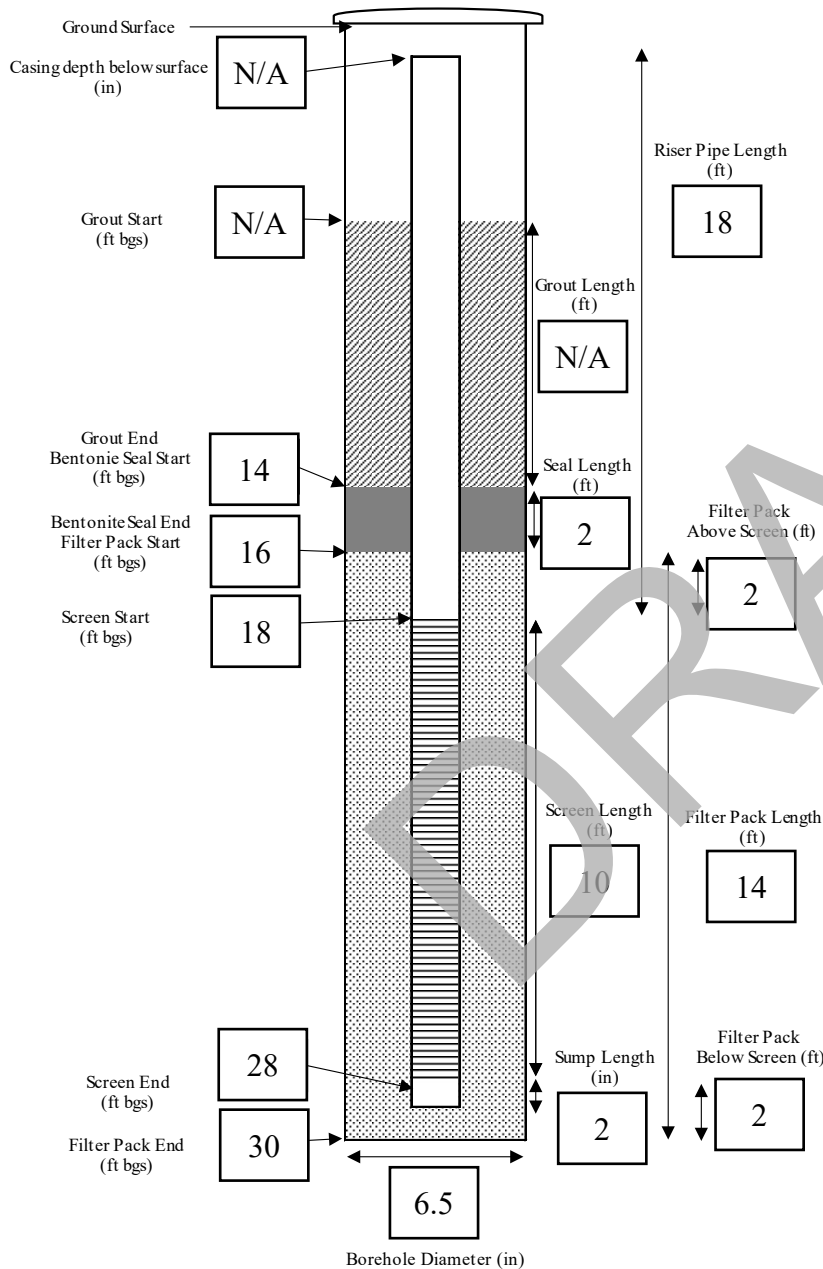
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-66S
Drilling Company: Cascade
Driller: Frank and Marshall
Geologist/Engineer: K.K.
Casing Installation Date: 1/28/2021

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.76



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 1/27/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 1/27/21

Diameter: 8 inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 1/27/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 1/28/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Cetco Pure Gold
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 20 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Holliston
Amount Used: 3 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

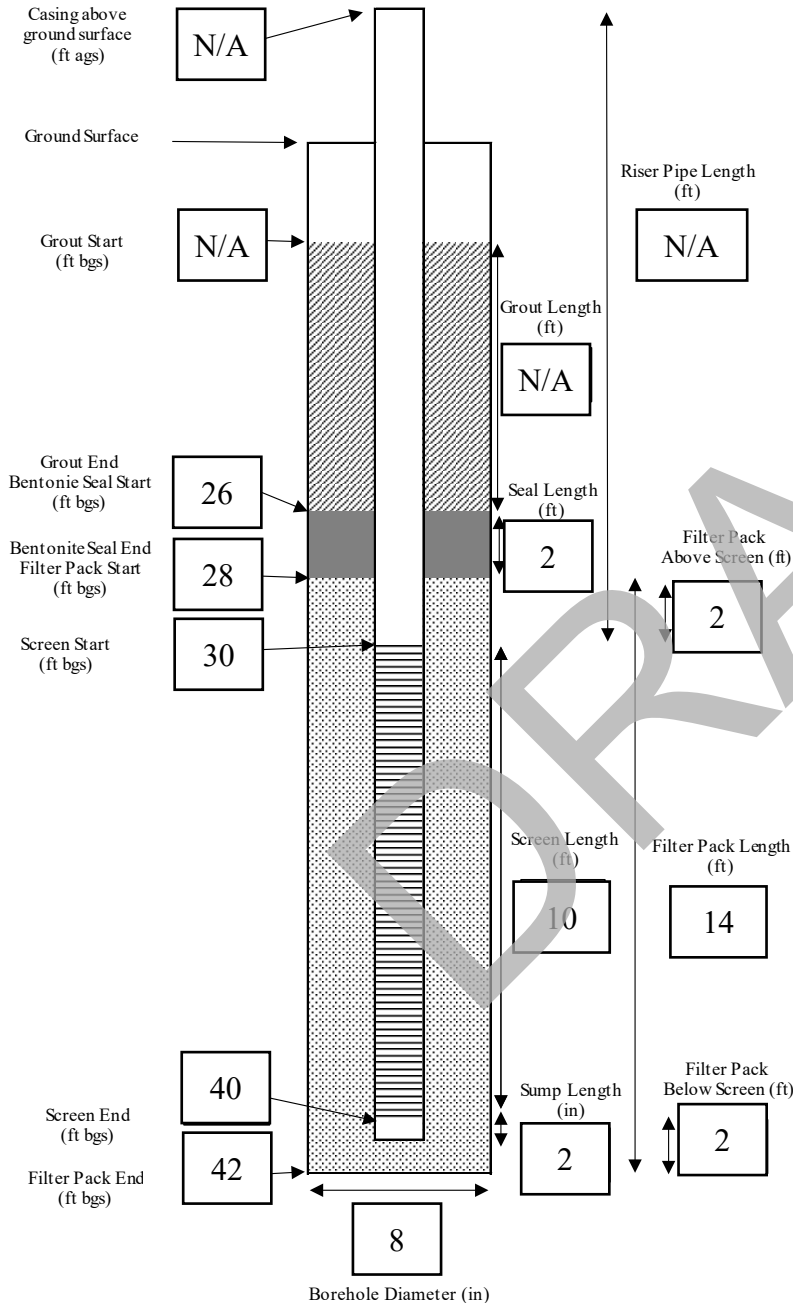
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-67I
Drilling Company: Cascade
Driller: RB
Geologist/Engineer: N/A
Casing Installation Date: 6/24/21

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.46



Well Completion

Guard Posts/Bollards: ☐ Yes ☐ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: __ ft x __ ft x __ inches thick

Protective Manhole Cover - ☐ Yes ☐ No Date Installed:

Diameter: __ inches Length: __ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 6/24/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand:
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 6/24/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: __ gallons Recovered: __ gallons

Comments: Top of clay 39' bgs

Notes:

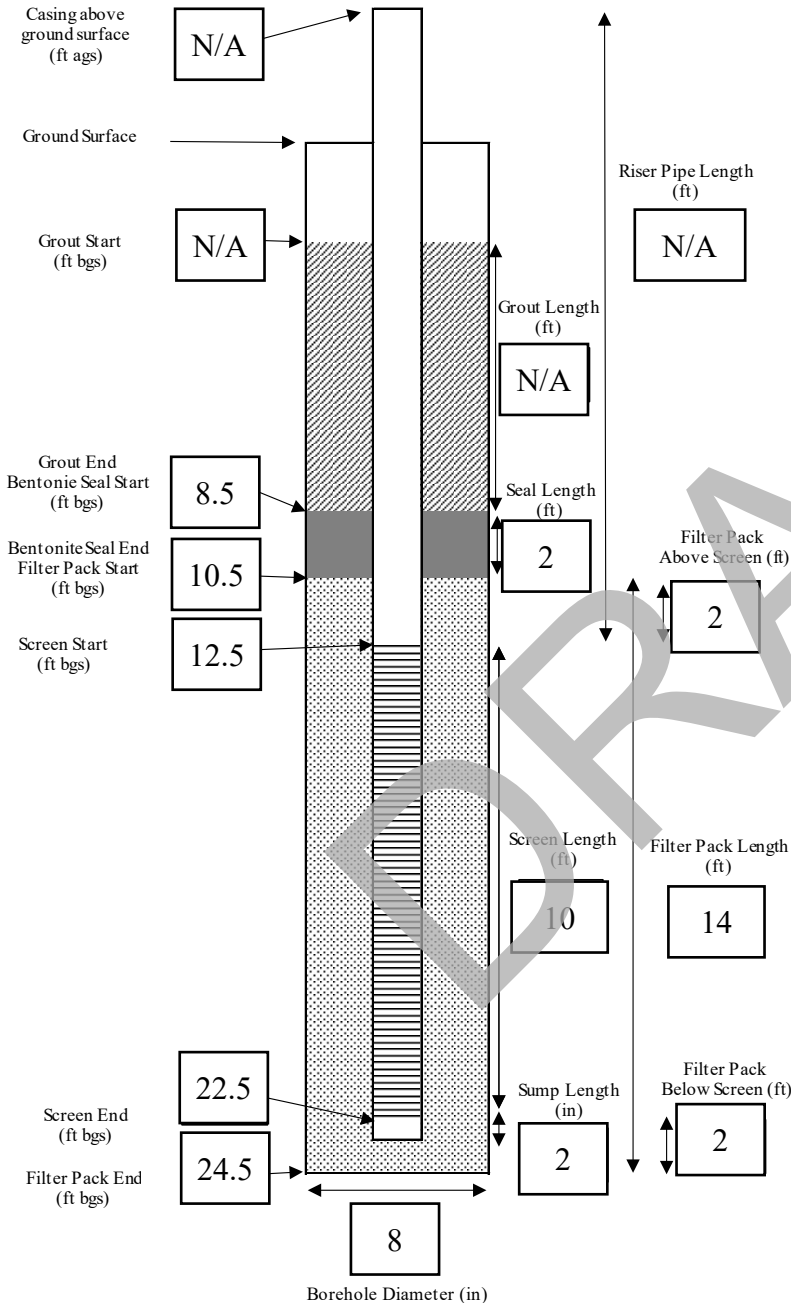
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-67S
Drilling Company: Cascade
Driller: RB
Geologist/Engineer: N/A
Casing Installation Date: 6/25/21

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.19



Well Completion

Guard Posts/Bollards: ☐ Yes ☐ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: __ ft x __ ft x __ inches thick

Protective Manhole Cover - ☐ Yes ☐ No Date Installed:

Diameter: __ inches Length: __ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 6/25/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand:
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 6/25/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: __ gallons Recovered: __ gallons

Comments: Bridging at bottom occurred changing elevation of screen to 12.5-22.5 ft bgs

Notes:

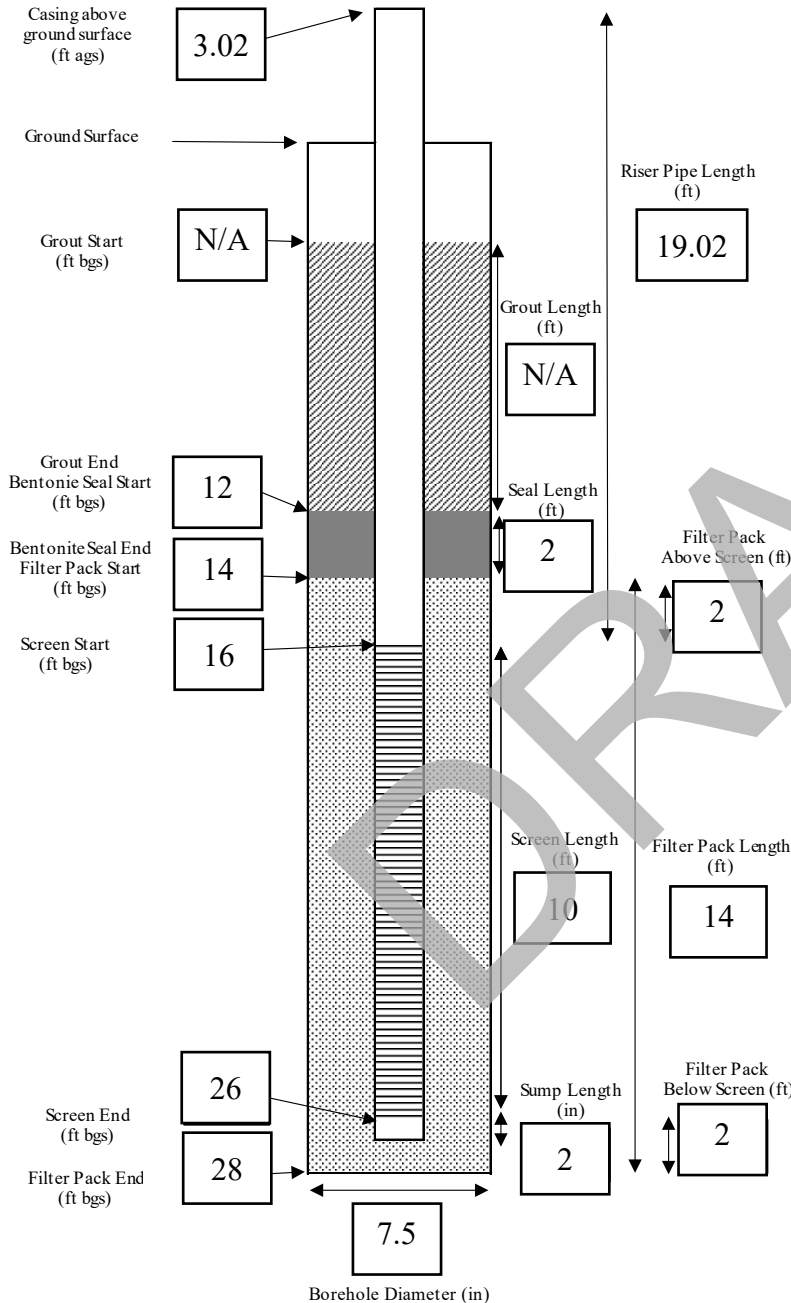
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-68S
Drilling Company: Cascade
Driller: Blake, Zach, Roger, Tracey
Geologist/Engineer: M.S
Casing Installation Date: 6/28/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.59



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 6/28/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: ___ ft x ___ ft x ___ inches thick

Protective Manhole Cover - ☐ Yes ☐ No Date Installed: N/A

Diameter: ___ inches Length: ___ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: N/A Time Placed: N/A

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: N/A Time Placed: N/A

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica Superior Filtration
Amount Used: N/A ___ bags ___ pounds
Placement Method: ☒ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

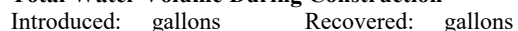
Introduced: N/A gallons Recovered: N/A gallons

Comments:

Notes:

1. Drawing not to scale
2. Units are in feet
3. Well construction logs were not completed at time of installation. Known well construction details are shown above

Site:	Elmira, NY
Installation Method:	HSA
Geologic Completion Zone:	Overburden
Casing Size:	2-inch PVC
Top of Casing Elevation (ft amsl):	859.21



forms/Well Construction Log - MW-69I

Site:	Elmira, NY
Installation Method:	HSA
Geologic Completion Zone:	Overburden
Casing Size:	2-inch PVC
Top of Casing Elevation (ft amsl):	847.63

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: _____
 Pad Shape: ☐ Square ☐ Circular
 Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
 Source/Brand: N/A
 Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

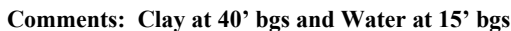
Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
 Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Introduced: gallons Recovered: gallons



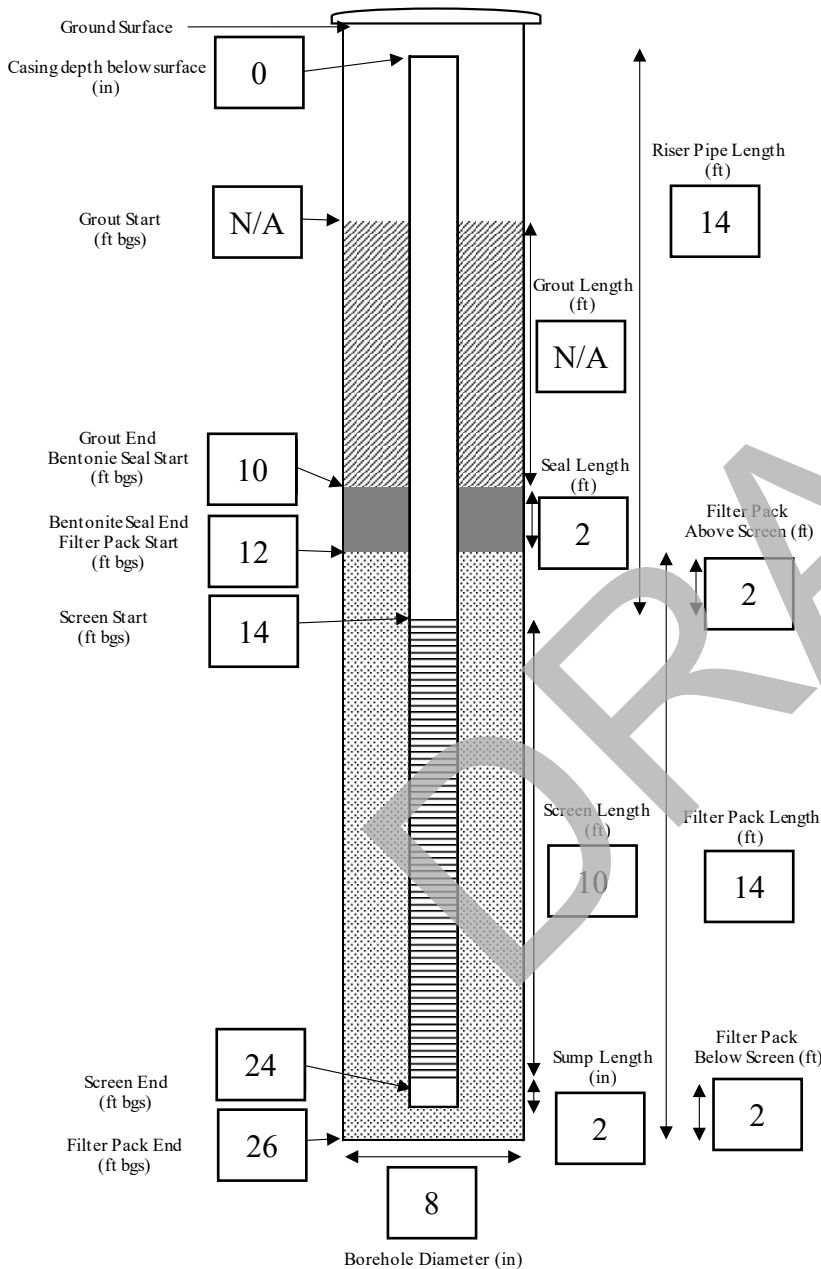
forms/Well Construction Log - MW-70I

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-70S
Drilling Company: Cascade
Driller: Joe and Blake
Geologist/Engineer: SD
Casing Installation Date: 8/3/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 848.08



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☐ Ground Surface ☐ Other:

Grout – Date Placed: 8/3/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/3/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons

Comments: Water at 15' bgs

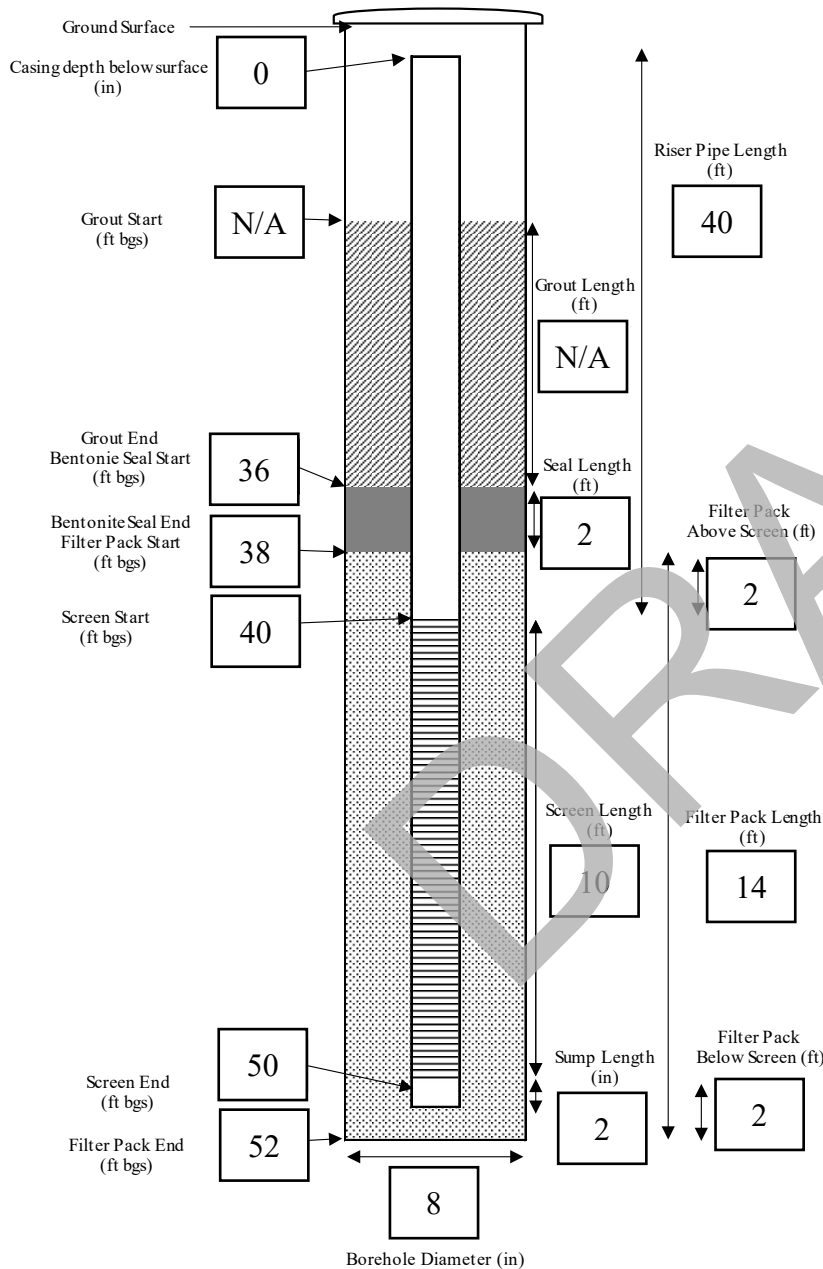
Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-711
Drilling Company: Cascade
Driller: Joe and Blake
Geologist/Engineer: SD
Casing Installation Date: 8/9/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.42



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☐ Ground Surface ☐ Other:

Grout – Date Placed: 8/9/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/9/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 8 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☒ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons

Comments:

Notes:

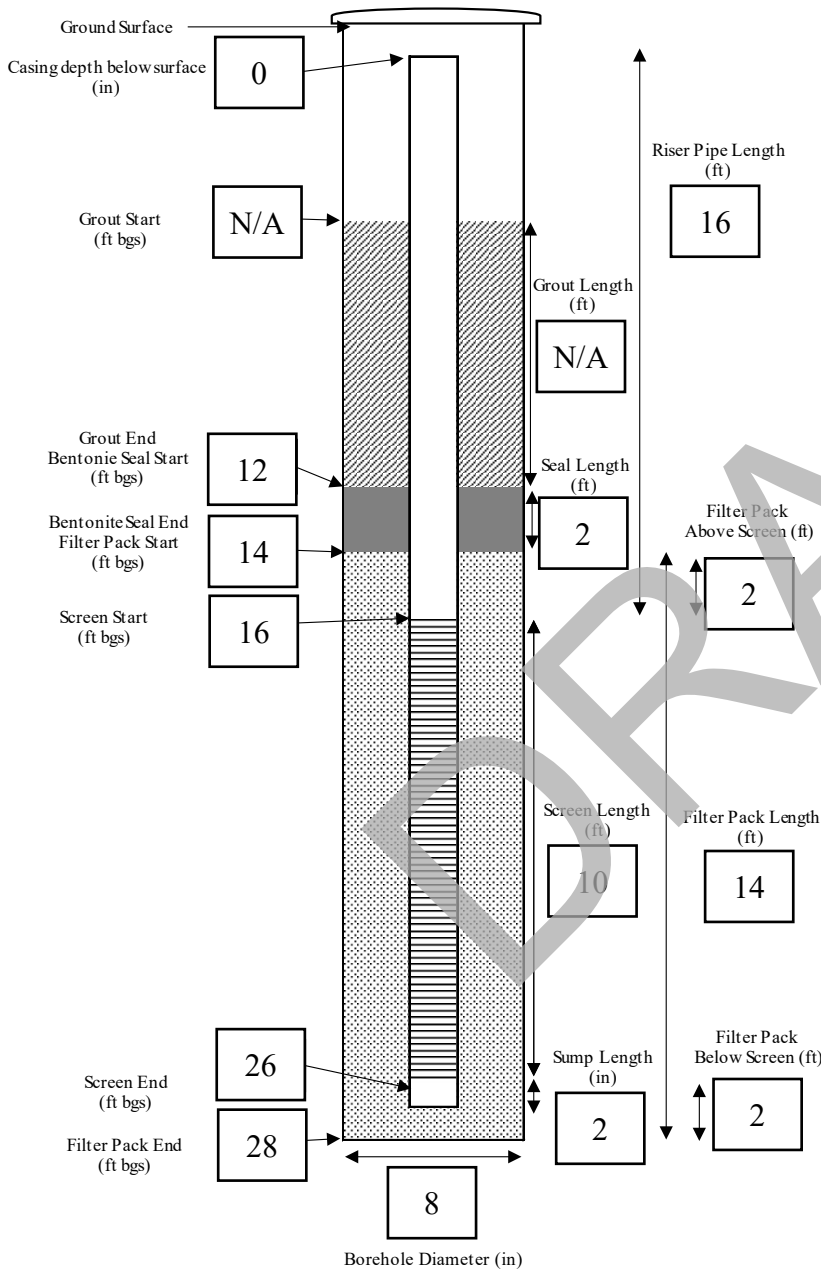
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-71S
Drilling Company: Cascade
Driller: Joe and Raylan
Geologist/Engineer: SD
Casing Installation Date: 8/9/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.57



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☐ Ground Surface ☐ Other:

Grout – Date Placed: 8/10/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/10/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons

Comments: Water at 17'

Notes:

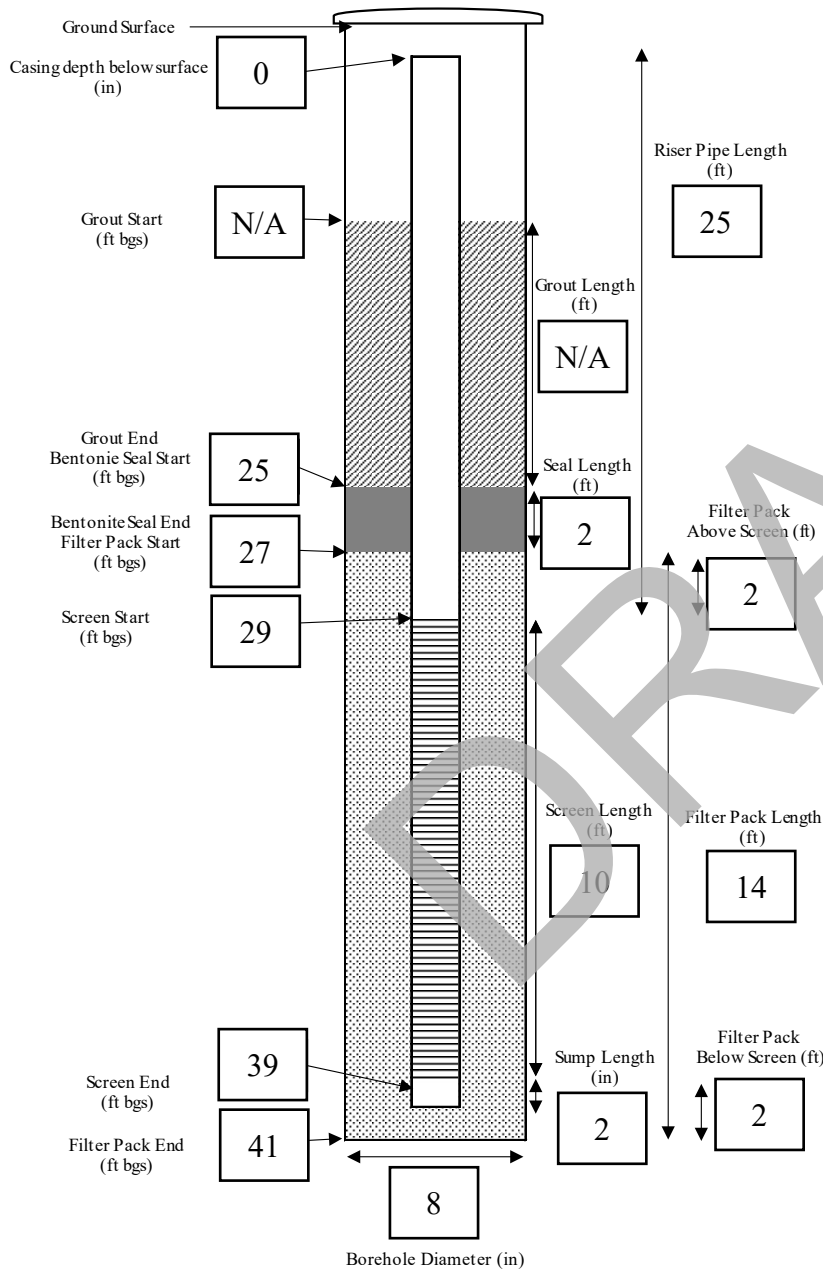
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-72I
Drilling Company: Cascade
Driller: Joe
Geologist/Engineer: SD
Casing Installation Date: 8/4/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 849.01



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/4/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/4/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/4/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons

Comments:

Notes:

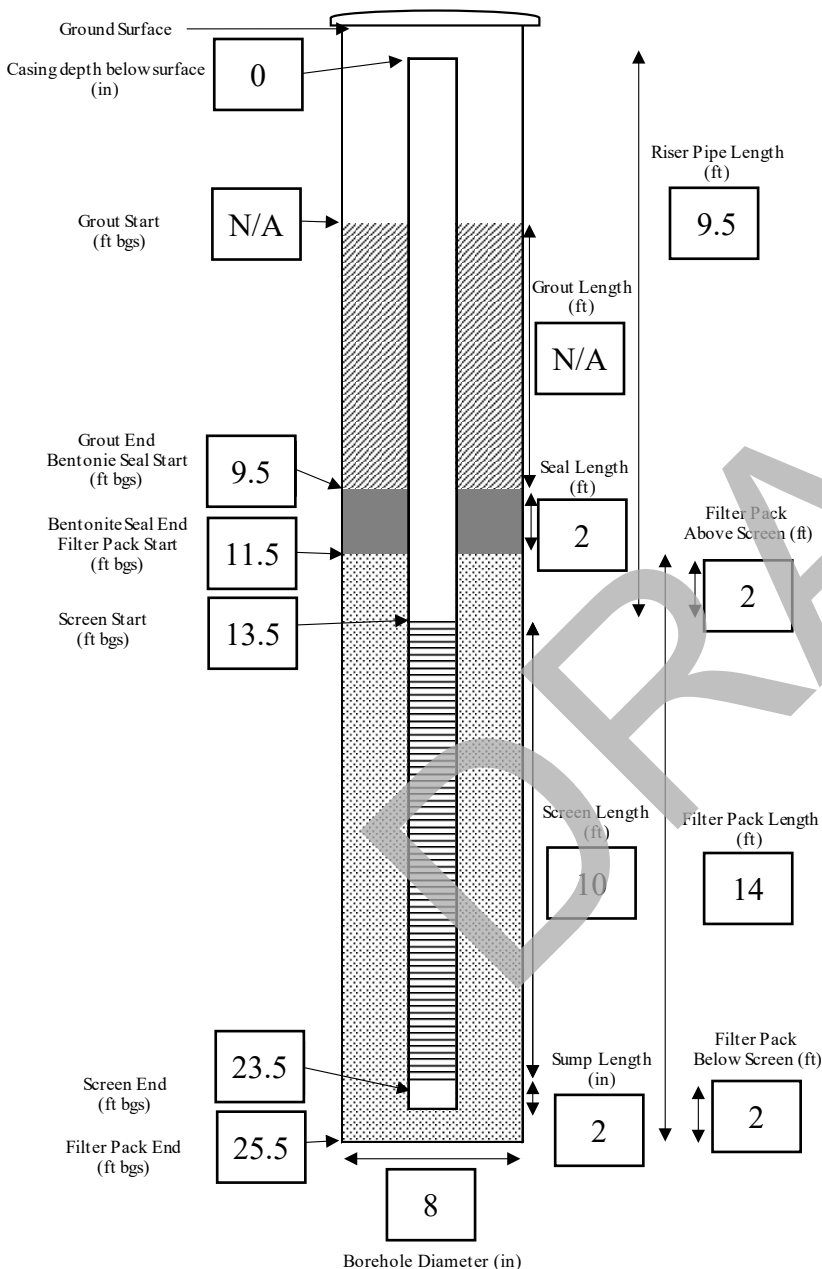
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-72S
Drilling Company: Cascade
Driller: Joe
Geologist/Engineer: SD
Casing Installation Date: 8/5/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 849.01



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/5/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/5/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons

Comments:

Notes:

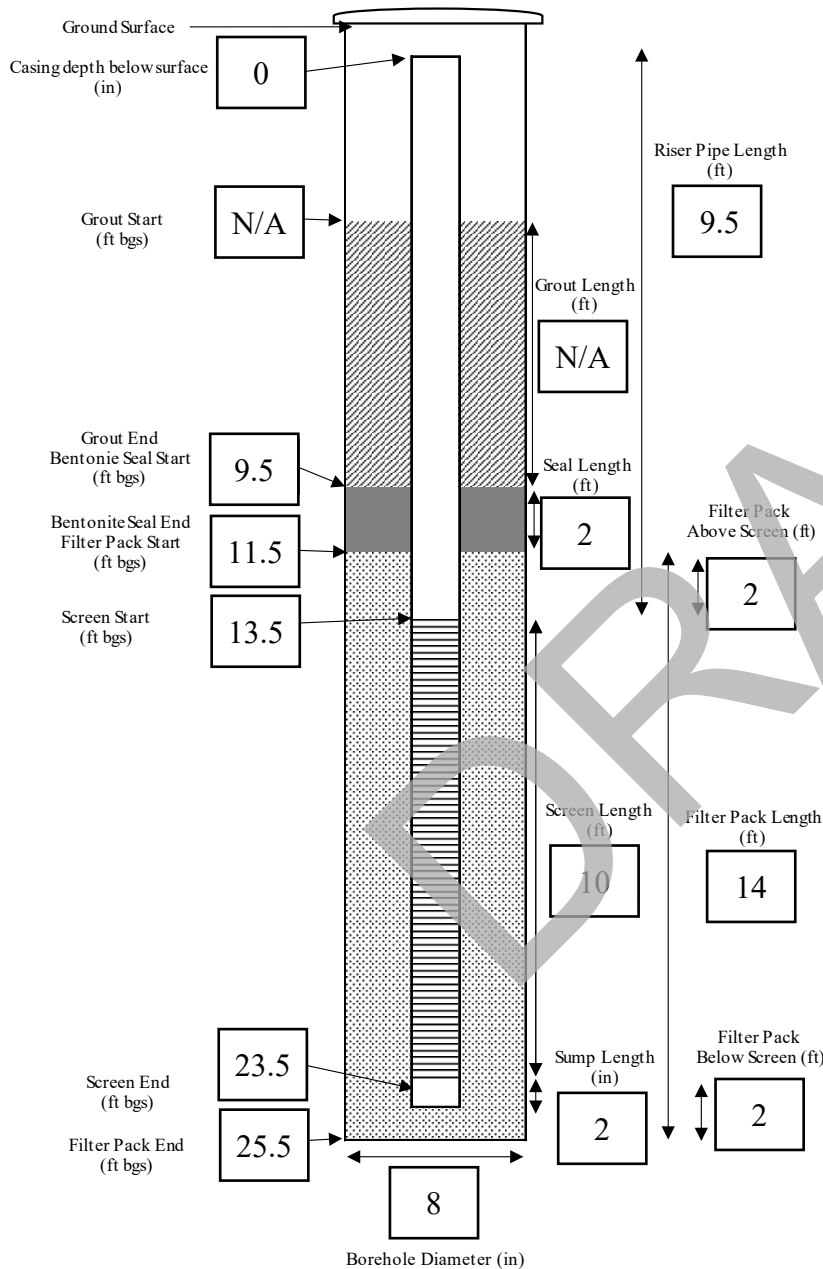
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-73I
Drilling Company: Cascade
Driller: Joe
Geologist/Engineer: SD
Casing Installation Date: 8/5/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.04



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☐ Ground Surface ☐ Other:

Grout – Date Placed: 8/5/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/5/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons

Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-73S
Drilling Company: Cascade
Driller: Joe
Geologist/Engineer: S. Perdziola
Casing Installation Date: 8/6/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.12

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/6/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/6/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/6/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 8 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

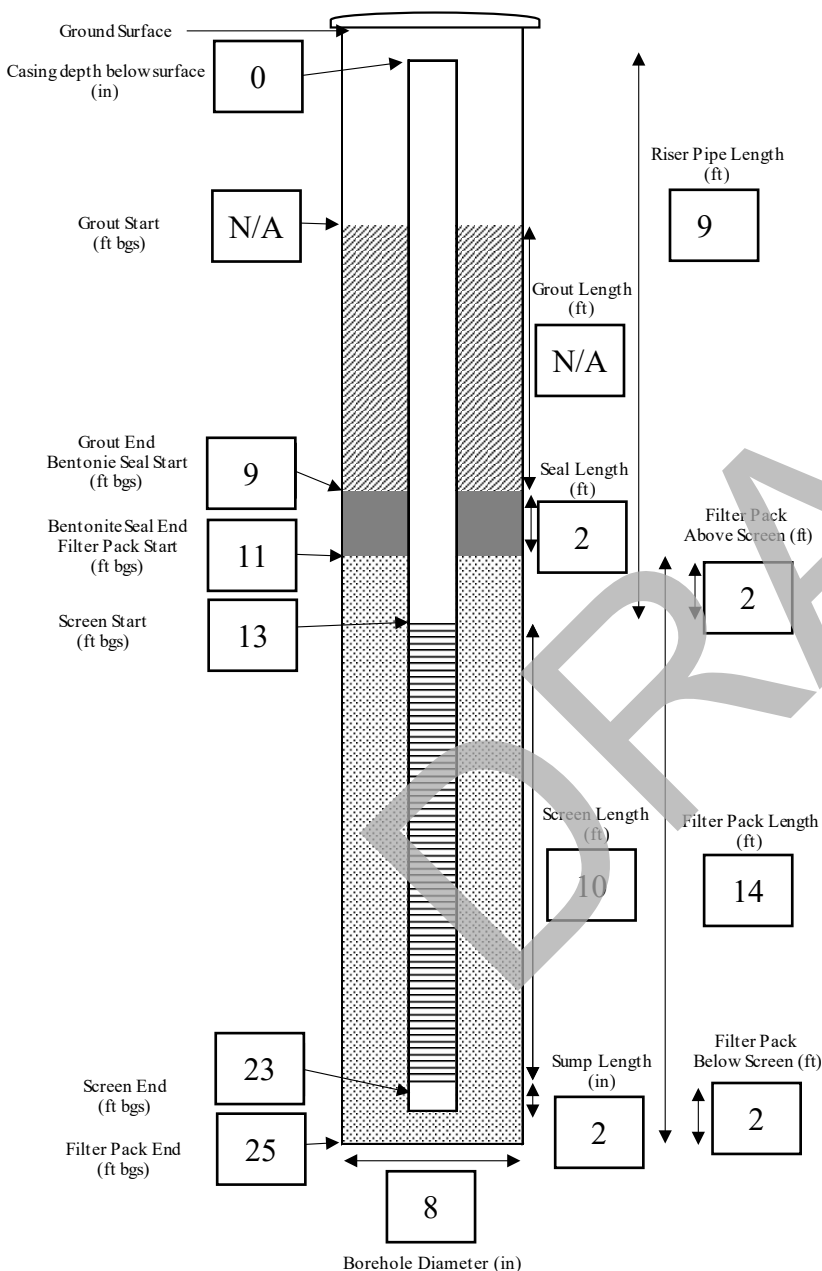
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments: water at 14' bgs

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-74I
Drilling Company: Cascade
Driller: Joe
Geologist/Engineer: S. Perdziola
Casing Installation Date: 8/11/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.13

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/11/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/11/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/11/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 8 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

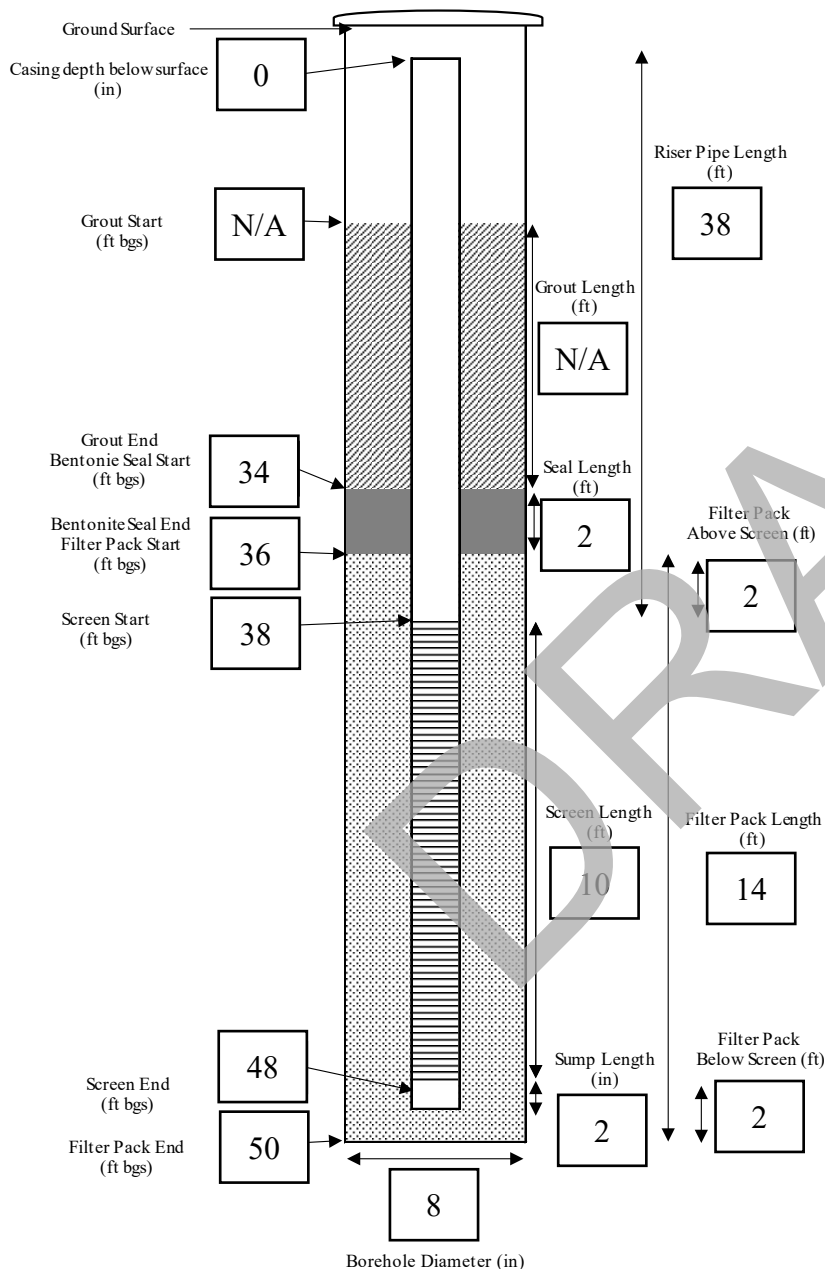
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments: Water at 15' and Clay at 47'

Notes:

- Drawing not to scale
- Units are in feet

Site:	Elmira, NY
Installation Method:	HSA
Geologic Completion Zone:	Overburden
Casing Size:	2-inch PVC
Top of Casing Elevation (ft amsl):	854.15

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/12/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
 Source/Brand: N/A
 Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

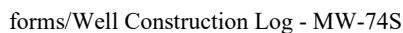
Type: ☒ 3/8" Bentonite Chips ☐ Other:
 Source/Brand: PDS Bentonite Plug
 Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
 Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
 Vol. Fluid Added: ☐ gallons ☐ liters

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 8 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
 Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
 Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
 Screen Slot Size: ☒ 0.010-inch ☐ Other:
 Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
 Sump or Bottom Cap: ☒ Yes ☐ No

Introduced: _ gallons Recovered: _ gallons



Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-75I
Drilling Company: Cascade
Driller: Joe and Jeff
Geologist/Engineer: A. Waheed
Casing Installation Date: 8/25/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.81

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/25/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/25/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/25/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/26/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: 6 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

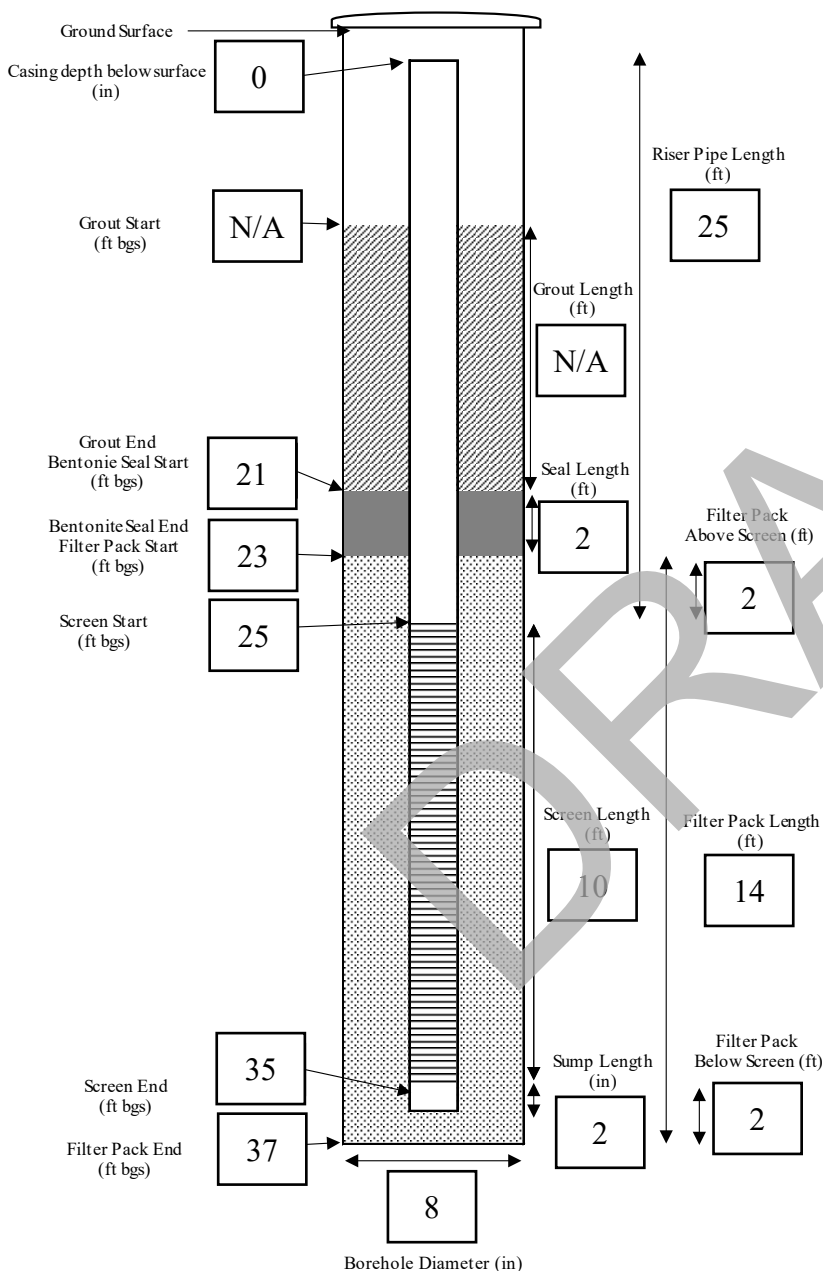
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

Site:	Elmira, NY
Installation Method:	HSA
Geologic Completion Zone:	Overburden
Casing Size:	2-inch PVC
Top of Casing Elevation (ft amsl):	854.30

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/25/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/25/21 Time Placed: _____
Composition/Proportions: _____
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal – Date Placed: 8/25/21 Time Placed:
Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: 6 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

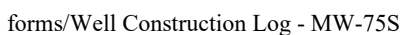
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:

Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:

Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
 Screen Slot Size: ☒ 0.010-inch ☐ Other:
 Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
 Sump or Bottom Cap: ☒ Yes ☐ No

Introduced: _ gallons Recovered: _ gallons



Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-76I
Drilling Company: Cascade
Driller: Rich and Yusef
Geologist/Engineer: S. Perdziola
Casing Installation Date: 8/31/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.00

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/31/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/31/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/31/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/31/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

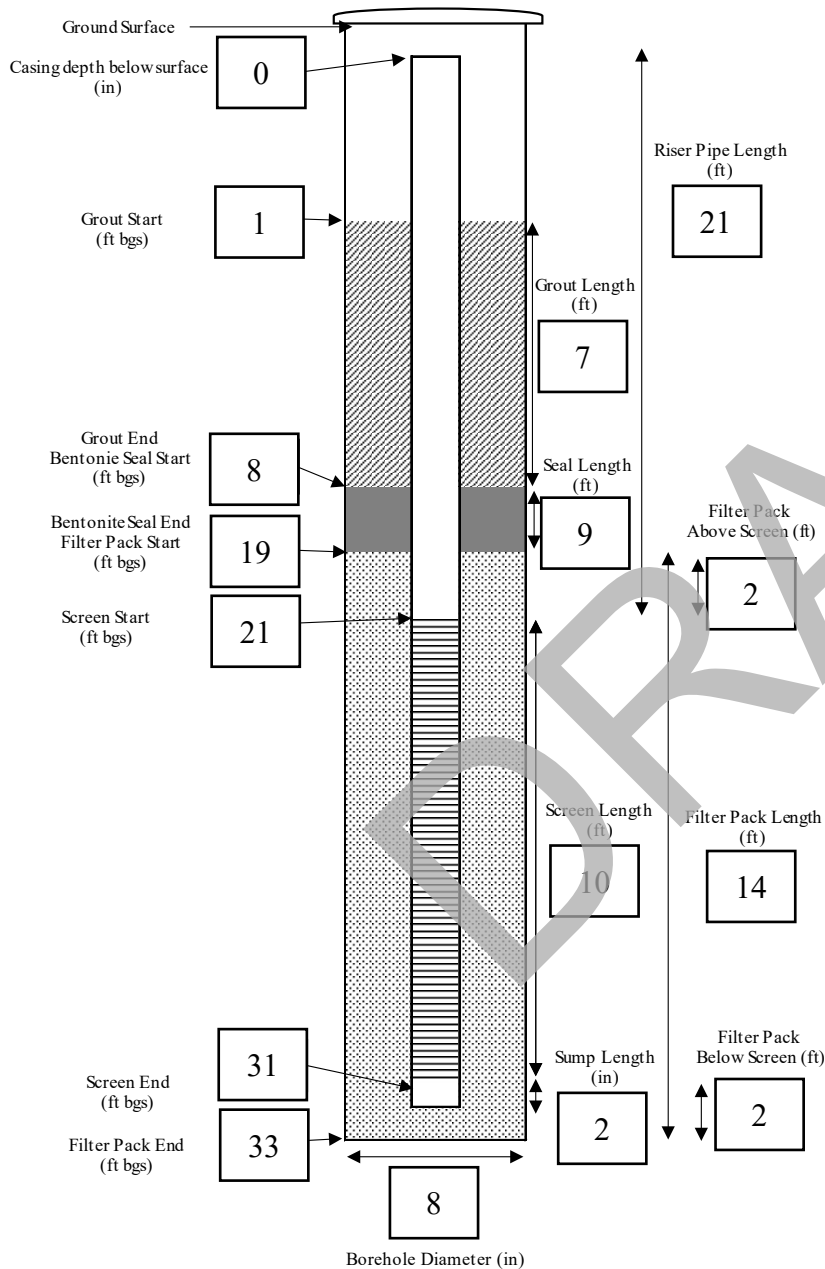
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments: Water at 17' and Clay at 30'

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-76S
Drilling Company: Cascade
Driller: Rich and Yusef
Geologist/Engineer: S. Perdziola
Casing Installation Date: 8/31/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.59

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/30/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/30/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/30/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/30/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 8 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

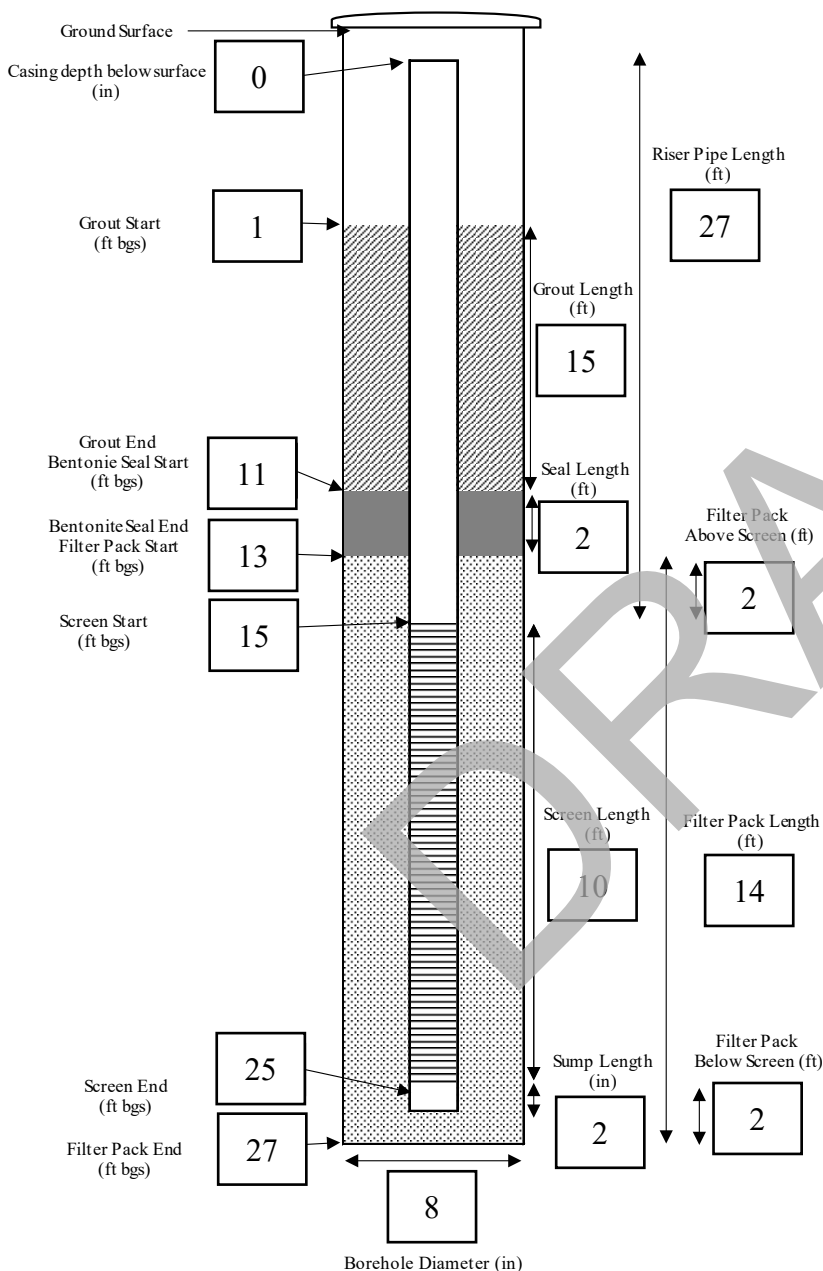
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments: Water at 14' bgs and clay at 29' bgs

Notes:

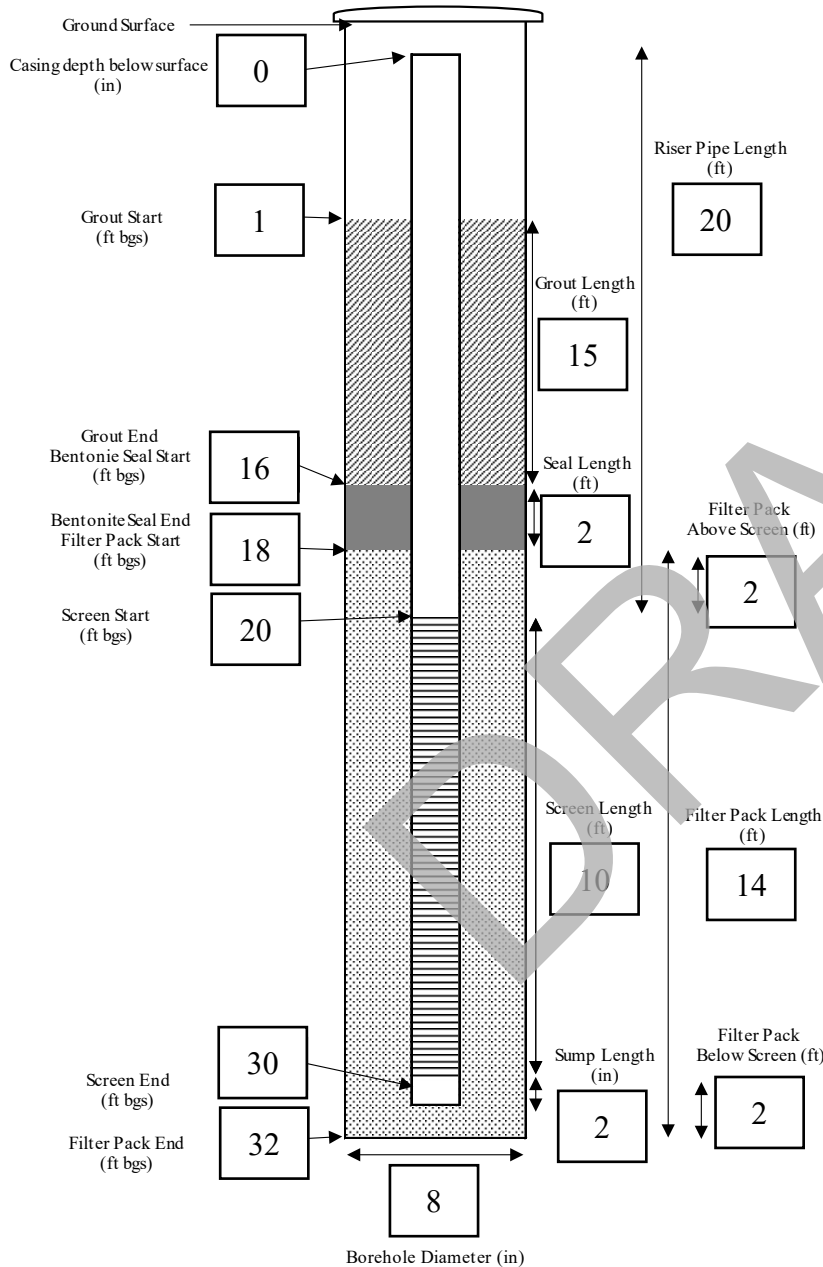
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-77I
Drilling Company: Cascade
Driller: Rich and Yusef
Geologist/Engineer: S. Perdziola
Casing Installation Date: 8/30/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.59



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/30/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/30/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout - Date Placed: 8/30/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement - Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal - Date Placed: 8/30/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 8 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC - Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC - Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons

Comments: Water at 14' bgs and clay at 29' bgs

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-77S
Drilling Company: Cascade
Driller: Joe and Jeff
Geologist/Engineer: S. Perdziola
Casing Installation Date: 8/31/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.45

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/31/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/30/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/31/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/30/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 8 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

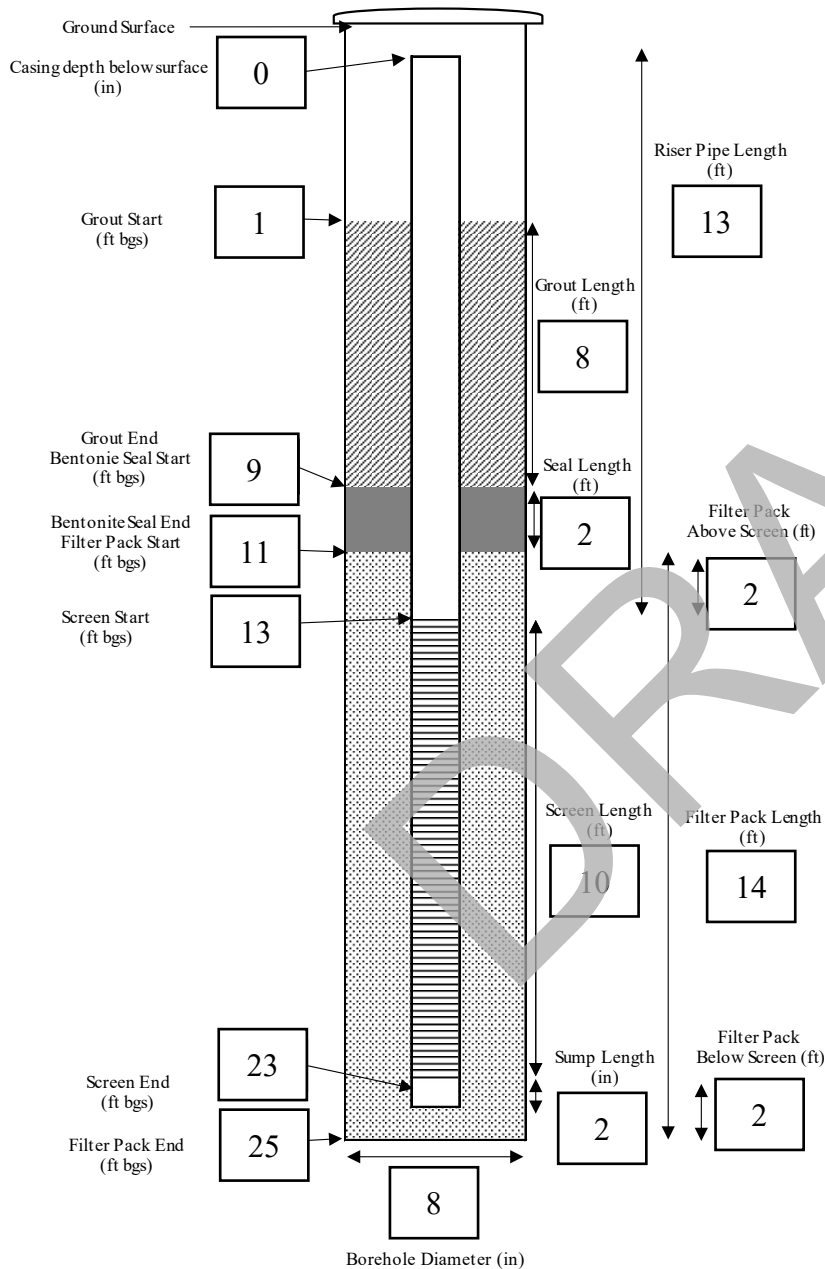
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-78I
Drilling Company: Cascade
Driller: Joe and Jeff
Geologist/Engineer: S. Perdziola
Casing Installation Date: 9/2/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.54

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 9/3/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 9/3/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 9/3/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 9/3/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 3 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

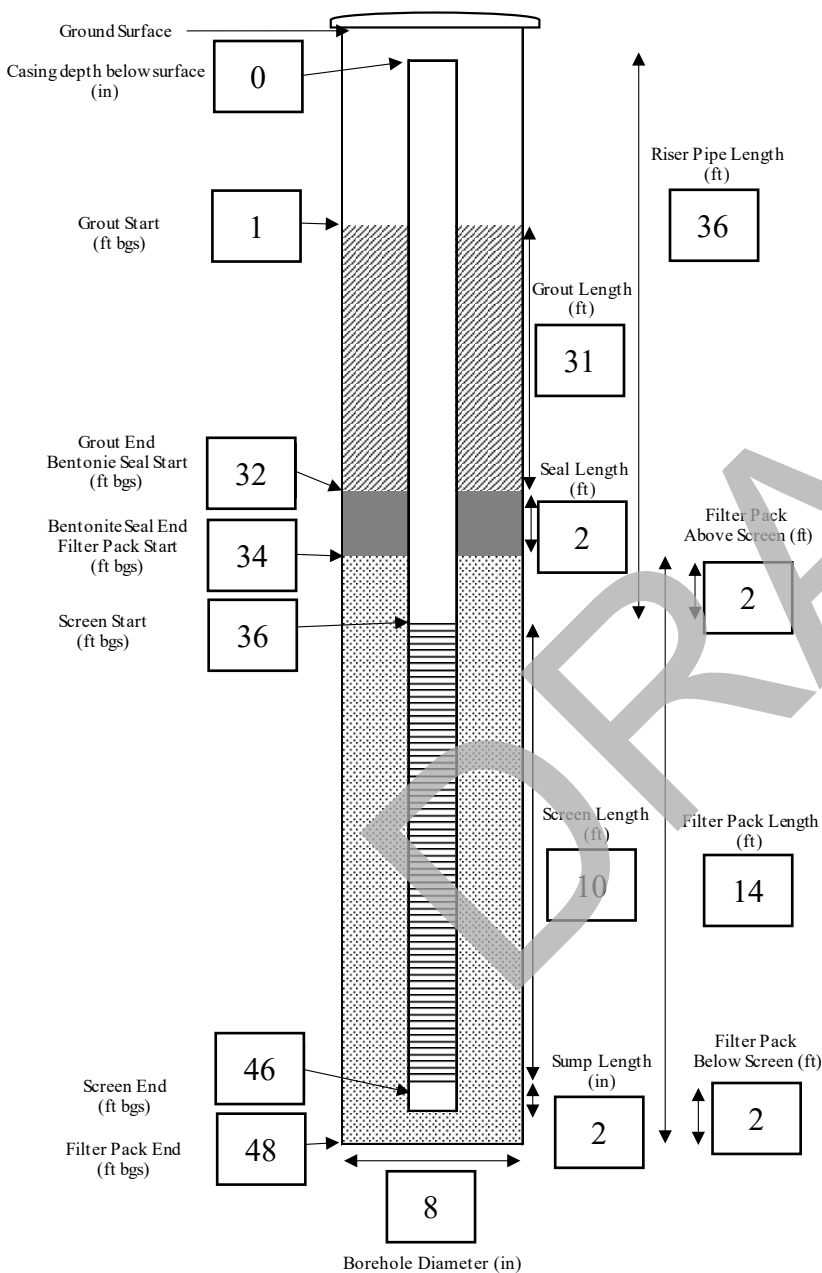
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-78S
Drilling Company: Cascade
Driller: Joe and Jeff
Geologist/Engineer: S. Perdziola
Casing Installation Date: 9/2/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.44

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 9/2/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 9/2/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 9/2/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 9/2/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

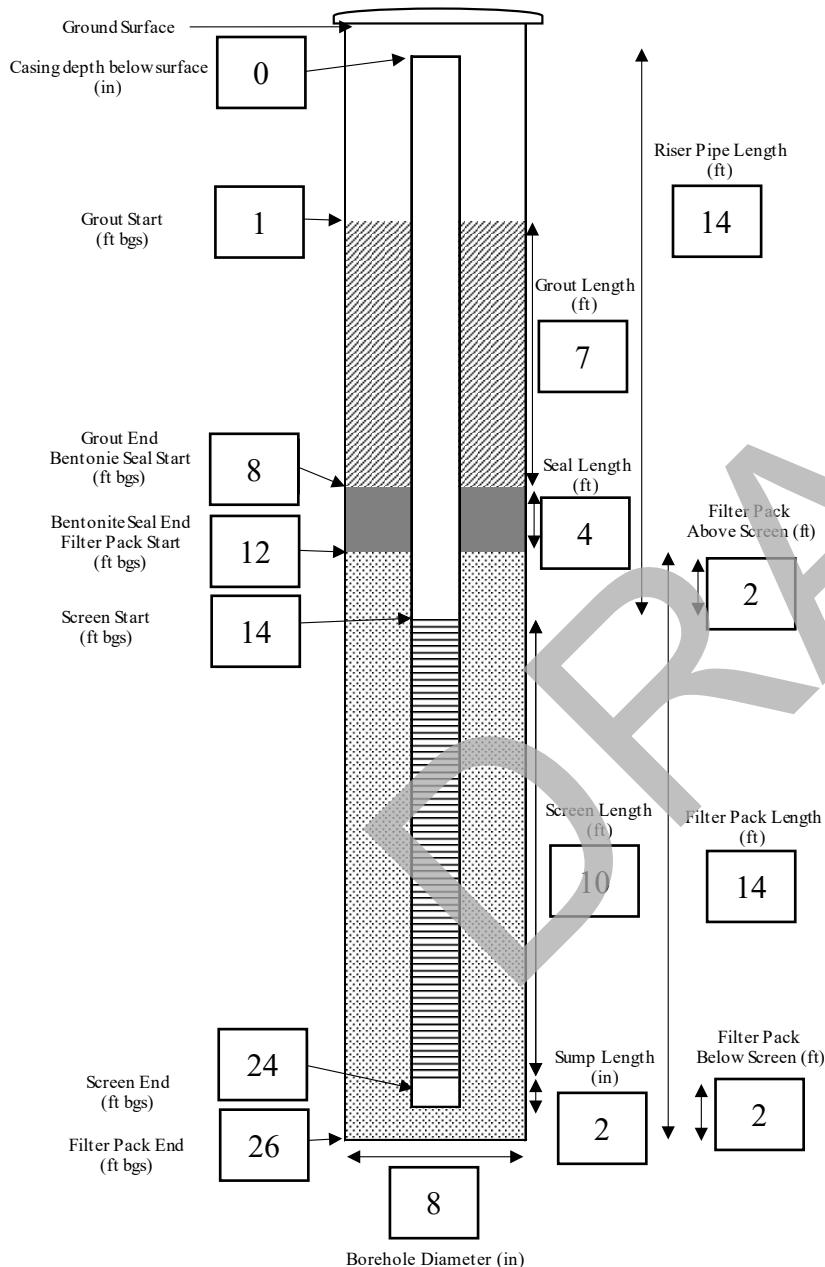
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments: Water at 15' bgs and clay at 45' bgs

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-79I
Drilling Company: Cascade
Driller: Joe and Jeff
Geologist/Engineer: S. Perdziola
Casing Installation Date: 9/2/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.72

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 9/2/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 9/2/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 9/2/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 9/2/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

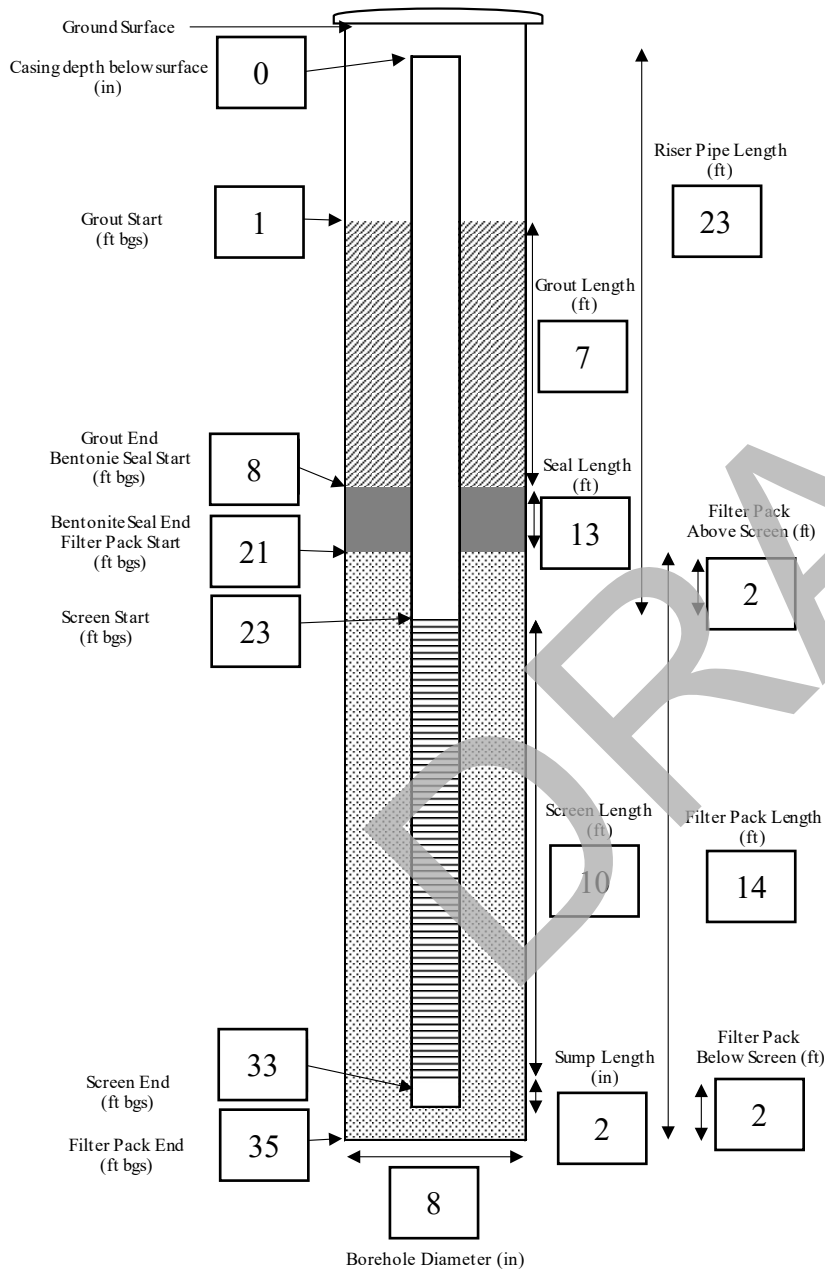
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments: Water at 15' bgs and clay at 45' bgs

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-79S
Drilling Company: Cascade
Driller: Joe and Jeff
Geologist/Engineer: S. Perdziola
Casing Installation Date: 9/2/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 856.01

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 9/2/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 9/2/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 9/2/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 9/2/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 6 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

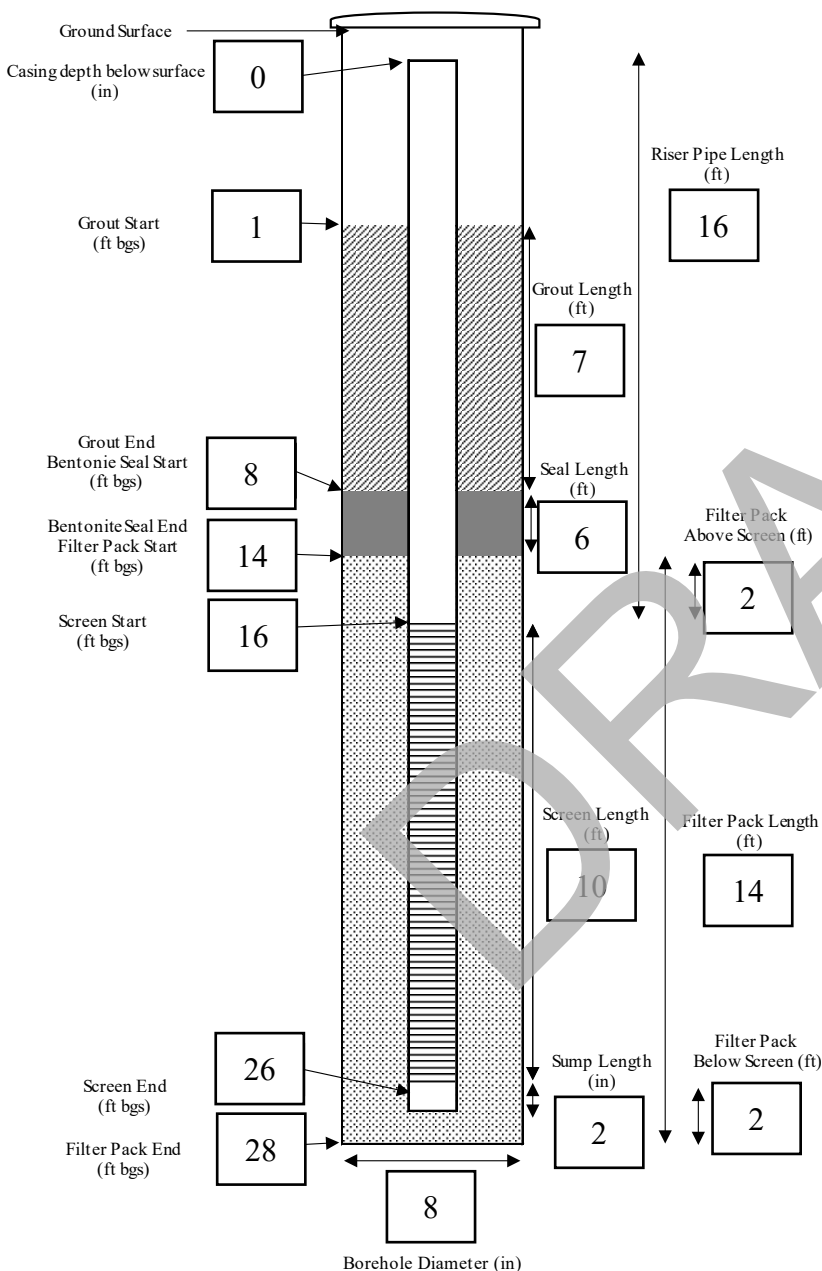
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☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons



Comments: Water at 18' bgs and clay at 32' bgs

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-811
Drilling Company: Cascade
Driller: Roger Baley
Geologist/Engineer: N/A
Casing Installation Date: 6/29/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.60

Well Completion

Guard Posts/Bollards: ☐ Yes ☐ No Date Installed: 6/29/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 6/29/21

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 6/29/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 6/29/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: _ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

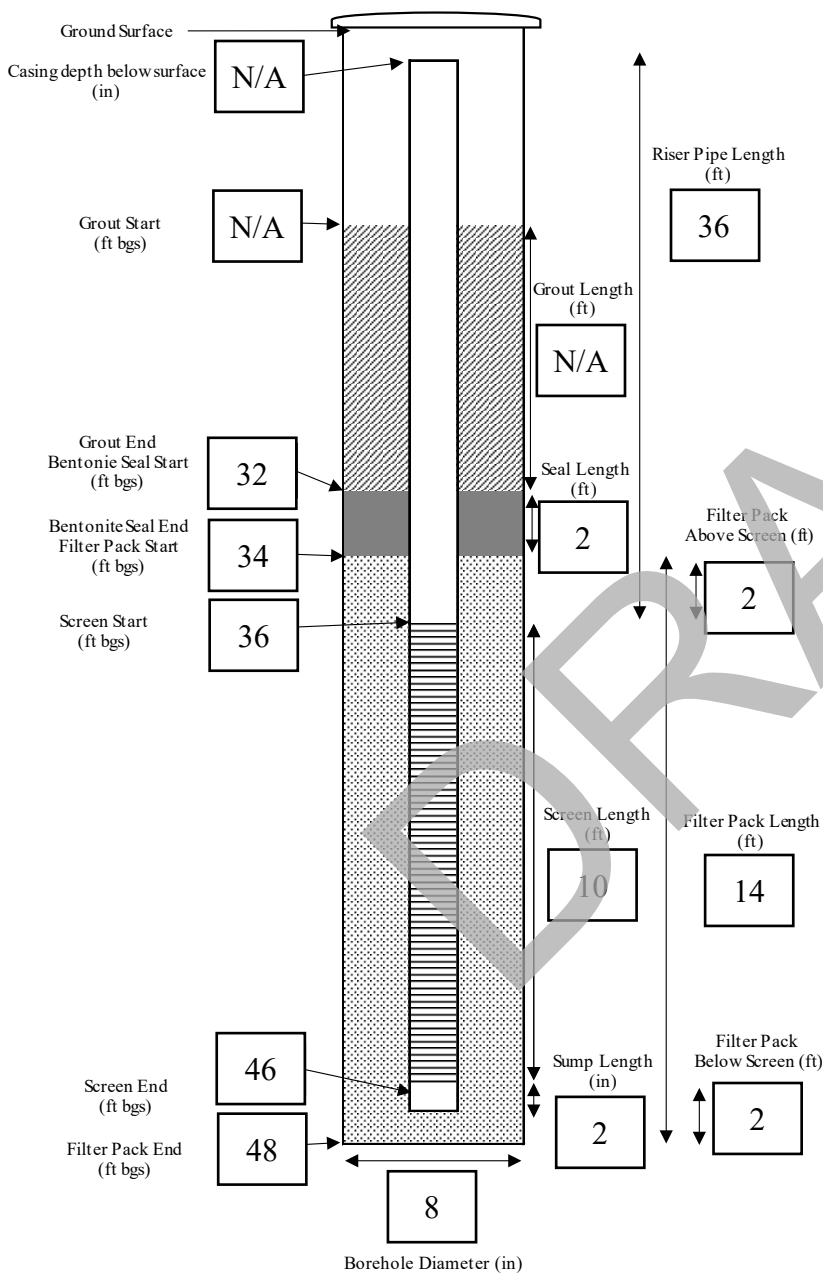
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☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons



Comments:

Notes:

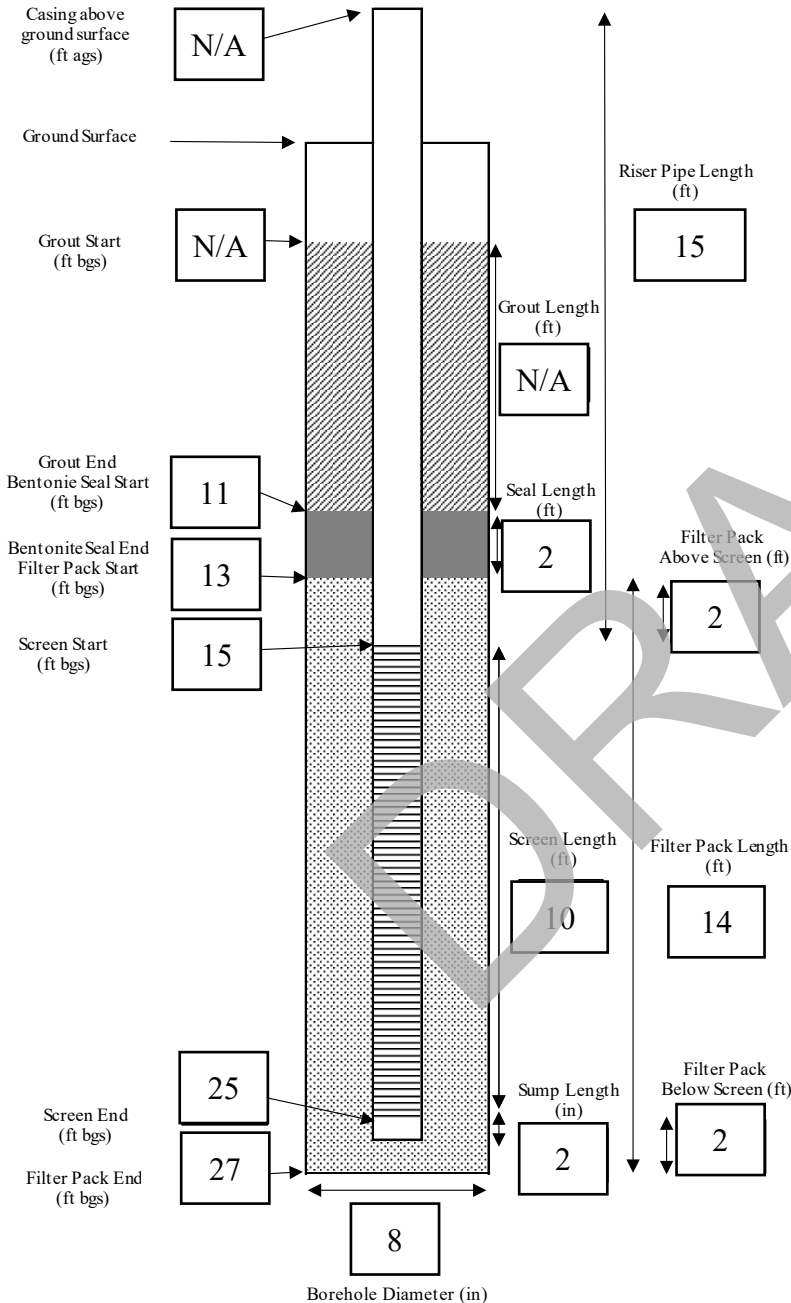
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-82S
Drilling Company: Cascade
Driller: Joe, Blake
Geologist/Engineer: SD, SP
Casing Installation Date: 8/02/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.05



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: __ ft x __ ft x __ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: __ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/02/2021 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: Enviroplug
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/02/2021 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 6 __ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: __ gallons Recovered: __ gallons

Comments: Water table at 16' bgs

Notes:

1. Drawing not to scale
2. Units are in feet

Site:	Elmira, NY
Installation Method:	HSA
Geologic Completion Zone:	Overburden
Casing Size:	2-inch PVC
Top of Casing Elevation (ft amsl):	854.77

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/27/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
 Source/Brand: N/A
 Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

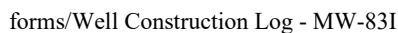
Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: 6 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
 Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
 Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
 Screen Slot Size: ☒ 0.010-inch ☐ Other:
 Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
 Sump or Bottom Cap: ☒ Yes ☐ No

Introduced: _ gallons Recovered: _ gallons



Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-83S
Drilling Company: Cascade
Driller: Joe, Jeff
Geologist/Engineer: A. Waheed
Casing Installation Date: 8/26/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.71

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/26/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/26/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/26/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/26/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: 6 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

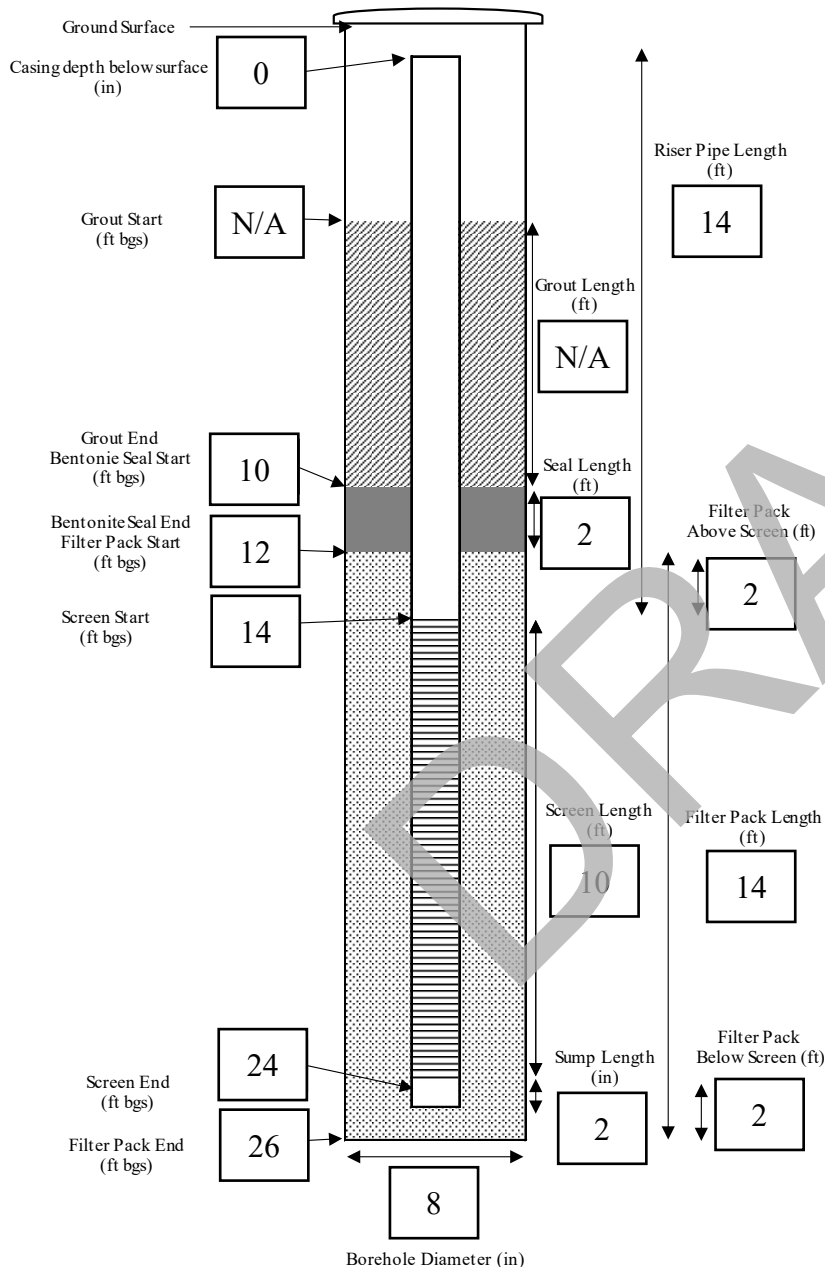
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☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons



Comments: Water table at 16' bgs

Notes:

1. Drawing not to scale
2. Units are in feet

Site:	Elmira, NY
Installation Method:	HSA
Geologic Completion Zone:	Overburden
Casing Size:	2-inch PVC
Top of Casing Elevation (ft amsl):	855.54

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/23/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
 Source/Brand: N/A
 Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other

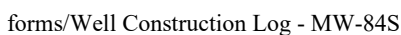
Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: 8 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
 Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Introduced: _ gallons Recovered: _ gallons



Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-85I
Drilling Company: Cascade
Driller: Roger, Zach
Geologist/Engineer: N/A
Casing Installation Date: 6/16/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.12

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 6/16/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 6/16/21

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 6/16/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 6/16/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica Superior Filtration
Amount Used: 7 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

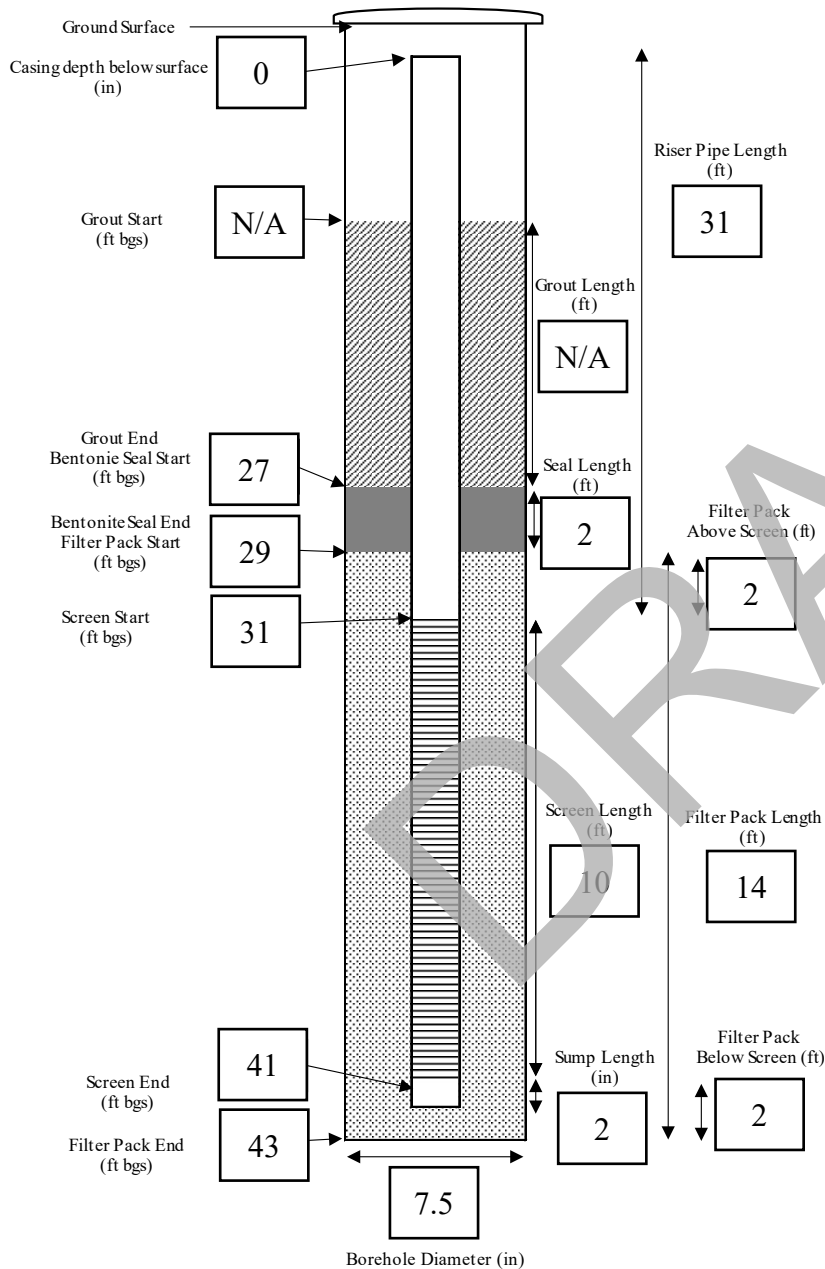
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons



Comments:

Notes:

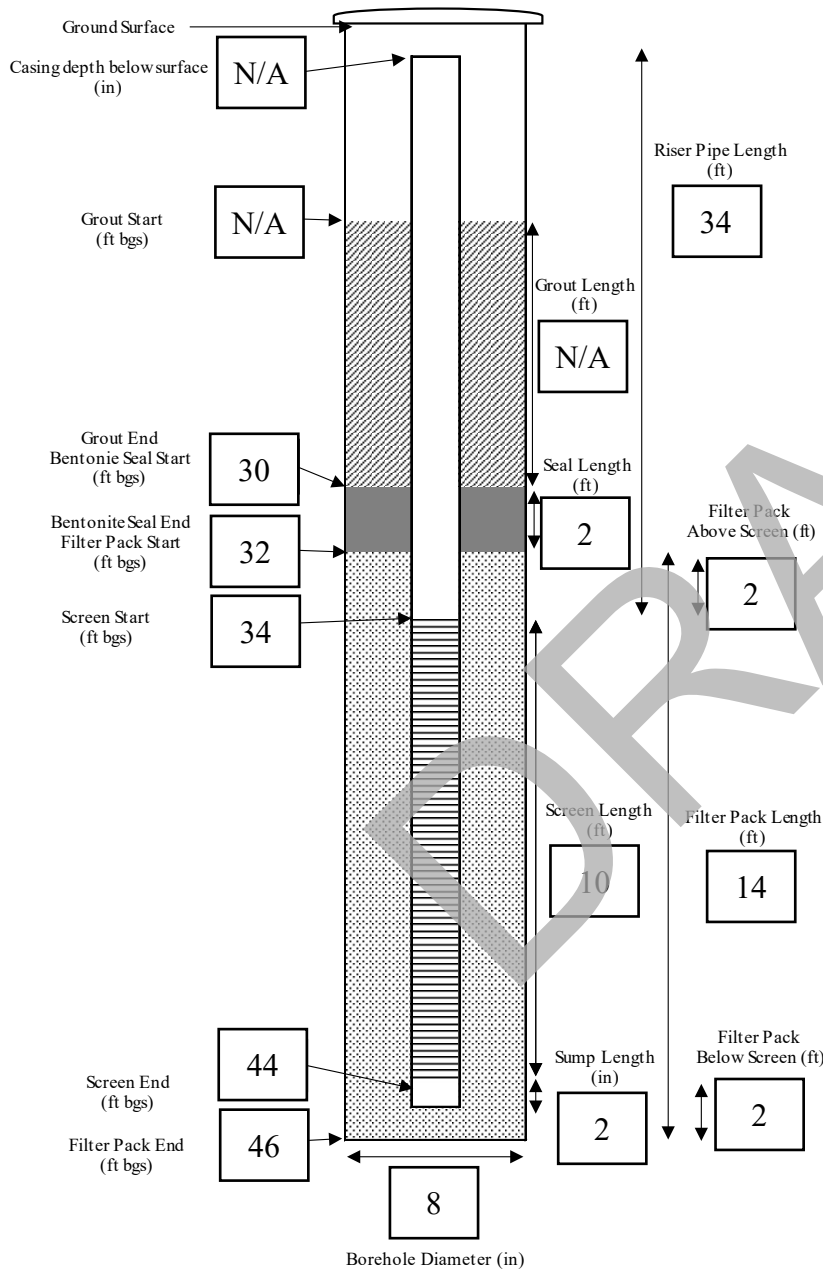
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-86I
Drilling Company: Cascade
Driller: Roger, Zach
Geologist/Engineer: N/A
Casing Installation Date: 6/29/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.56



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 6/18/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 6/18/21

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 6/18/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 6/18/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: _ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

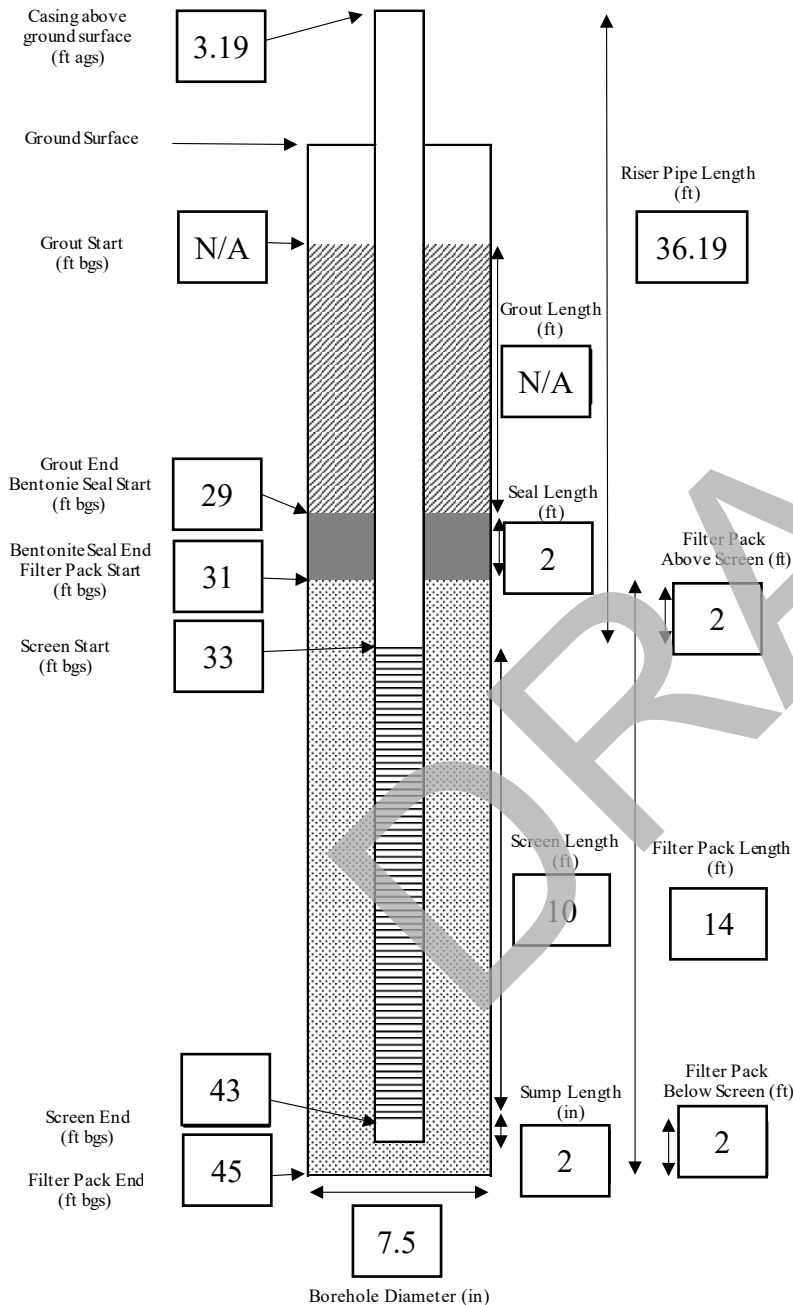
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-87I
Drilling Company: Cascade
Driller: Roger Baley
Geologist/Engineer: Sung-Woo Lee
Casing Installation Date: 6/29/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 859.71



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 6/29/2021
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 12 inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed: N/A

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout - Date Placed: N/A Time Placed: N/A

Composition/Proportions:
☒ 95/5 Type I/Type II Cement - Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal - Date Placed: N/A Time Placed: N/A

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica Superior Filtration
Amount Used: N/A ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC - Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC - Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 0 gallons Recovered: 0 gallons

Comments:

Notes:

- Drawing not to scale
- Units are in feet
- Well construction logs were not completed at time of installation. Known well construction details are shown above
- Monitoring well retrofit to stick-up completion as of 6/24/2024

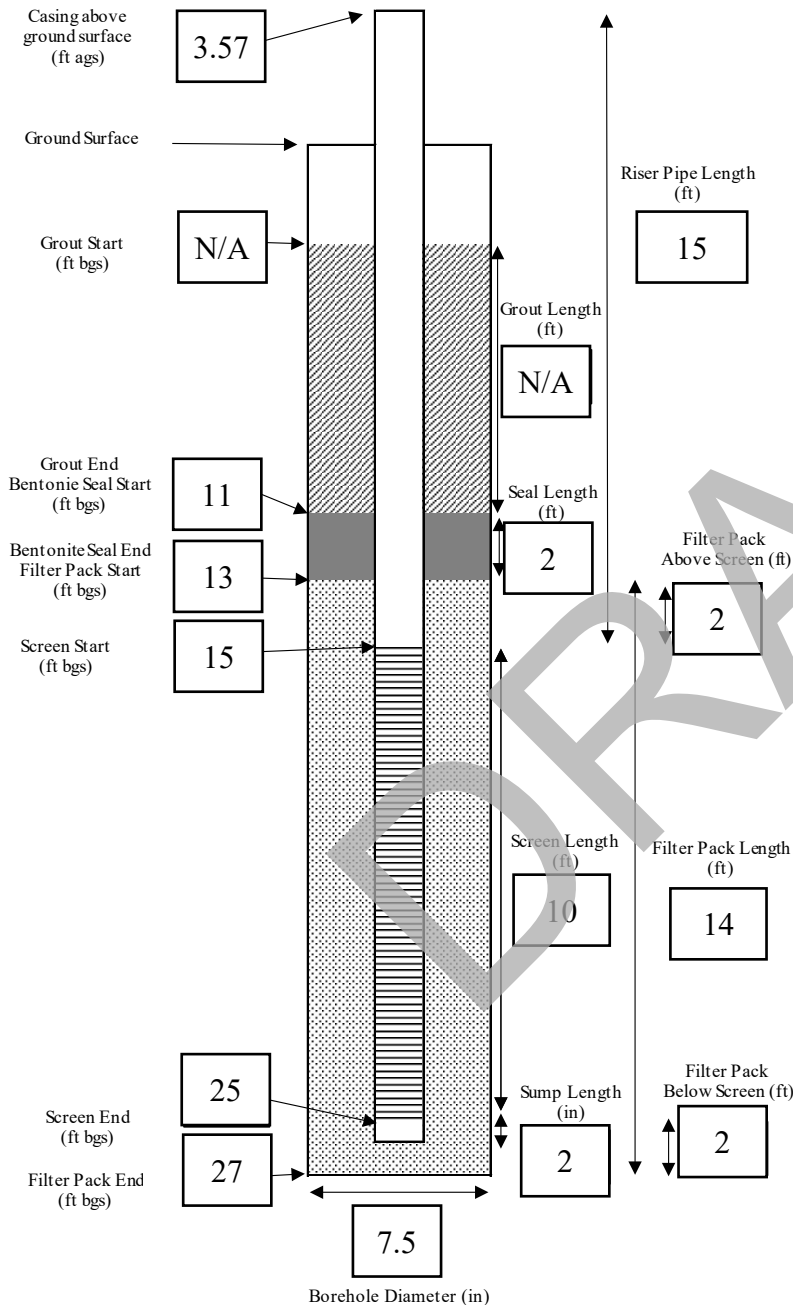
Site:	Elmira, NY
Installation Method:	HSA
Geologic Completion Zone:	Overburden
Casing Size:	2-inch PVC
Top of Casing Elevation (ft amsl):	859.67

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-88S
Drilling Company: Cascade
Driller: Roger Baley
Geologist/Engineer: Sung-Woo Lee
Casing Installation Date: 6/16/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 859.54



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 6/16/2021
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 12 inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed: N/A

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout - Date Placed: 6/16/2021 Time Placed: N/A

Composition/Proportions:
☒ 95/5 Type I/Type II Cement - Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal - Date Placed: 6/16/2021 Time Placed: N/A

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica Superior Filtration
Amount Used: 7 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC - Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC - Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 0 gallons Recovered: 0 gallons

Comments:

Notes:

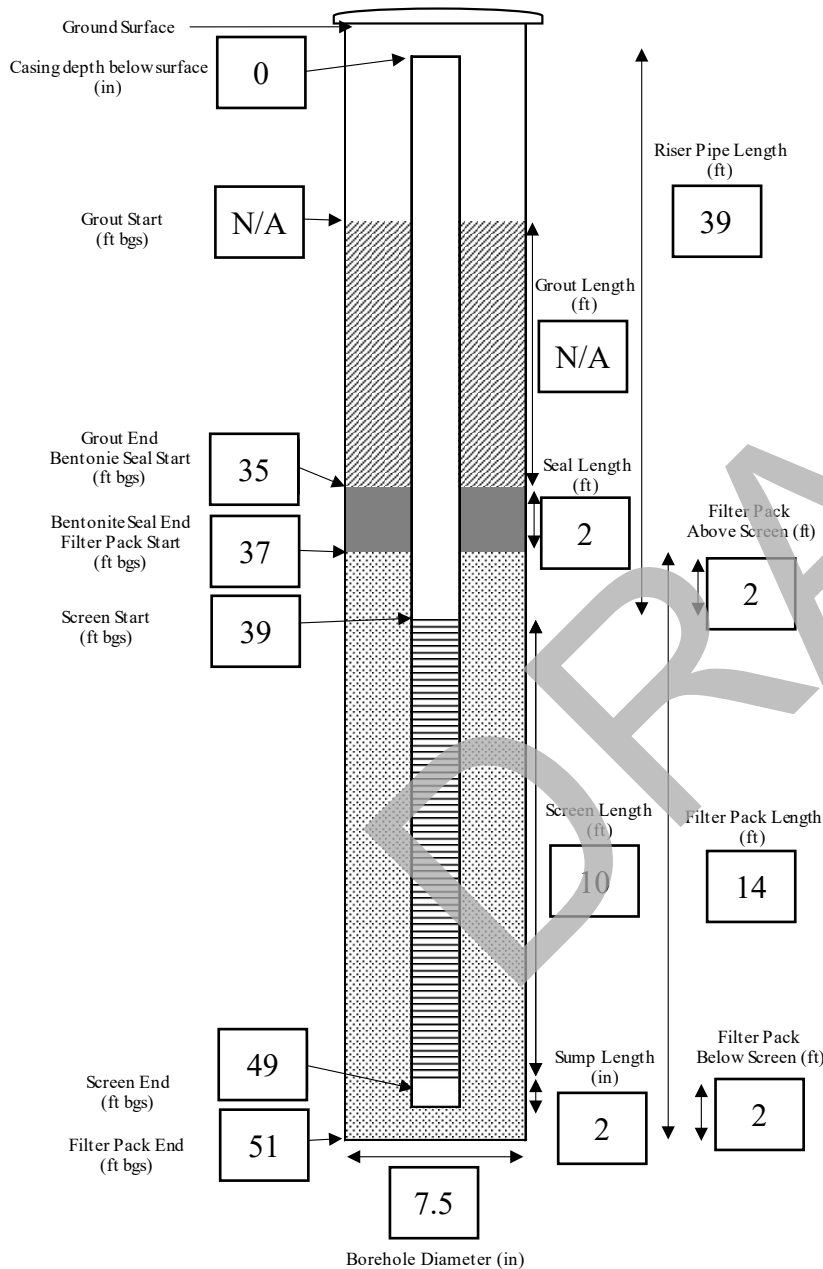
1. Drawing not to scale
2. Units are in feet
3. Monitoring well retrofit to stick-up completion as of 6/24/2024

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-89I
Drilling Company: Cascade
Driller: Roger, Zach
Geologist/Engineer: N/A
Casing Installation Date: 6/11/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.77



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 6/11/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 6/11/21

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 6/11/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 6/11/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica Superior Filtration
Amount Used: 7 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

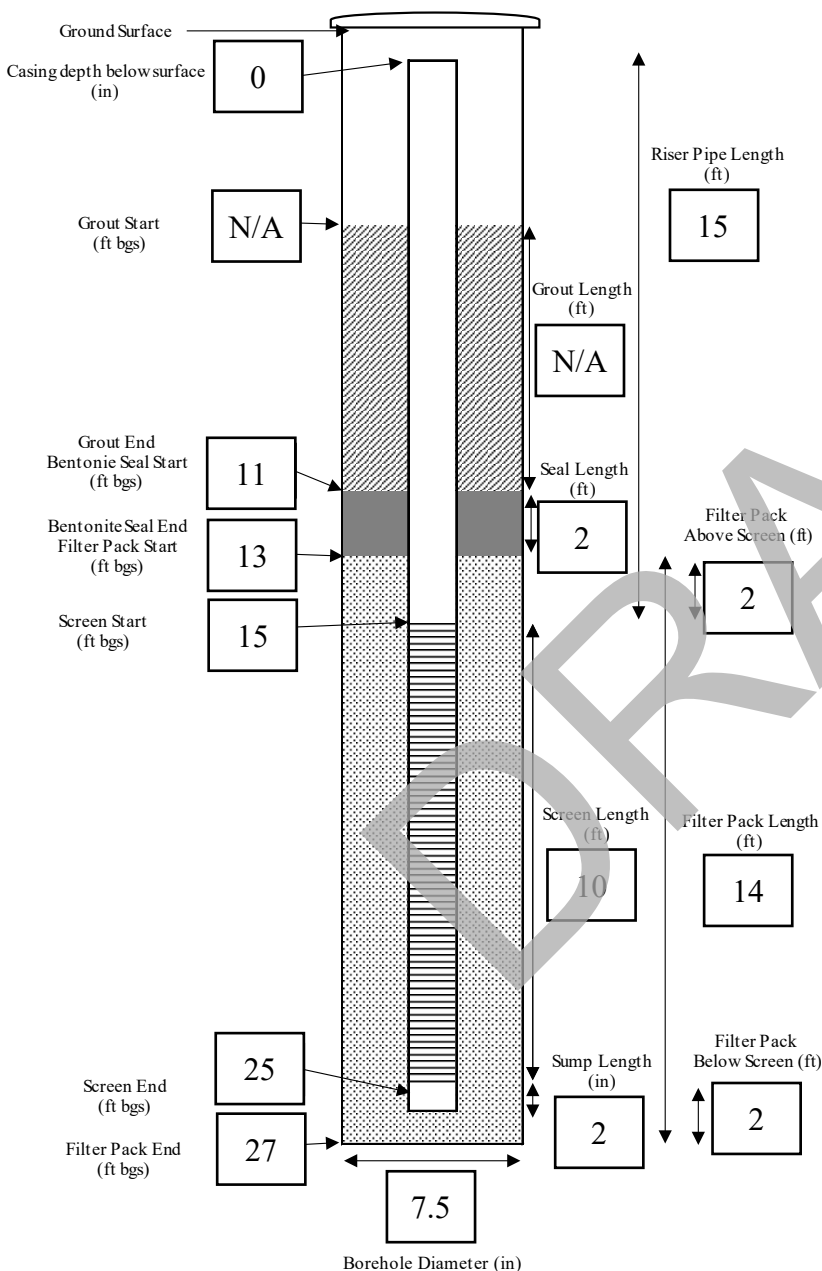
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-89S
Drilling Company: Cascade
Driller: Roger, Zach
Geologist/Engineer: N/A
Casing Installation Date: 6/11/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.00



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 6/11/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 6/11/21

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 6/11/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 6/11/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica Superior Filtration
Amount Used: 7 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

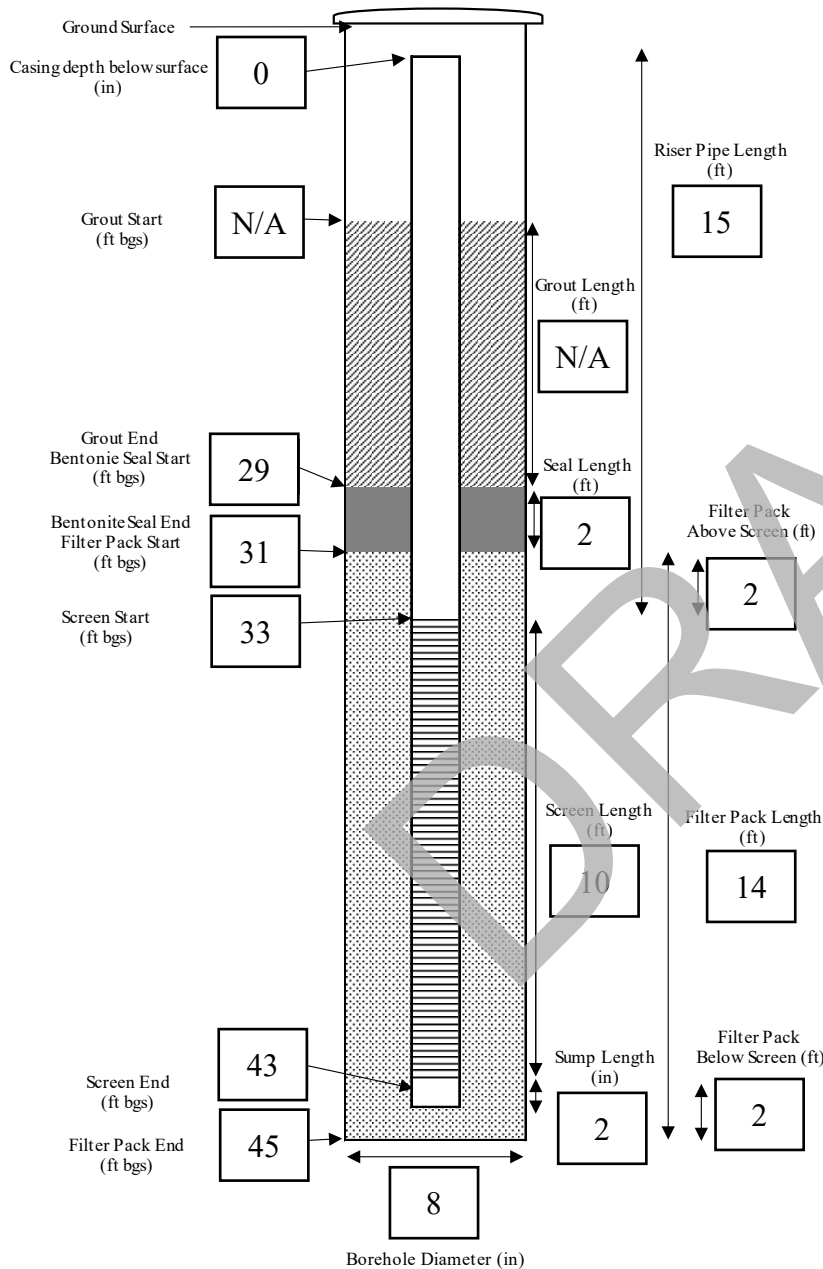
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-90I
Drilling Company: Cascade
Driller: Jeff, Joe
Geologist/Engineer: A. Waheed
Casing Installation Date: 8/19/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.39



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/19/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/19/21

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/19/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/19/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica Superior Filtration
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

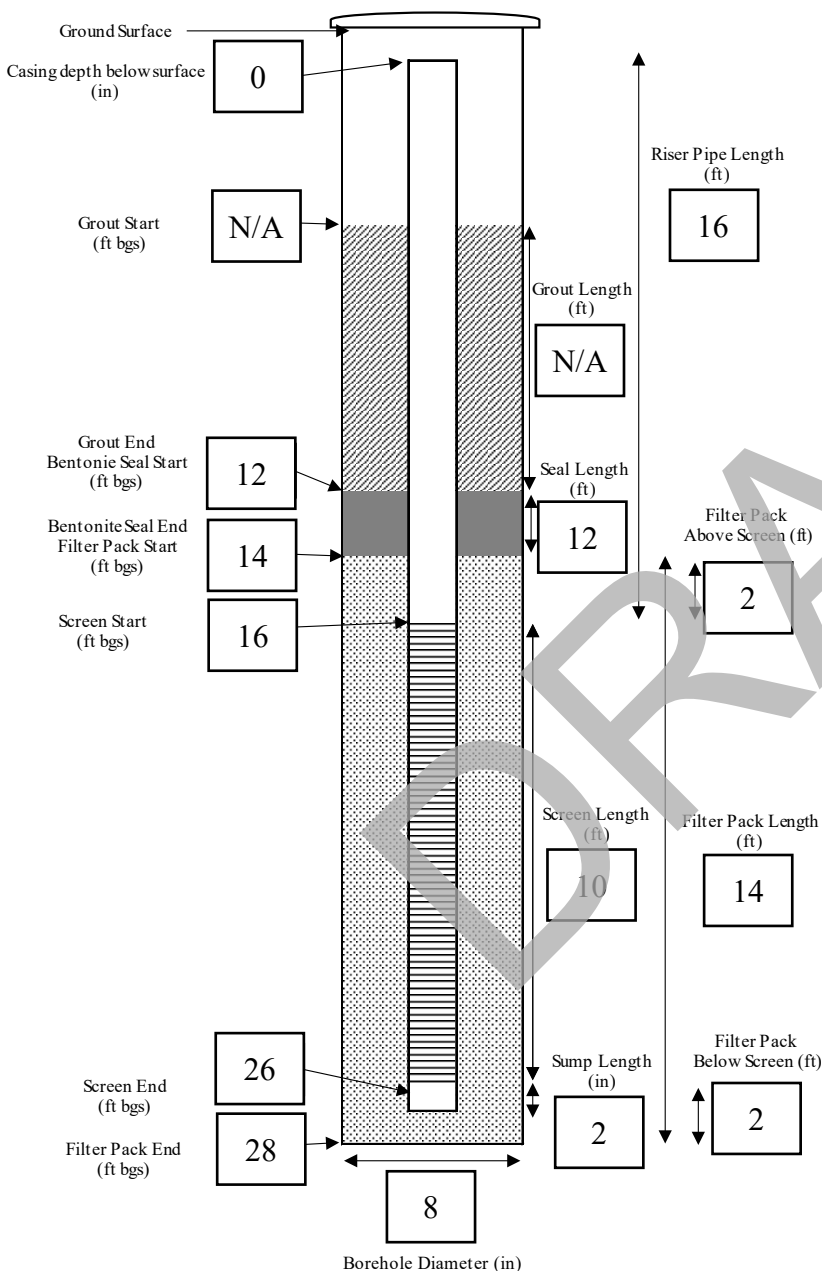
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-90S
Drilling Company: Cascade
Driller: Jeff, Joe
Geologist/Engineer: SD
Casing Installation Date: 8/19/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.38



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/18/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/18/21

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/18/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/18/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: US Silica Superior Filtration
Amount Used: 7 bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-91I
Drilling Company: Cascade
Driller: Jeff, Joe
Geologist/Engineer: A. Waheed
Casing Installation Date: 8/20/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.53

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/23/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/23/21

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/23/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/18/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: 8 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

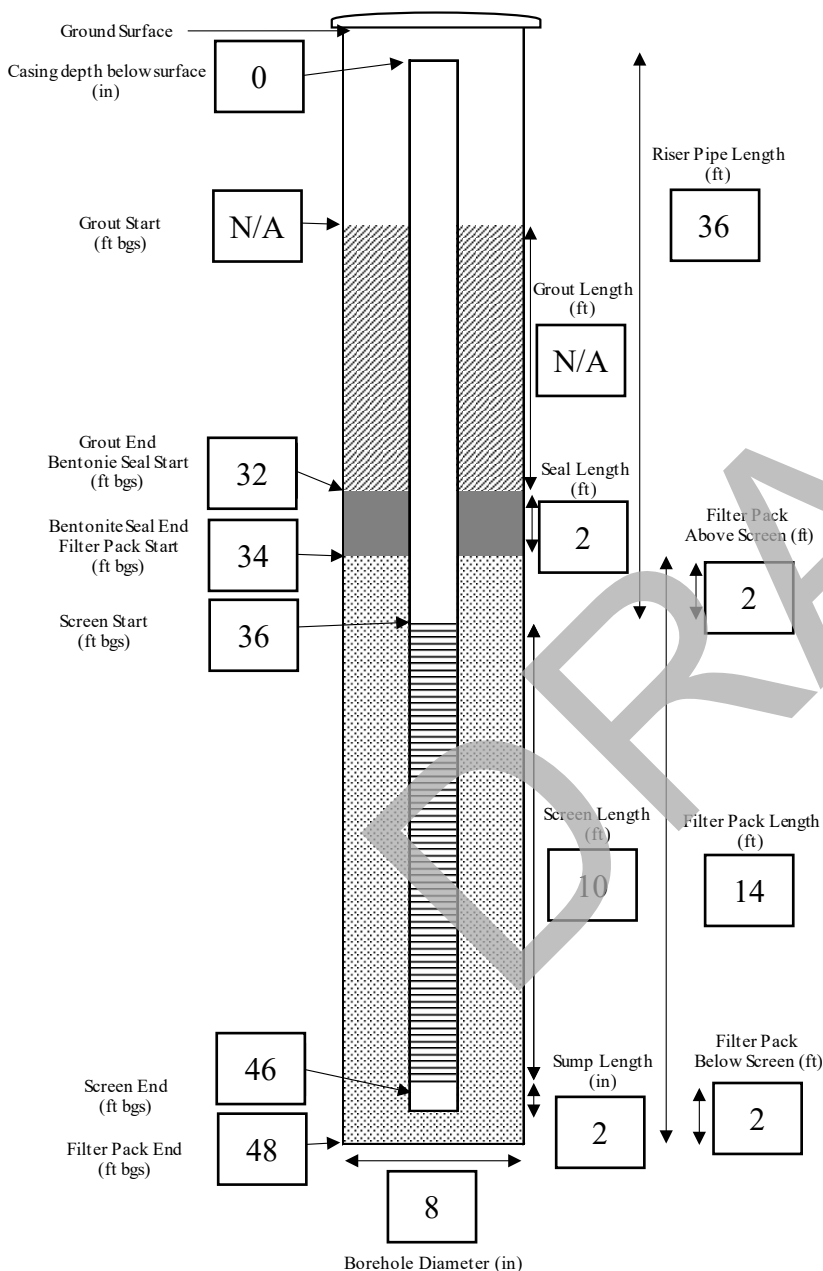
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons



Comments:

Notes:

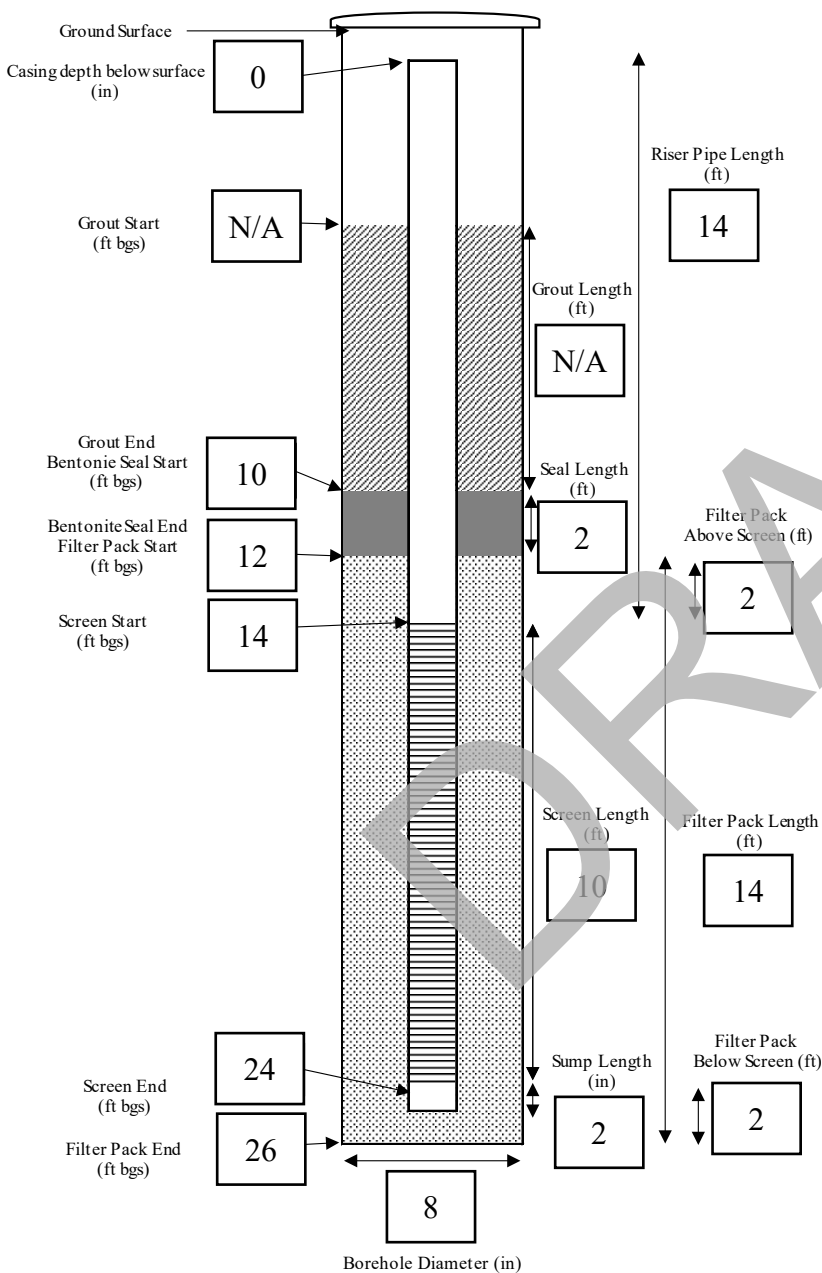
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-91S
Drilling Company: Cascade
Driller: Jeff, Joe
Geologist/Engineer: A. Waheed
Casing Installation Date: 8/20/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.53



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/20/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/20/21

Diameter: 2 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/20/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/20/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: N/A
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: N/A
Amount Used: ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

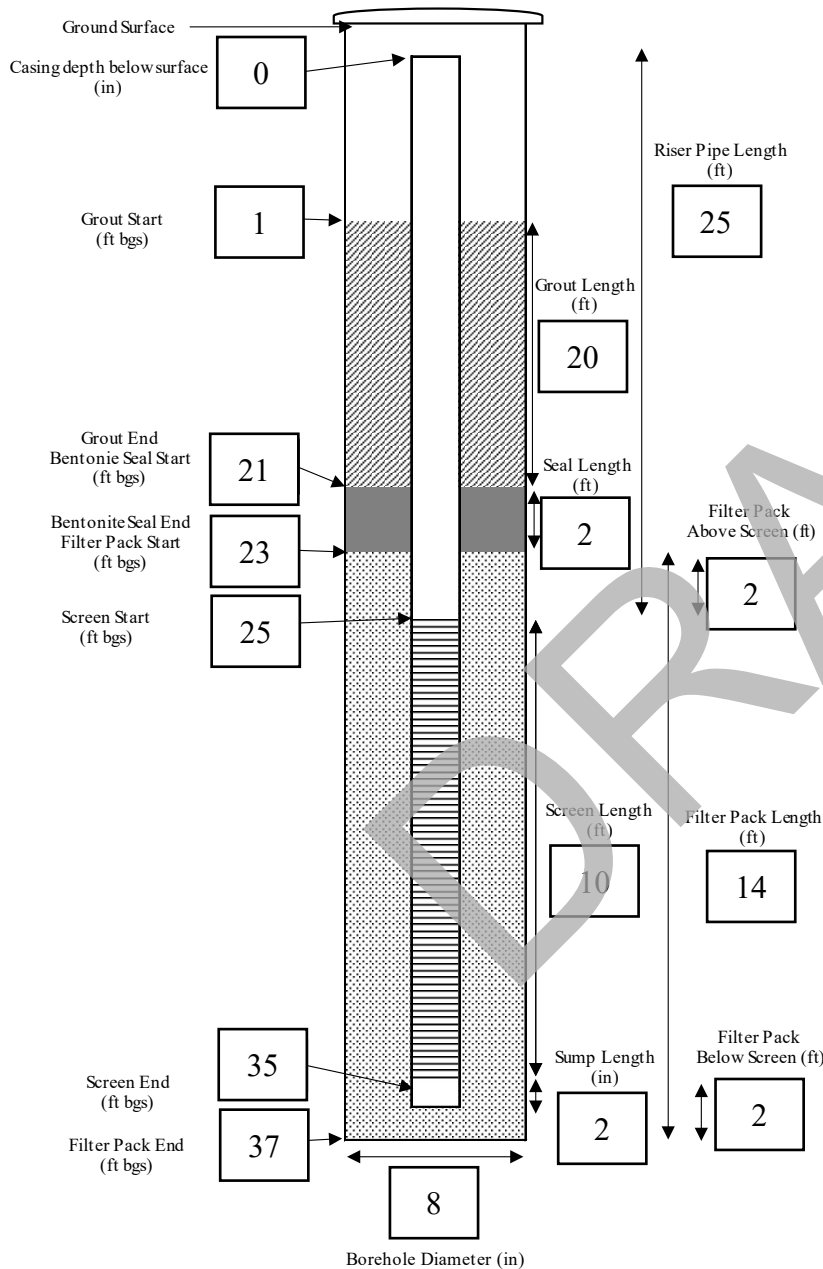
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-92I
Drilling Company: Cascade
Driller: RR, JY
Geologist/Engineer: S.Perdziola
Casing Installation Date: 9/1/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.38



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 9/1/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 9/1/21

Diameter: 8 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 9/1/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 9/1/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: PDS
Amount Used: 8 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

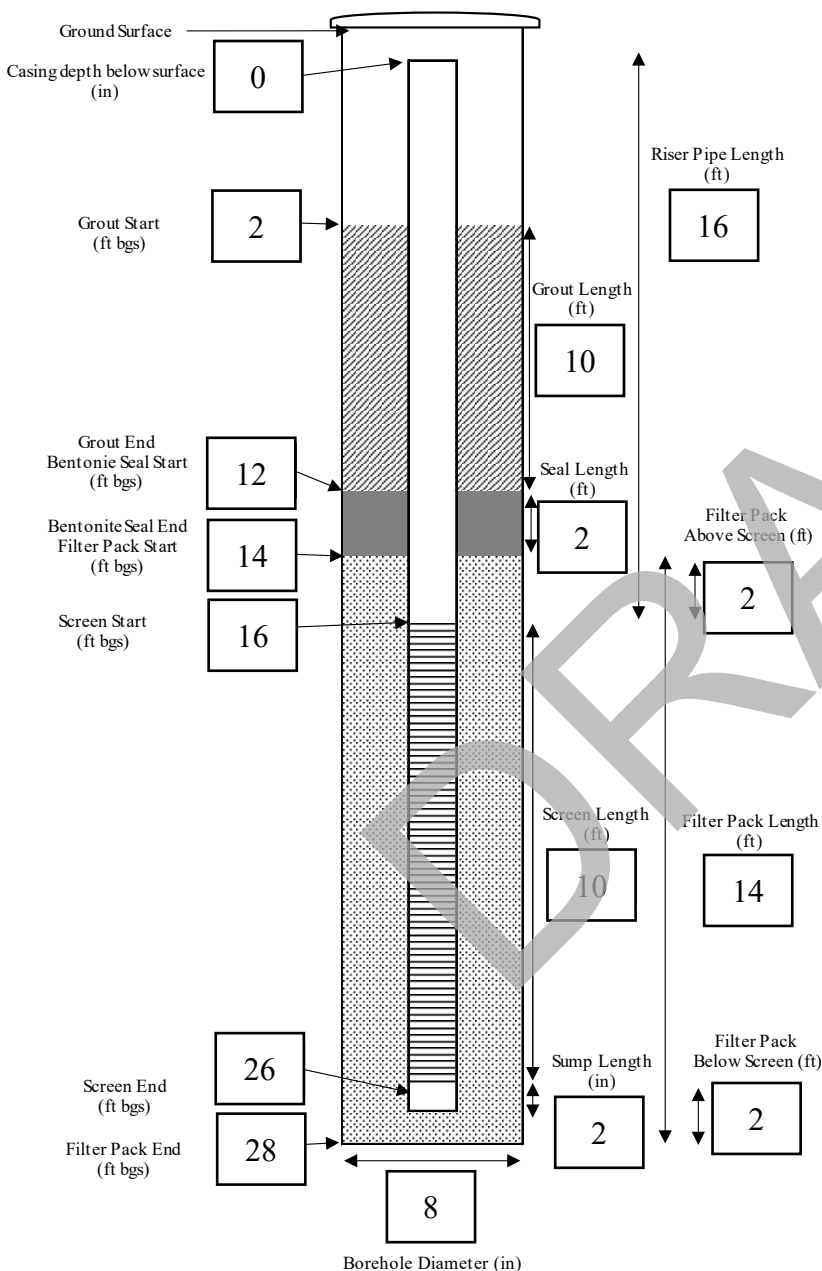
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-92S
Drilling Company: Cascade
Driller: JH, JY
Geologist/Engineer: S.Perdziola
Casing Installation Date: 9/1/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.34



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 9/1/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 9/1/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 9/1/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 9/1/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: PDS
Amount Used: 8 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: gallons Recovered: gallons

Comments: Water at 17' bgs, Clay at 34' bgs

Notes:

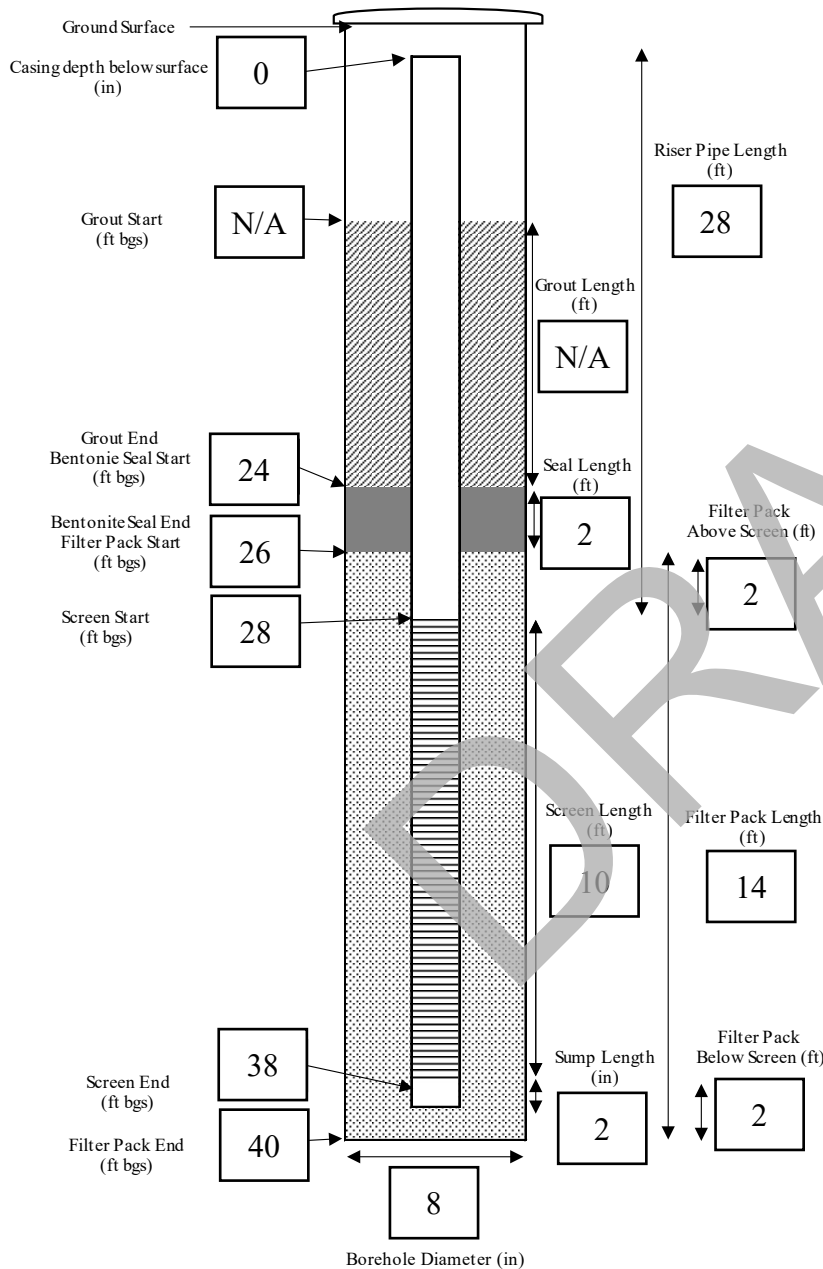
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-93I
Drilling Company: Cascade
Driller: Rich, Yusef
Geologist/Engineer: A. Waheed
Casing Installation Date: 8/30/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.97



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/26/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/26/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/26/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/26/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: 6 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

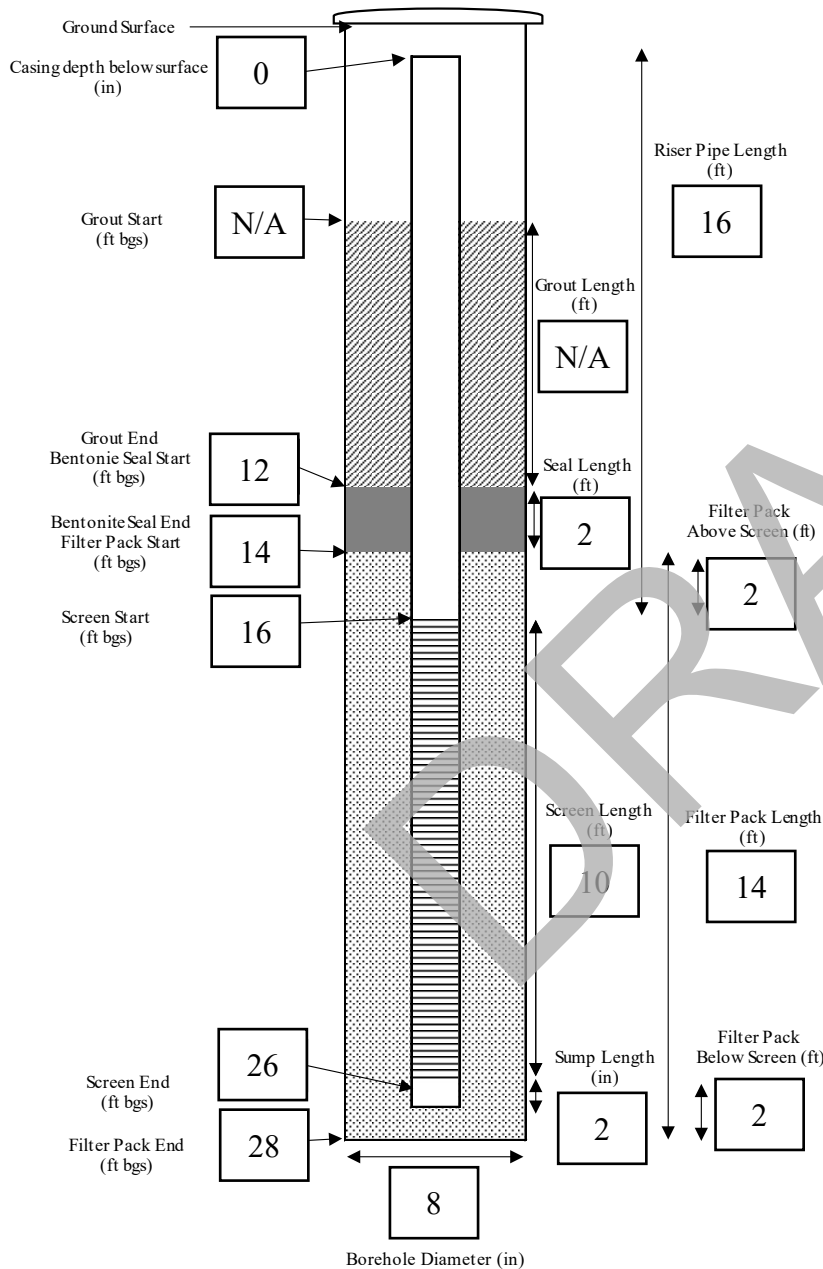
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-93S
Drilling Company: Cascade
Driller: Joe, Jeff
Geologist/Engineer: A. Waheed
Casing Installation Date: 8/26/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.28



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/26/2021
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/26/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 8/26/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 8/26/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: 6 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

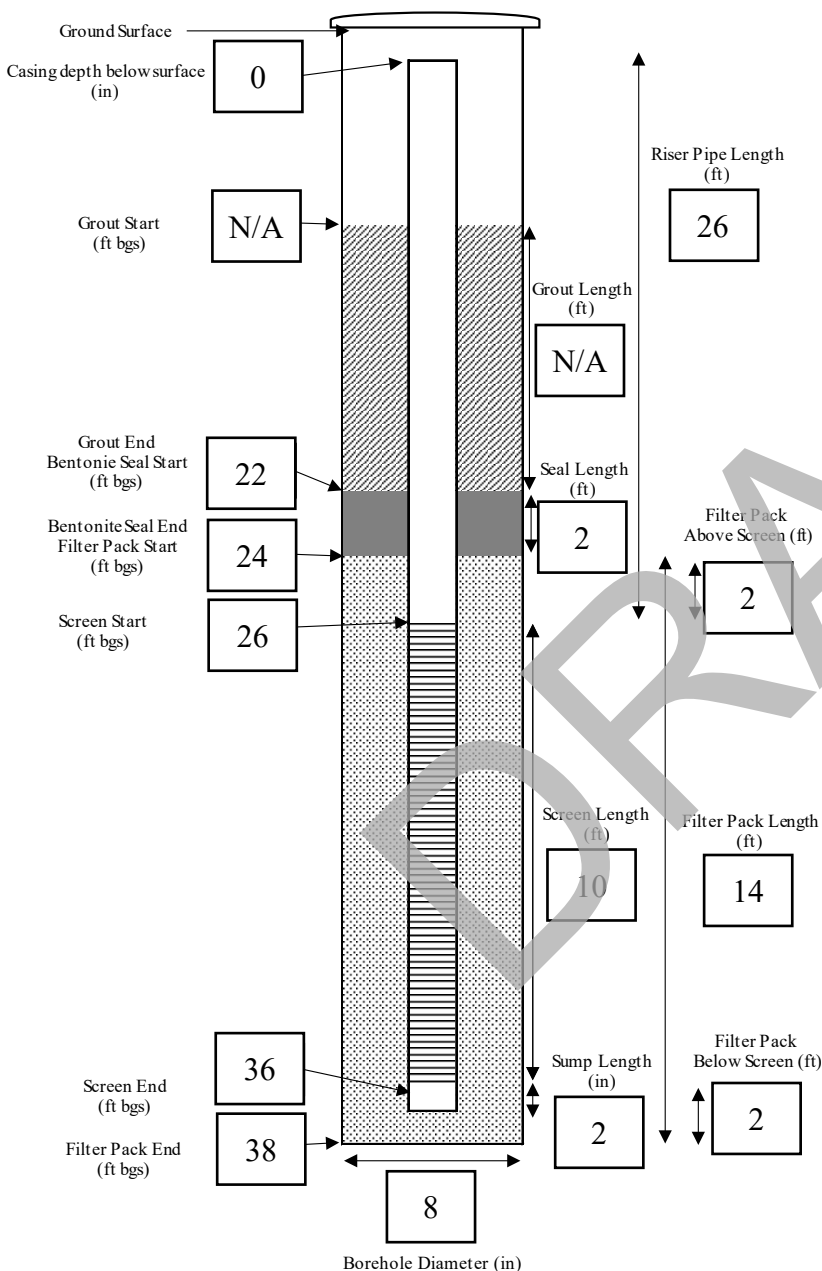
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-94I
Drilling Company: Cascade
Driller: Joe, Jeff
Geologist/Engineer: A. Waheed
Casing Installation Date: 8/24/2021

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.93



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 8/24/2021
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 8/24/21

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout - Date Placed: 8/24/21 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement - Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal - Date Placed: 8/24/21 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: 6 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC - Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC - Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments:

Notes:

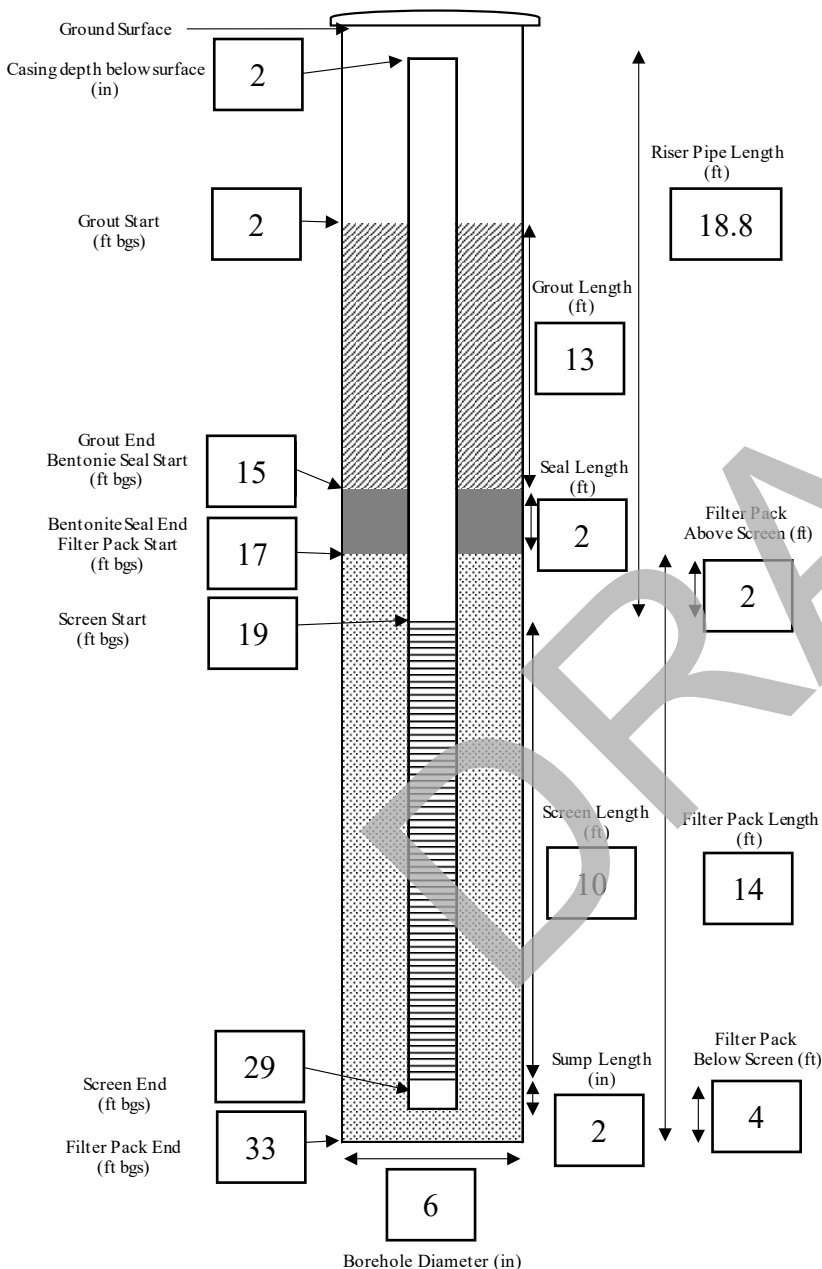
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-95I
Drilling Company: Parratt Wolff
Driller: Joel Davis
Geologist/Engineer: A.Hayes
Casing Installation Date: 04/06/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 850.74



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 4/7/2023
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 4/7/23

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 4/7/2023 Time Placed: _____
Composition/Proportions: ☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal – Date Placed: 4/6/2023 Time Placed: _____
Type: ☒ 3/8" Bentonite Chips ☐ Other: _____
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other: _____
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other: _____
Source/Brand: DSI
Amount Used: ☐ bags ☒ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other: _____
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other: _____

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other: _____
Screen Slot Size: ☒ 0.010-inch ☐ Other: _____
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 120 gallons

Comments:

Notes:

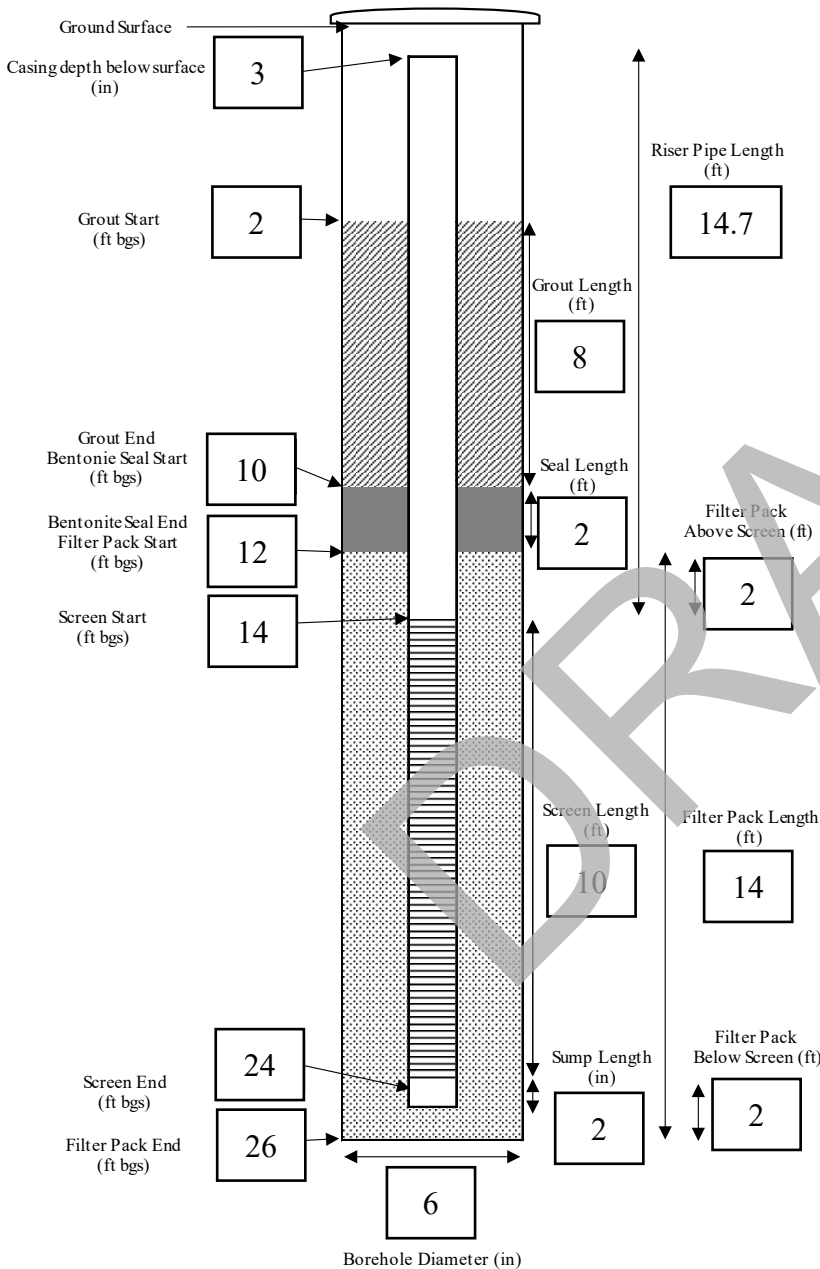
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-95S
Drilling Company: Parratt Wolff
Driller: Joel Davis
Geologist/Engineer: A.Hayes
Casing Installation Date: 04/06/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 850.72



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 4/7/2023
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 4/7/23

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 4/7/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/6/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: ☐ bags ☒ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 130 gallons

Comments:

Notes:

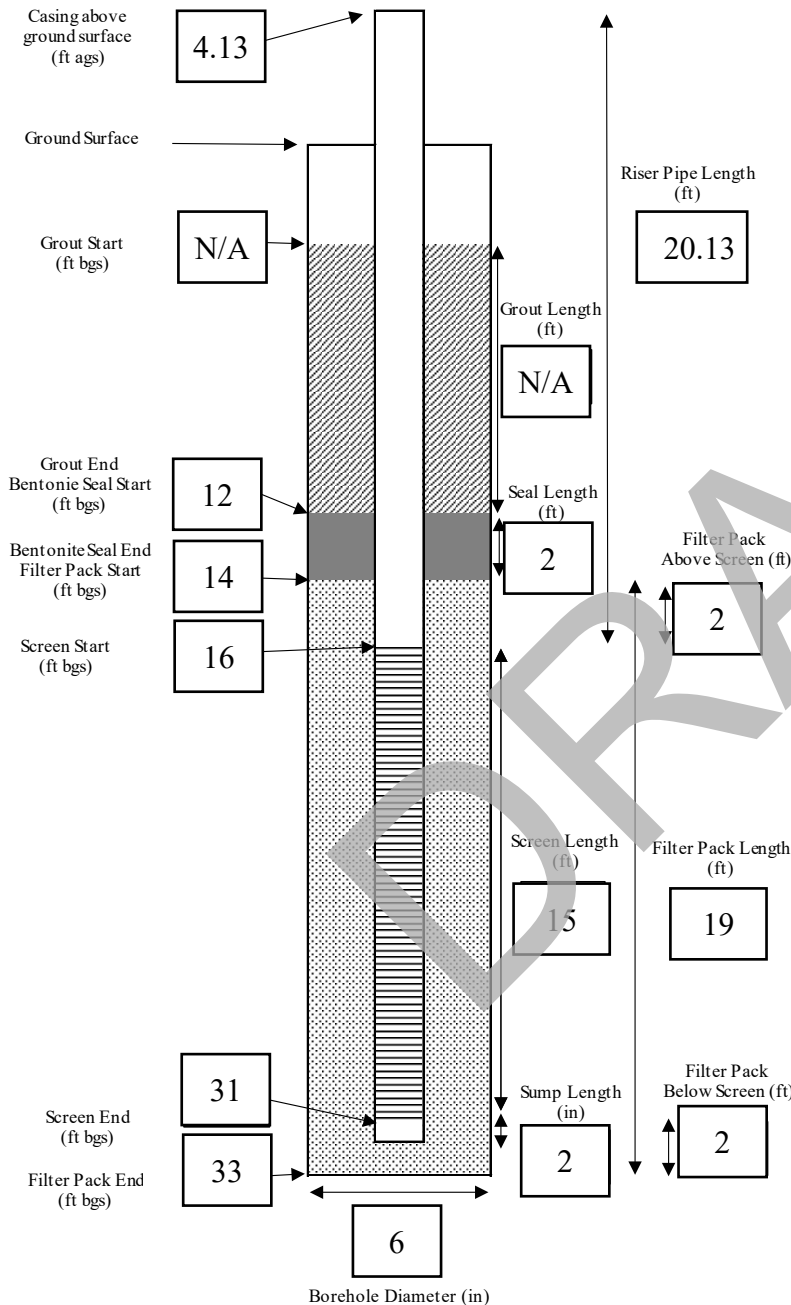
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-96
Drilling Company: Parratt Wolff
Driller: Joel Davis
Geologist/Engineer: A.Hayes
Casing Installation Date: 04/05/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 864.27



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 4/4/2023
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 4/4/23

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout - Date Placed: 4/4/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement - Bentonite Mix ☐ Other:
Source/Brand: Enviroplug
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal - Date Placed: 4/4/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC - Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC - Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 195 gallons

Comments:

Notes:

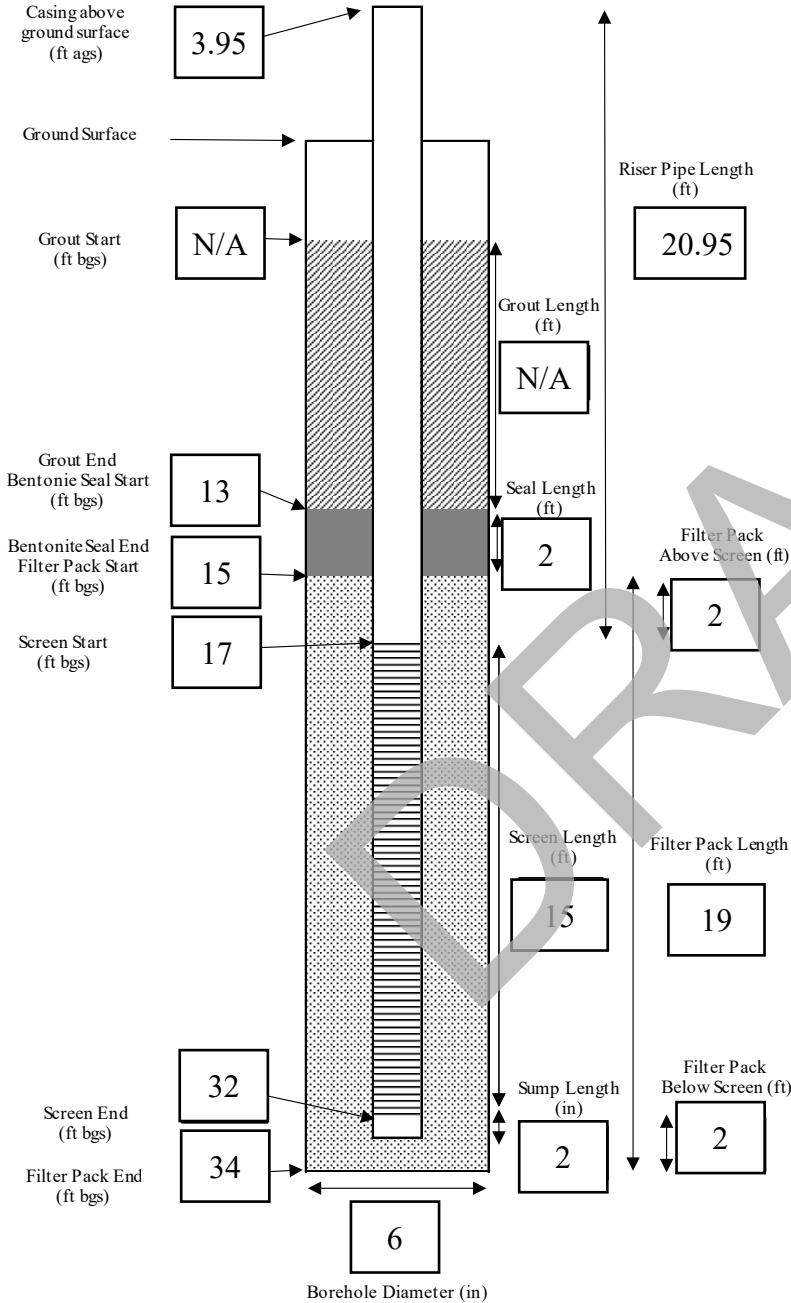
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-97
Drilling Company: Parratt Wolff
Driller: Joel Davis
Geologist/Engineer: A.Hayes
Casing Installation Date: 04/05/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 863.29



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 4/5/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: Enviroplug
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/5/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 180 gallons

Comments:

Notes:

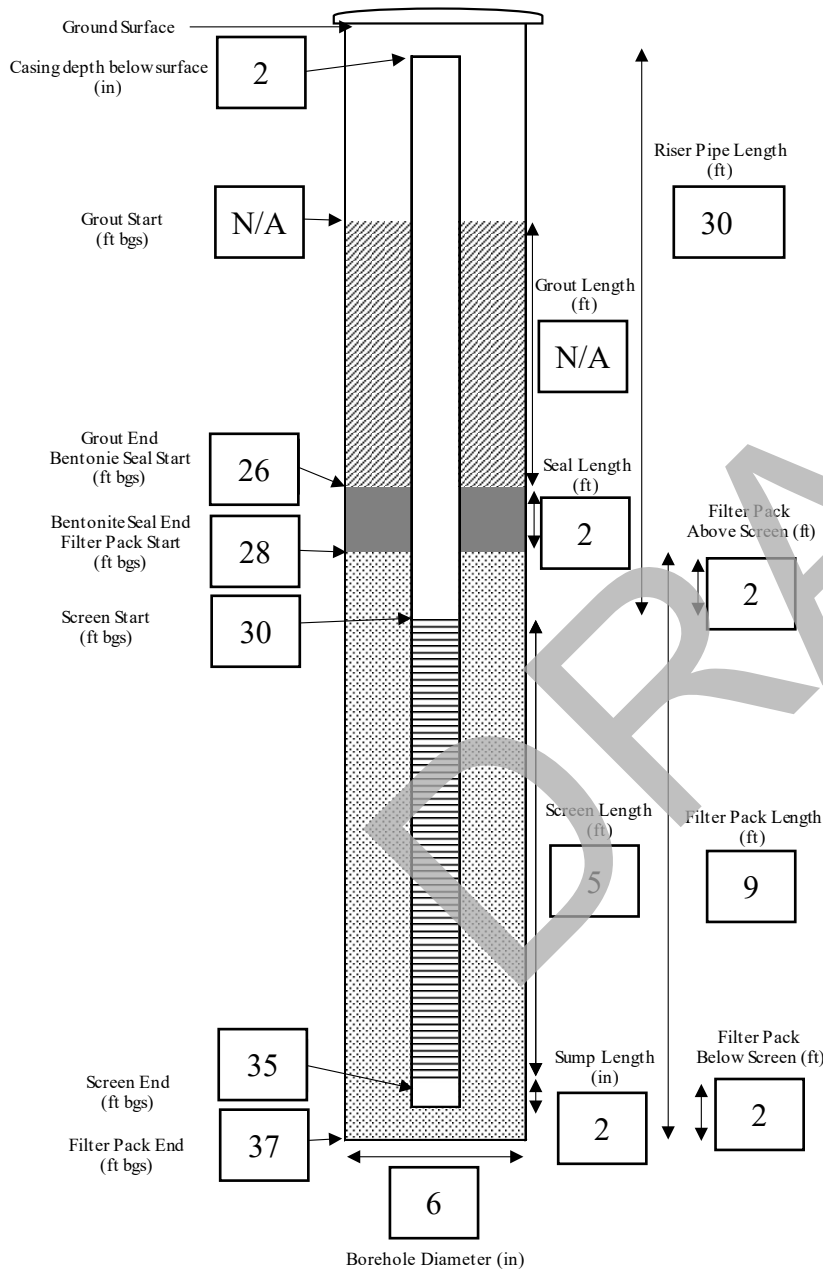
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-98I
Drilling Company: Cascade
Driller: Joe
Geologist/Engineer: SD
Casing Installation Date: 7/21/2022

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.85



Well Completion

Guard Posts/Bollards: ☒ Yes ☐ No Date Installed: 7/21/2022
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/21/22

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/21/2022 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand:
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/21/2022 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: _6_ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments: Clay at 34' bgs

Notes:

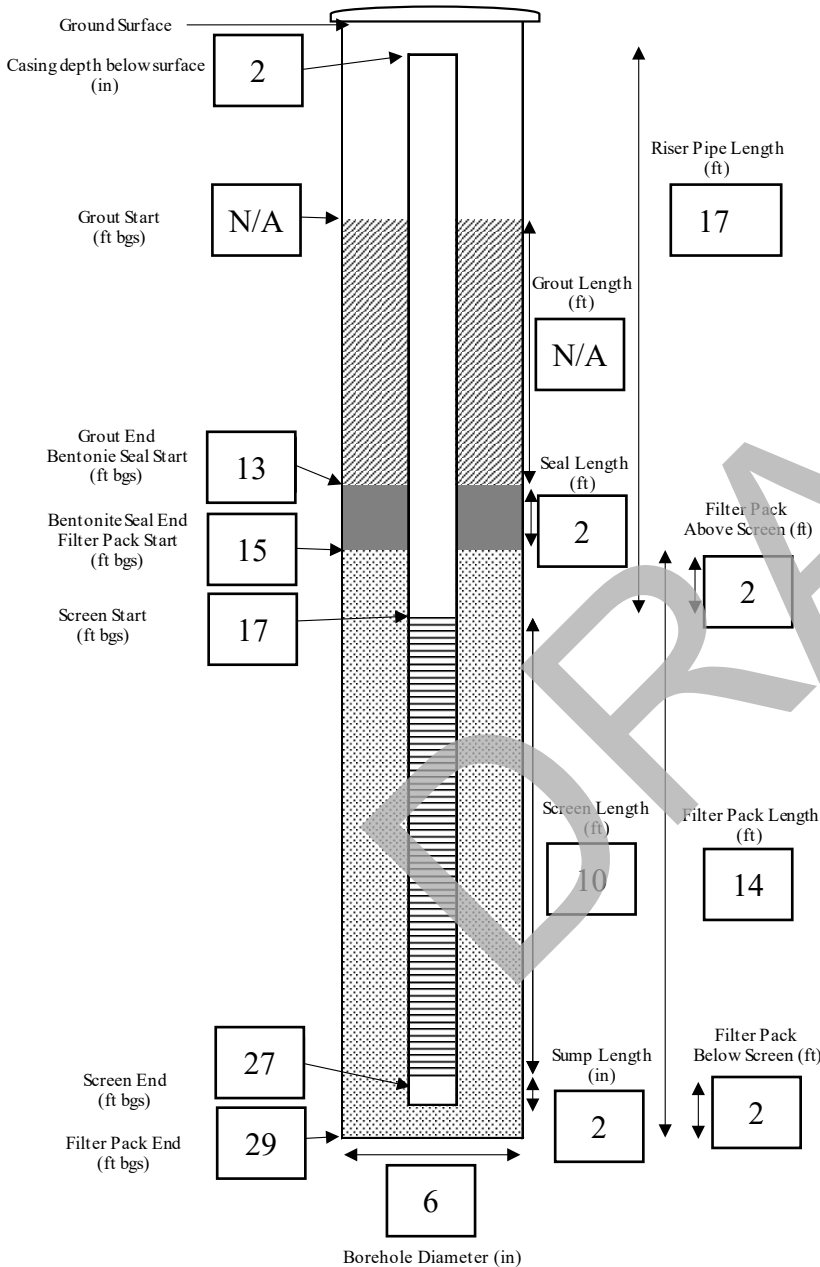
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-98S
Drilling Company: Cascade
Driller: Joe
Geologist/Engineer: SD/GS
Casing Installation Date: 7/20/2022

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.21



Well Completion

Guard Posts/Bollards: ☒ Yes ☐ No Date Installed: 7/20/2022
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/20/22

Diameter: _ inches Length: _ inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/20/2022 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand:
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/20/2022 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: PDS
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: FilPro
Amount Used: 7 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons

Comments: water at 18' bgs

Notes:

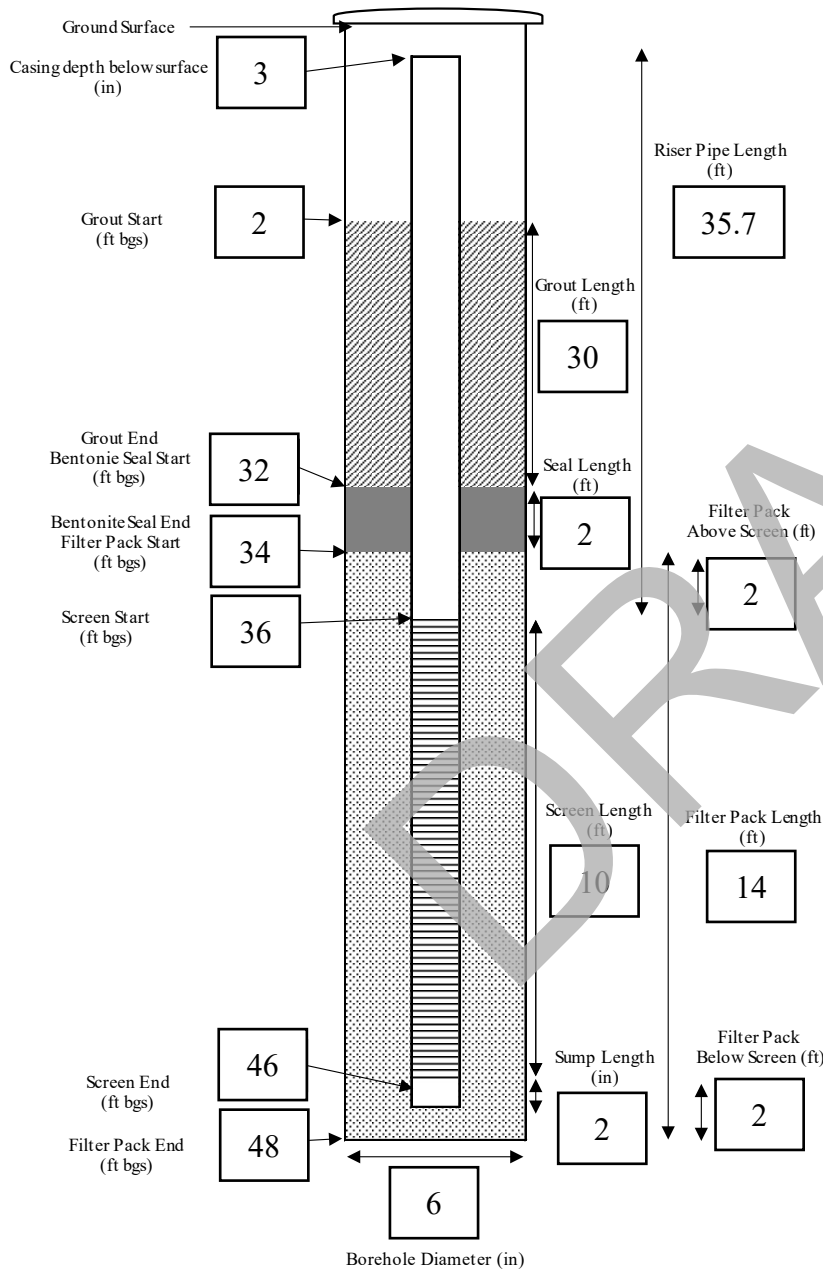
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-99I
Drilling Company: Parratt Wolff
Driller: Joel Davis
Geologist/Engineer: A.Hayes
Casing Installation Date: 04/12/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.48



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 4/12/2023
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 6 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 4/12/23

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 4/12/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/12/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: ☐ bags ☒ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 200 gallons

Comments:

Notes:

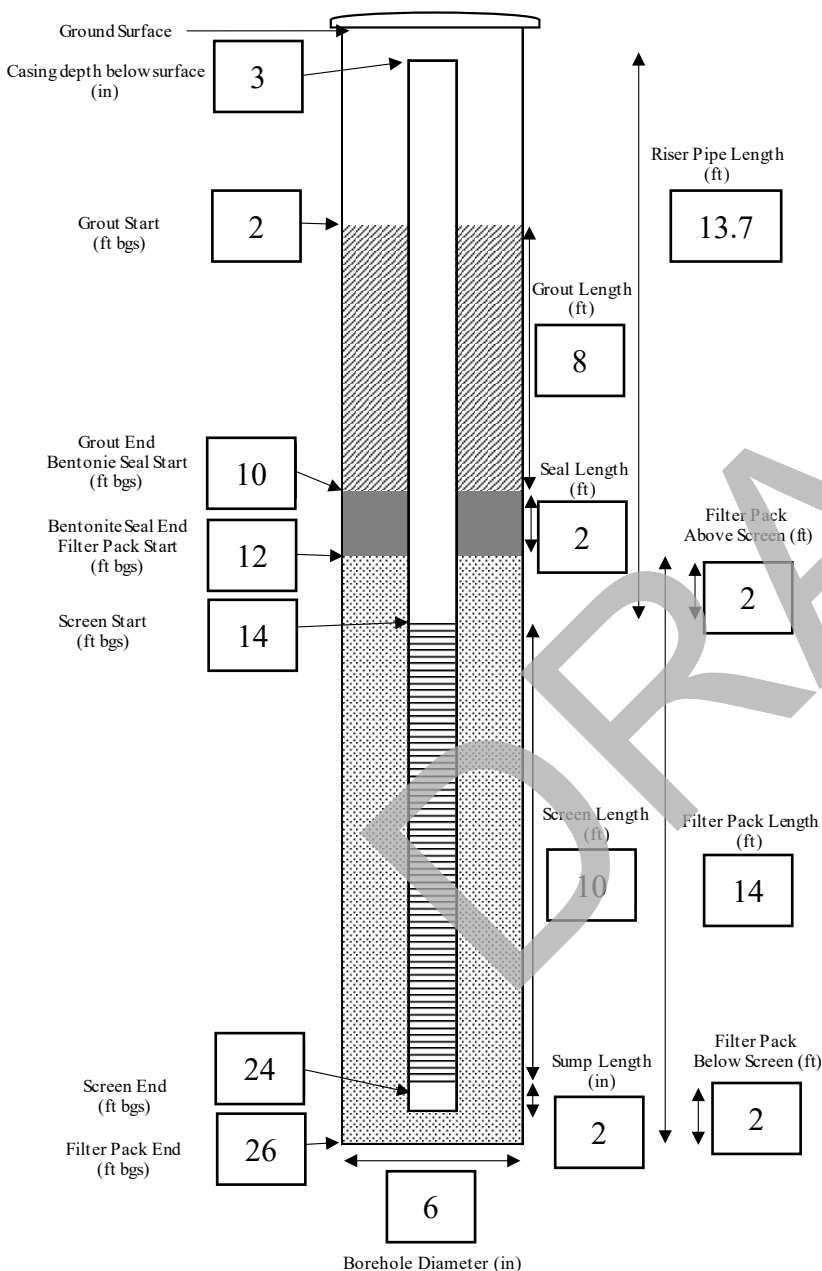
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-99S
Drilling Company: Parratt Wolff
Driller: Joel Davis
Geologist/Engineer: A.Hayes
Casing Installation Date: 04/12/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 853.38



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 4/12/2023
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 4/12/23

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 4/12/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/12/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 160 gallons

Comments:

Notes:

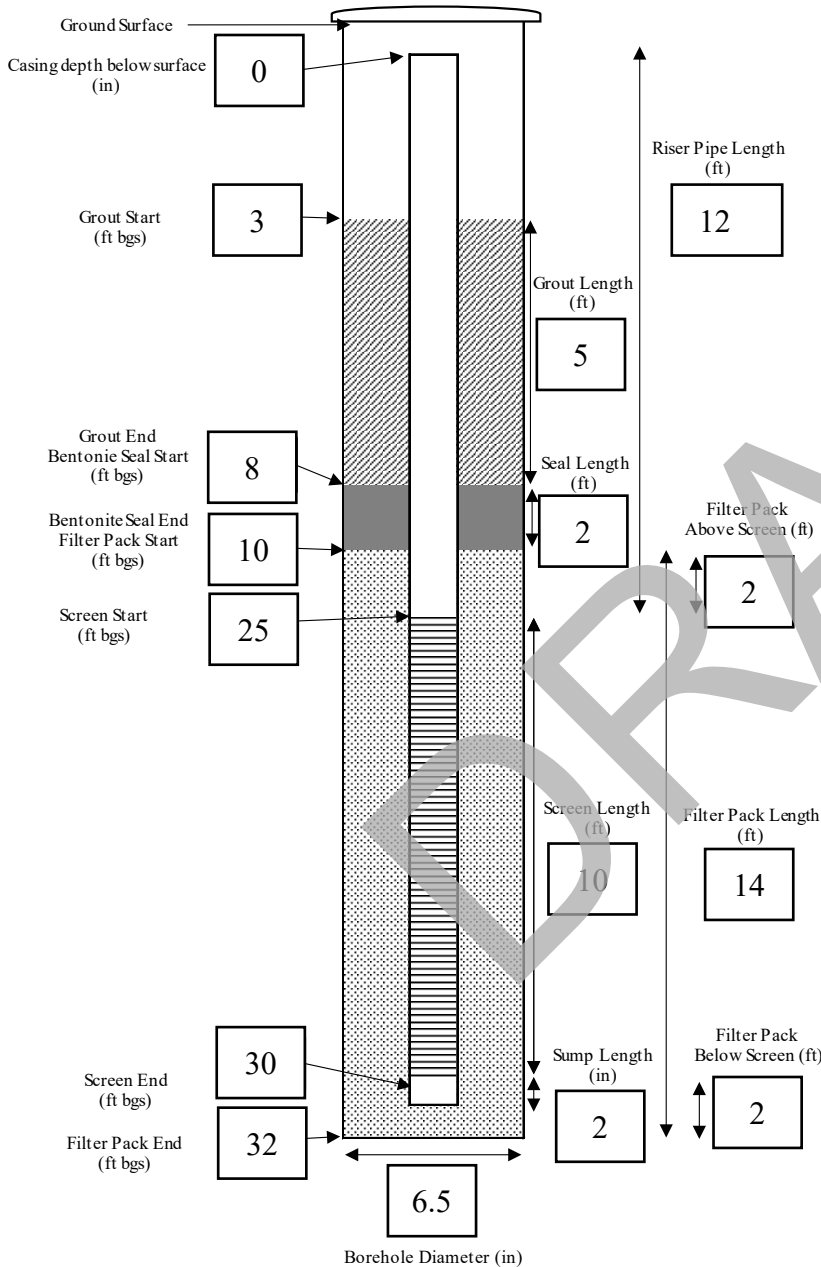
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-100I
Drilling Company: Parratt Wolff
Driller: Jeromy Dube
Geologist/Engineer: E.Gardner
Casing Installation Date: 7/28/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.09



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed:

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/31/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand:
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/31/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 70 gallons Recovered: 100 gallons

Comments:

Notes:

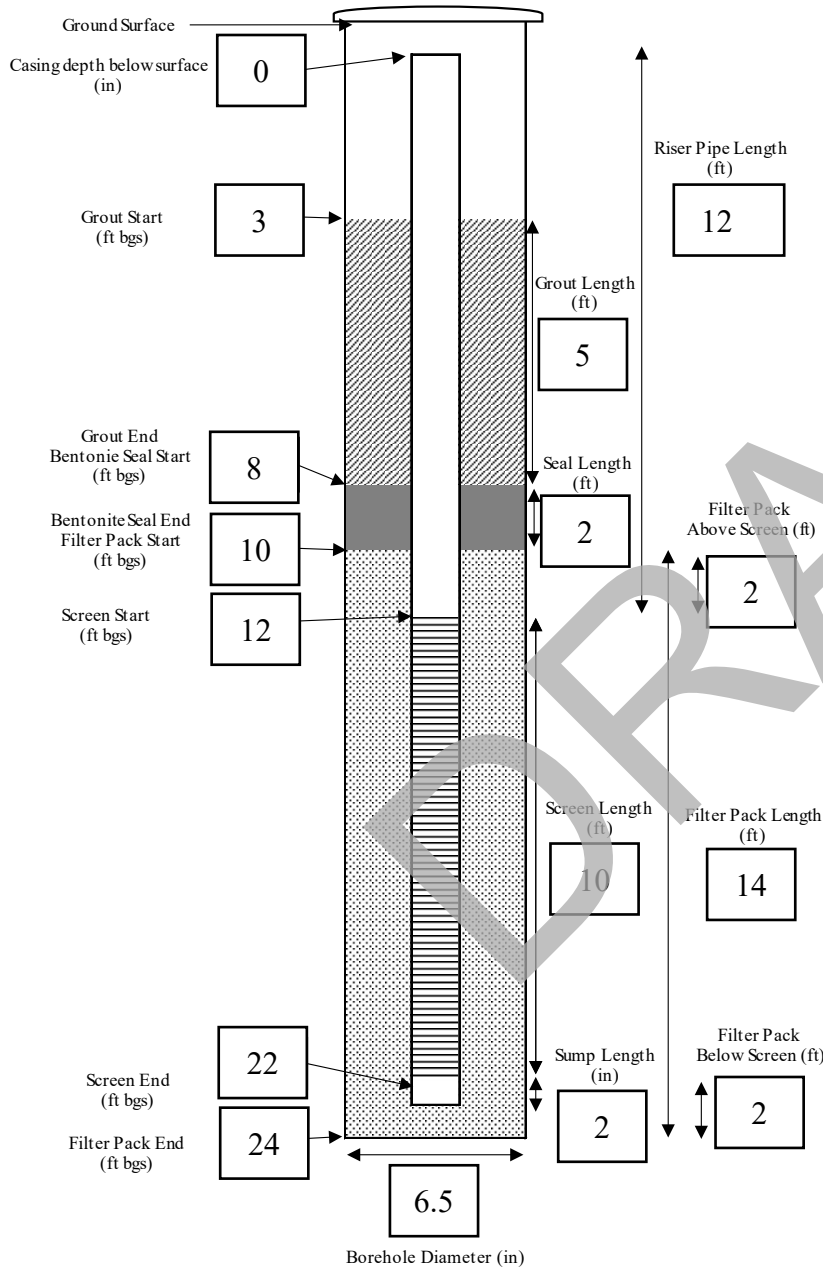
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-100S
Drilling Company: Parratt Wolff
Driller: Jeromy Dube
Geologist/Engineer: E.Gardner
Casing Installation Date: 7/31/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.09



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: _ ft x _ ft x _ inches thick

Protective Manhole Cover - ☐ Yes ☒ No Date Installed:

Diameter: _ inches Length: _ inches
Type: ☐ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☐ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/31/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand:
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/31/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand:
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand:
Amount Used: __ ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

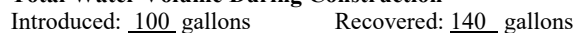
Introduced: 70 gallons Recovered: 100 gallons

Comments: Surface completion pending

Notes:

1. Drawing not to scale
2. Units are in feet

Site:	Elmira, NY
Installation Method:	Sonic
Geologic Completion Zone:	Overburden
Casing Size:	2-inch PVC
Top of Casing Elevation (ft amsl):	848.02



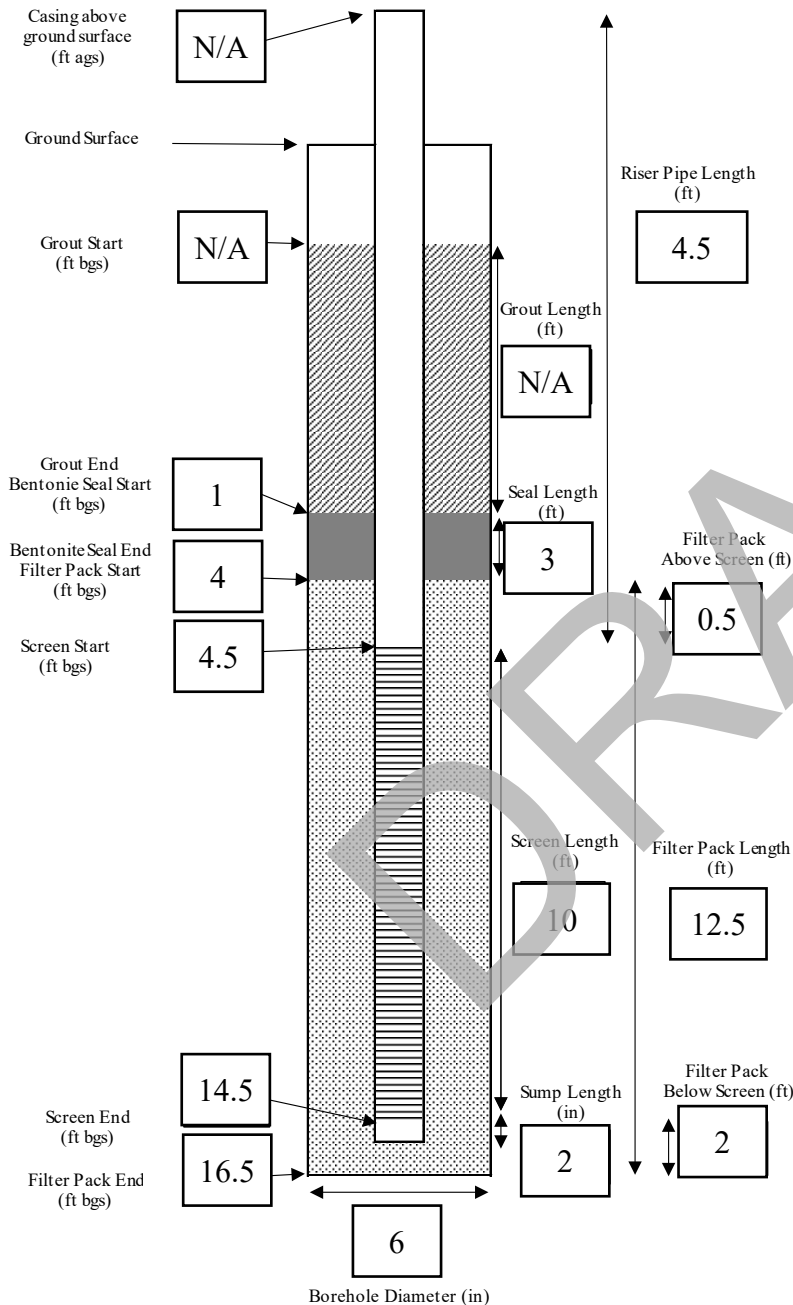
forms/Well Construction Log - MW-101I

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-101S
Drilling Company: Parratt Wolff
Driller: Jeromy
Geologist/Engineer: A.Hayes
Casing Installation Date: 04/11/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 843.23



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 4/11/23
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout - Date Placed: 4/11/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement - Bentonite Mix ☐ Other:
Source/Brand: Enviroplug
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal - Date Placed: 4/11/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC - Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC - Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch - 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 140 gallons

Comments:

Notes:

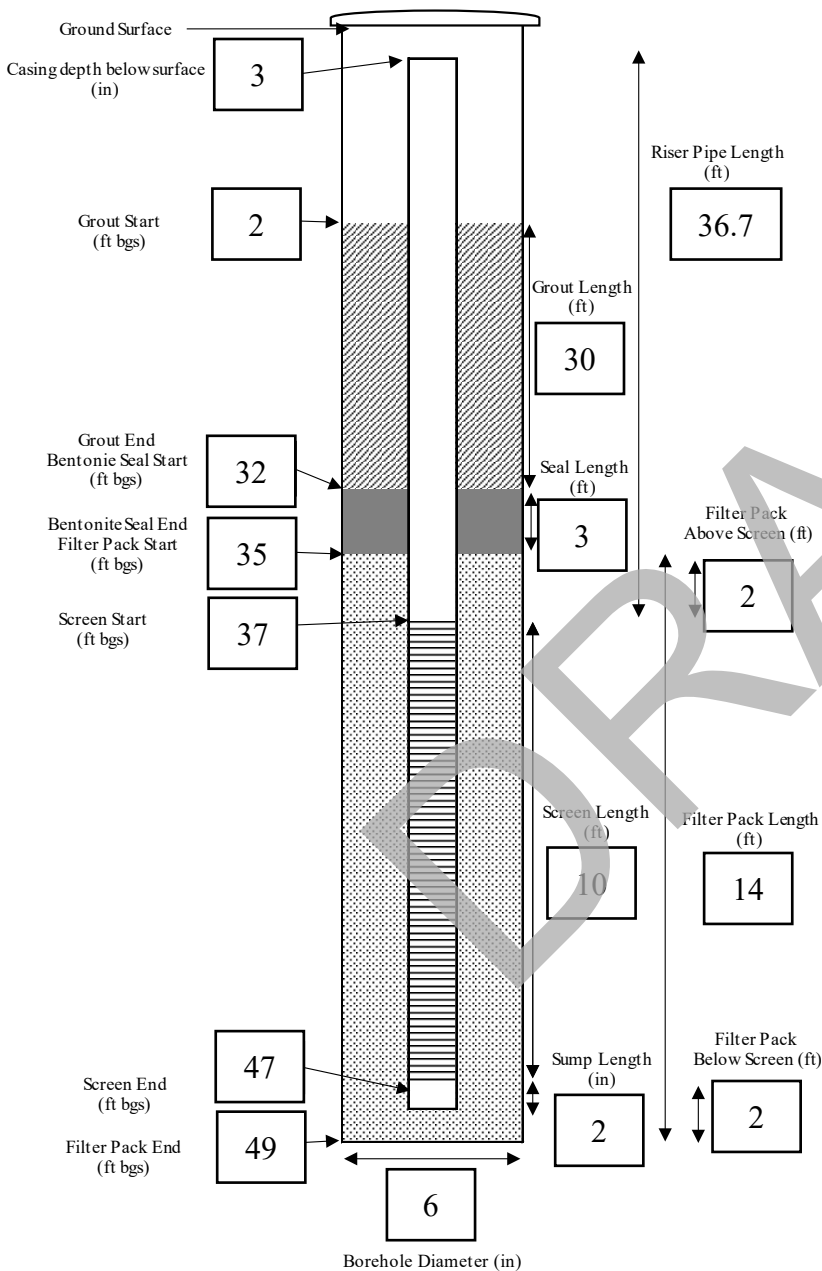
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-102I
Drilling Company: Parratt Wolff
Driller: Anthony
Geologist/Engineer: R.Arcuri
Casing Installation Date: 04/4/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.73



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 4/5/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/4/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: 2 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 140 gallons

Comments:

Notes:

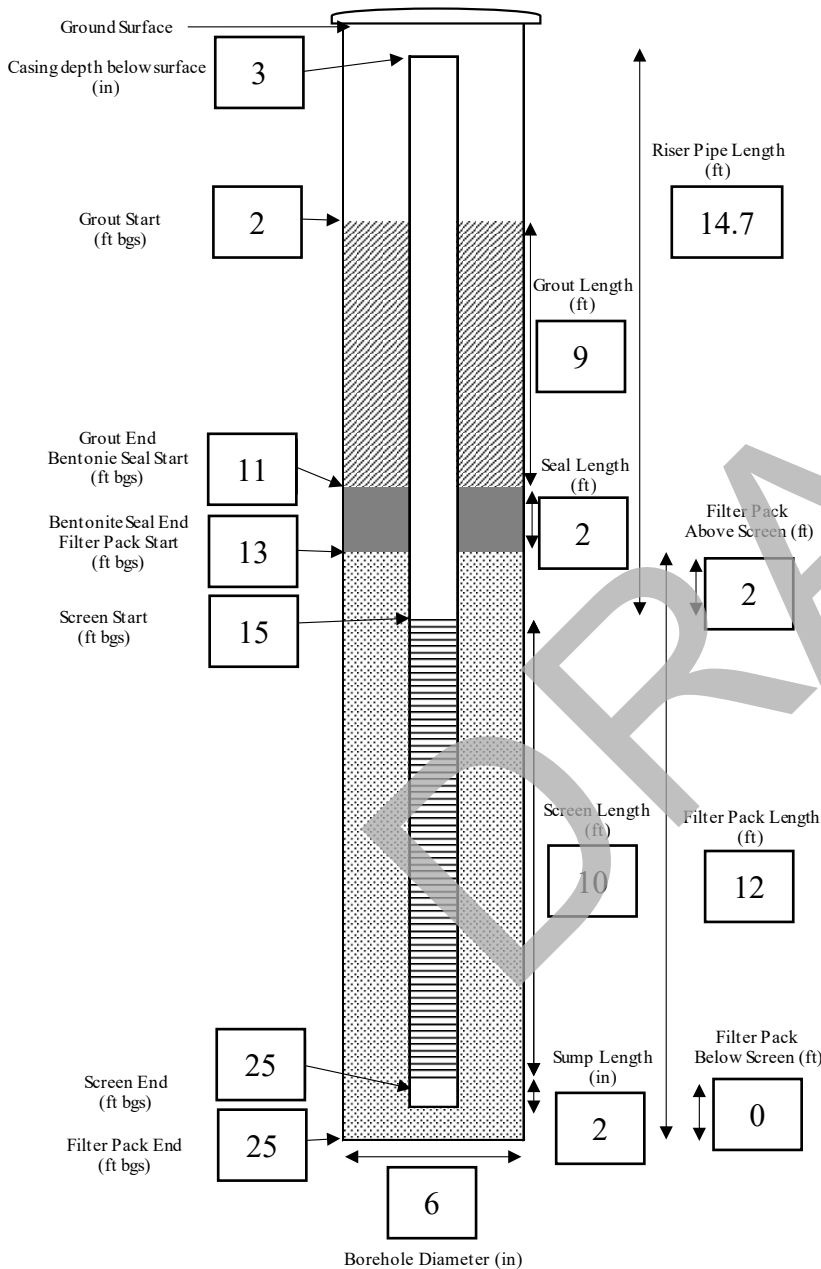
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-102S
Drilling Company: Parratt Wolff
Driller: Anthony
Geologist/Engineer: R.Arcuri
Casing Installation Date: 04/4/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.77



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 4/5/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/4/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: 2 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 110 gallons

Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-103I
Drilling Company: Cascade
Driller: JH
Geologist/Engineer: A. Hayes
Casing Installation Date: 7/28/2022

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.27

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 7/28/2022
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 1 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/28/22

Diameter: 12 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/28/22 Time Placed: _____
Composition/Proportions: ☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other: _____

Seal – Date Placed: 7/28/22 Time Placed: _____
Type: ☒ 3/8" Bentonite Chips ☐ Other: _____
Source/Brand: DPS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other: _____
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other: _____
Source/Brand: Filpro
Amount Used: ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

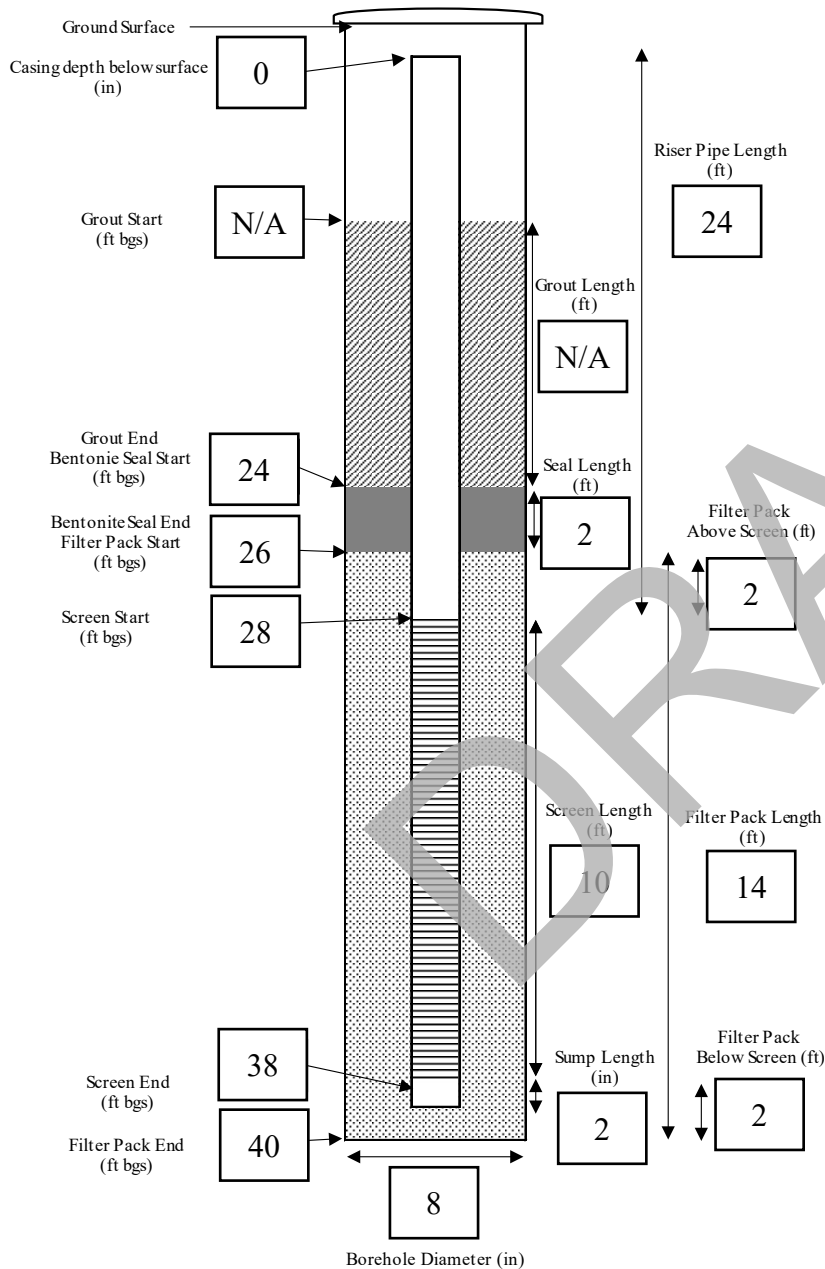
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other: _____

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other: _____
Screen Slot Size: ☒ 0.010-inch ☐ Other: _____
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons



Comments:

Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-103S
Drilling Company: Cascade
Driller: JH
Geologist/Engineer: A. Hayes
Casing Installation Date: 7/28/2022

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.27

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 7/28/2022
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 1 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/27/22

Diameter: 12 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/27/22 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 7/27/2022 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: DPS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Filpro
Amount Used: ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

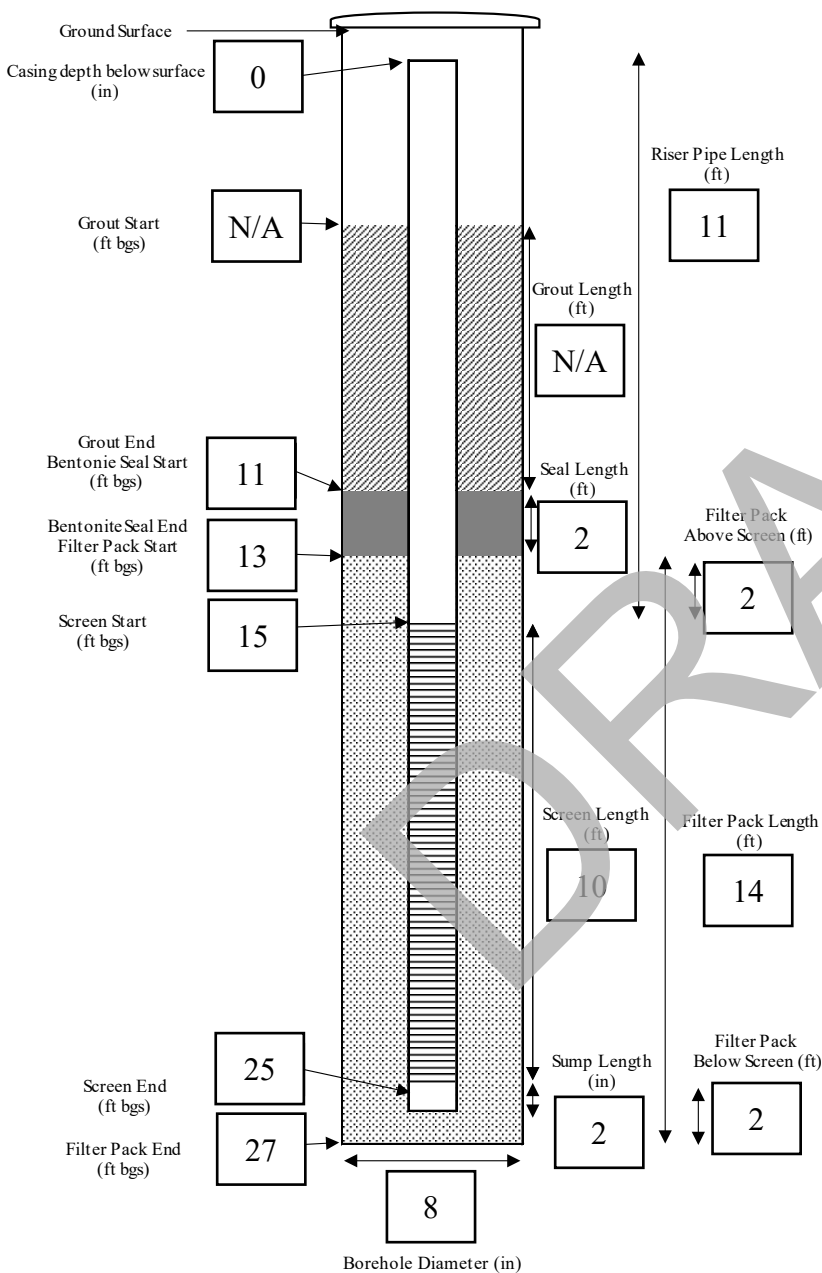
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons



Comments:

Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-104I
Drilling Company: Parratt Wolff
Driller: Anthony
Geologist/Engineer: R.Arcuri
Casing Installation Date: 04/5/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 855.22

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 4/6/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/5/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: 5 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

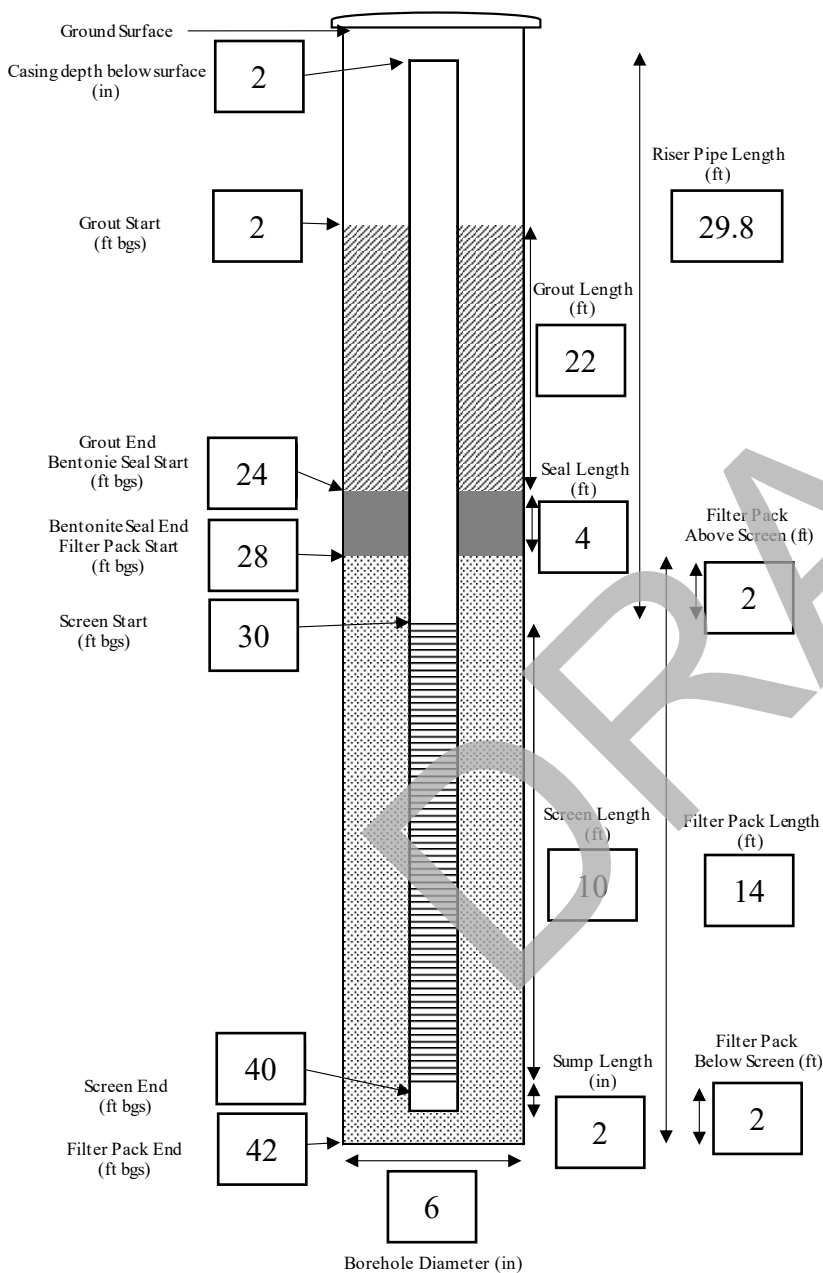
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☐ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 20 gallons



Comments:

Notes:

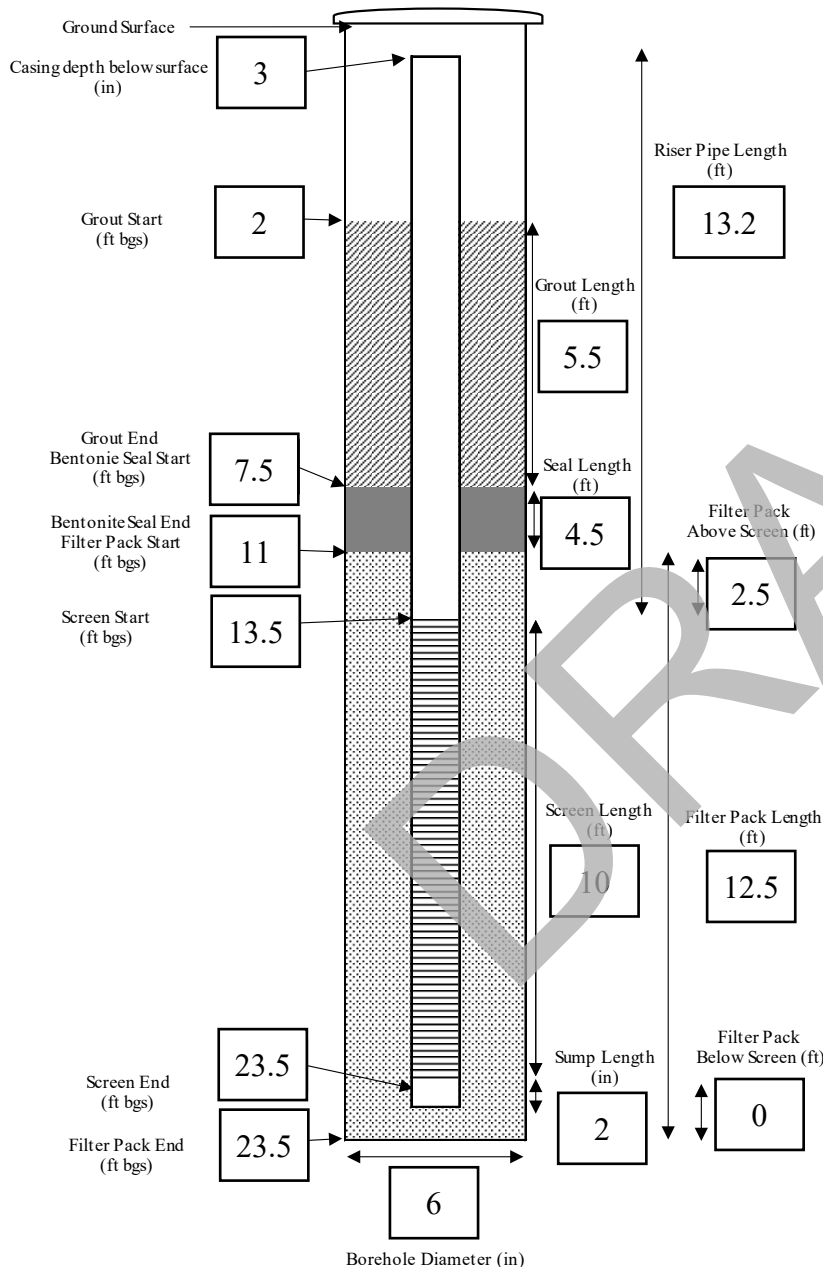
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-104S
Drilling Company: Parratt Wolff
Driller: Anthony
Geologist/Engineer: R.Arcuri
Casing Installation Date: 04/5/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.96



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 4/6/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/6/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: 4.5 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 95 gallons

Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-105I
Drilling Company: Cascade
Driller: JH
Geologist/Engineer: A. Hayes
Casing Installation Date: 7/27/2022

Site: Elmira, NY
Installation Method: HSA
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.65

Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: 7/27/2022
Pad Shape: ☒ Square ☐ Circular
Surface Pad Size: 2 ft x 2 ft x 1 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/27/22

Diameter: 12 inches Length: N/A inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/27/2022 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 7/27/2022 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: DPS Bentonite Plug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 1.5 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: Filpro
Amount Used: N/A ☐ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

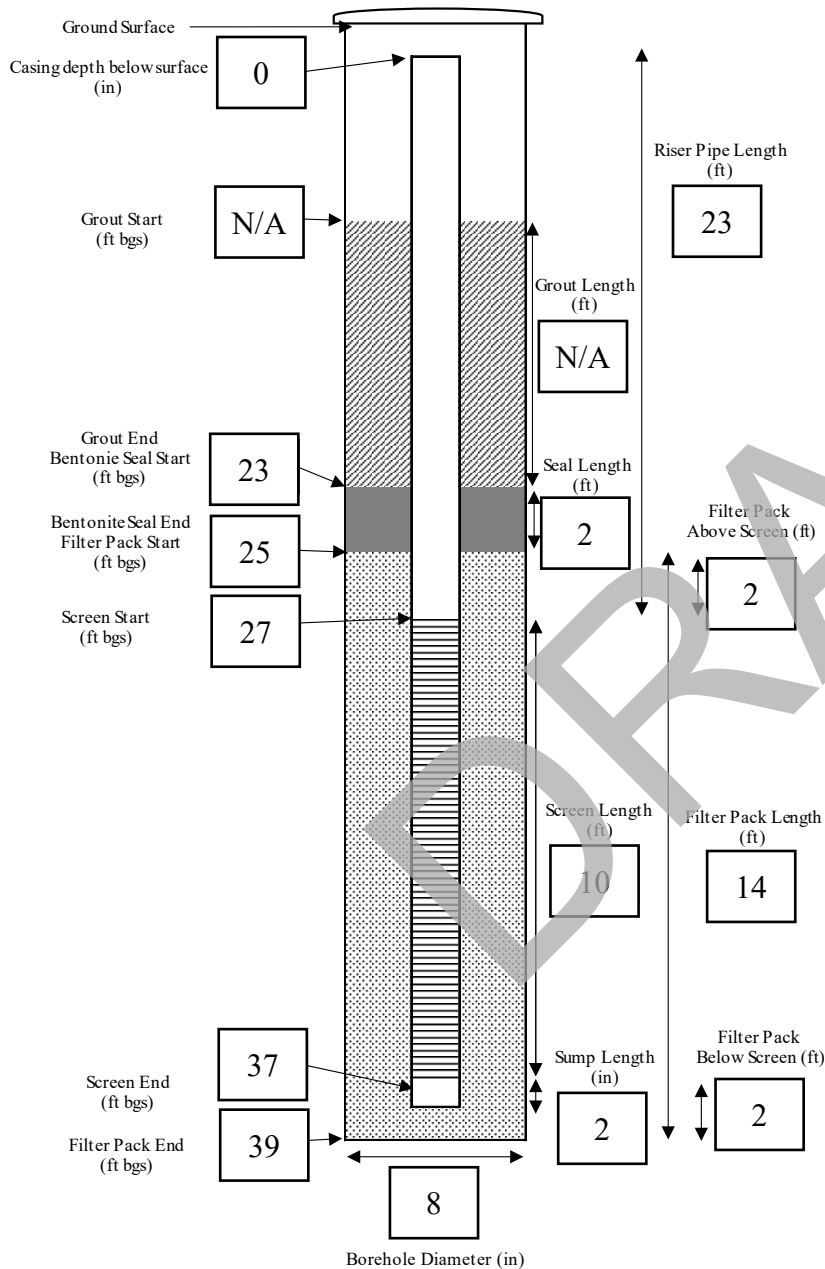
Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: _ gallons Recovered: _ gallons



Comments:

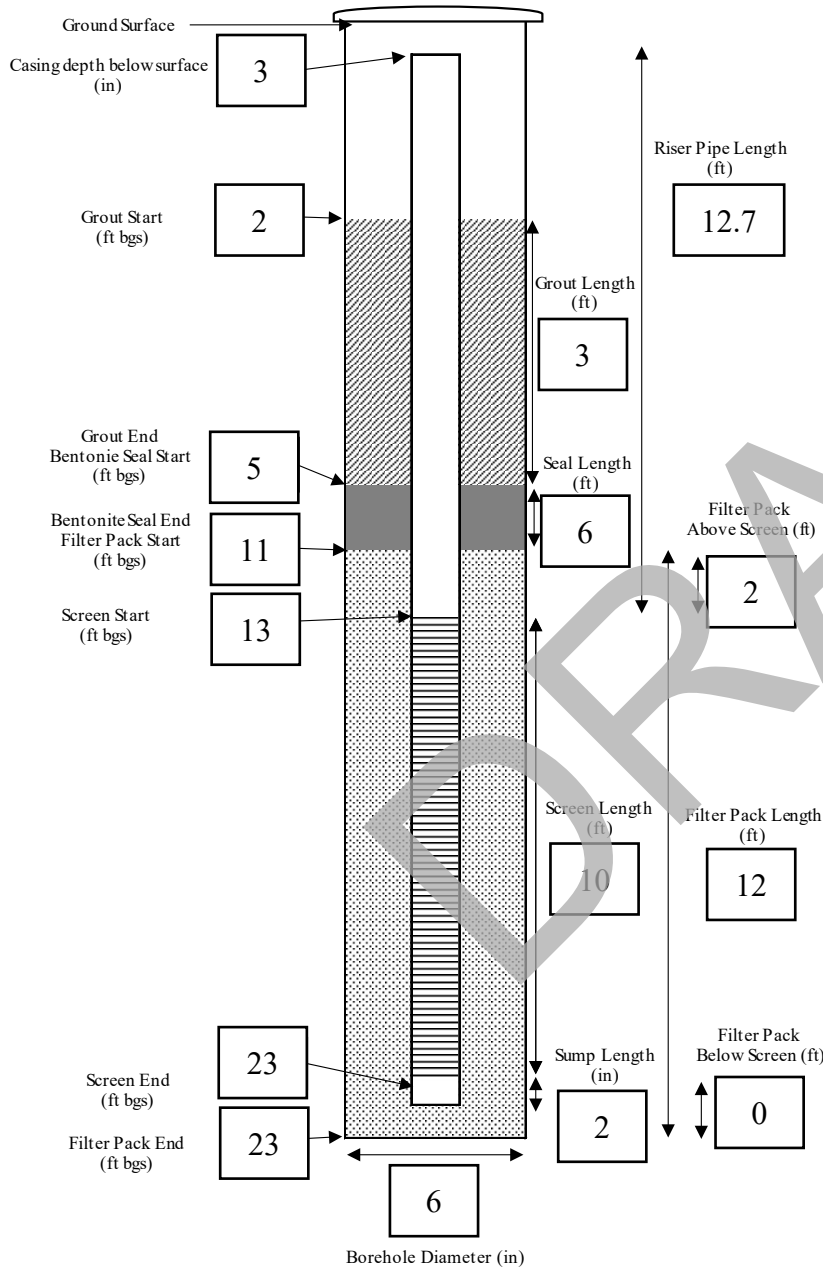
Notes:
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-105S
Drilling Company: Parratt Wolff
Driller: Anthony
Geologist/Engineer: R.Arcuri
Casing Installation Date: 04/4/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 854.72



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 4/6/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/4/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: 3.5 ☒ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: N/A gallons

Comments:

Notes:

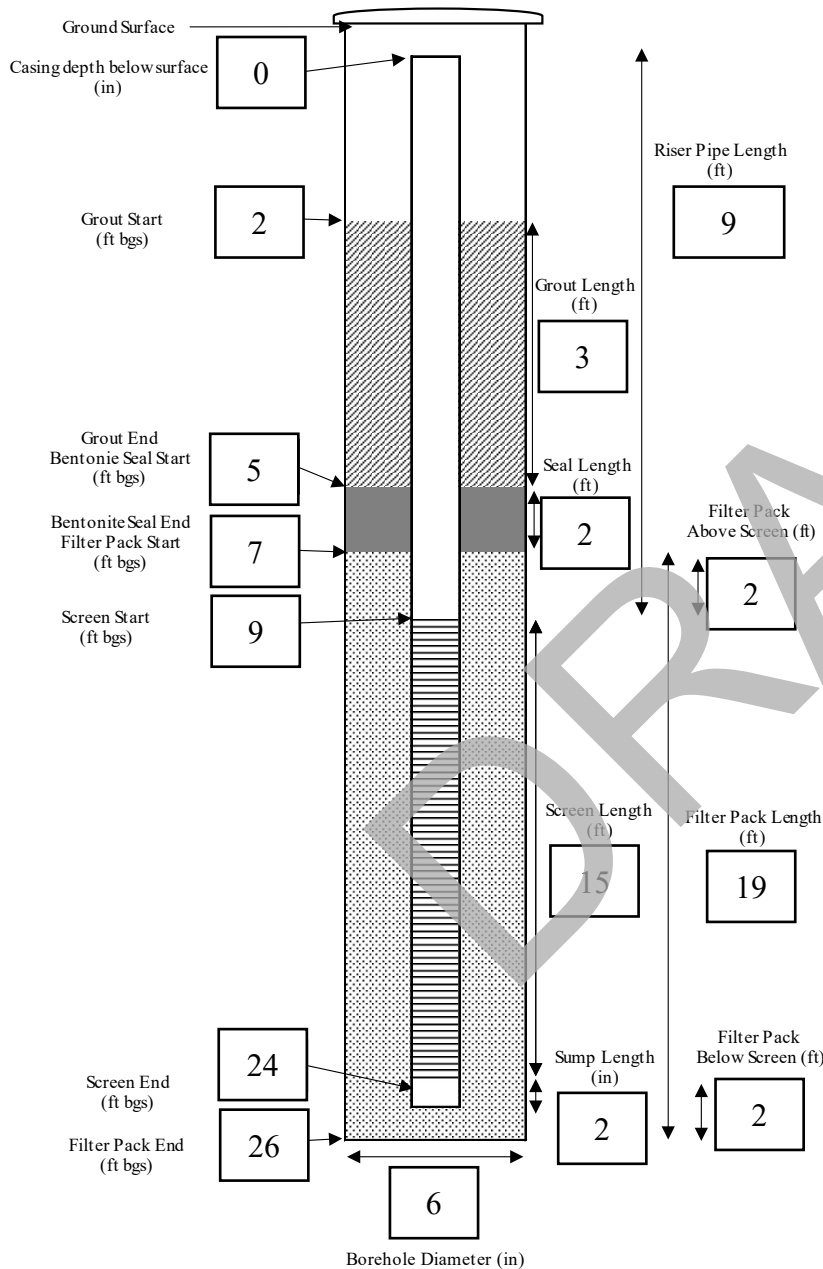
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-106
Drilling Company: Parratt Wolff
Driller: Joel Davis
Geologist/Engineer: A.Hayes
Casing Installation Date: 04/4/2023

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 852.70



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed:
Pad Shape: ☐ Square ☐ Circular
Surface Pad Size: 1 ft x 1 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed:

Diameter: 12 inches Length: inches
Type: ☒ Steel ☐ Aluminum ☐ Other:
Depth set: ☒ Ground Surface ☐ Other:

Grout – Date Placed: 4/4/2023 Time Placed:

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 4/4/2023 Time Placed:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Enviroplug
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Pressure Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: ☐ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI
Amount Used: ☐ bags ☒ pounds
Placement Method: ☐ Pressure Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☒ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☐ Yes ☒ No

Total Water Volume During Construction

Introduced: 100 gallons Recovered: 127.5 gallons

Comments:

Notes:

1. Drawing not to scale
2. Units are in feet

Site:	Elmira, NY
Installation Method:	Sonic
Geologic Completion Zone:	Overburden
Casing Size:	2-inch PVC
Top of Casing Elevation (ft amsl):	851.67

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: N/A
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 12 inches thick

Diameter: 8 inches Length: 12 inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Composition/Proportions: ☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: Quikrete Commercial Grade
Placement Method: ☒ Tremie ☒ Gravity ☐ Other:

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Holeplug
Amount Used: 0.5 ☒ bags ☐ pounds
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: N/A ☐ gallons ☐ liters

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI Well Gravel Pack
Amount Used: 3.5 ☒ bags ☐ pounds
Placement Method: ☐ Tremie ☒ Gravity

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
 Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Introduced: 50 gallons Recovered: 0 gallons



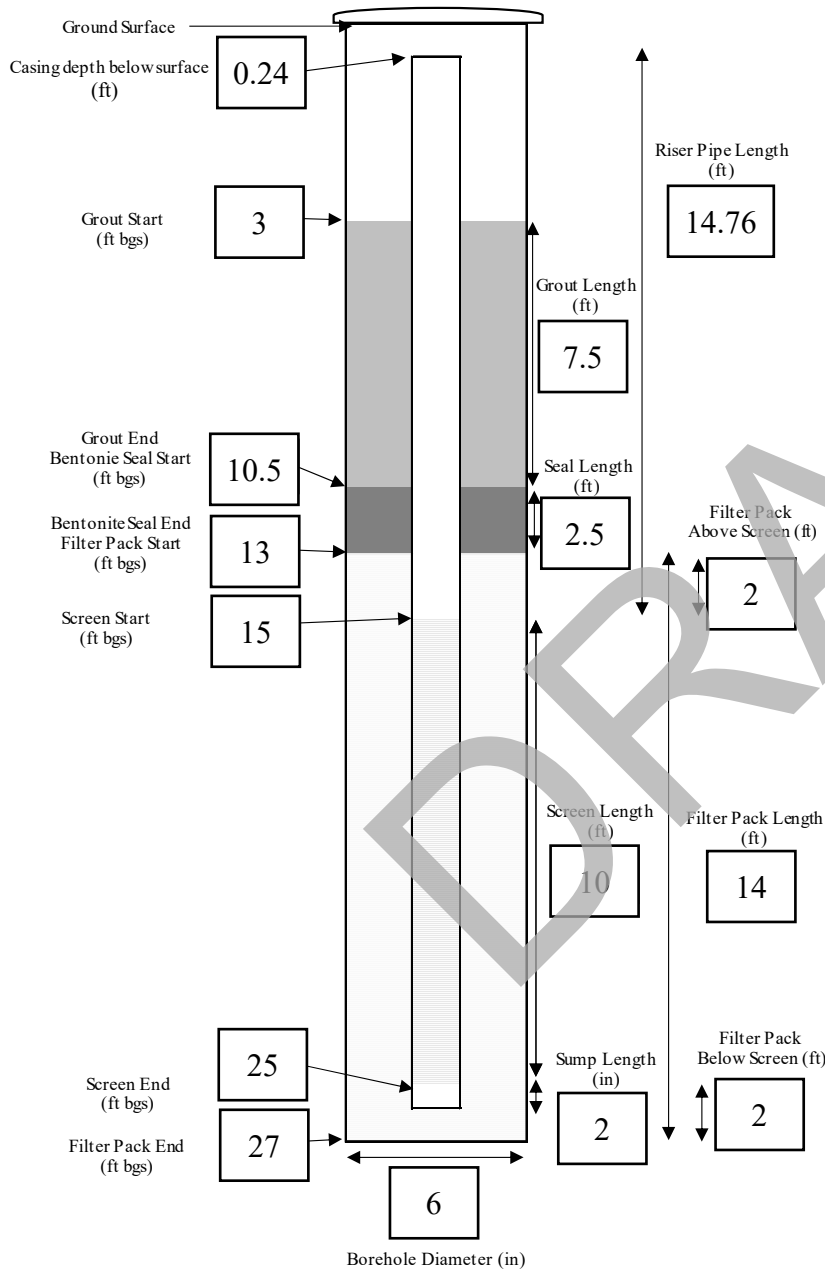
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-107S
Drilling Company: Parratt Wolff
Driller: Alex Boyd
Geologist/Engineer: Stephen Perdziola
Casing Installation Date: 7/8/25

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 851.88



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: N/A
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/10/25

Diameter: 8 inches Length: 12 inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: 7/8/25 Time Placed: 17:10

Composition/Proportions:
☒ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: Quikrete Commercial Grade Type 1
Placement Method: ☒ Tremie ☒ Gravity ☐ Other:

Seal – Date Placed: 7/8/25 Time Placed: 16:30

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Holeplug
Amount Used: 0.5 ☒ bags ☐ pounds
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 2 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI Well Gravel Pack
Amount Used: 4.5 ☒ bags ☐ pounds
Placement Method: ☐ Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 40 gallons Recovered: 0 gallons

Comments: Water at ~16 ft bgs

Notes:

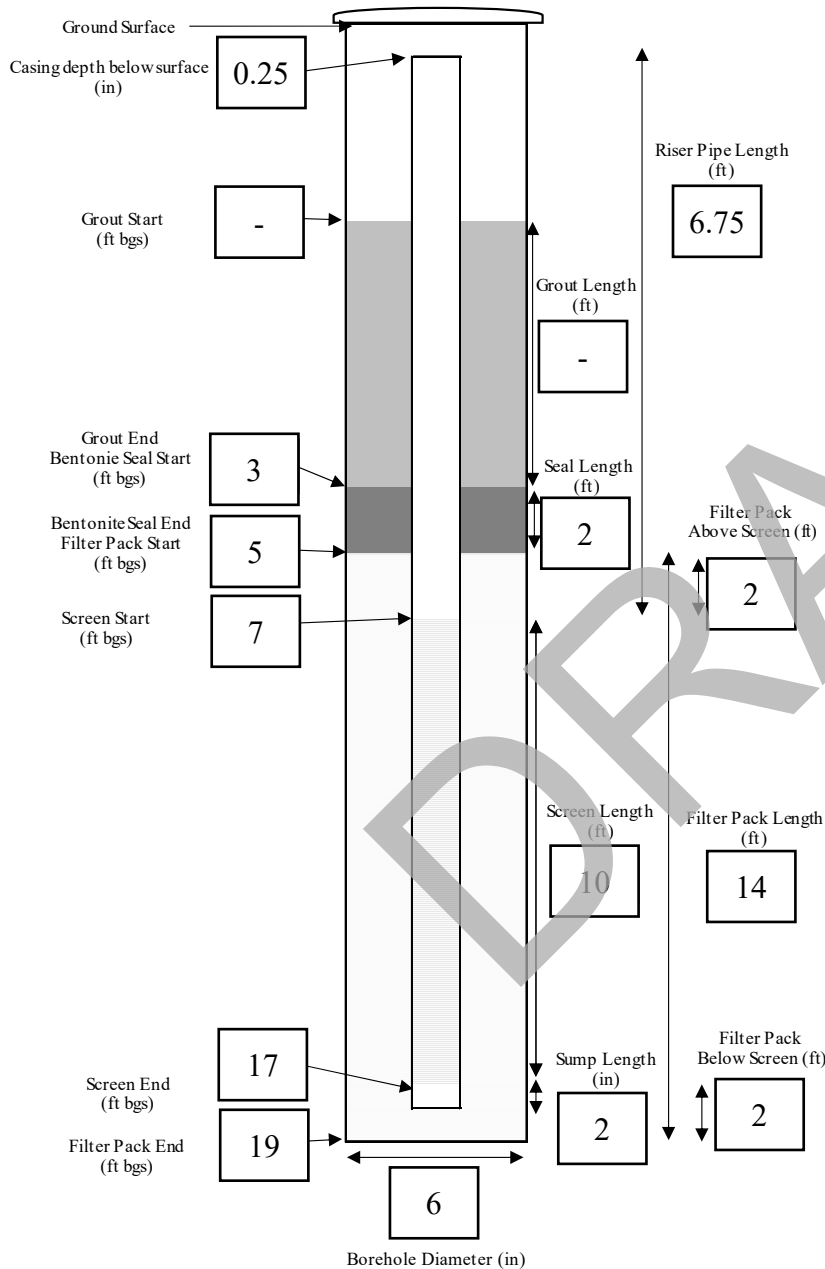
1. Drawing not to scale
2. Units are in feet

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-108
Drilling Company: Parratt Wolff
Driller: Alex Boyd
Geologist/Engineer: Stephen Perdziola
Casing Installation Date: 7/9/25

Site: Elmira, NY
Installation Method: Sonic
Geologic Completion Zone: Overburden
Casing Size: 2-inch PVC
Top of Casing Elevation (ft amsl): 847.56



Well Completion

Guard Posts/Bollards: ☐ Yes ☒ No Date Installed: N/A
Pad Shape: ☐ Square ☒ Circular
Surface Pad Size: 1.5 ft x 1.5 ft x 12 inches thick

Protective Manhole Cover - ☒ Yes ☐ No Date Installed: 7/10/25

Diameter: 8 inches Length: 12 inches
Type: ☒ Steel ☐ Aluminum ☐ Other: _____
Depth set: ☒ Ground Surface ☐ Other: _____

Grout – Date Placed: N/A Time Placed: N/A

Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other:
Source/Brand: N/A
Placement Method: ☐ Tremie ☐ Gravity ☐ Other:

Seal – Date Placed: 7/9/25 Time Placed: 13:35

Type: ☒ 3/8" Bentonite Chips ☐ Other:
Source/Brand: Holeplug
Amount Used: 0.5 ☒ bags ☐ pounds
Set-up/Hydration Time: ☒ 30 Minutes ☐ Other:
Placement Method: ☐ Tremie ☒ Gravity ☐ Other:
Vol. Fluid Added: 2 ☒ gallons ☐ liters

Filter Pack

Type: ☒ Morie #1 Sand or equiv. ☐ Gravel ☐ Other:
Source/Brand: DSI Well Gravel Pack
Amount Used: 5 ☒ bags ☐ pounds
Placement Method: ☐ Tremie ☒ Gravity

Well Riser Pipe

Material: ☒ Schedule 40 PVC – Flush Threaded Joints
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:

Screen

Material: ☒ Schedule 40 PVC – Machine Slotted
☐ Other:
Casing Inside Diameters: ☒ Nominal 2-inch – 2.047-inch I.D.
☐ Other:
Screen Slot Size: ☒ 0.010-inch ☐ Other:
Percent Open Area: ☒ 3.25% - 2-inch, 0.010 slot ☐ Other:
Sump or Bottom Cap: ☒ Yes ☐ No

Total Water Volume During Construction

Introduced: 30 gallons Recovered: 0 gallons

Comments: Clay at 16 ft bgs. No grout placed as bentonite placed to 3 ft bgs.

Notes:

1. Drawing not to scale
2. Units are in feet

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-D	
BORING COMPANY FOREMAN EARTH TECH INSPECTOR		GeoLogic Scott Paul Sleasman		BORING LOCATION East side of school bldg. GROUND ELEVATION DATE STARTED 5/6/03 DATE ENDED 5/7/03	

SIZE	<u>CASING</u>	TYPE	<u>SAMPLER</u>	OTHER:	DATE	DEPTH	CASING	STABILIZATION TIME
HAMMER	NA	HAMMER	2" Split Spoon		5/7/03	14.22'	2" PVC	
FALL	NA	FALL	140 lb	4 1/4" I.D. Augers	15:30	Top of Casing		
	NA		30"					

SAMPLE					SAMPLE DESCRIPTION	STRATA CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED
	NO.	REC.	DEPTH	BLOWS				
0'	1	1.6'	0-2'	4-4-5-6	LOAM, damp. Brown fine SAND, little (+) fine-crs Gravel, damp.	0-0.6' 0.6'-1.1'	0	P V C R I S E R P I P E
					Brown fine SAND, wood debris, red brick (fill material), damp.	1.1'-1.6'		
	2	0.6'	2'-4'	11-6-5-15	Black fine SAND, trace Gravel, damp, odor present (not petroleum like), appears stained.	2'-2.6'	50	
3	0	4'-6'	6-9-8-8	No Recovery.				
5'				(FILL)				
10'	4	1.5'	6'-8'	4-4-6-5	Black silty-fine SAND, moist, strong odor (not petroleum like), appears stained. Gray-brown silty-fine SAND, some black streaks, moist-wet, strong odor (not petroleum like).	6'-7.2' 7.2'-7.5'	64	
	5	1.3'	8'-10'	8-7-7-8	Brown-gray SILT, moist, strong odor (not petroleum like). Black silty-fine SAND, some Gravel, moist, strong odor (not petroleum like), appears stained. Gray-brown SILT, moist, strong odor (not petroleum like).	8'-8.1' 8.1'-8.4' 8.4'-9.3'	24	
	6	1.8'	10'-12'	4-6-4-5	Gray-brown SILT, horizontal streaks of black throughout, moist, odor present (not petroleum like). Brown med SAND, moist, odor present (not petroleum like).	10'-10.8' 10.8'-11.8'	10	
	7	0.4'	12'-14'	4-7-10-2	Gray-brown fine-crs SAND, and fine-crs Gravel, trace black streaks, moist-wet, odor present (not petroleum like).	12'-12.4'	7	
15'	8	0	14'-16'	4-3-1-1	No Recovery.			
	9	0.3'	16'-18'	5-5-5-7	Brown-gray silty-fine SAND, trace Gravel, wet, odor present (not petroleum like).	9'-9.3'	8	
20'	10	0.6'	18'-20'	9-7-6-4	Crs(+)-fine GRAVEL, some (-) gray-brown fine-med Sand, wet, some sheen observed, odor present (not petroleum like). (GLACIAL OUTWASH)	18'-18.6'	20	

PROPORTIONS USED		PENETRATION RESISTANCE		WELL CONSTRUCTION LEGEND	
TRACE	0 TO 10%	140 LB WT FALLING 30" ON 2" O.D. SAMPLER	BENTONITE	CONCRETE	GROUT
LITTLE	10 TO 20%	COHESIONLESS DENSITY			
SOME	20 TO 35%	COHESIVE CONSISTENCY			
AND	35 TO 50%		SILICA SAND	NATURAL BACKFILL	BEDROCK
		0-4 VERY LOOSE	0-2 VERY SOFT		
		5-9 LOOSE	3-4 SOFT		
		10-29 MED. DENSE	5-8 M/STIFF		
		30-49 DENSE	9-15 STIFF		
		50+ VERY DENSE	16-30 V-STIFF		
			31+ HARD		

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-D	
BORING COMPANY FOREMAN EARTH TECH INSPECTOR		GeoLogic Scott Paul Sleasman		BORING LOCATION East side of school bldg. GROUND ELEVATION DATE STARTED 5/6/03 DATE ENDED 5/7/03	

SIZE	<u>CASING</u>	TYPE	<u>SAMPLER</u>	OTHER:	DATE	DEPTH	CASING	STABILIZATION TIME
HAMMER	NA	HAMMER	2" Split Spoon	4 1/4" I.D. Augers	5/7/03	14.22'	2" PVC	5/7/03
FALL	NA	FALL	140 lb		15:30	Top of Casing		
			30"					

SAMPLE					SAMPLE DESCRIPTION	STRATA CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED
	NO.	REC.	DEPTH	BLOWS				
20'	11	0.5'	20'-22'	5-5-3-2	Brown fine-crs SAND, and fine-crs Gravel, wet, some sheen observed, odor present (not petroleum like). 3" dia. Split Spoon Sampler: Fine-crs GRAVEL, wet, sheen observed, free product blebs, odor present.	20'-20.5'	PID Not Working	P V C R I S E R P I P E
			0.8'	20'-22'		20'-20.8'		
25'	12	0.3'	22'-24'	6-5-8-8	Fine-crs GRAVEL, some fine-crs brown-gray Sand, wet, sheen observed, moderate petroleum odor.	22'-22.3'	PID Not Working	26.0'-
	13	1.5'	24'-26'	10-12-14-14	Fine-crs GRAVEL, little fine-crs brown Sand, wet, sheen observed, moderate petroleum odor. 3" Split Spoon Sampler used.	24'-25.5'	PID Not Working	
	14	0.9'	26'-28'	15-11-12-12	Fine-crs GRAVEL, little(-) fine-crs brown Sand, wet, sheen observed, moderate petroleum odor. 3" Split Spoon Sampler used.	26'-26.9'	PID Not Working	
30'	15	0.9'	28'-30'	7-8-9-8	Brown med SAND, wet, moderate petroleum odor.	28'-28.9'	PID Not Working	31.4'-
	16	0.8'	30'-32'	5-5-6-7	Brown med SAND, wet, sheen observed, moderate petroleum odor.	30'-30.8'	PID Not Working	
	17	1.0'	32'-34'	5-7-6-7	Same.	32'-33'	PID Not Working	
35'	18	0.6'	34'-36'	4-4-8-8	Brown med SAND, wet.	34'-34.6'	PID Not Working	34.0'-
	19	1.0'	36'-38'	10-10-8-9	Brown med SAND, little (-) fine-crs Gravel, wet.	36'-37'	PID Not Working	
	20	0.9'	38'-40'	8-7-7-5	Brown med SAND, wet.	38'-38.9'	PID Not Working	
40'	(GLACIAL OUTWASH)							

PROPORTIONS USED				PENETRATION RESISTANCE				WELL CONSTRUCTION LEGEND			
TRACE 0 TO 10% LITTLE 10 TO 20% SOME 20 TO 35% AND 35 TO 50%				140 LB WT FALLING 30" ON 2" O.D. SAMPLER COHESIONLESS DENSITY 0-4 VERY LOOSE 5-9 LOOSE 10-29 MED. DENSE 30-49 DENSE 50+ VERY DENSE				COHESIVE CONSISTENCY 0-2 VERY SOFT 3-4 SOFT 5-8 M/STIFF 9-15 STIFF 16-30 V-STIFF 31+ HARD			
				BENTONITE CONCRETE GROUT							
				SILICA SAND NATURAL BACKFILL BEDROCK							

EARTH TECH 40 British American Boulevard Latham, New York 12110		PROJECT: Southside High School Elmira, New York		BORING NUMBER MW-D	
BORING COMPANY FOREMAN EARTH TECH INSPECTOR		GeoLogic Scott Paul Sleasman		BORING LOCATION East side of school bldg. GROUND ELEVATION DATE STARTED 5/6/03 DATE ENDED 5/7/03	

SIZE		CASING	TYPE	SAMPLER	OTHER:	DATE	DEPTH	CASING	STABILIZATION TIME
HAMMER	NA	NA	HAMMER	2" Split Spoon	4 1/4" I.D. Augers	5/7/03	14.22'	2" PVC	5/7/03
FALL	NA	NA	FALL	140 lb		15:30	Top of Casing		
				30"					

SAMPLE					SAMPLE DESCRIPTION	STRATA. CHANGE AND GENERAL DESCRIPTION	FIELD TESTING OVM (ppm)	EQUIPMENT OR WELL INSTALLED
	NO.	REC.	DEPTH	BLOWS				
45'	21	0.6'	40'-42'	10-8-7-8	Brown med SAND, trace Silt present, wet.	40'-40.6'	PID Not Working	44.0'-44.5'-
	22	0.5'	42'-44'	4-2-3-2	Brown med SAND, wet. (GLACIAL OUTWASH)	42'-42.4' 42.4'-42.5'	PID Not Working	
	23	0	44'-46'	3-4-4-4	Gray Silty CLAY, moist. No Recovery (tip of sampler contained gray Silty CLAY).		PID Not Working	
	24	0.9'	46'-48'	2-2-3-4	Gray Silty CLAY, moist. (GLACIO LACUSTRINE)	46'-46.9'	PID Not Working	
50'					END OF BORING TOTAL BORING DEPTH = 47.0' 5/6/03 14:00 44.5'-47.0': Collapsed upon removing spoon.		0-26.0': Grout 26.0'-31.4': Bentonite Seal 31.4'-32.0': #00 Silica Choke Sand 32.0'-44.5': #0 Silica Filter Pack 0-34.0': 2" I.D. PVC Riser Pipe 34.0'-44.0': 2" I.D. PVC Well Screen (0.01" slot)	
55'								
60'								

WELL CONSTRUCTION LEGEND										
PROPORTIONS USED TRACE 0 TO 10% LITTLE 10 TO 20% SOME 20 TO 35% AND 35 TO 50%		PENETRATION RESISTANCE 140 LB WT FALLING 30" ON 2" O.D. SAMPLER COHESIONLESS DENSITY 0-4 VERY LOOSE 5-9 LOOSE 10-29 MED. DENSE 30-49 DENSE 50+ VERY DENSE		COHESIVE CONSISTENCY 0-2 VERY SOFT 3-4 SOFT 5-8 M/STIFF 9-15 STIFF 16-30 V-STIFF 31+ HARD		BENTONITE	CONCRETE	GROUT	SILICA SAND	NATURAL BACKFILL
								BEDROCK	++++++	

LAYNE-NEW YORK CO., INC.

1250 WEST ELIZABETH AVE.

LINDEN, N. J.

DRILLERS REPORT

Contract ELMIRA BOARD OF EDUCATION WELL NO. 1City ELMIRA County CHEMUNG State NEW YORK

Formation

Sketch of Setting

Remarks

0'	
GRAVEL FILL & CLAY 5'	
CLAY GRAVEL STREAKS 10'	
BROWN CLAY & GRAVEL 16'	
LARGE MEDIUM SMALL GRAVEL & SAND 31'	
YELLOW SANDY CLAY 32'	
GRAY CLAY 36'	

MATERIAL SET

Pipe Length — Size — Metal — T. and C. or Welded

22' 24" STL

21' 18" STL

Screen 10' 18" { Armco
Everdur
Stainless S.

Diameter Top—Diameter Bottom—Length

Cone

Plug STLAmount Gravel Used 4 BBL Size No. 5" Clay Used { Bags Powdered Reg.
Bags Laynite B-3Date Work Started 9-29-78 Date Pumped 1-11-78

On sketch show

- (1) Parts { Std. Rotated
Reverse Rotated
Cable Tool or Bailed
- (2) Depth of pump pit
- (3) Kind of seals
- (4) Distance from surface to each section of well
- (5) Depth of well after plugging

Did Well clear up? YES How soon? 5 HRHow long agitated? 30 HRHow long pumped? 48 HR

PRELIMINARY TEST DATA

Static Level 11.02 Date 1-11-78Capacity 500 GPM with Pumping Level of 14'Fill in and sign other side of this report also.

Norman K. Kell
Driller.