APPENDIX 6

BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test		Date:	9/6/06		Sheet	1	Of	1
Boring ID:	Test Boring 55	Type of Boring:	Drive Point		Was boring converted to a well?		Yes	
Equipment:	DPT Unit on Skid-Steer	Depth of Boring	40 Ft.		Casing Material	PVC	Casing Size	1-Inch
Driller:	ESN SE	Boring Diameter	3-Inch		Boring Completed:		9/6/06	
Logged by:	Tom Watson				Surface Elev'n.			

Depth (feet)	Geologic Description		Comments
5	Fill Material: Sand, clay, silt mix. From 4 ft. to 5 ft., white soupy material (calc-alum silicate)		
10	Fill: White, thick liquid as above from 5 to 9 feet below surface. At 9 Ft. BGS, weathered rock.		
15	Saprolite of Amphibolite-gneiss. Salt & Pepper coloring. White to dk black sand-sized grains in reddish brn. silty-clay matrix.		
20	PWR as above. At 19 ft. BGS, hard refusal on quartz/feldspar cobble.		DPT may be unsuitable for this site. Switch to 3-inch diameter auger at this point.
25	Auger through cobble. Continue with solid stem, 3-in diam auger. From 20 to 25, back in PWR as previous.		Drilling with this rig is very difficult. Lacks weight necessary to penetrate PWR
30	Saprolite, as above. Hole dry and open.		Drilling is very slow.
35	PWR, as above. Probably in water near 35 ft. BGS.		
40	PWR, as above.		Terminate boring at 40 feet BGS.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 9/6/06		Sheet 1	Of	1
Boring ID:	Test Boring 56	Type of Boring:	Drive Point		Was boring converted to a well?	Yes	
Equipment:	DPT Unit on Skid-Steer	Depth of Boring	40 Ft.		Casing Material PVC	Casing Size	1-Inch
Driller:	ESN SE	Boring Diameter	3-Inch		Boring Completed:	9/6/06	
Logged by:	Tom Watson				Surface Elev'n.		

Depth (feet)	Geologic Description		Comments
5	Fill Material: Sand, clay, silt mix. At 4 ft., white soupy (calc-alum silicate).		
10	Fill: White, thick liquid as above.		
15	Calc-aluminum silicate ends at 12 ft. Then partially weathered rock (PWR). Amphibolite-gneiss. Salt & Pepper coloring. White to dk black coarse sand-sized grains in reddish brn. silty-clay matrix.		
20	PWR as above. Weathered feldspar.		DPT may be unsuitable for this site. Switch to 3-inch diameter auger at this point.
25	PWR, as above, but hard refusal at 24 ft.		Terminate boring at 24 ft BGS. Drilling with this rig is very difficult. Lacks weight necessary to penetrate PWR
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	9/18/06		Sheet	1	Of	1
Boring ID:	MW57	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	49 Ft.			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		9/18/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		Fill varies from 2 to 5 feet thick in this locale.
10	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		
15	As above. Gneiss is tightly folded as apparent in auger cuttings.		
20	Saprolite as above. Weathered feldspar, saprolitic.		
25	Saprolite, as above.		
30	Saprolite, weathered amphibolite gneiss.		
35	In partially weathered rock. Amphibolite gneiss. Hard refusal at 34 ft. BGS.		Switching to downhole hammer.
40	Through resistant layer at 36 feet, then in saprolite, as above.		
45	Saprolite, as above. Weathered amphibolite gneiss with thin "streaks" of quartz as fracture fill.		
50	As above.		Boring terminated at 49 ft. below land surface.

Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 9/18/06		Sheet 1	Of 1
Boring ID:	MW58	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?	Yes
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	49 Ft.		Casing Material: PVC	Casing Size: 2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:	9/18/06
Logged by:	Tom Watson				Surface Elev'n.	

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		
15	As above.		
20	PWR as above. Weathered feldspar, saprolitic.		
25	PWR, as above.		Terminate boring at 24 ft BGS. Drilling with this rig is very difficult. Lacks weight necessary to penetrate PWR
30	PWR, weathered amphibolite gneiss. Hard refusal at 28 ft. From 27.5 to 30 ft., drill through hard quartz/feldspar layer. At 30, back in saprolite.		Switch to down-hole hammer at 27.5 ft.
35	In partially weathered rock. Amphibolite gneiss. Another hard layer, approx 33 to 34 feet.		Resistant layers are quartz with some feldspar.
40	Saprolite, as above		
45	Saprolite, as above. Weathered amphibolite gneiss with thin "streaks" of quartz as fracture fill.		
50	As above.		Boring terminated at 49 ft. below land surface.

Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 9/18/06		Sheet	1	Of	1
Boring ID:	MW59	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	50 Ft.		Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:		9/18/06	
Logged by:	Tom Watson				Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		
15	Partially weathered rock (PWR). Amphibolite-gneiss. Salt & Pepper coloring. White to dk black coarse sand-sized grains in reddish brn. silty-clay matrix.		
20	PWR as above. Weathered feldspar.		DPT may be unsuitable for this site. Switch to 3-inch diameter auger at this point.
25	PWR, as above.		Terminate boring at 24 ft BGS. Drilling with this rig is very difficult. Lacks weight necessary to penetrate PWR
30	PWR, weathered amphibolite gneiss. Hard refusal at 28 ft. From 28 to 30 ft., drill through hard quartz/feldspar layer. At 30, back in saprolite.		Switch to down-hole hammer at 28 ft.
35	In partially weathered rock. Amphiblite gneiss.		Cuttings are damp at 40 ft.
40	Saprolite, as above		
45	Saprolite, as above. Weathered amphibolite gneiss with thin "streaks" of quartz as fracture fill.		
50	As above.		Boring terminated at 50 ft. below land surface.

Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 9/19/06		Sheet	1	Of	1
Boring ID:	MW60	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	42 Ft.		Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:		9/19/06	
Logged by:	Tom Watson				Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix. Contact between fill and native rock is indistinct.		Probably concrete layer 3.5 to 4.
10	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		Hard layer, 8 to 9 ft. BGS. Augered through.
15	As above. Gneiss is tightly folded as apparent in auger cuttings.		Interval from 10 to 33 ft. BGS drills quickly.
20	PWR as above. Weathered feldspar, saprolitic.		
25	PWR, as above.		
30	PWR, weathered amphibolite gneiss.		
35	In partially weathered rock. Amphibolite gneiss. Hard layer at 34 ft. BGS.		Drilled through hard layer with auger. Appears to be vein quartz.
40	Through resistant layer at 36 feet, then in saprolite, as above.		
45			Boring terminated at 42 feet. Hole completed with augers only.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 9/19/06		Sheet	1	Of	1
Boring ID:	MW61	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	42 Ft.		Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:		9/19/06	
Logged by:	Tom Watson				Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		Probably concrete layer 3.5 to 4.
10	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		Hard layer, 8 to 9 ft. BGS. Augered through.
15	As above. Gneiss is tightly folded as apparent in auger cuttings.		Interval from 10 to 33 ft. BGS drills quickly.
20	PWR as above. Weathered feldspar, saprolitic.		
25	PWR, as above.		
30	PWR, weathered amphibolite gneiss.		
35	In partially weathered rock. Amphibolite gneiss. Hard layer at 34 ft. BGS.		Drilled through hard layer with auger. Appears to be vein quartz.
40	Through resistant layer at 38 feet, then in saprolite, as above.		
45			Boring terminated at 40 feet. Hole completed with augers only.
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Log of Boring TW2

Project Name: Bon L, Newnan Pilot Test			Date:	9/19/06		Sheet	1	Of	1
Boring ID:	MW62	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	45 Ft.			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		9/19/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		
15	As above. Gneiss is tightly folded as apparent in auger cuttings.		
20	PWR as above. Weathered feldspar, saprolitic.		
25	PWR, as above.		SS sample 23.5-25 Ft. In amphibolite, weathered, contorted micaceous. Gray brown to reddish brown. BC = 4/4/11. Volatiles all ND.
30	PWR, weathered amphibolite gneiss.		
35	In partially weathered rock. Amphibolite gneiss.		
40	PWR, weathered amphibolite gneiss.		Boring terminated at 40 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	9/19/06		Sheet	1	Of 1
Boring ID:	MW63	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	45 Ft.			Casing Material	PVC	Casing Size 2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		9/19/06
Logged by:	Tom Watson					Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		
15	As above. Gneiss is tightly folded as apparent in auger cuttings.		
20	PWR as above. Weathered feldspar, saprolitic.		
25	PWR, as above.		SS sample 23.5-25 Ft. In amphibolite, weathered, contorted micaceous. Gray brown to reddish brown. BC = 9/19/22. Volatiles all ND.
30	PWR, weathered amphibolite gneiss.		
35	In partially weathered rock. Amphibolite gneiss.		
40	PWR, weathered amphibolite gneiss.		
45	PWR, weathered amphibolite gneiss.		Boring terminated at 45 feet. Hole completed with augers only.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 9/7/06		Sheet	1	Of 1
Boring ID:	MW64	Type of Boring:	Drive Point		Was boring converted to a well?		Yes
Equipment:	DPT Unit on Skid-Steer	Depth of Boring	30 Ft.		Casing Material	PVC	Casing Size 1-Inch
Driller:	ESN SE	Boring Diameter	3-Inch		Boring Completed:		9/7/06
Logged by:	Tom Watson				Surface Elev'n.		

Depth (feet)	Geologic Description		Comments
5	Top 1-foot is fill material: Sand, clay, silt mix. 4-5 feet is weathered rock. Saprolitic amphibolite gneiss.		In upper 5-feet, hard to tell whether fill or in-situ saprolite.
10	Saprolite: Amphibolite gneiss. Amphibole minerals alternating in dark bands with lighter feldspar and quartz.		
15	Weathered amphibolite-gneiss. Salt & Pepper coloring. White to dk black coarse sand-sized grains in reddish brn. silty-clay matrix.		
20	PWR as above. Weathered feldspar.		Amphibolite is too dense for effective penetration by DPT Unit.
25	PWR, as above, but hard refusal at 24 ft.		Terminate boring at 24 ft BGS. Drilling with this rig is very difficult. Lacks weight necessary to penetrate PWR
30	PWR, weathered amphibolite gneiss.		Boring terminated at 30 feet. Will switch to hollow-stem auger with pneumatic hammer potential. DPT is not effective on this site.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	9/7/06		Sheet	1	Of	1
Boring ID:	MW65	Type of Boring:	Drive Point			Was boring converted to a well?		Yes	
Equipment:	DPT Unit on Skid-Steer	Depth of Boring	30 Ft.			Casing Material	PVC	Casing Size	1-Inch
Driller:	ESN SE	Boring Diameter		3-Inch		Boring Completed:		9/7/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description		Comments
5	Fill Material: Sand, clay, silt mix.		
10	Fill: White, thick liquid as above.		
15	Partially weathered rock (PWR). Amphibolite-gneiss. Salt & Pepper coloring. White to dk black coarse sand-sized grains in reddish brn. silty-clay matrix.		
20	Saprolite as above. Weathered feldspar.		DPT may be unsuitable for this site. Switch to 3-inch diameter auger at this point.
25	Saprolite, as above, but hard refusal at 24 ft.		Terminate boring with DPT at 24 ft BGS. Drilling with this rig is very difficult. Lacks weight necessary to penetrate PWR. Switch to auger on same rig
30	Saprolite, weathered amphibolite gneiss.		Boring terminated at 30 feet. Will switch to hollow-stem auger with pneumatic hammer potential. DPT is not effective on this site.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	9/20/06		Sheet	1	Of	1
Boring ID:	MW66	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		9/20/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Reddish brn clayey sand.		
15	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		SS sample 13.5-15 Ft. In amphibolite, weathered, contorted micaceous. Gray brown to reddish brown. BC = 5/7/10. Volatiles all ND.
20	Saprolite as above. Weathered feldspar, saprolitic.		At 17 Ft., hit a hard streak, broke pin in turntable works. Took about 20 minutes to fix.
25	Saprolite, as above.		V. Hard at 24 Ft., then soft.
30	PWR, weathered amphibolite gneiss.		Boring terminated at 28 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	9/20/06		Sheet	1	Of	1
Boring ID:	MW67	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		9/20/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Reddish brn clayey sand.		
15	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		SS sample 13.5-15 Ft. In amphibolite, weathered, contorted micaceous. Gray brown to reddish brown. BC = 2/3/3. Volatiles all ND.
20	Saprolite as above. Weathered feldspar, saprolitic.		
25	Saprolite, as above.		
30	PWR, weathered amphibolite gneiss.		Boring terminated at 28 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	9/20/06		Sheet	1	Of	1
Boring ID:	MW68	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		9/20/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Reddish brn clayey sand.		
15	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		SS sample 13.5-15 Ft. In amphibolite, weathered, contorted micaceous. Gray brown to reddish brown. BC = 3/5/5. Volatiles all ND.
20	Saprolite as above. Weathered feldspar, saprolitic.		
25	Saprolite, as above.		
30	PWR, weathered amphibolite gneiss.		Boring terminated at 28 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	9/20/06		Sheet	1	Of	1
Boring ID:	MW69	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		9/20/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Reddish brn clayey sand.		
15	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		SS sample 13.5-15 Ft. In amphibolite, weathered, contorted micaceous. Gray brown to reddish brown. BC = 4/5/7. Volatiles all ND.
20	Saprolite as above. Weathered feldspar, saprolitic.		
25	Saprolite, as above.		
30	PWR, weathered amphibolite gneiss.		Boring terminated at 28 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	9/20/06		Sheet	1	Of	1
Boring ID:	MW70	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		9/20/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Reddish brn clayey sand.		
15	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		SS sample 13.5-15 Ft. In amphibolite, weathered, contorted micaceous. Gray brown to reddish brown. BC = 4/5/7. Volatiles all ND.
20	Saprolite as above. Weathered feldspar, saprolitic.		
25	Saprolite, as above.		
30	PWR, weathered amphibolite gneiss.		Boring terminated at 28 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 9/20/06		Sheet	1	Of 1
Boring ID:	MW71	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?		Yes
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28		Casing Material	PVC	Casing Size 2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:		9/20/06
Logged by:	Tom Watson				Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		
10	Reddish brn clayey sand.		
15	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		SS sample 13.5-15 Ft. In amphibolite, weathered, contorted micaceous. Gray brown to reddish brown. BC = 3/5/7. Volatiles all ND.
20	PWR as above. Weathered feldspar, saprolitic.		
25	PWR, as above.		
30	PWR, weathered amphibolite gneiss.		Boring terminated at 28 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	9/20/06		Sheet	1	Of 1
Boring ID:	MW72	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?	Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28			Casing Material	PVC	Casing Size 2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:	9/20/06	
Logged by:	Tom Watson					Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill Material: Sand, clay, silt mix.		Last well of this series.
10	Reddish brn clayey sand.		
15	Amphibolite gneiss: Saprolitic. Separate layers of amphibole minerals and feldspar/quartz.		
20	Saprolite as above. Weathered feldspar, saprolitic.		
25	Saprolite, as above.		
30	PWR, weathered amphibolite gneiss.		Boring terminated at 28 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	10/13/06		Sheet	1	Of	1
Boring ID:	MW73	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28 Ft			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		10/13/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then into fill material: Sand, clay, silt mix.		Drills very hard. Fill under floor
10	Reddish brn clayey sand. Possible fill interval to 8 or 9 feet. V. Similar in appearance to saprolite. V. Hard drilling from 9-10. Saprolite.		Calibrate PID. After cal, responds to solvent in marking pen, but response during drilling = 0
15	Micaceous sandy clay. Amphibolite gneiss: Saprolitic.		No PID Indications, above water table
20	Saprolite as above.		No PID Indications, above water table
25	Saprolite, as above.	WT	Split Spoon from 20-21.5. Blow Count = 10/11/28. Water table at 22 feet.
30	Dk. Brn Micaceous Sandy Clay		Boring terminated at 28 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	10/12/06		Sheet	1	Of	1
Boring ID:	MW74	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		No	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28			Casing Material	PVC	Casing Size	6-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		10/12/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches, then fill material: sand, clay, silt mix.		Drills very hard. Fill under floor
10	At approx. 6 feet, drill into void. Storm sewer apparently. Pipe is nearly dry.		Concrete pipe, approx. 36-inch diam. Boring left open for further options. Covered with steel plate.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	10/12/06		Sheet	1	Of	1
Boring ID:	MW75	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		10/12/06	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then into fill material: Clay, silty, reddish brown.		Fill under floor
10	Reddish brn clayey sand. Appears to be in-situ weathered amphibolite. Saprolitic.		PID = 0
15	Micaceous sandy clay. Dk. Reddish brown.		No PID response
20	Saprolite as above.		Dk. Reddish brown micaceous clay. Split Spoon sample from 20-21.5 ft. Blow Count = 2/2/3 No PID response
25	Saprolite, as above.	WT	Water Table at 22 ft below floor.
30	As above.		Slight odor of solvent? No response on PID, but detect slight "dry cleaner" smell. Boring terminated at 28 Ft.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 10/13/06		Sheet	1	Of 1
Boring ID:	MW76	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?	Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28		Casing Material	PVC	Casing Size 2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:	10/13/06	
Logged by:	Tom Watson				Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then into fill material: Clay, silty, reddish brown. Second concrete layer, about 6-inches thick, five feet below surface.		Fill under floor
10	Reddish brn clayey sand. Possibly fill, although is native soil. Appears to be in-situ weathered amphibolite.		No PID response.
15	SaproliteMicaceous sandy clay. Dk. Reddish brown.		No PID response.
20	Dk. Brown clay, sandy.		Split Spoon sample 20-21.5. Blow Count = 6/6/5. No response on on PID.
25	Saprolite, as above.	WT	Water at about 21-22 feet.
30	As above.		No PID response.
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Log of Boring TW-2

Project Name: Bon L, Newnan Pilot Test			Date: 1/16/07		Sheet	1	Of 1
Boring ID:	MW77	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?	Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28		Casing Material	PVC	Casing Size 2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:	1/16/07	
Logged by:	Tom Watson				Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then into fill material: Clay, silty, reddish brown.		Fill under floor. At 4' another concrete layer approx 6-inches thick. No reading on PID.
10	Reddish brn clayey sand. Appears to be in-situ weathered amphibolite.		Split Spoon Sample. Blow Count = 2-2-2
15	Micaceous sandy clay. Dk. Reddish brown.		No reading on PID
20	Dk. Brown clay, sandy.		Drills hard. 6 minutes. No reading on PID
25	Saprolite, as above. Quartz layer noticeable at 23 feet.	WT	Just above water table. Grinding on quartz layer. Drills hard. 6-7 minutes.
30	As above.		Solvent odor detected, but no reading on PID
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 1/16/07		Sheet 1	Of 1	
Boring ID:	MW78	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?	Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	28		Casing Material PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:	1/16/07	
Logged by:	Tom Watson				Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then into fill material: Clay, silty, reddish brown. No second layer of concrete.		Fill under floor. At 4' another concrete layer approx 6-inches thick. No reading on PID.
10	Reddish brn clayey sand. Appears to be in-situ weathered amphibolite.		Drills easy, 2-3 min. No reading on PID
15	Micaceous sandy clay. Dk. Reddish brown.		No reading on PID
20	Dk. Brown clay, sandy.		Drills hard. 6 minutes.
25	Saprolite. Black mica,amphiboles, brick red clay.	WT	Drills hard. 6-7 minutes. Penetrate hard layer, water at 22-23 feet below surface. V. soft.
30	As above.		Drill to 31' to allow for well construction. Formation is flowing into hole.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	3/5/07		Sheet	1	Of	1
Boring ID:	MW79	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	30			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		3/5/07	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then into fill material: Clay, silty, reddish brown.		Fill under floor. At 4.5 another concrete layer approx 6-inches thick. No reading on PID. Muddy above, dry below.
10	Dry residuum. Black micaceous w/dk red clay. V. Little structure. Possibly fill. If fill, it's probably native. Hard to tell from saporlite except for lack of structure.		Drills easy. No reading on PID
15	Micaceous sandy clay. Dk. Reddish brown. Saprolite here.		No reading on PID
20	Dk. Brown clay, sandy. Similar to above.		Hard, "squeaky" layer 20-22 ft.
25	Saprolite, as above. Quartz veins, thin, brittle. No hammer drilling this well.	WT	Water table about 23 feet. Then rapid drop. V. Soft. No PID reading.
30	Real soft, lithology as above, but wet and soft.		Solvent odor
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date: 3/5-6/2007		Sheet	1	Of 1
Boring ID:	MW80	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?	Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	30		Casing Material	PVC	Casing Size 2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:	3/6/07	
Logged by:	Tom Watson				Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then into fill material: Clay, silty, reddish brown.		Fill under floor. At 4.5 another concrete layer approx 6-inches thick. No reading on PID.
10	Dry residuum. Black micaceous w/dk red clay. May be residuum to 8 feet.		Split spoon at 10 ft. Blow Count = 7-7-6
15	Similar to others this area.Micaceous sandy clay. Dk. Reddish brown. Bit on v. hard "squeaky" layer. Resume drilling at 12. From 12-15, v. hard layer. Qtz in cuttings.		At 12 ft., broke Kelly bar. Approx. 24 hr. delay in drilling. Hole remained dry overnight. No PID reading.
20	Black mica/amphibole, with brick red clay. Simiar to others.		Smooth drilling this interval. No noticeable solvent odor. Nothing on PID.
25	Saprolite, as above	WT	Water at about 21 feet.
30	Soft, wet. Lithology as above.		No noticeable solvent odor. Nothing on PID.
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	3/6/07		Sheet	1	Of	1
Boring ID:	MW81	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	30			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		3/6/07	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then into fill material: Clay, silty, reddish brown.		Fill under floor. At 4.5 another concrete layer approx 6-inches thick. No reading on PID. Area was probably a pking lot, built over.
10	Dry residuum. Black micaceous w/dk red clay. Sample color texture similar to saprolite, possible fill		Split spoon at 8.5 to 10 ft. Blow count = 9-6-5. No PID reading.
15	Similar to others this area.Micaceous sandy clay. Dk. Reddish brown. Bit on v. hard "squeaky" layer. Resume drilling at 12. From 12-15, v. hard layer. Qtz in cuttings.		
20	Saprolite. Black mica/amphibole, with brick red clay. Simiar to others. This interval drills smoothly.		SS 18.5 to 20, Blow count = 3/4/5. No PID reading.
25	Saprolite, as above. Interval from 23-27 drilled v. slowly, although same lithology.	WT	Water table at 22. No PID reading.
30	Soft, wet. As above.		After penetrating hard layer, definite odor of solvent. Color goes to gray brown from brick red. Still no response from PID!
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	3/7/07		Sheet	1	Of	1
Boring ID:	MW82	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	26			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		3/7/07	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. 1 ft. sandy fill. Concrete. From 2-5, soil over reddish brown fill.		Well is at foot of loading dock. About 5 feet lower than previous borings.
10	Dry residuum. Black micaceous w/dk red clay.		Split spoon at 8.5 to 10 ft. Blow count = 7-8-7. No PID reading, no solvent odor.
15	Saprolite. Similar to all the others.		Drilling smooth, rapid. No PID reading.
20	Saprolite. Black mica/amphibole, with brick red clay. Simiar to others. This interval drills smoothly.	WT	Split Spoon 18.5 to 20, Blow Count = 3/4/5. Water table at about 17 feet.
25	Saprolite, as above. Interval from 23-26 drilled v. slowly, cuttings not returning.		Slow drilling
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Log of Boring TW²

Project Name: Bon L, Newnan Pilot Test			Date:	3/7/07		Sheet	1	Of	1
Boring ID:	MW83	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	26			Casing Material	PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter		10-Inch		Boring Completed:		3/7/07	
Logged by:	Tom Watson					Surface Elev'n.			

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. 1 ft. sandy fill. Concrete. From 2-5, soil over reddish brown fill.		Well is at foot of loading dock. About 5 feet lower than previous.
10	Dry residuum. Possible fill to about 8 feet. Native material. Black micaceous w/dk red clay.		Split spoon at 8.5 to 10 ft. 8-6-7
15	Saprolite. Similar to all the others.		Drilling smooth, rapid. Then hard, squeaky layer from 15 to 18.
20	Black mica/amphibole, sand sized parts, with some brick red clay. Simiar to others. This interval drills smoothly.	WT	No response on PID. Split Spoon 18.5 to 20, 3/4/5. Water at 17-18 feet.
25	Saprolite, as above. Interval from 23-26 drilled v. slowly, cuttings not returning.		No noticeable PID Reaction. Very soupy at bottom
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Log of Boring TW²

Project Name: Bon L, Newnan Vertical Assessment			**Date:**	10/26/09		**Sheet**	1	**Of**	1
Boring ID:	MW85D	**Type of Boring:**	Hollow Stem Auger, Type III Well			**Was boring converted to a well?**		Yes	
Drilled With:	Hollow-stem auger	**Depth of Boring**	45 feet			**Casing Material**	PVC	**Casing Size**	6-Inch to 2-Inch Telescoping
Driller:	Piedmont Env. Drilling	**Boring Diameter**		10 to 3.5		**Boring Completed:**		11/2/09	
Logged by:	Tom Watson					**Surface Elev'n.**		937.80	

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then sand, clayey, reddish brown. Then back into concrete layer.		Historical aerophotos indicate this area was formerly outside pavement.
10	Penetrate concrete layer above 6 feet. Then dry residuum/fill. Sand, brick red, micaceous, amphibolitic. Native material. Black mica and amphibolite w/dk red clay.		Split spoon at 8.5 to 10 ft. Blow count is 11/8/7, soft. PID = 60 ppm
15	Sand, clayey, micaceous amphibolitic, residuum/fill. Same as above layer.		Split spoon 13.5 to 15 feet. BC 6/6/8 soft, dry. Drilling smooth, rapid. Lab sample, this interval. PID = 73 ppm.
20	Sand with black mica/amphibole, sandy. Brick red clay. Simiar to others. This interval drills smoothly. Portion of tree root or stick in cuttings. Indicates possible fill.		Split Spoon 18.5 to 20, 7/6/6. Water at about 22 feet. At water level, color goes to grayish red from shallower brick red. PID = 44.5 ppm.
25	Saprolite, as above. Interval from 23-26 drilled v. slowly, cuttings not returning.	WT	Below water table, color goes from brick red to grayish red. PID = 40 ppm.
30	Saprolite after amphibolite. Feldspar, white to light gray, with black mica and black amphibole minerals. Salt and pepper in appearance.		Split spoon 28.5-30. 36/22/50 over 4 hard. Set 6-inch surface casing at 30 feet. Return on November 2, to resume drilling.
35	Saprolite after amphibolite. Feldspar, white to light gray, with black mica and black amphibole minerals. Salt and pepper in appearance.		Top of partially weathered rock (PWR) at 30 feet.
40	In PWR. Layers of black mica and amphiboles, interlayered with white feldspars, minor quartz.		Alternating hard to soft layers. Split spoon at 38.5 to 40 feet was 19-50/3. V. dense. PID = 45 ppm
45	In PWR. This interval is mostly black contored layers of mica and amphibole. TD = 45.45		Screened interval is 40 to 45 feet. PID = 400 ppm.

Log of Boring TW²

Project Name: Bon L, Newnan Vertical Assessment		**Date:**	10/27/09	**Sheet**	1	**Of**	1
Boring ID:	MW86D	**Type of Boring:**	Hollow Stem Auger, Type III Well	**Was boring converted to a well?**		Yes	
Drilled With:	Hollow-stem auger	**Depth of Boring**	40 feet	**Casing Material**	PVC	**Casing Size**	6-Inch to 2-Inch Telescoping
Driller:	Piedmont Env. Drilling	**Boring Diameter**	10 to 3.5	**Boring Completed:**		11/2/09	
Logged by:	Tom Watson			**Surface Elev'n.**		937.80	

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then sand, clayey, reddish brown. Then back into concrete layer.		Historical aerophotos indicate this area was formerly outside pavement.
10	Penetrate concrete layer above 6 feet. Sand. Reddish brown, clayey, no structure evident, possibly fill.		Split spoon at 8.5 to 10 ft. Blow count is 8/6/6, soft. No structure evident. PID = 22 ppm. All VOCs BDL.
15	Sand, clayey, brownish gray; micaceous amphibolitic. Very fine rootlets, residuum/fill.		Split spoon 13.5 to 15 feet. BC 7/6/5 soft. Drilling smooth, rapid. PID = 89 ppm. All VOCs BDL.
20	Sand, clayey, brownish gray; micaceous amphibolitic. No visible structure, maybe fill or reworked naturally.		Split spoon 18.5-20 12/7/4. PID = 181 ppmAll VOCs BDL.
25	As above. Water table then soft drilling.	WT	
30	Saprolite after amphibolite. Hard, dense. Layering present, but indistinct.		Surface casing set at 30 feet.
35	Saprolite after amphibolite. Hard, dense. Salt and pepper amphibolite.		Split spoon sample 33.5-35. BC = 35 50/2. Hard.
40	Drills as above, no cuttings returned. Hard auger refusal at 40 feet. TD. Top of PWR.		Split spoon is 40-50/3.5. Screen set from 35 to 40 feet. PID reads zero.

Log of Boring TW²

Project Name: Bon L, Newnan Vertical Assessment		**Date:**	12/29/09	**Sheet**	1	**Of**	1
Boring ID:	MW87D	**Type of Boring:**	Hollow Stem Auger, Type III Well	**Was boring converted to a well?**		Yes	
Drilled With:	Hollow-stem auger	**Depth of Boring**	45 feet below floor.	**Casing Material**	PVC	**Casing Size**	6-Inch to 2-Inch Telescoping
Driller:	Piedmont Env. Drilling	**Boring Diameter**	10 to 3.5	**Boring Completed:**		1/4/10	
Logged by:	Tom Watson			**Surface Elev'n.**		937.80	

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then sand, clayey, reddish brown. Then back into concrete layer.		Historical aerophotos indicate this area was formerly outside pavement.
10	Penetrate concrete layer above 6 feet. Clay. Dk. Brick Red, sandy, micaceous, no structure evident, possibly fill.		Split spoon at 8.5 to 10 ft. Blow count is 15/15/12. Dense. VOCs all BDL.
15	Clay,sandy, micaceous, brick red. As above.		Split spoon 13.5 to 15 feet. BC 9/9/10 soft. All VOCs BDL.
20	Clay,sandy, micaceous, brick red. As above.		Drills smooth, rapid. All VOCs BDL.
25	Sand, clayey, micaceous, reddish-gray in color, lighter than above interval.	WT	Blow Count = 7/8/9. At water table, PCE = 9.8 ug/L. All other VOCs BDL.
30	Sand, grading downward in to partially weathered rock. PWR is amphibolite, white feldspar with black mica and amphibole. Brownish gray to gray.		Surface casing set at 30 feet. Below water table, all VOCs are BDL.
35	PWR. Saprolite after amphibolite. Hard, dense.		Drills hard. Chatters, then at 33 ft, back into softer layer. BC is 30-50-50/5. Sample is amphibolite, resembling poker chip.
40	Drills as above, no cuttings returned. Top of PWR.		Split spoon is 50/0. No sample available.
45	Drills as above, TD at 45 feet.		Screen set 43-45 feet.

Log of Boring TW²

Project Name: Bon L, Newnan Vertical Assessment			**Date:** 12/30/09		**Sheet** 1	**Of**	1
Boring ID:	MW88D	**Type of Boring:**	Hollow Stem Auger, Type III Well		**Was boring converted to a well?**	Yes	
Drilled With:	Hollow-stem auger	**Depth of Boring**	35		**Casing Material** PVC	**Casing Size**	6-Inch to 2-Inch Telescoping
Driller:	Piedmont Env. Drilling	**Boring Diameter**	10 to 4.5		**Boring Completed:**	11/2/10	
Logged by:	Tom Watson				**Surface Elev'n.**	937.80	

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then sand, clayey, reddish brown. Then back into concrete layer.		Historical aerophotos indicate this area was formerly outside pavement.
10	Penetrate concrete layer above 6 feet. Clay. Dk. Brick Red, sandy, micaceous, no structure evident, possibly fill.		Split spoon at 8.5 to 10 ft. Blow count is 11/8/7. Dense.
15	Clay,sandy, micaceous, brick red. As above.		Split spoon 13.5 to 15 feet. BC 9/9/10 soft.
20	Sand with black mica/amphibole, sandy. Brick red clay. Drills smoothly. Tree root or stick.		Drills smooth, rapid. BC = 6/6/8
25	Sand, clayey, micaceous, reddish-gray in color, lighter than above interval.	WT	Blow Count = 7/8/9
30	Sand, grading downward in to partially weathered rock. PWR is amphibolite, white feldspar with black mica and amphibole. Brownish gray to gray.		Surface casing set at 30 feet.
35	Hard saprolite to PWR. White xstaline feldspars with contorted layers of mica and amphibole. TD is 35 feet below floor.		Layer too hard to sample with split spoon. Screen set 33 to 35 feet below floor level.

Log of Boring TW²

Project Name: Bon L, Newnan Vertical Assessment			**Date:**	1/5/10		**Sheet**	1	**Of** 1
Boring ID:	MW89D	**Type of Boring:**	Hollow Stem Auger, Type III Well			**Was boring converted to a well?**	Yes	
Drilled With:	Hollow-stem auger	**Depth of Boring**	37 Ft.			**Casing Material**	PVC	**Casing Size** 6-Inch to 2-Inch Telescoping
Driller:	Piedmont Env. Drilling	**Boring Diameter**		10 to 4.5		**Boring Completed:**	11/11/10	
Logged by:	Tom Watson					**Surface Elev'n.**	937.80	

Depth (feet)	Geologic Description	Lithology	Comments
5	Concrete, approx. 6-inches thick. Then sand, clayey, reddish brown. Then back into concrete layer.		Historical aerophotos indicate this area was formerly outside pavement.
10	Penetrate concrete layer above 6 feet. Clay. Dk. Brick Red, sandy, micaceous, no structure evident, possibly fill.		Split spoon at 8.5 to 10 ft. Blow count is 15/15/12. Dense.
15	Clay,sandy, micaceous, brick red. As above.		Split spoon 13.5 to 15 feet. BC 9/9/10 soft.
20	Clay,sandy, micaceous, brick red. As above. Cuttings resemble instant coffee powder.		Drills smooth, rapid.
25	Sand, clayey, micaceous, reddish-gray in color, lighter than above interval.	WT	Blow Count = 7/8/9.
30	Sand, grading downward in to partially weathered rock. PWR is amphibolite, white feldspar with black mica and amphibole. Brownish gray to gray.		Surface casing set at 30 feet.
35	Hard saprolite to PWR. White xstaline feldspars with contorted layers of mica and amphibole. TD is 35 feet below floor.		Split spoon sample 33.5 to 35 feet below floor level. Blow count is 10-12-11. Screen set 33 to 35 feet below floor level.

Log of Boring TW²

Project Name: Bon L, Newnan Vertical			Date: 9/27/10		Sheet 1	Of	1
Boring ID:	MW90D	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?	Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	27.5 Ft		Casing Material PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:	9/20/10	
Logged by:	Burton Dixon				Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Grass, top soil, approx. 6-inches. Residuum. Silt-sandy, micaceous, rock fragments,Firm, red-black		Split spoon at 3.5 to 5 ft. Blow count = 4-4-4. No PID reading, no solvent odor.
10	(same as above), very stiff	WT, ▼	Split spoon at 8.5 to 10 ft. Blow count = 5-7-13. 24 hours after drilling, water table at 6.8 Ft.
15	(same as above), hard, white-black		Split spoon at 13.5 to 15 ft. Blow count = 14-21-15.
20	(same as above), very stiff		Split Spoon 18.5 to 20, Blow Count = 12-13-8. Wet soil at about 19 feet at time of drilling.
25	Partially Weathered Rock (PWR), described as: Sand, rock fragments, slit, micaceous, white-black.		Split Spoon 23.5 to 25, Blow Count = 50/4-inches.
30	Augar refusal @ 27.5 Ft.		
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Log of Boring TW²

Project Name: Bon L, Newnan Vertical			Date: 9/27/10		Sheet 1	Of	1
Boring ID:	MW91D	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?	Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	36 Ft		Casing Material PVC	Casing Size	2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:	9/20/10	
Logged by:	Burton Dixon				Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Grass, top soil, approx. 6-inches. Residuum. Silt-some sand,Stiff, red		Split spoon at 3.5 to 5 ft. Blow count = 4-5-7. No PID reading, no solvent odor.
10	Silt-sandy, micaceous, rock fragments, Stiff, white-black.		Split spoon at 8.5 to 10 ft. Blow count = 4-7-8.
15	(same as above)	WT, ▼	Split spoon at 13.5 to 15 ft. Blow count = 7-7-8. 24 hours after drilling, water table at 14.55 Ft.
20	(same as above), very stiff		Split Spoon 18.5 to 20, Blow Count = 8-11-12.
25	(same as above), very stiff		Split Spoon 23.5 to 25, Blow Count = 5-18-22. Wet soil at about 26 feet at time of boring.
30	(same as above), hard		Split Spoon 28.5 to 30, Blow Count = 7-12-23.
35	(same as above), hard		Split Spoon 33.5 to 35, Blow Count = 7-20-23.
40	Augar refusal @ 36 Ft.		
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Log of Boring TW²

Project Name: Bon L, Newnan Vertical			Date: 9/27/10		Sheet	1	Of 1
Boring ID:	MW92D	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?	Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	42 Ft		Casing Material	PVC	Casing Size 2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:	9/21/10	
Logged by:	Burton Dixon				Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Top soil, approx. 6-inches. Residuum. Silt-sandy, micaceous, very stiff, white-red.		Split spoon at 3.5 to 5 ft. Blow count = 8-12-12.
10	(same as above)		Split spoon at 8.5 to 10 ft. Blow count = 9-10-11.
15	(same as above)		Split spoon at 13.5 to 15 ft. Blow count = 12-10-11.
20	Silt-Stiff, orange-yellow		Split Spoon 18.5 to 20, Blow Count = 12-6-8.
25	(same as above)		Split Spoon 23.5 to 25, Blow Count = 9-6-7.
30	Silt-micaceous, rock fragments, stiff, black-orange.		Split Spoon 28.5 to 30, Blow Count = 4-5-6.
35	(same as above), hard, white-black.		Split Spoon 33.5 to 35, Blow Count = 9-14-25.
40	Partially Weathered Rock (PWR), described as: Sand, some mica, rock fragments, slit, white-black.		Split Spoon 38.5 to 40, Blow Count = 50/4-inches.
45	Augar refusal @ 42 Ft.		Boring was dry at time of drilling.
50			

Log of Boring TW²

Project Name: Bon L, Newnan Vertical			Date: 9/27/10		Sheet	1	Of 1
Boring ID:	MW93D	Type of Boring:	HSA/Pneumatic Hammer		Was boring converted to a well?	Yes	
Equipment:	HSA/Pneumatic Hammer	Depth of Boring	35.5 Ft		Casing Material	PVC	Casing Size 2-Inch
Driller:	Piedmont Env. Drilling	Boring Diameter	10-Inch		Boring Completed:	9/21/10	
Logged by:	Burton Dixon				Surface Elev'n.		

Depth (feet)	Geologic Description	Lithology	Comments
5	Top soil, approx. 6-inches. Residuum. Silt-sandy, micaceous, rock fragments, very stiff, red.		Split spoon at 3.5 to 5 ft. Blow count = 23-13-13.
10	(same as above), black-white.		Split spoon at 8.5 to 10 ft. Blow count = 10-13-12.
15	Silt-sandy, micaceous, rock fragments, stiff, white.		Split spoon at 13.5 to 15 ft. Blow count = 6-7-6.
20	(same as above), firm	WT, ▼	Split Spoon 18.5 to 20, Blow Count = 4-4-4. 24 hours after drilling, water table at 20.55 Ft.
25	(same as above), soft, white-black.		Split Spoon 23.5 to 25, Blow Count = 2-2-1. Wet soil at about 24 feet at time of boring.
30	Partially Weathered Rock (PWR), described as: Sand, silty, micaceuos, rock fragments, black-white.		Split Spoon 28.5 to 30, Blow Count = 11-31-50/5-inches.
35	Partially Weathered Rock (PWR), described as: Sand, silty, micaceuos, rock fragments, black-white.		Split Spoon 33.5 to 35, Blow Count = 29-50/5-inches.
40	Augar refusal @ 35.5 Ft.		
45			
50			

Log of Boring TW²

Project Name: Bon L, Newnan Vertical			Date:	12/28/11		Sheet	1	Of 1
Boring ID:	RW14D	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?		Yes
Equipment:	CME55, HSA/Pneumatic Hammer	Depth of Boring	45 Feet			Casing Material	PVC	Casing Size: 4-inch
Driller:	Kilman Brothers	Boring Diameter		10-Inch		Boring Completed:		9/21/10
Logged by:	TWWatson					Surface Elev'n.		931+/-

Depth (feet)	Geologic Description	Lithology	Comments
5	Fill. Reddish-brown to reddish gray silty sand. Some clay.		Driller did not bring sampling rods. All samples collected off augers.
10	As above.		
15	As above. Probably still in fill.		
20	As above. Probably still in fill.	WT, ▼	Water Level 19.97 below top of casing January10, 2012
25	As above.		
30	Silt and sand, some clay. Reddish-gray in color. Slightly denser.		Probably out of fill into saprolite with vein quartz.
35	Partially Weathered Rock (PWR), described as: Sand, silty, micaceuos, rock fragments, black-white. Very hard. Switched to air hammer.		Air hammer penetrates quartz vein about 1 foot thick. Then back into residuum
40	Saprolite. Silt and sand, minor clay.		
45	At 45 feet below land surface, encounter hard layer. Top of bedrock. Auger refusal		Boring terminated. Installed screen and casing.

Log of Boring TW²

Project Name: Bon L, Newnan			Date:	12/29/11		Sheet	1	Of 1
Boring ID:	RW15D	Type of Boring:	HSA/Pneumatic Hammer			Was boring converted to a well?	Yes	
Equipment:	CME55, HSA/Pneumatic Hammer	Depth of Boring	45 Feet			Casing Material: PVC	Casing Size	4-inch
Driller:	Kilman Brothers	Boring Diameter	10-Inch			Boring Completed:	9/21/10	
Logged by:	TWWatson					Surface Elev'n.	931+/-	

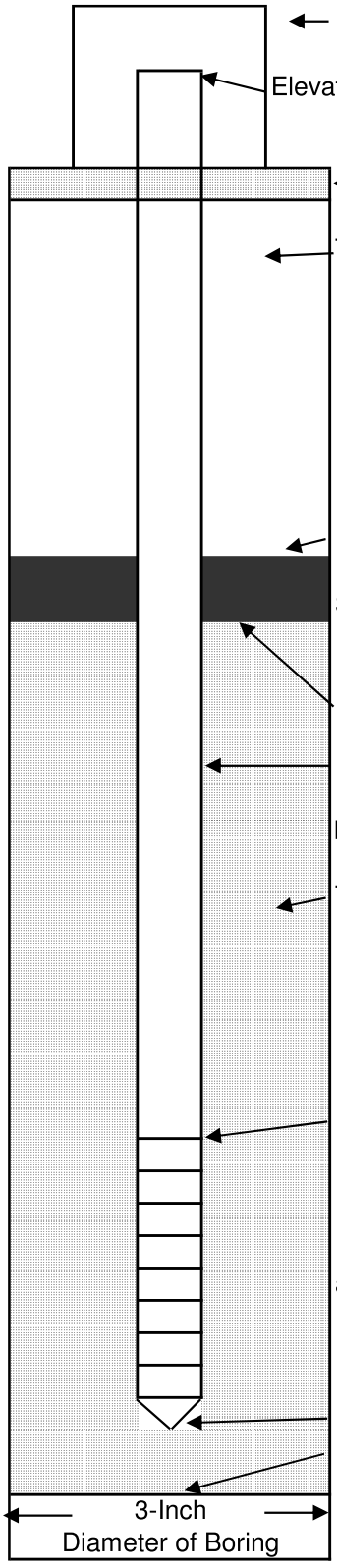
Depth (feet)	Geologic Description	Lithology	Comments
5	Fill. Reddish-brown to reddish gray silty sand. Some clay.		BC = 2/3/9 in gravel fill.
10	Fill. Reddish-brown to reddish gray silty sand. Some clay.		BC = 1/2/2 Very soft and wet.
15	As above. Probably still in fill.		
20	As above. Probably still in fill.	WT, ▼	Water Level 19.80 below top of casing January 10, 2012
25	As above.		
30	Silt and sand, some clay. Reddish-gray in color. Slightly denser.		Probably out of fill into saprolite with vein quartz.
35	Partially Weathered Rock (PWR), described as: Sand, silty, micaceuos, rock fragments, black-white. Very hard. Switched to air hammer.		Air hammer penetrates quartz vein about 1 foot thick. Then back into residuum
40	Saprolite. Silt and sand, minor clay.		
45	Saprolite. Silt and sand, minor clay.		
50	At 45 feet below land surface, encounter hard layer. Auger continues to penetrate, but slowly.		Boring terminated. Installed screen and casing.

TW2

Well ID	MW55

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L, Pilot Test	Project #	Remediation
Location:	Newnan, GA	Task #	Pilot Test
Installed By:	ESN, Southeast	Date Installed:	09/06/06
Inspected By:	Tom Watson	Remarks:	DPT may not be
Method of Installation:	Drive Point	adequate for this site.	



Not to Scale

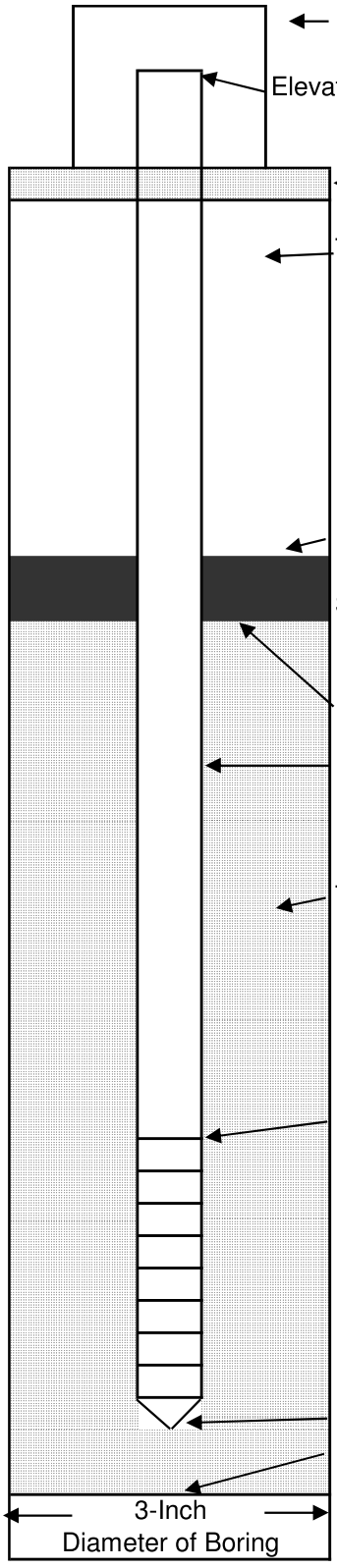
Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	924.08
Concrete Pad	
Type of Backfill	Concrete grout
Depth to Top of Seal	28 Ft.
Seal Type	Bentonite Chips
Depth to Top of Filter Pack	30 Ft.
Riser Pipe Length	32.4 Ft.
I. D. / Type of Riser Pipe	1-inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	42.38 Ft.
I. D./Type of screen, and screen slot size	1-inch, 10-slot PVC
Depth of Screen Bottom	42.38 Ft.
Depth of Boring	42.4 Ft.

TW2

Well ID	MW56

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Remediation
Location:	Newnan, GA	Task #	
Installed By:	ESN Southeast	Date Installed:	09/06/06
Inspected By:	Tom Watson	Remarks:	Very difficult using
Method of Installation:	Drive Point	DPT in this environment.	



Not to Scale

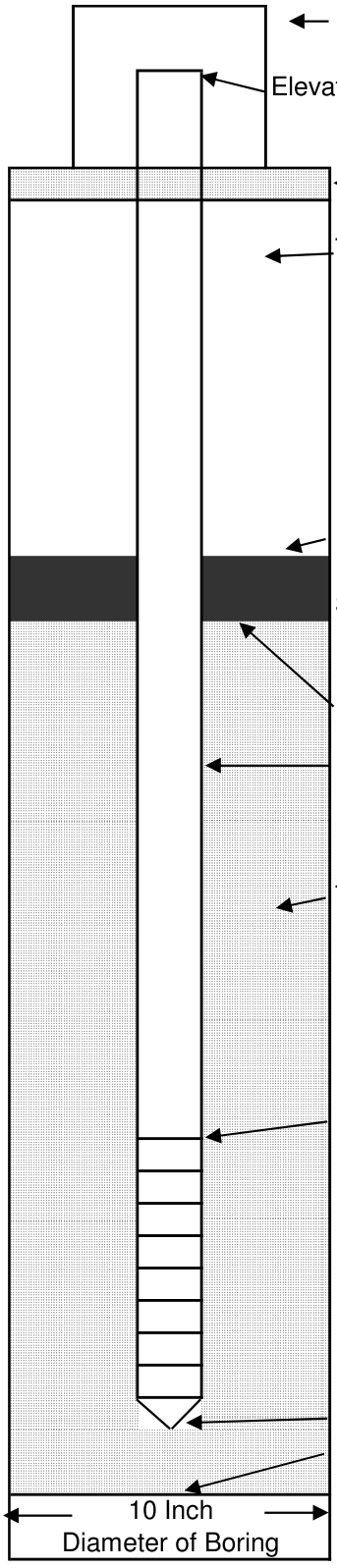
Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	925.49 Ft.
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	29 Ft.
Seal Type	Bentonite Chips
Depth to Top of Filter Pack	31 Ft.
Riser Pipe Length	33 ft.
I.D./Type of Riser Pipe	1-inch, 10-slot PVC
Type of Filter Pack	Washed Quartz Sand
I.D./Type of Screen and Screen Slot Size	1-inch, 10-Slot PVC
Depth to Top of Screen	33 Ft.
Depth of Screen Bottom	43.05 Ft.
Depth of Boring	44 Ft.

TW2

Well ID	MW57

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L, Pilot Test	Project #	Pilot Test
Location:	Newnan	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/18/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Not to Scale

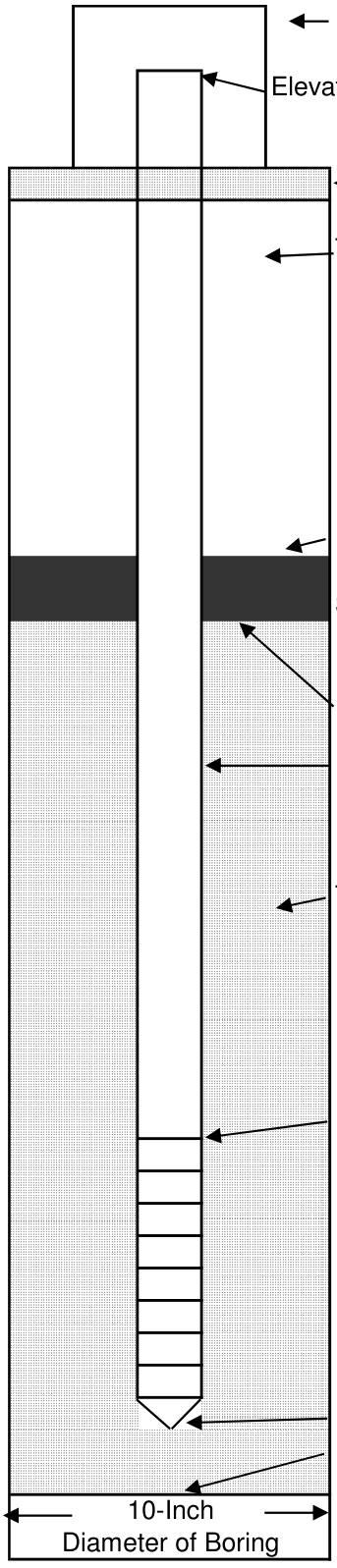
Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	926.13 Ft.
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	34 Ft.
Seal Type	Bentonite Chips
Depth to Top of Filter Pack	37 Ft.
Riser Pipe Length	39 Ft.
I.D./Type of Riser Pipe	2-Inch PVC
Type of Filter Pack	Washed Quartz Sand
I.D./Type of Screen and Screen Slot Size	2-Inch, 10-Slot PVC
Depth to Top of Screen	38.5 Ft.
Depth of Screen Bottom	48.5 Ft.
Depth of Boring	49 Ft.

TW2

Well ID	MW58

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L, Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/18/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	926.99
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	33 Ft.
Seal Type	Bentonite Chip
Depth to Top of Filter Pack	35 Ft.
Riser Pipe Length	38 Ft.
I.D./Type of Riser Pipe	2-Inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	38 Ft.
I.D./Type of Screen and Screen Slot Size	2-Inch, 10-Slot PVC
Depth of Screen Bottom	48 Ft.
Depth of Boring	49 Ft.

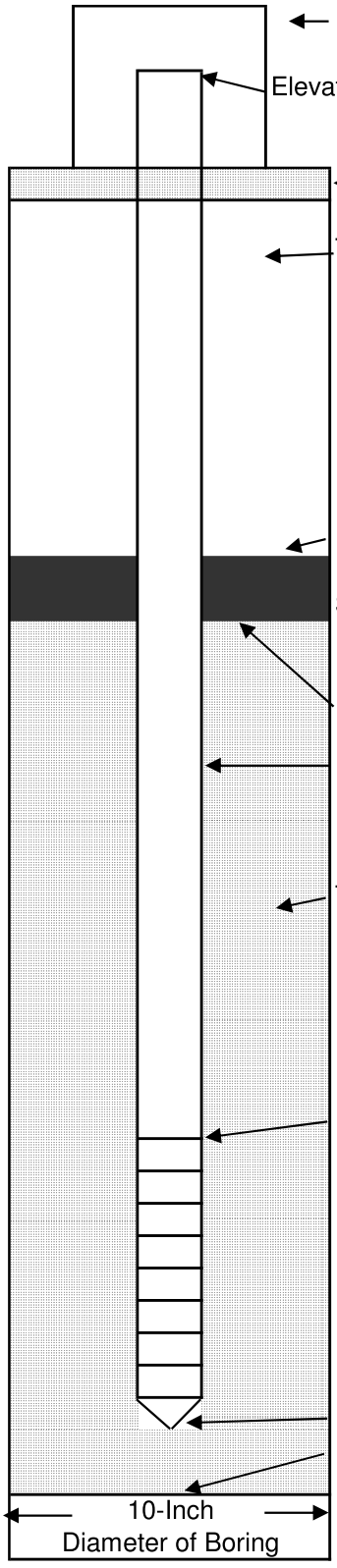
Not to Scale

TW2

Well ID	MW59

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L, Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/18/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Locking Steel Protective Riser

Elevation, Top of Riser Pipe: 927.75

Concrete Pad

Type of Backfill: Concrete Grout

Depth to Top of Seal: 33 Ft.

Seal Type: Bentonite Chips

Depth to Top of Filter Pack: 36 Ft.

Riser Pipe Length: 39 Ft.

I.D./Type of Riser Pipe: 2-Inch PVC

Type of Filter Pack: Washed Filter Sand

Depth to Top of Screen: 39 Ft.

I.D./Type of Screen and Screen Slot Size: 2-Inch, 10-Slot PVC

Depth of Screen Bottom: 49.2 Ft.

Depth of Boring: 50 Ft.

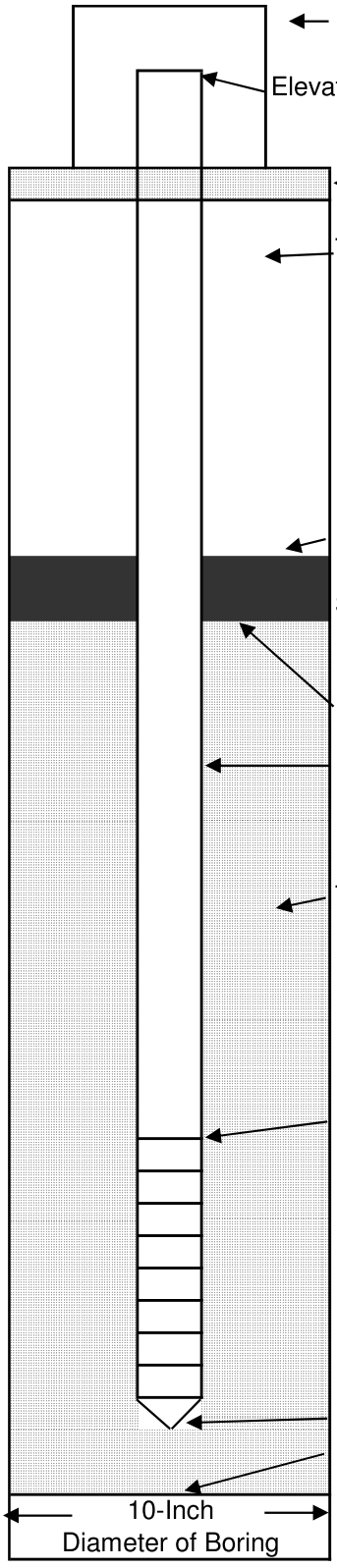
Not to Scale

TW2

Well ID	MW60

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/19/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Locking Steel Protective Riser

Elevation, Top of Riser Pipe: 926.23

Concrete Pad

Type of Backfill: Concrete Grout

Depth to Top of Seal: 27 Ft.

Seal Type: Bentonite Chips

Depth to Top of Filter Pack: 30 Ft.

Riser Pipe Length: 33 Ft.

I.D./Type of Riser Pipe: 2-Inch PVC

Type of Filter Pack: Washed Quartz Sand

Depth to Top of Screen: 33.9 Ft.

I.D./Type of Screen and Screen Slot Size: 2-Inch, 10-Slot PVC

Depth of Screen Bottom: 43.9 Ft.

Depth of Boring: 45 Ft.

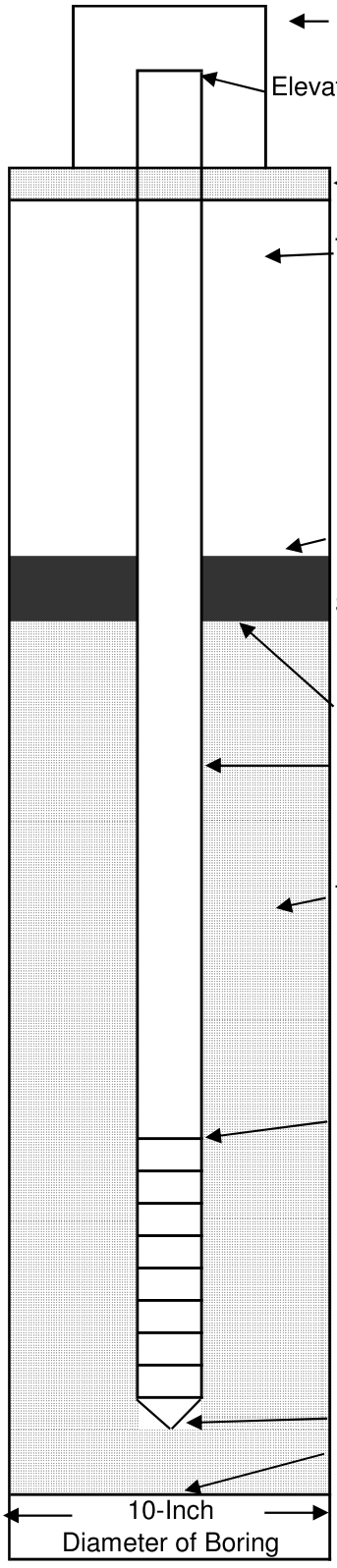
Not to Scale

TW2

Well ID	MW61

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/19/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-stem auger/Downhole Hammer		



Not to Scale

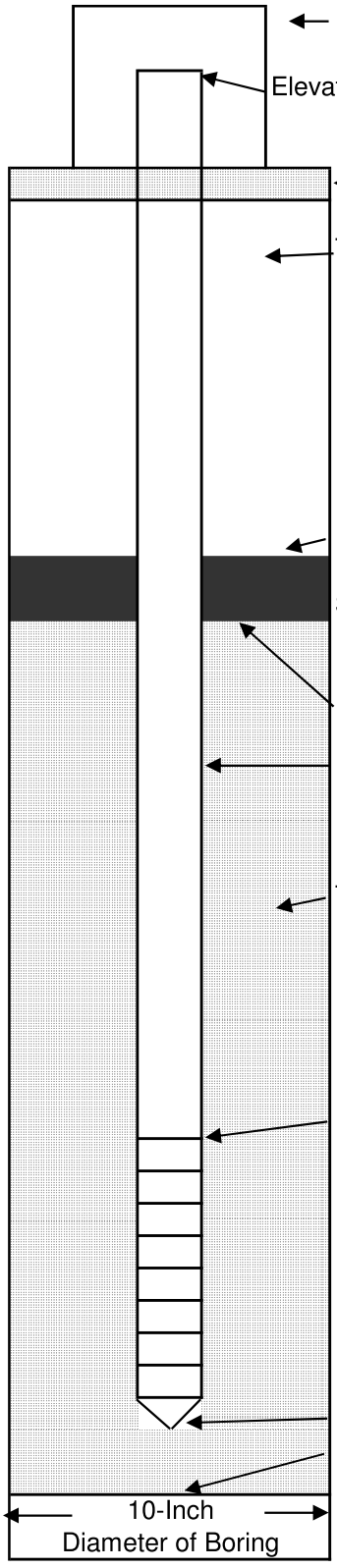
Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	926.15
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	27.0 Ft.
Seal Type	Bentonite Chips
Depth to Top of Filter Pack	31.0 Ft.
Riser Pipe Length	33.0 Ft.
I.D./Type of Riser Pipe	2-inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	33.0 Ft.
I.D./Type of Screen and Screen Slot Size	2-inch, 10-Slot PVC
Depth of Screen Bottom	43 Ft.
Depth of Boring	45 Ft.

TW2

Well ID	MW62

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/19/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Not to Scale

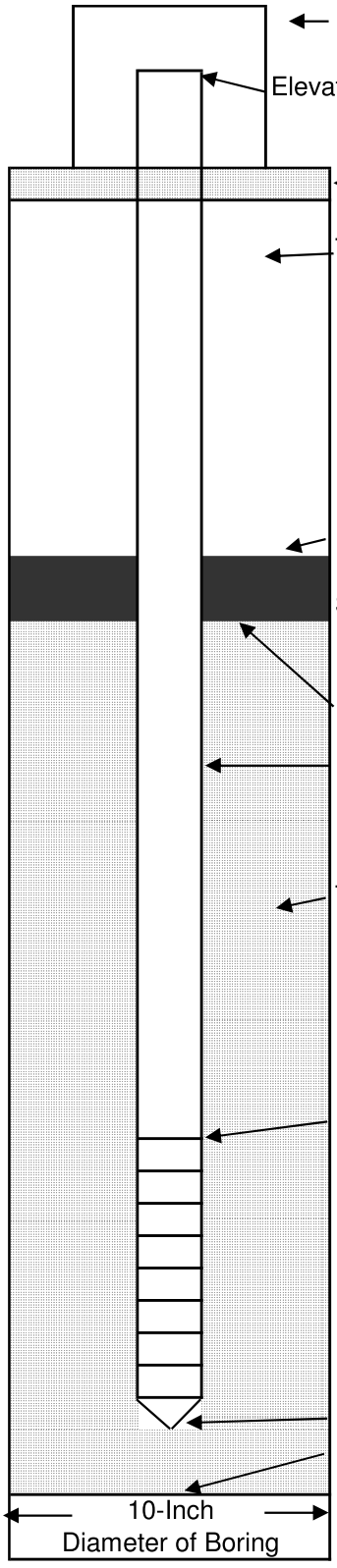
Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	927.35
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	30 Ft.
Seal Type	Bentonite Chips
Depth to Top of Filter Pack	32 Ft.
Riser Pipe Length	34 Ft.
I.D./Type of Riser Pipe	2-Inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	34 Ft.
I.D./Type of Screen and Screen Slot Size	2-Inch 10-Slot PVC
Depth of Screen Bottom	44.07 Ft.
Depth of Boring	46 Ft.

TW2

Well ID	MW63

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/19/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Not to Scale

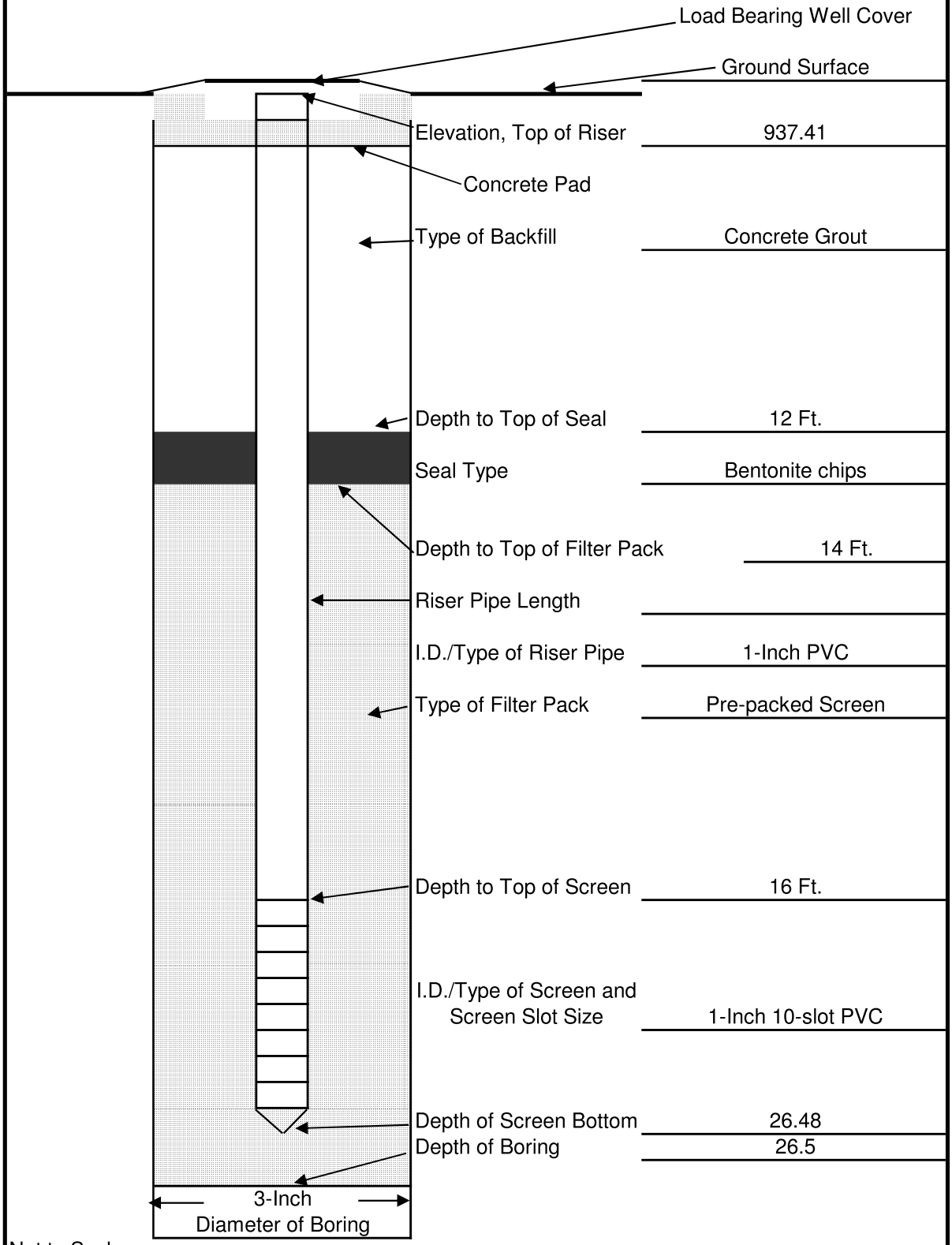
Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	927.87
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	29.0 Ft.
Seal Type	Bentonite Chips
Depth to Top of Filter Pack	31 Ft.
Riser Pipe Length	34 Ft.
I.D./Type of Riser Pipe	2-Inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	34 Ft.
I.D./Type of Screen and Screen Slot Size	2-Inch, 10-slot PVC
Depth of Screen Bottom	44.42 Ft.
Depth of Boring	46 Ft.

TW2

Well ID	MW64

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Parking Lot)	Task #	
Installed By:	ESN, SE	Date Installed:	09/07/06
Inspected By:	Tom Watson	Remarks:	Used DPT Rig to
Method of Installation:	Hollow-Stem Auger		install. Need heavier equipt.



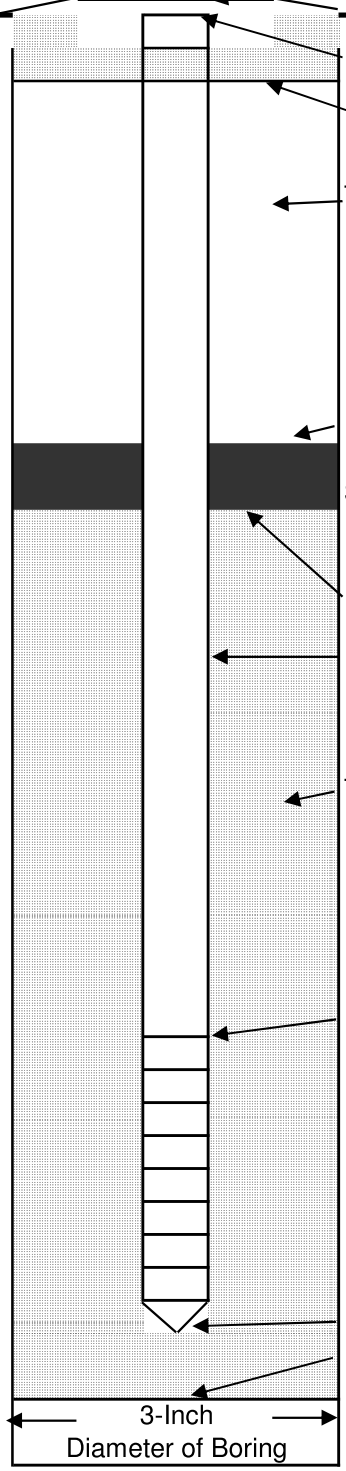
Not to Scale

TW2

Well ID	MW-65

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Parking Lot)	Task #	
Installed By:	ESN, Southeast	Date Installed:	09/07/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



Elevation, Top of Riser	937.11
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	11 Ft.
Seal Type	Bentonite Chips
Depth to Top of Filter Pack	13 Ft.
Riser Pipe Length	15 Ft.
I.D./Type of Riser Pipe	1-Inch PVC
Type of Filter Pack	Pre-Packed Screen
Depth to Top of Screen	15 Ft.
I.D./Type of Screen and Screen Slot Size	1-Inch, 10 Slot PVC
Depth of Screen Bottom	25.52 Ft.
Depth of Boring	26 Ft.

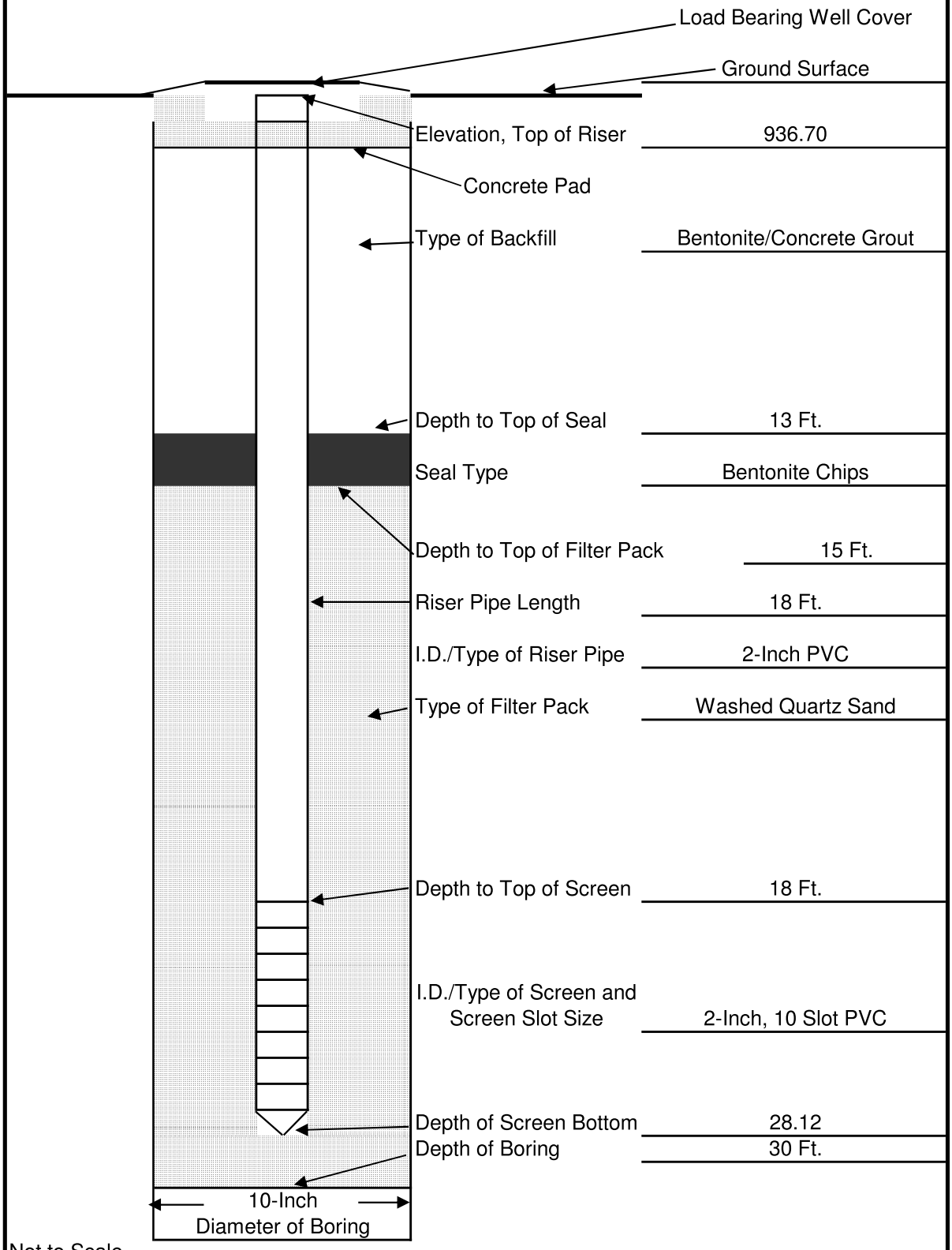
Not to Scale

TW2

Well ID	MW-66

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/20/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



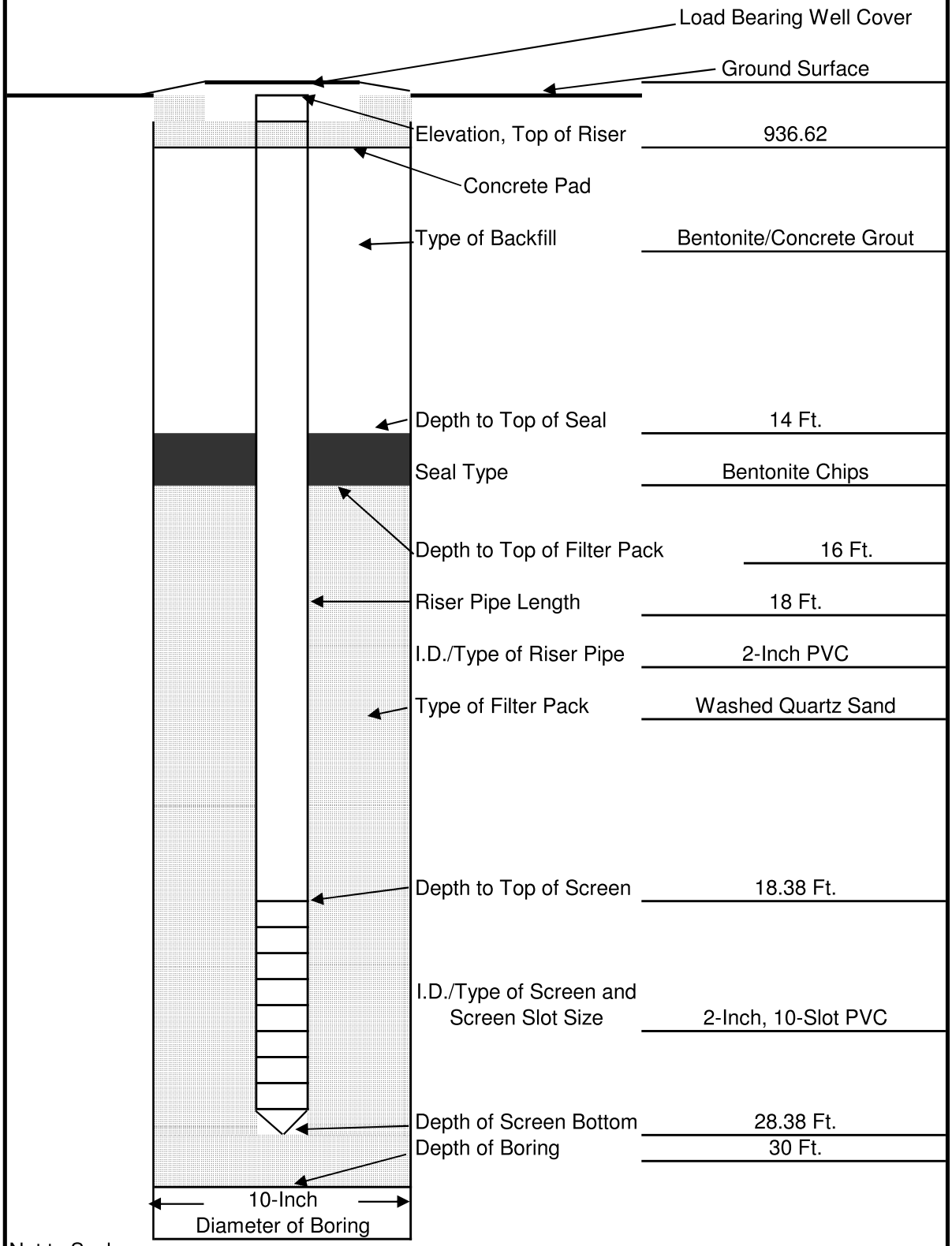
Not to Scale

TW2

Well ID	MW-67

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/20/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



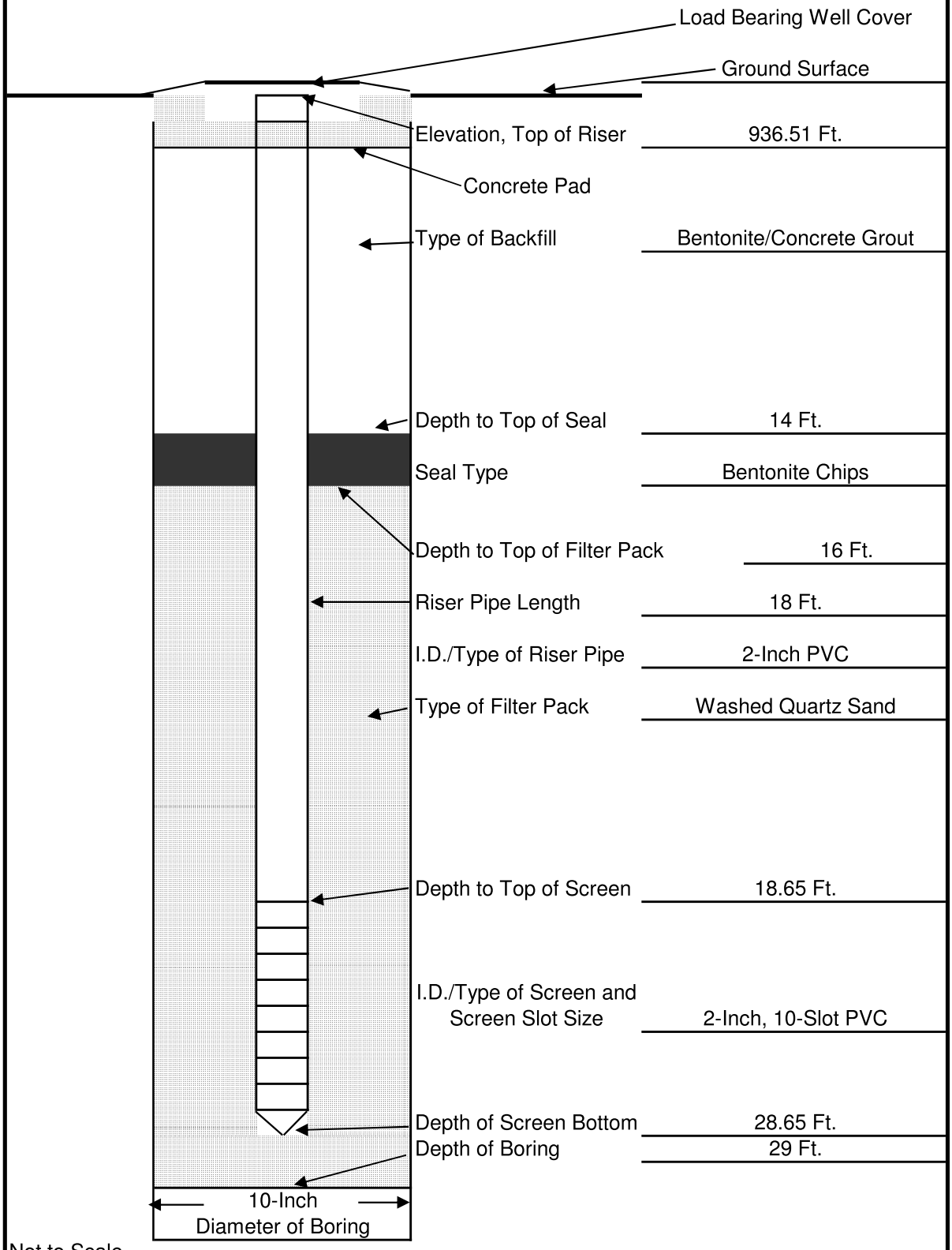
Not to Scale

TW2

Well ID	MW-68

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/20/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



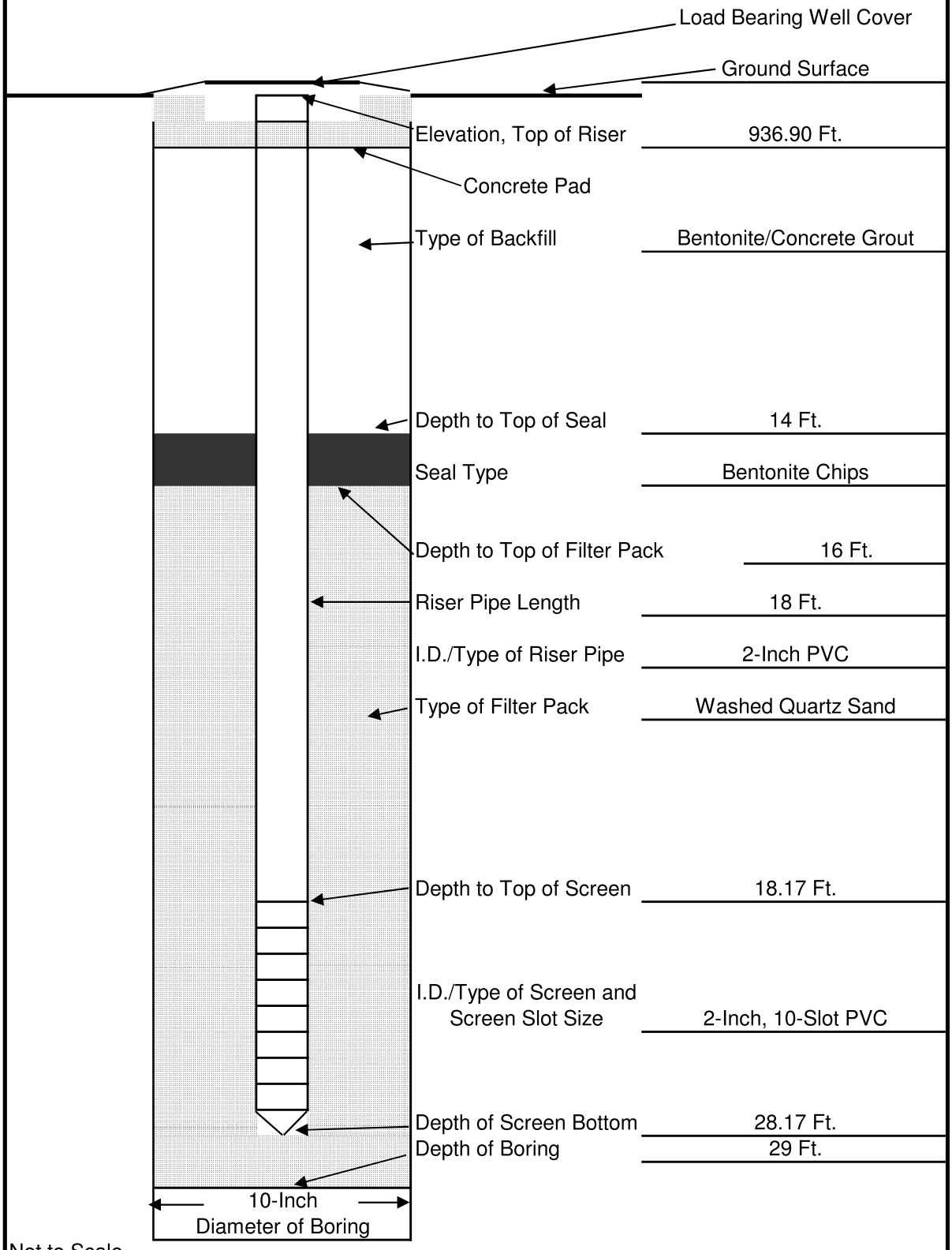
Not to Scale

TW2

Well ID	MW69

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/20/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



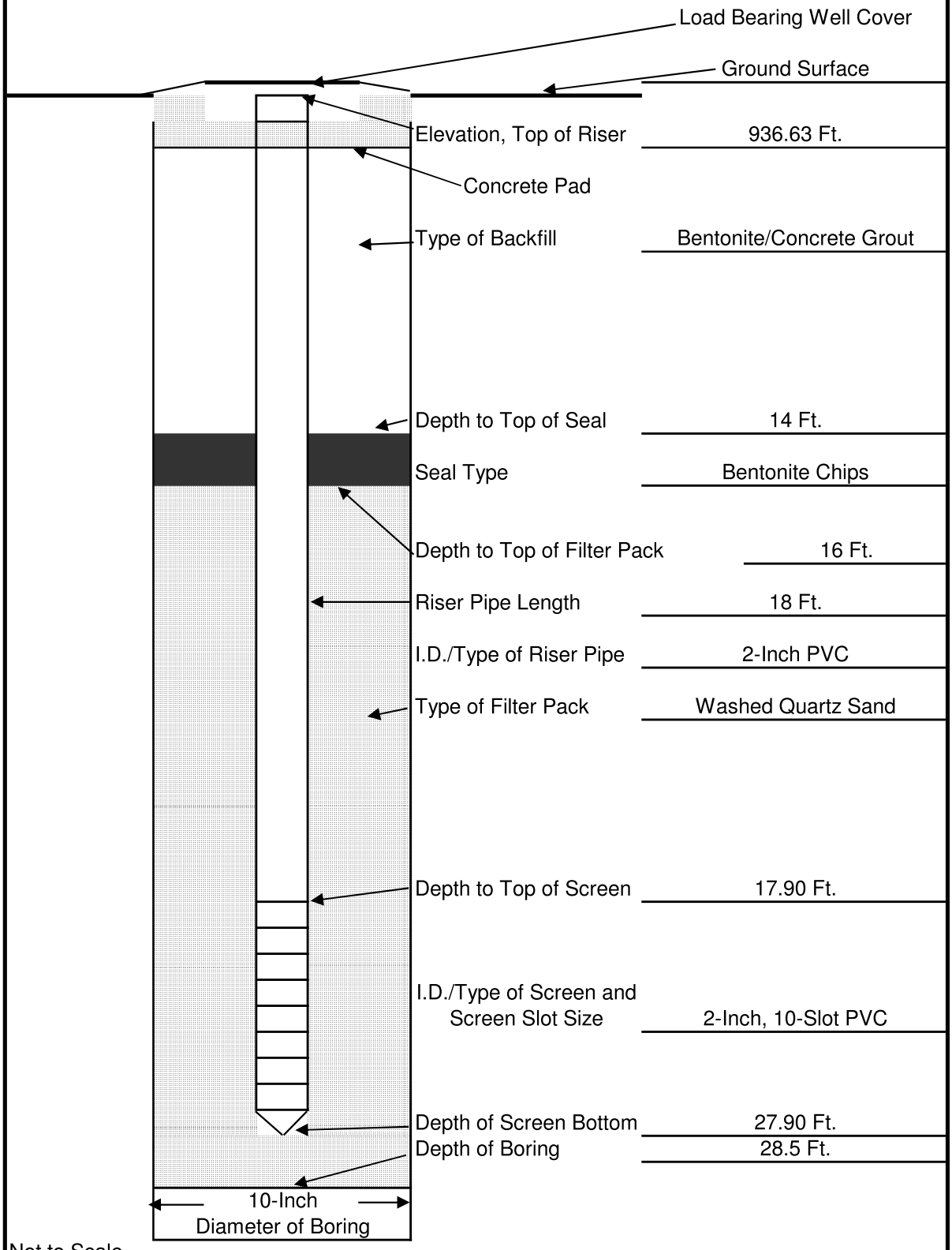
Not to Scale

TW2

Well ID	MW70

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/20/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



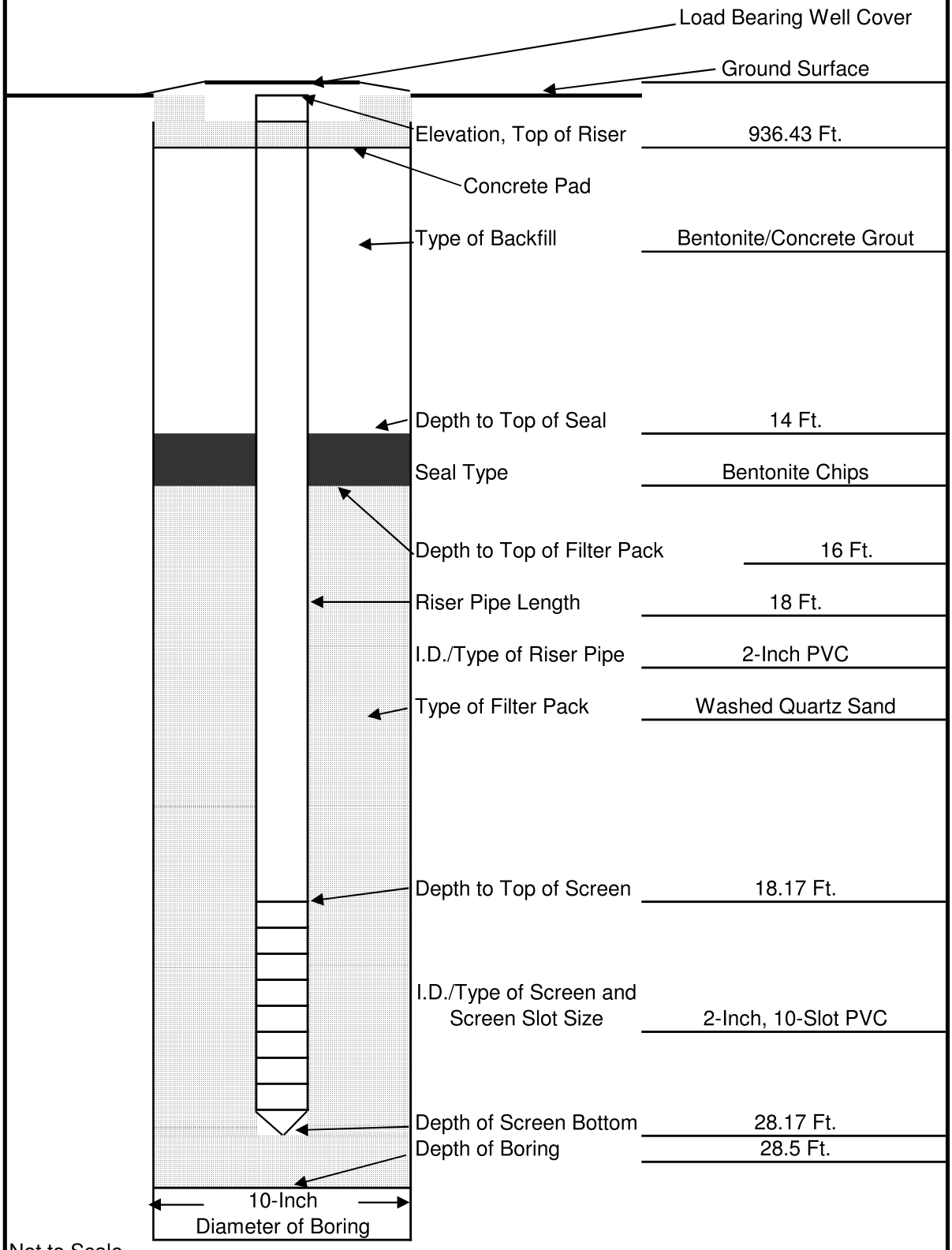
Not to Scale

TW2

Well ID	MW71

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/20/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



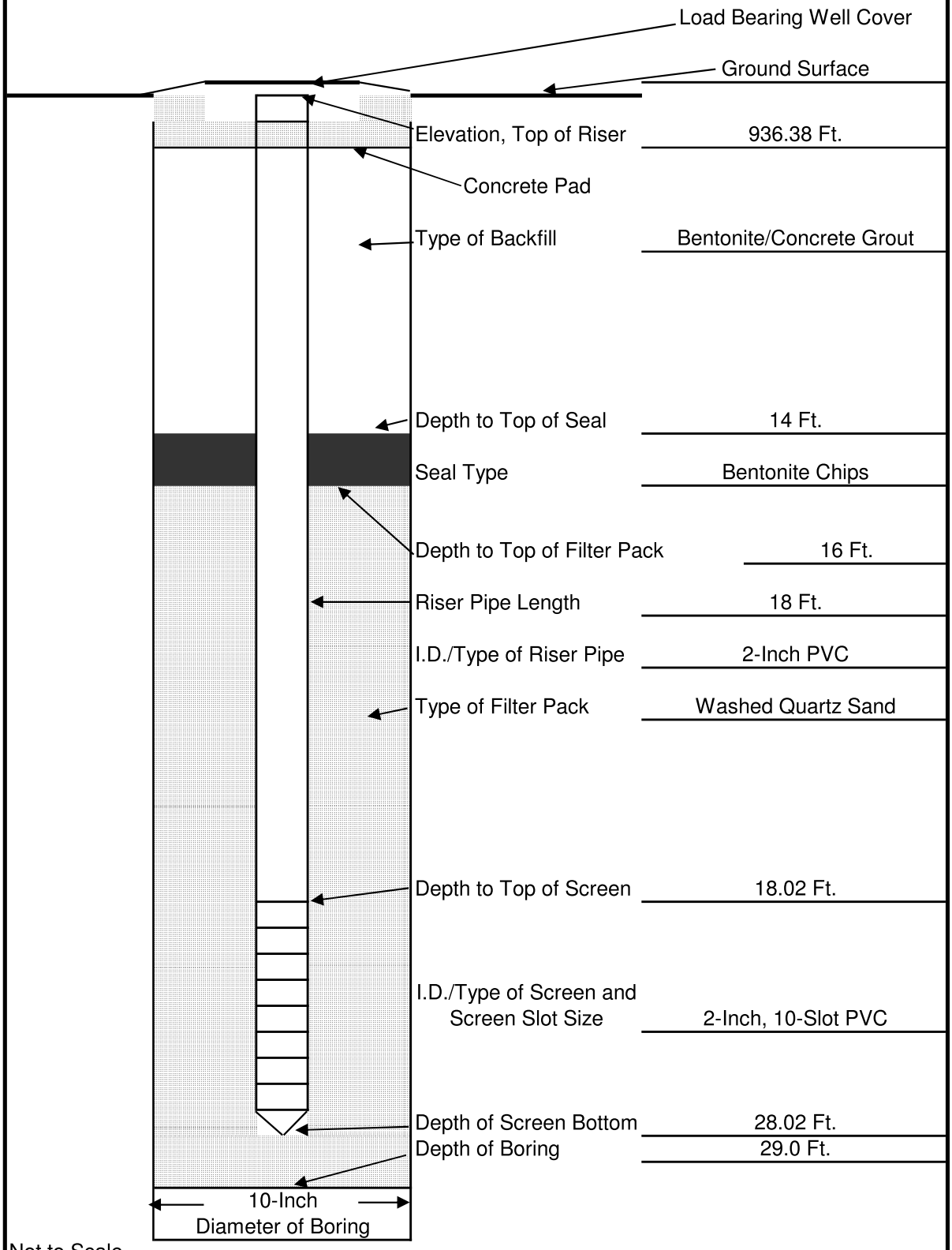
Not to Scale

TW2

Well ID	MW72

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Parking Lot)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/20/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



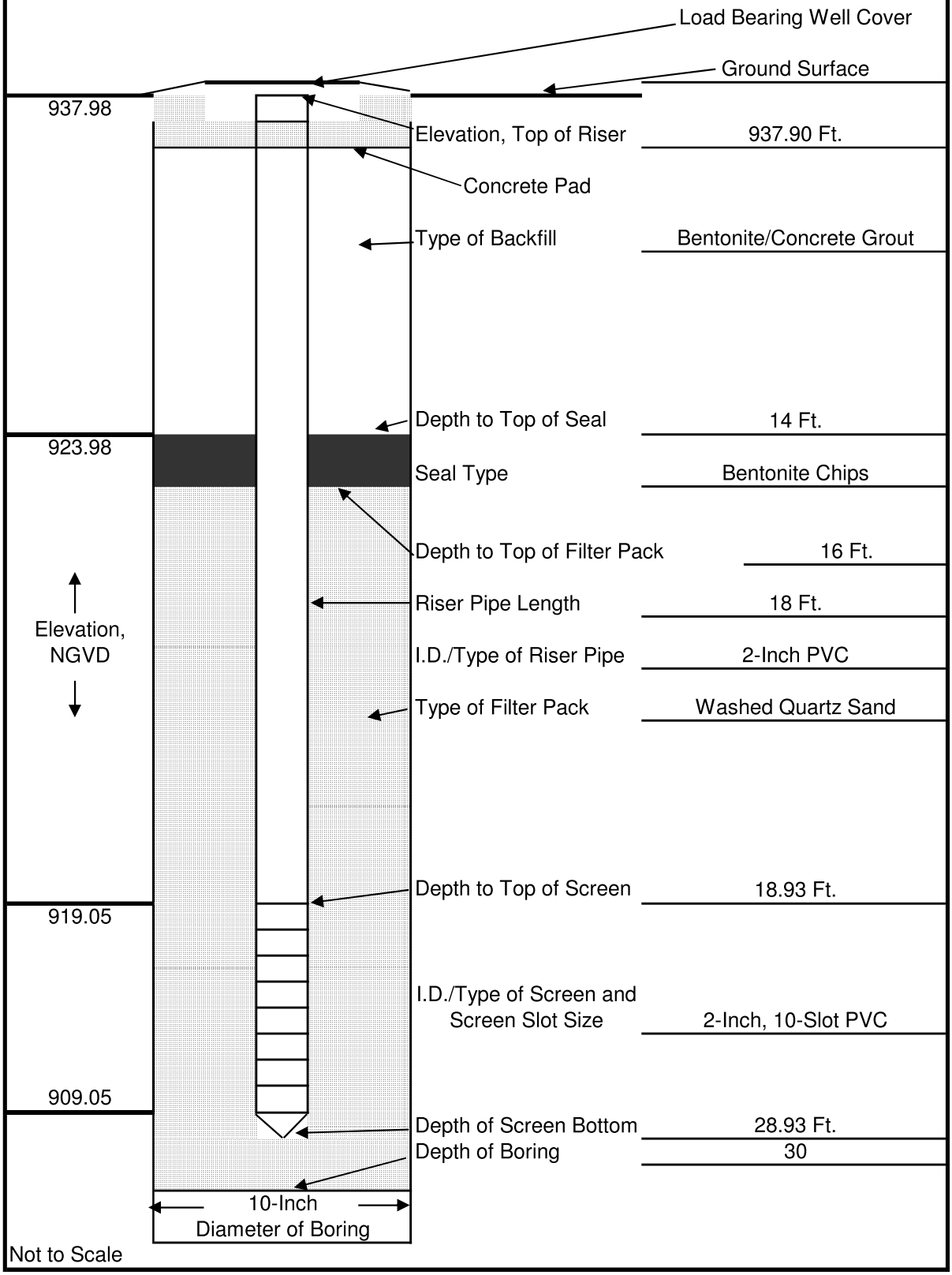
Not to Scale

TW2

Well ID	MW73S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	10/12/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



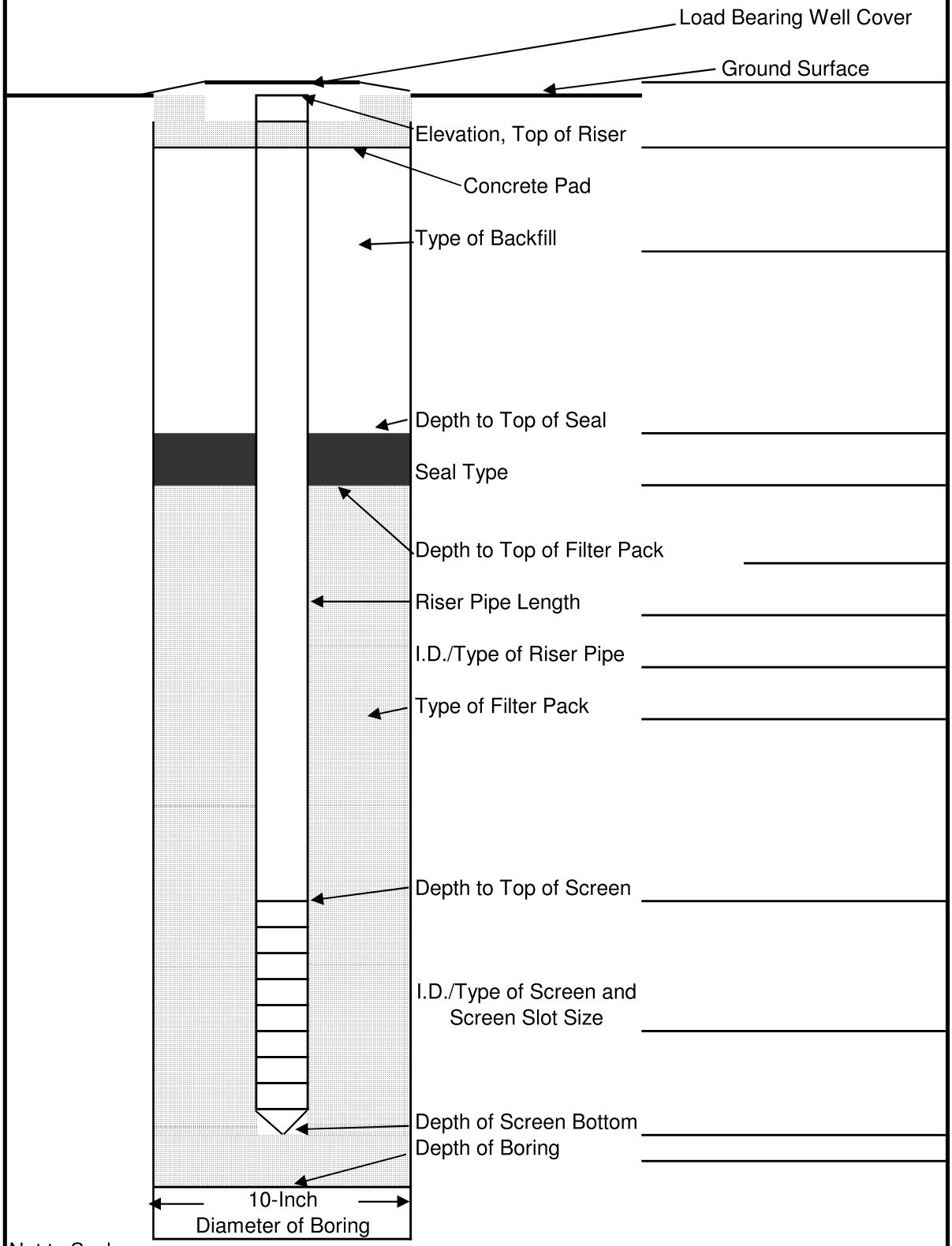
Elevation, Top of Riser	937.90 Ft.
Concrete Pad	
Type of Backfill	Bentonite/Concrete Grout
Depth to Top of Seal	14 Ft.
Seal Type	Bentonite Chips
Depth to Top of Filter Pack	16 Ft.
Riser Pipe Length	18 Ft.
I.D./Type of Riser Pipe	2-Inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	18.93 Ft.
I.D./Type of Screen and Screen Slot Size	2-Inch, 10-Slot PVC
Depth of Screen Bottom	28.93 Ft.
Depth of Boring	30

TW2

Well ID	MW74s

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	10/12/06
Inspected By:	Tom Watson	Remarks:	Broke through drain-
Method of Installation:	Hollow-Stem Auger	pipe. Not completed as a well.	



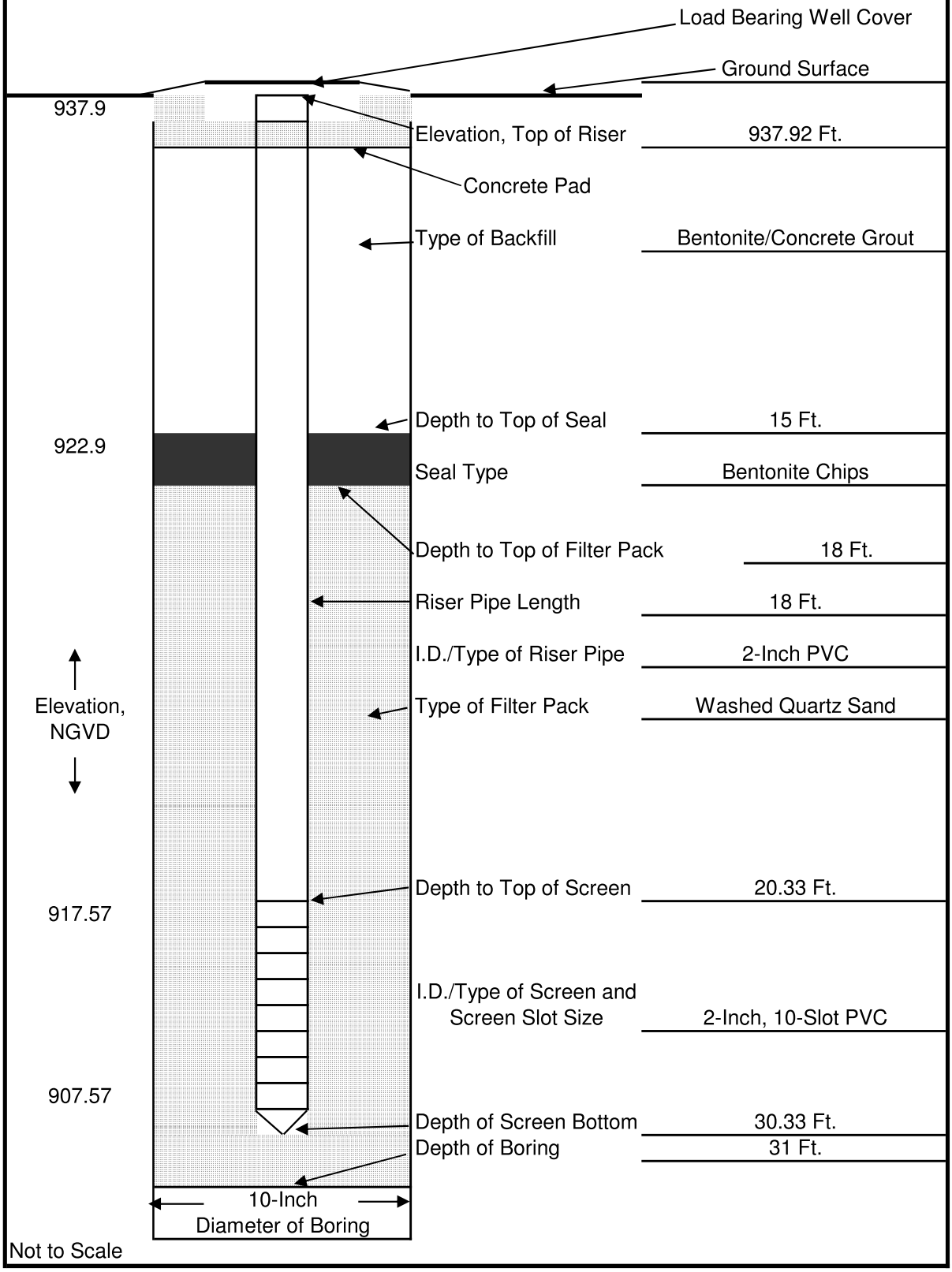
Not to Scale

TW2

Well ID	MW75S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	10/13/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		

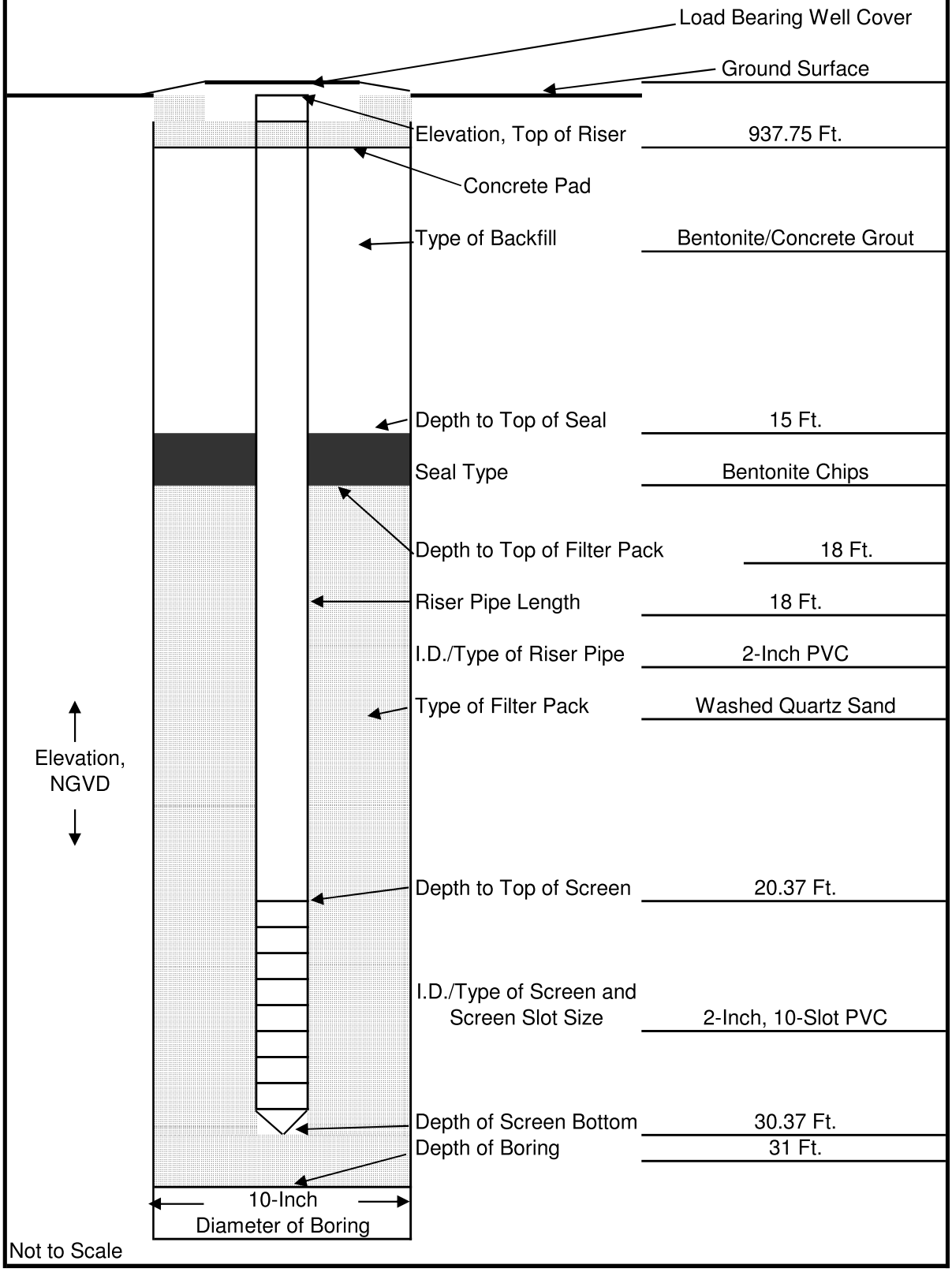


TW2

Well ID	MW76S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	10/13/06
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		

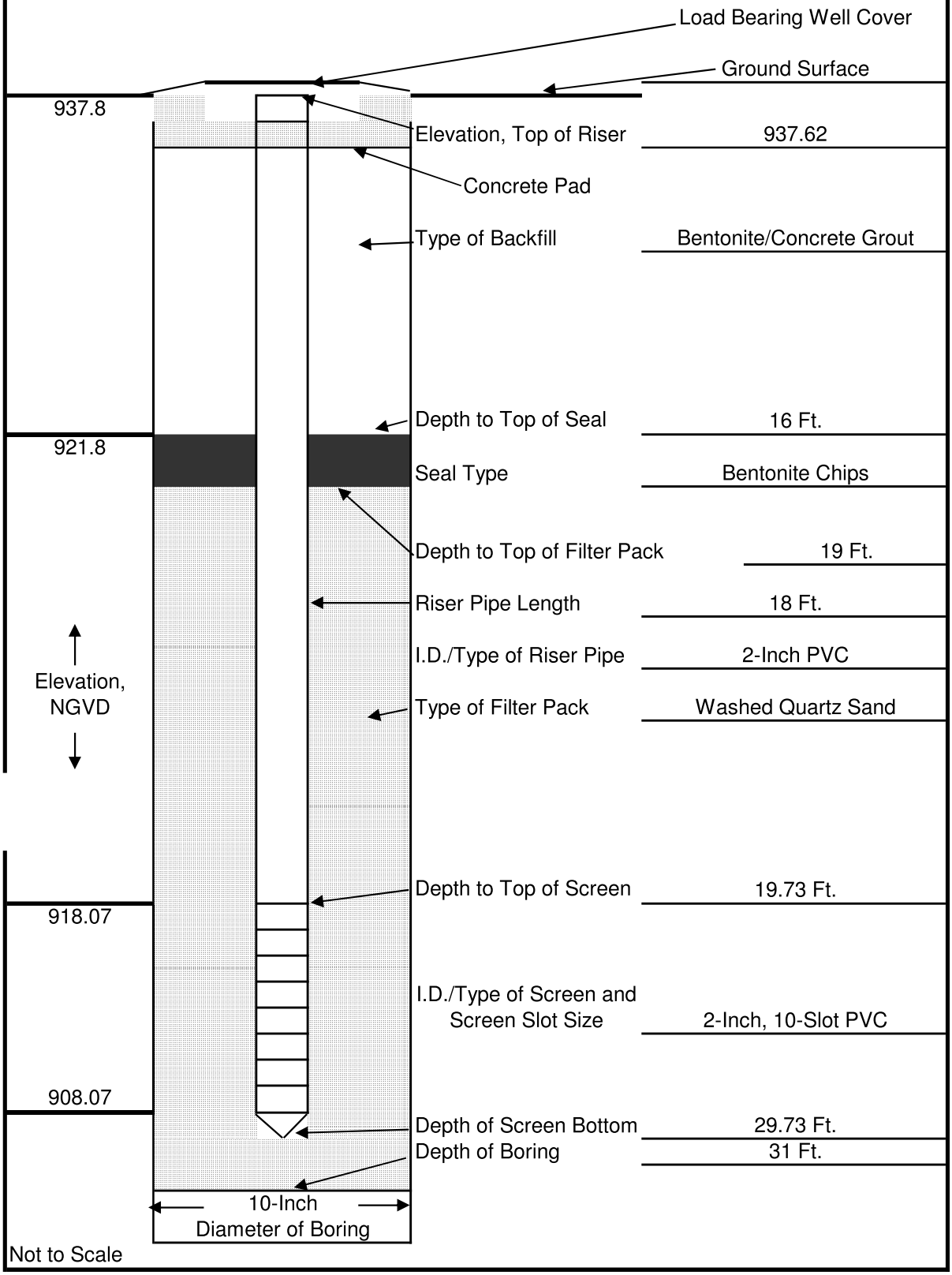


TW2

Well ID	MW77S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	01/16/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		

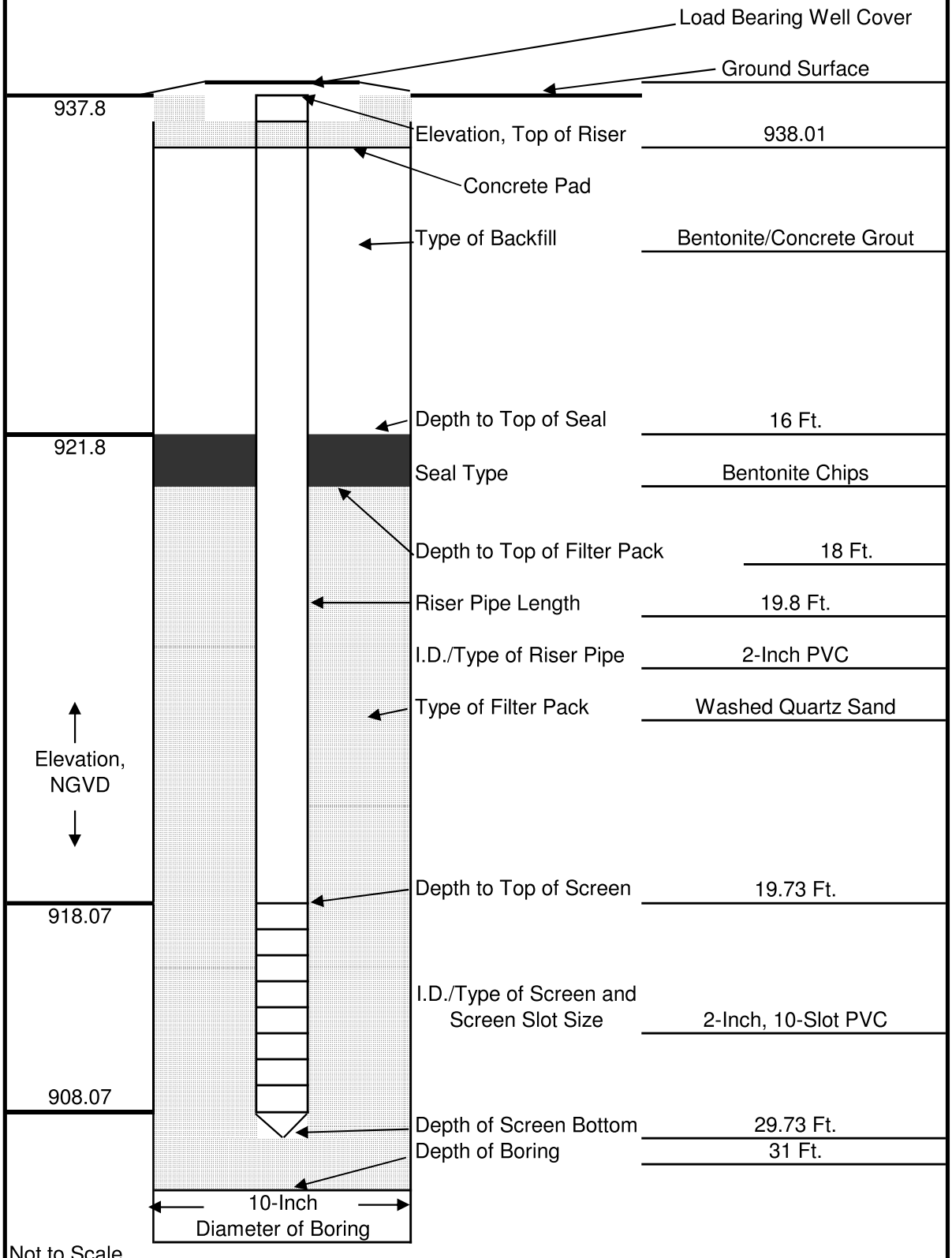


TW2

Well ID	MW78S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	01/16/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		

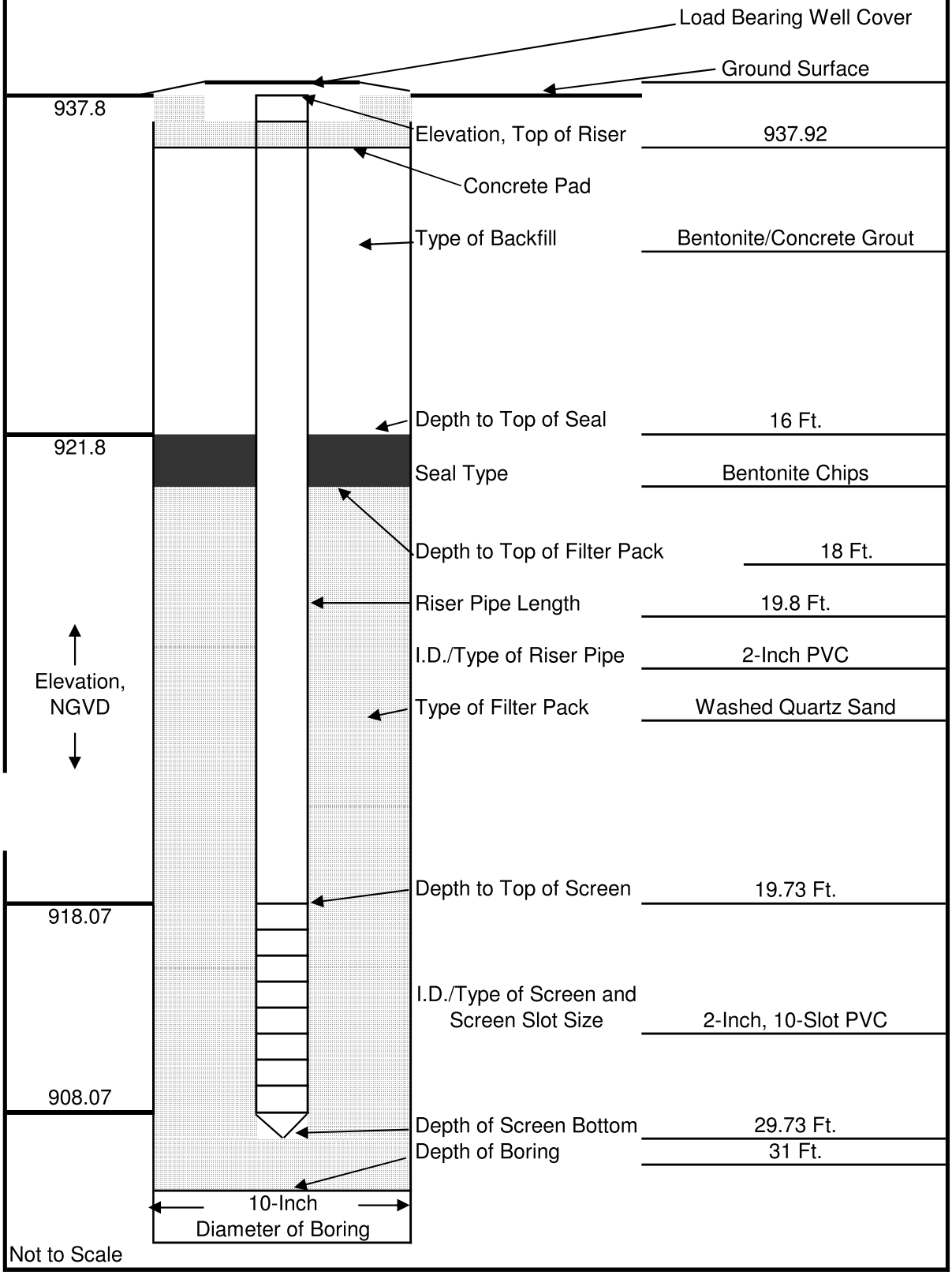


TW2

Well ID	MW79S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	03/05/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		

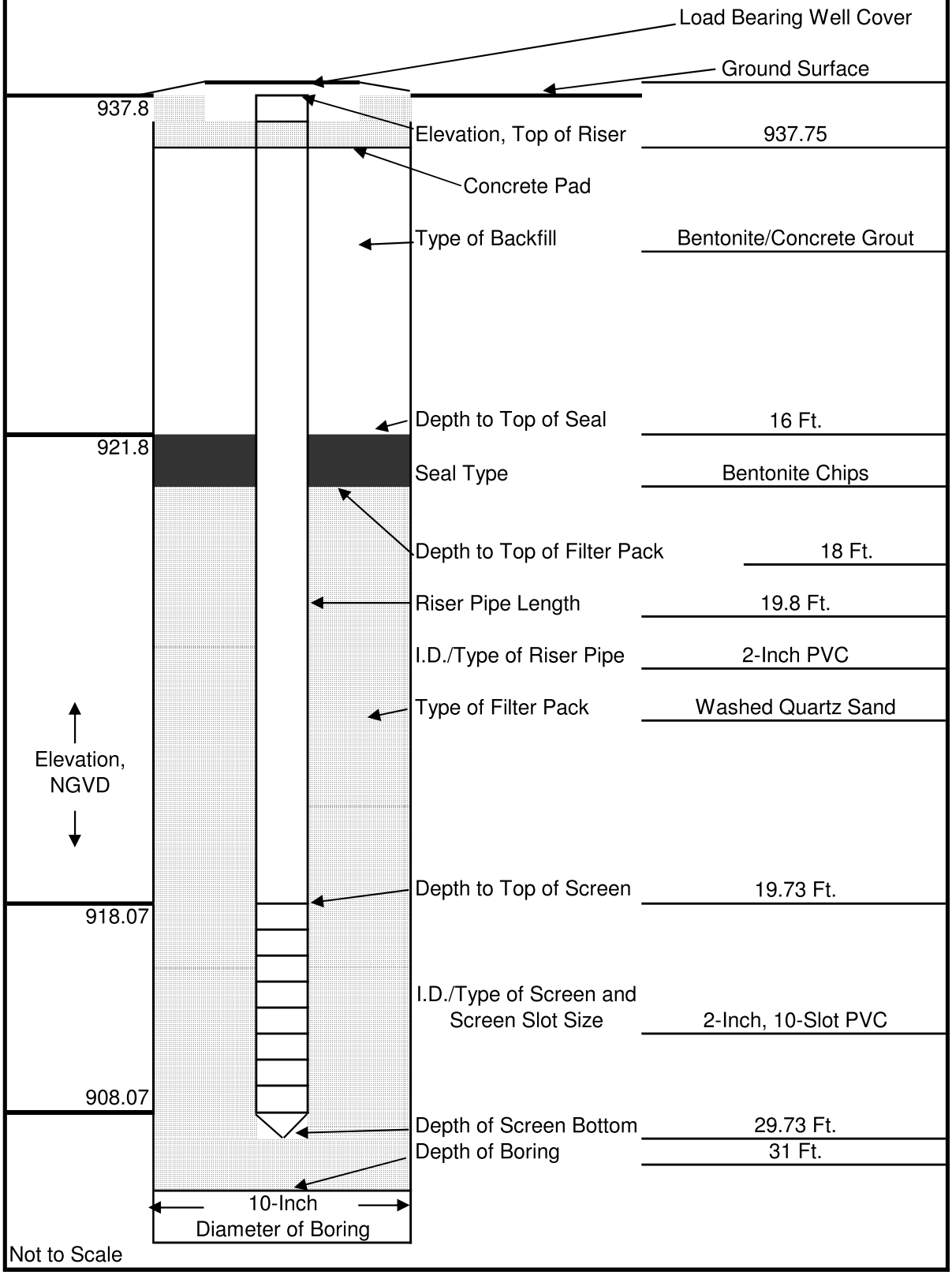


TW2

Well ID	MW80S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	03/06/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		

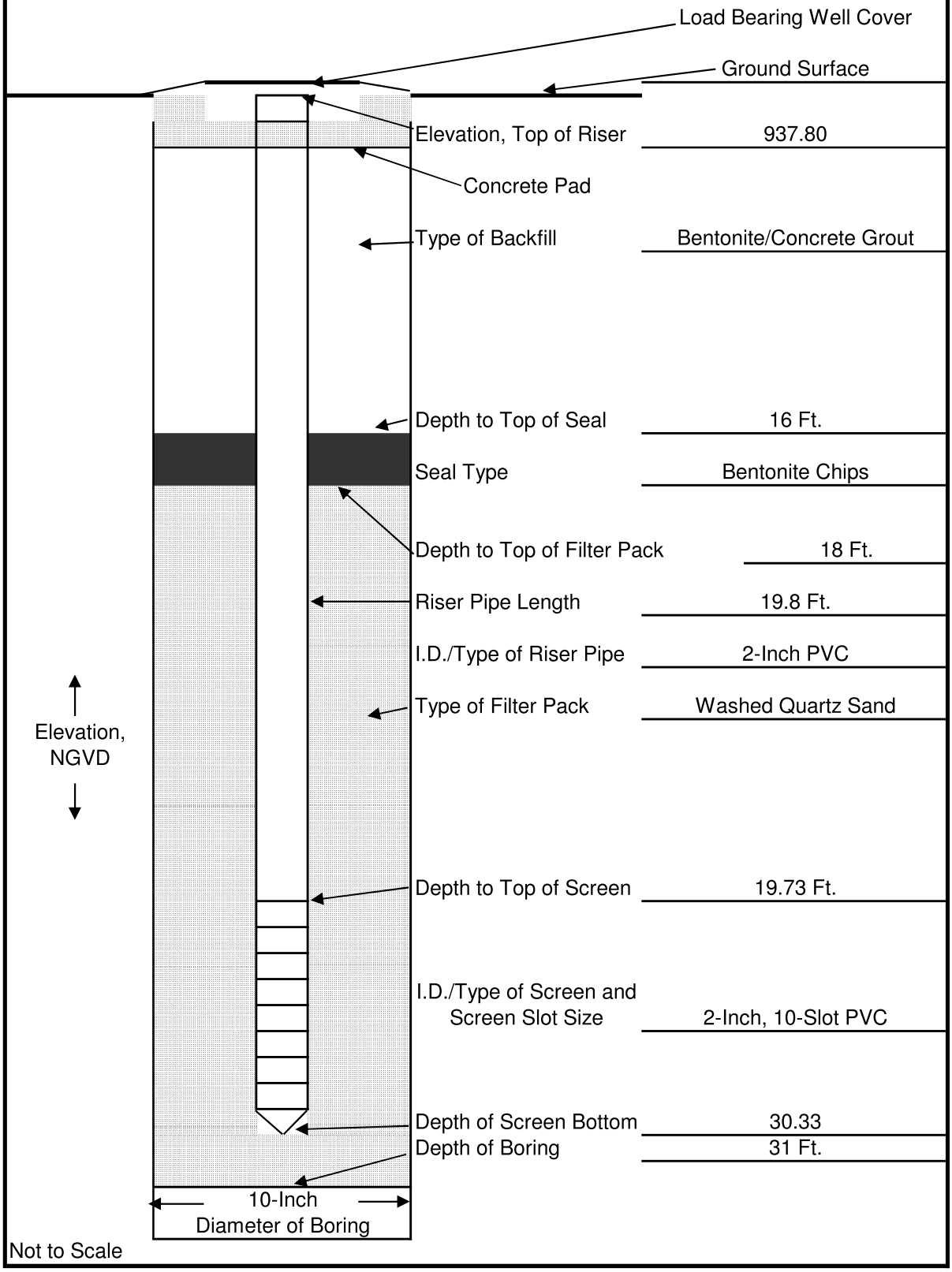


TW2

Well ID	MW81S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	03/06/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		

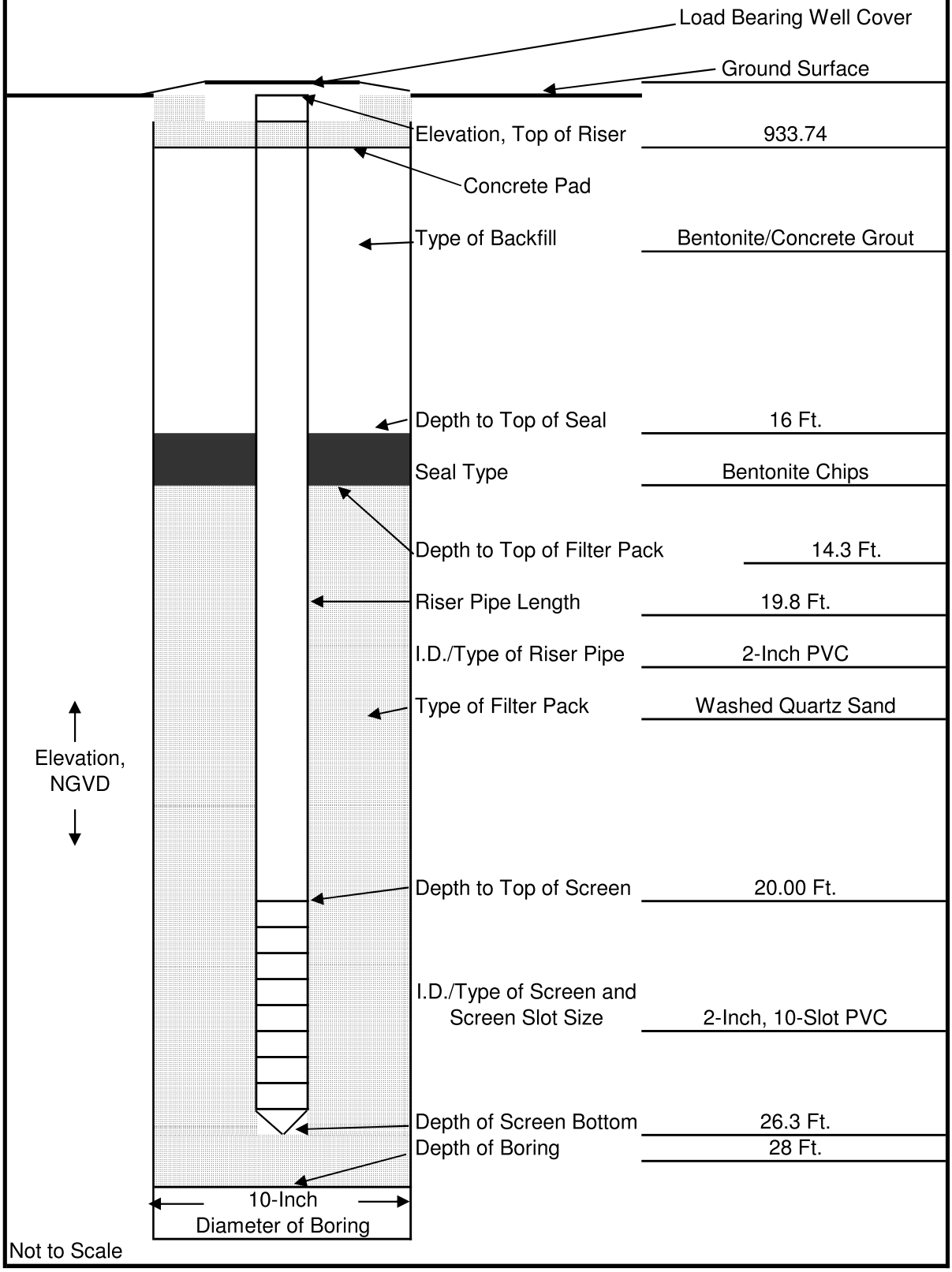


TW2

Well ID	MW82S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	03/07/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		

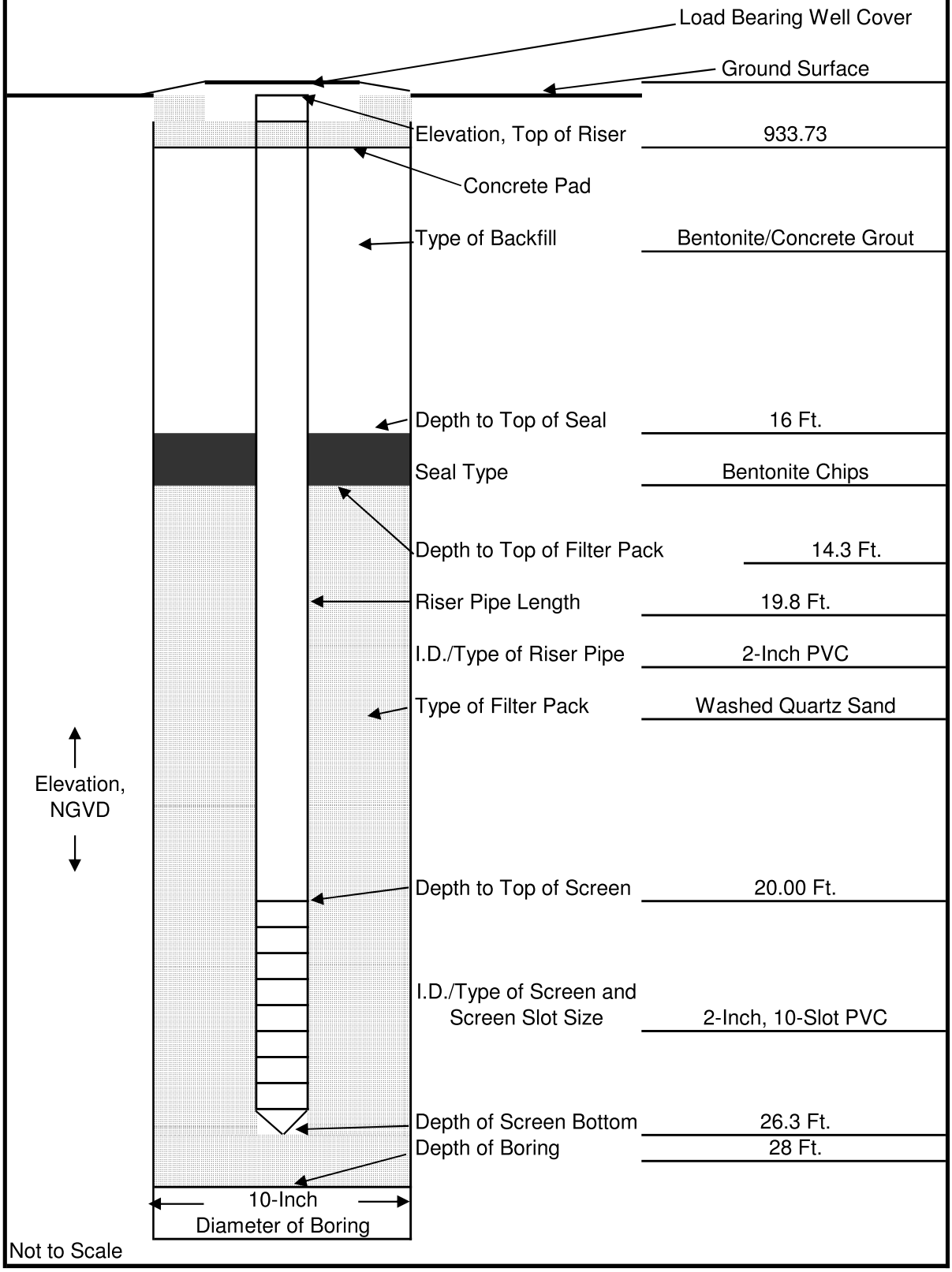


TW2

Well ID	MW83S

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Pilot Test	Project #	Pilot Test
Location:	Newnan, GA (Inside Plant)	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	03/07/07
Inspected By:	Tom Watson	Remarks:	
Method of Installation:	Hollow-Stem Auger		



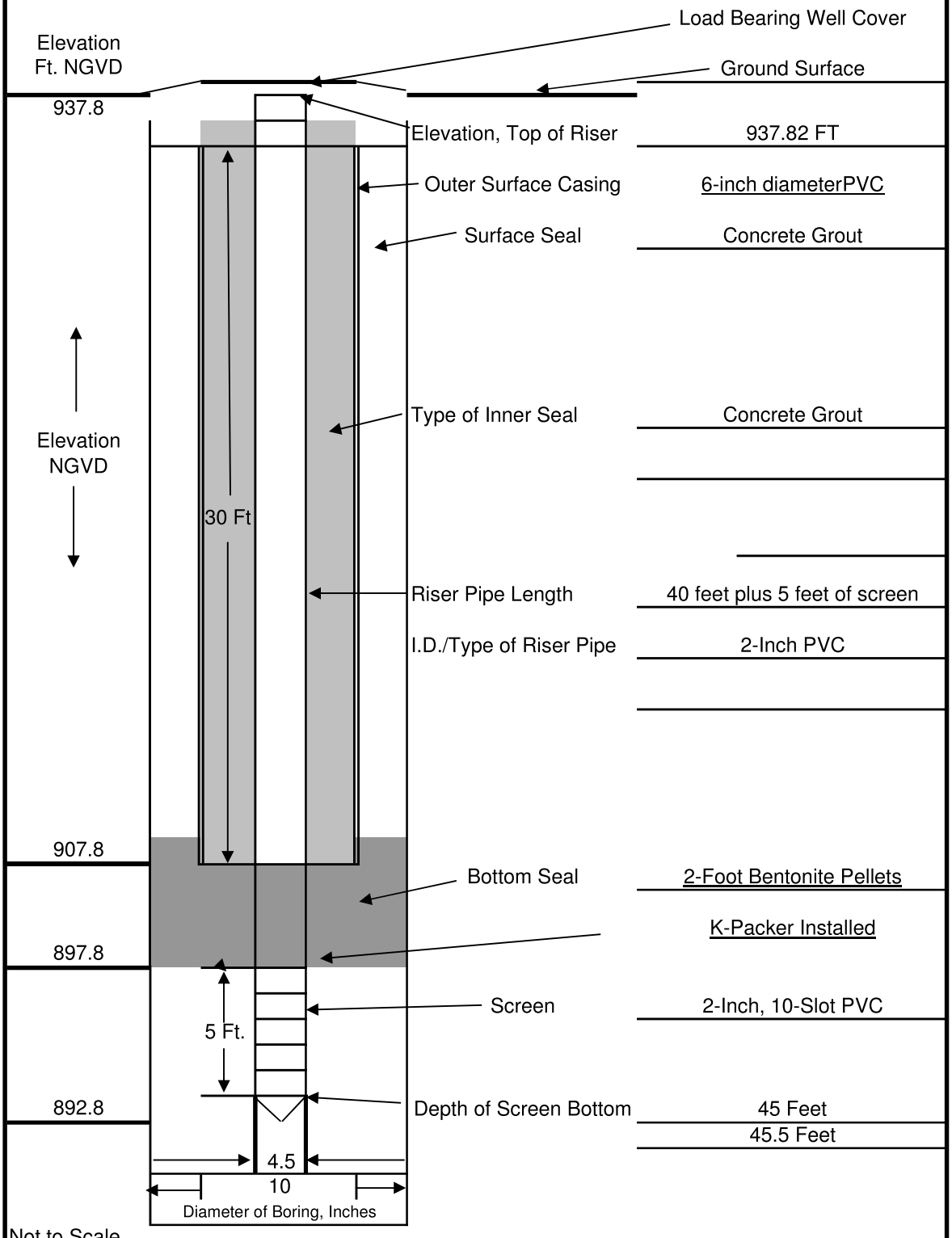
Not to Scale

TW2

Well ID	MW85D

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	GW Remediation
Location:	Newnan, GA (Inside Plant)	Task #	Vertical Assessment
Installed By:	Piedmont Environmental Drilling	Date Installed:	10/26/09
Inspected By:	Tom Watson	Remarks:	Completed 11/2/09
Method of Installation:	Hollow-Stem Auger, Type III		

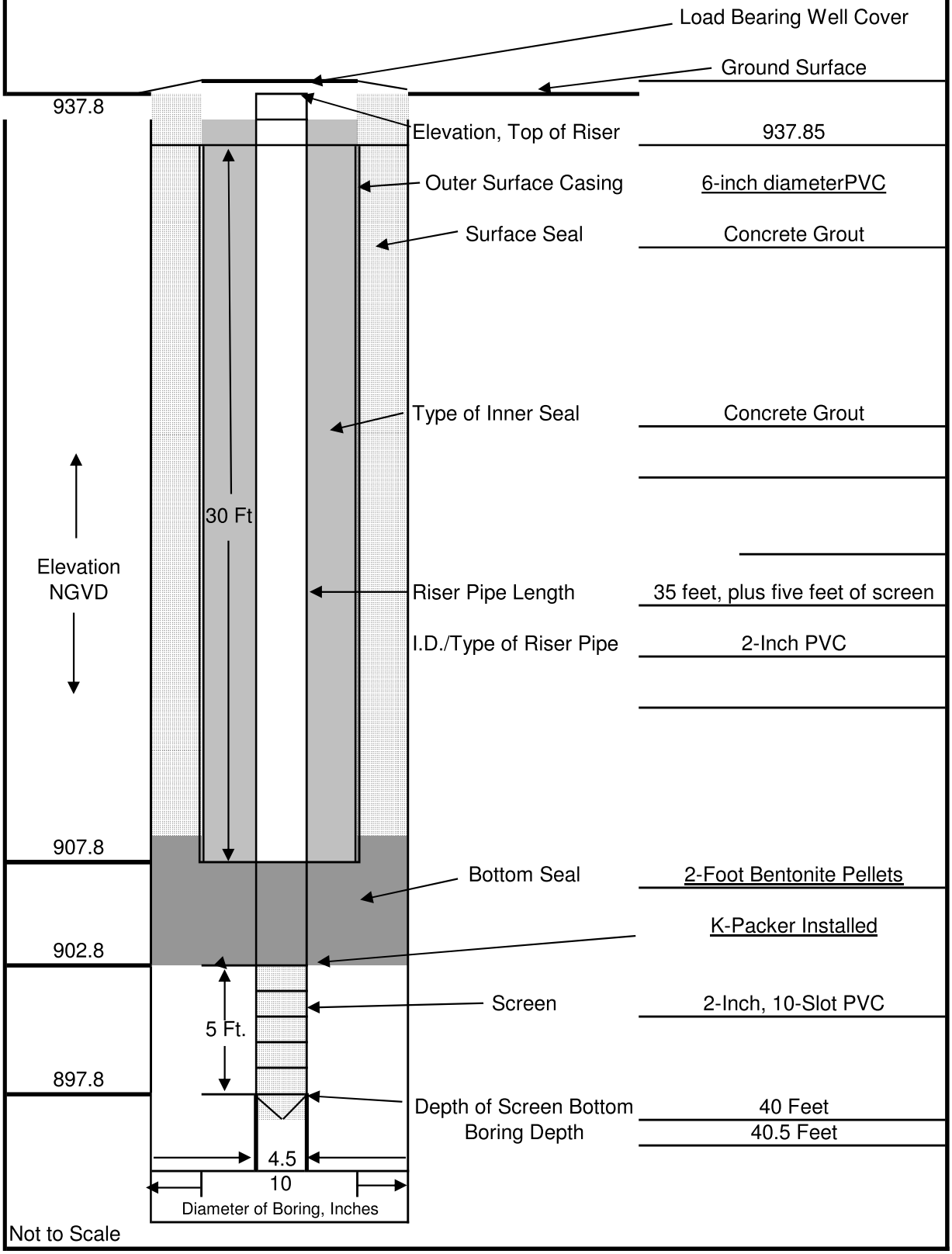


TW2

Well ID	MW86D

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	GW Remediation
Location:	Newnan, GA (Inside Plant)	Task #	Vertical Assessment
Installed By:	Piedmont Environmental Drilling	Date Installed:	10/27/09
Inspected By:	Tom Watson	Remarks:	Completed 11/2/09
Method of Installation:	Hollow-Stem Auger, Type III		

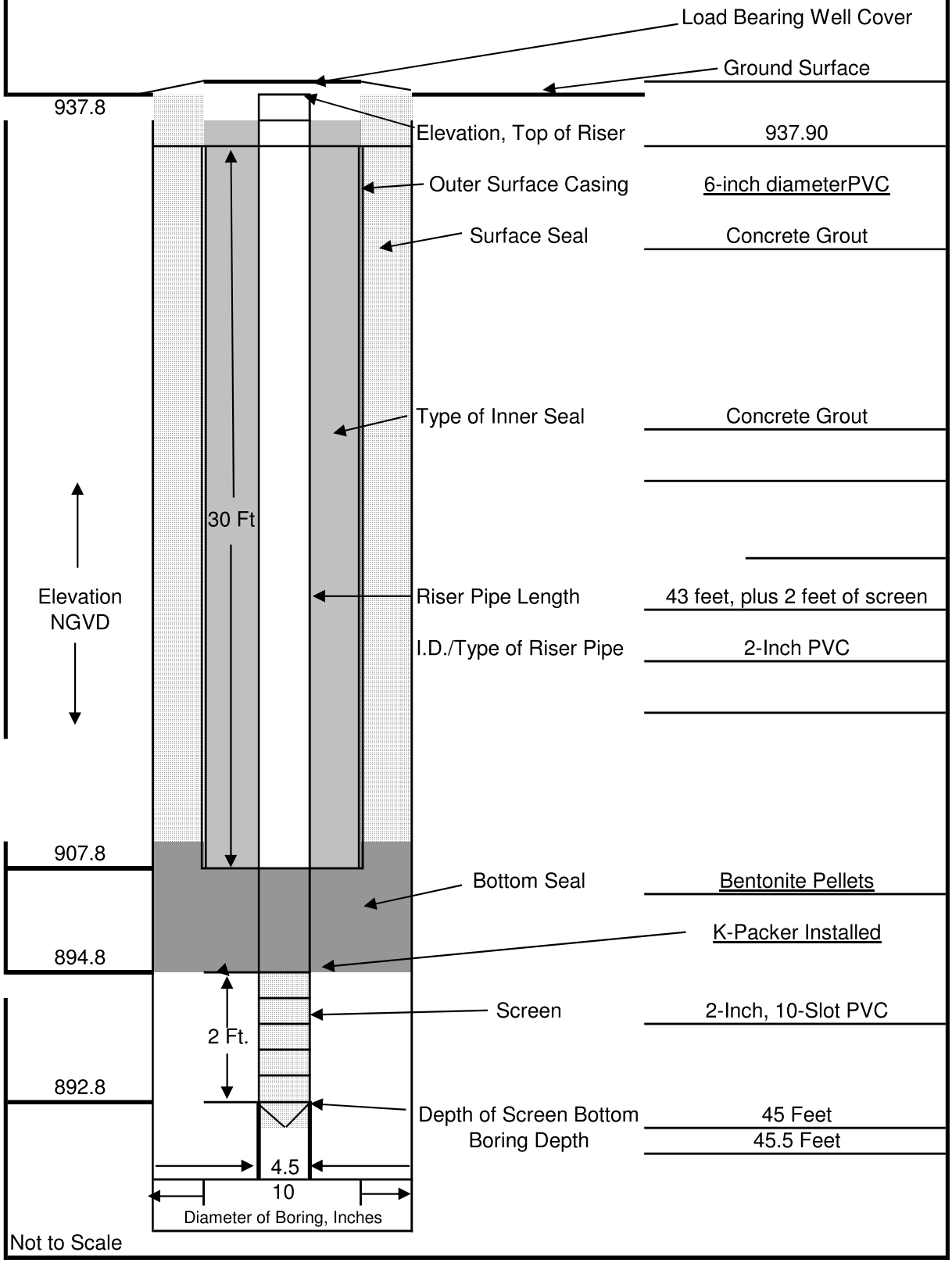


TW2

Well ID	MW87D

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	GW Remediation
Location:	Newnan, GA (Inside Plant)	Task #	Vertical Assessment
Installed By:	Piedmont Environmental Drilling	Date Installed:	12/29/09
Inspected By:	Tom Watson	Remarks:	completed 1/4/10
Method of Installation:	Hollow-Stem Auger, Type III		

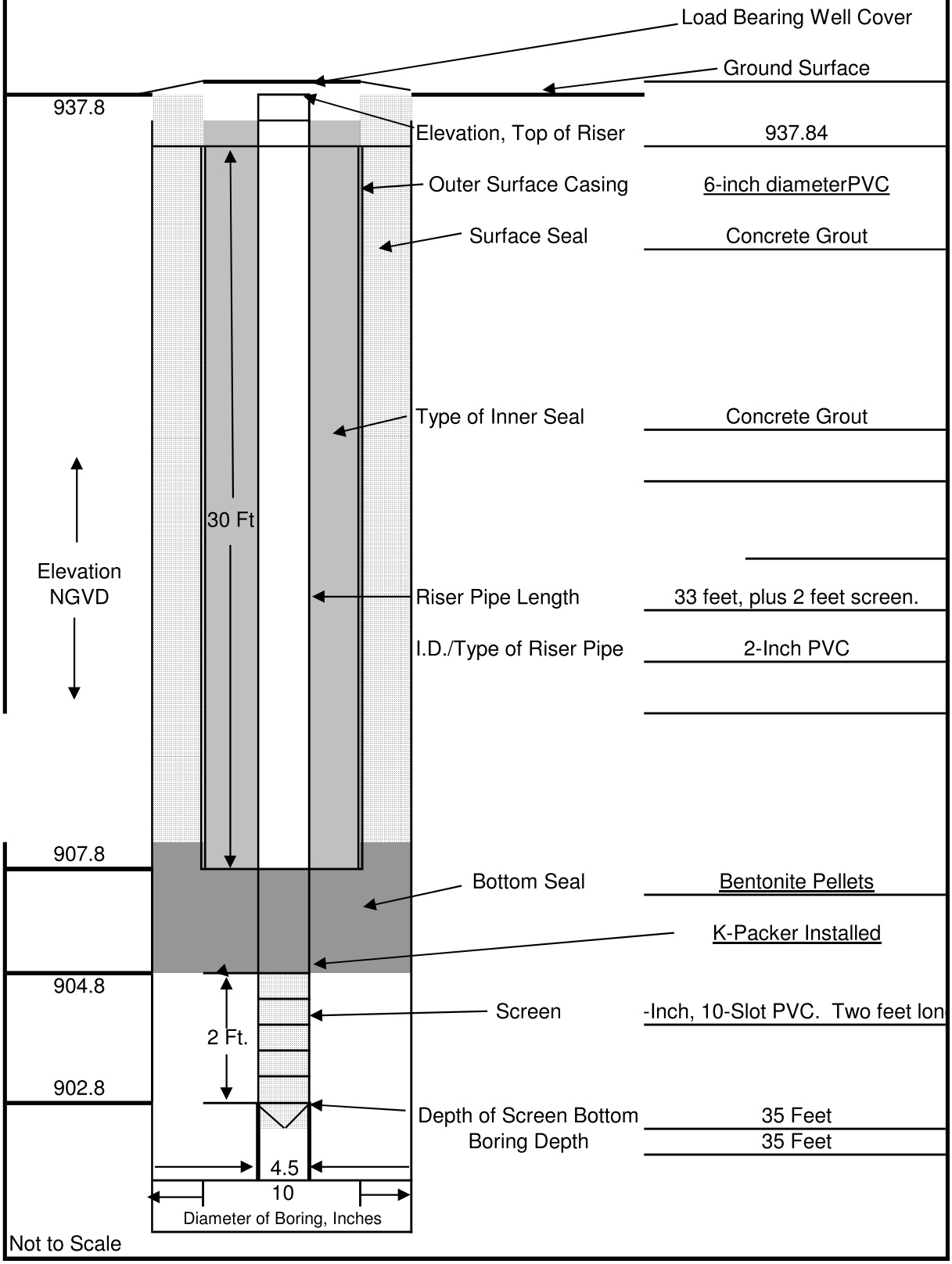


TW2

Well ID	MW88D

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	GW Remediation
Location:	Newnan, GA (Inside Plant)	Task #	Vertical Assessment
Installed By:	Piedmont Environmental Drilling	Date Installed:	12/29/09
Inspected By:	Tom Watson	Remarks:	Completed 1/5/10
Method of Installation:	Hollow-Stem Auger, Type III		

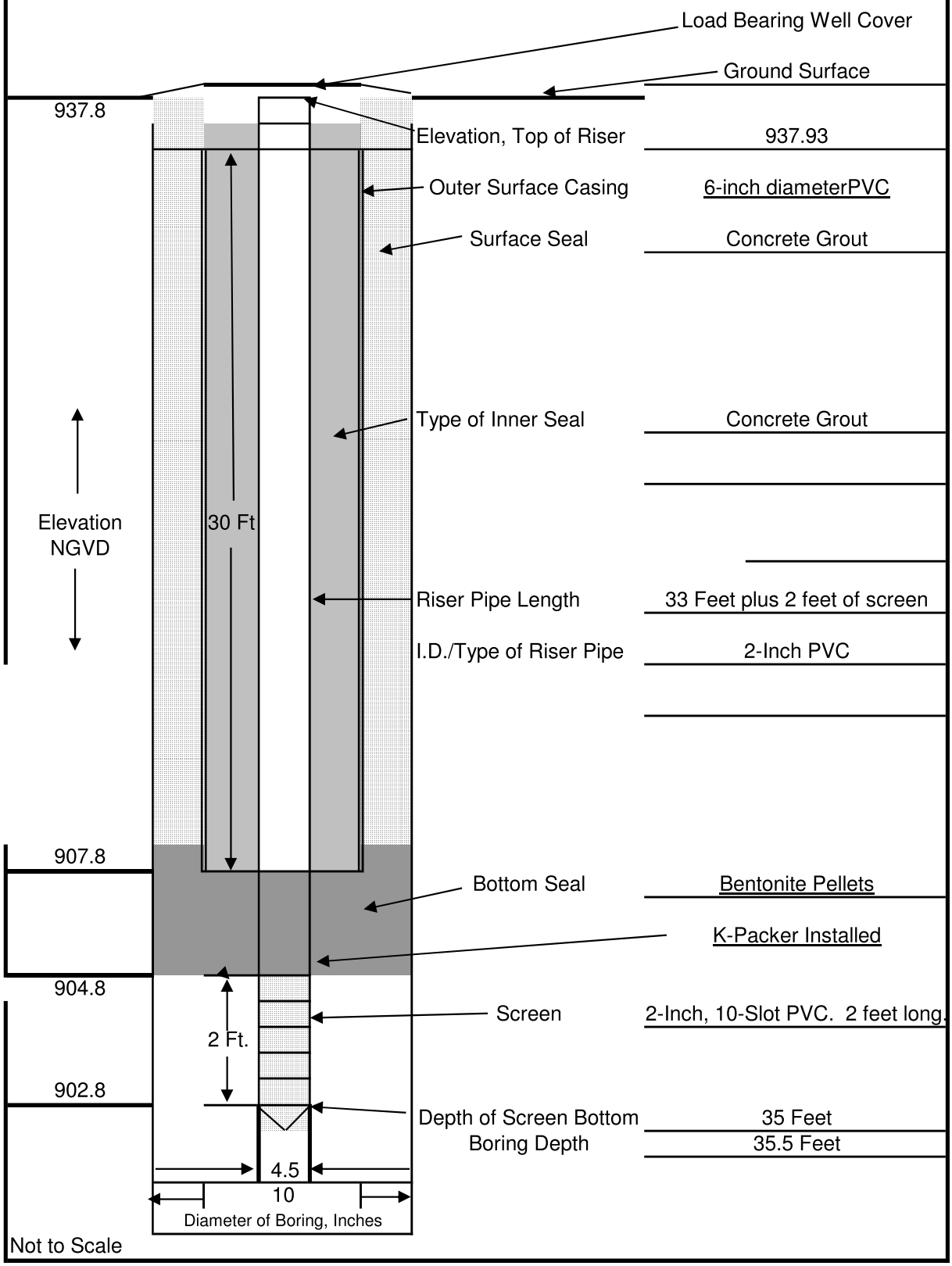


TW2

Well ID	MW89D

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	GW Remediation
Location:	Newnan, GA (Inside Plant)	Task #	Vertical Assessment
Installed By:	Piedmont Environmental Drilling	Date Installed:	01/05/10
Inspected By:	Tom Watson	Remarks:	Completed 1/11/10
Method of Installation:	Hollow-Stem Auger, Type III		

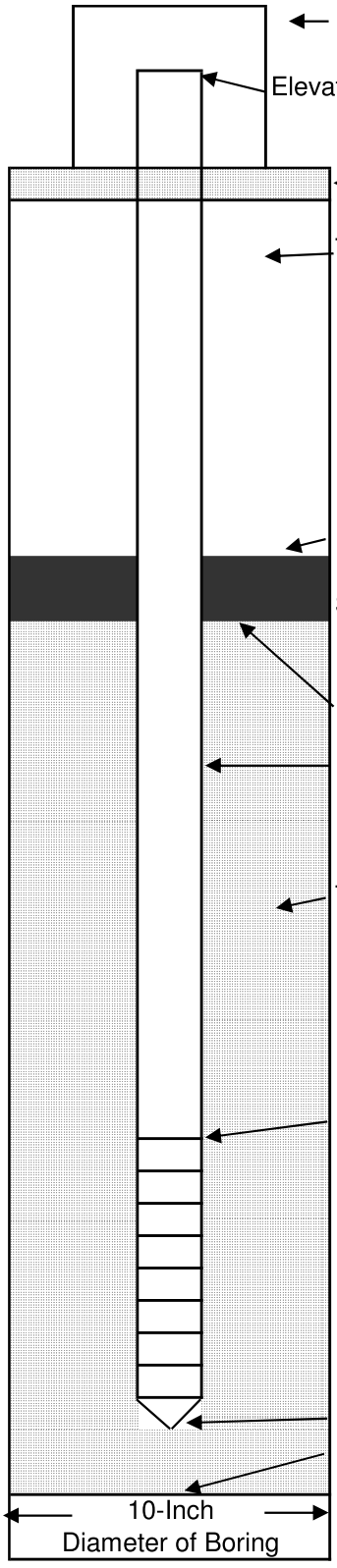


TW2

Well ID	MW90D

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	GW Remediation
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/20/10
Inspected By:	Burton Dixon	Remarks:	
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	926.99
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	13 Ft.
Seal Type	Bentonite Chip
Depth to Top of Filter Pack	15 Ft.
Riser Pipe Length	17.3 Ft.
I.D./Type of Riser Pipe	2-Inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	17.3 Ft.
I.D./Type of Screen and Screen Slot Size	2-Inch, 10-Slot PVC
Depth of Screen Bottom	27.3 Ft.
Depth of Boring	27.5 Ft.

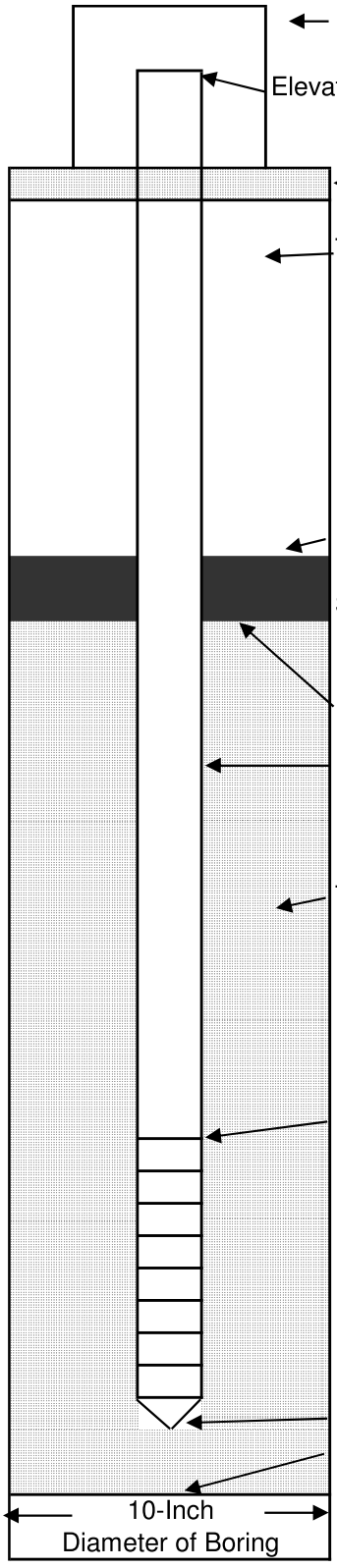
Not to Scale

TW2

Well ID	MW91D

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	GW Remediation
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/20/10
Inspected By:	Burton Dixon	Remarks:	
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	926.99
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	23 Ft.
Seal Type	Bentonite Chip
Depth to Top of Filter Pack	25 Ft.
Riser Pipe Length	28 Ft.
I.D./Type of Riser Pipe	2-Inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	27.4 Ft.
I.D./Type of Screen and Screen Slot Size	2-Inch, 10-Slot PVC
Depth of Screen Bottom	37.4 Ft.
Depth of Boring	38 Ft.

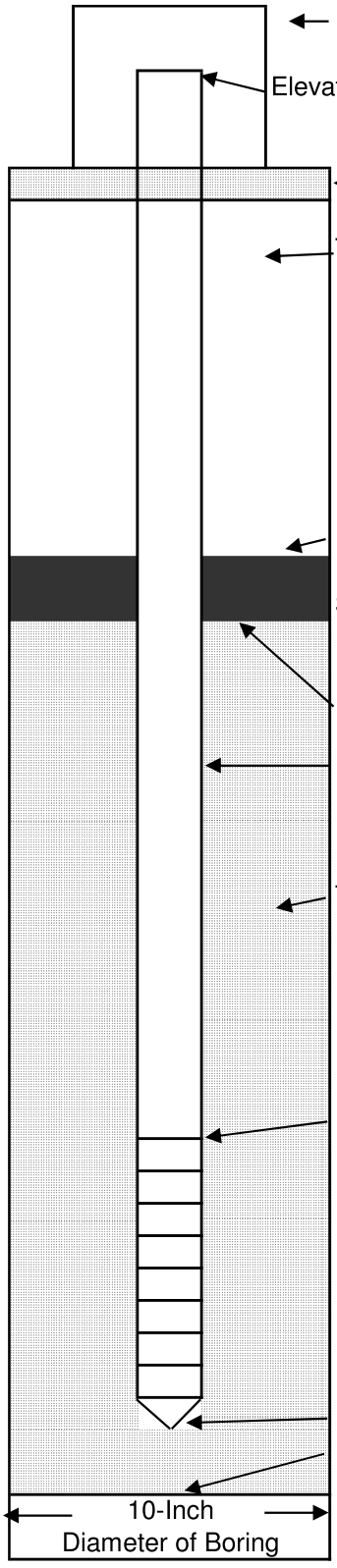
Not to Scale

TW2

Well ID	MW92D

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	GW Remediation
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/21/10
Inspected By:	Burton Dixon	Remarks:	Dry at time of install
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	926.99
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	28 Ft.
Seal Type	Bentonite Chip
Depth to Top of Filter Pack	30 Ft.
Riser Pipe Length	32 Ft.
I.D./Type of Riser Pipe	2-Inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	32 Ft.
I.D./Type of Screen and Screen Slot Size	2-Inch, 10-Slot PVC
Depth of Screen Bottom	42 Ft.
Depth of Boring	42 Ft.

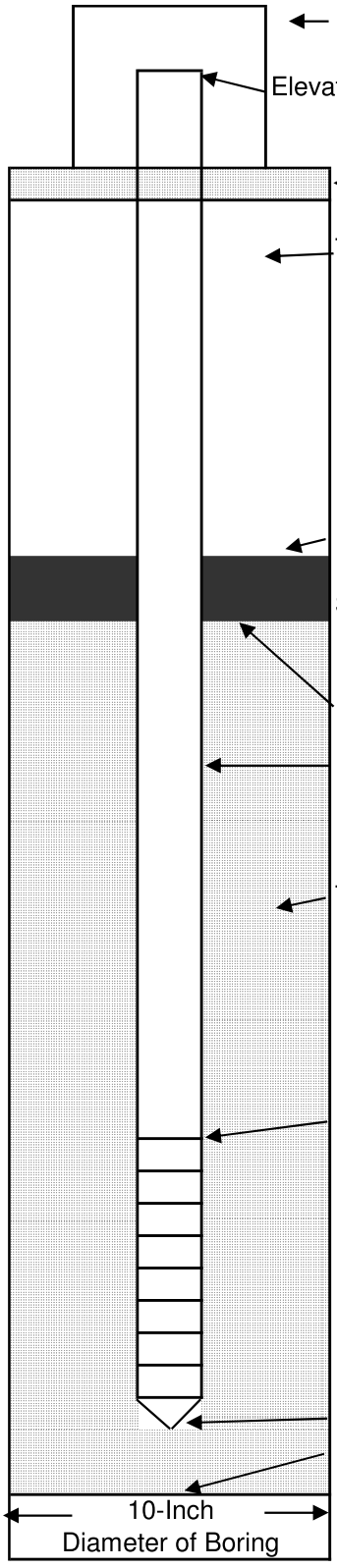
Not to Scale

TW2

Well ID	MW93D

MONITORING WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	GW Remediation
Location:	Newnan, GA	Task #	
Installed By:	Piedmont Environmental Drilling	Date Installed:	09/21/10
Inspected By:	Burton Dixon	Remarks:	
Method of Installation:	Hollow-Stem Auger/Downhole Hammer		



Locking Steel Protective Riser	
Elevation, Top of Riser Pipe	926.99
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	21 Ft.
Seal Type	Bentonite Chip
Depth to Top of Filter Pack	23 Ft.
Riser Pipe Length	25 Ft.
I.D./Type of Riser Pipe	2-Inch PVC
Type of Filter Pack	Washed Quartz Sand
Depth to Top of Screen	25 Ft.
I.D./Type of Screen and Screen Slot Size	2-Inch, 10-Slot PVC
Depth of Screen Bottom	35 Ft.
Depth of Boring	35.5 Ft.

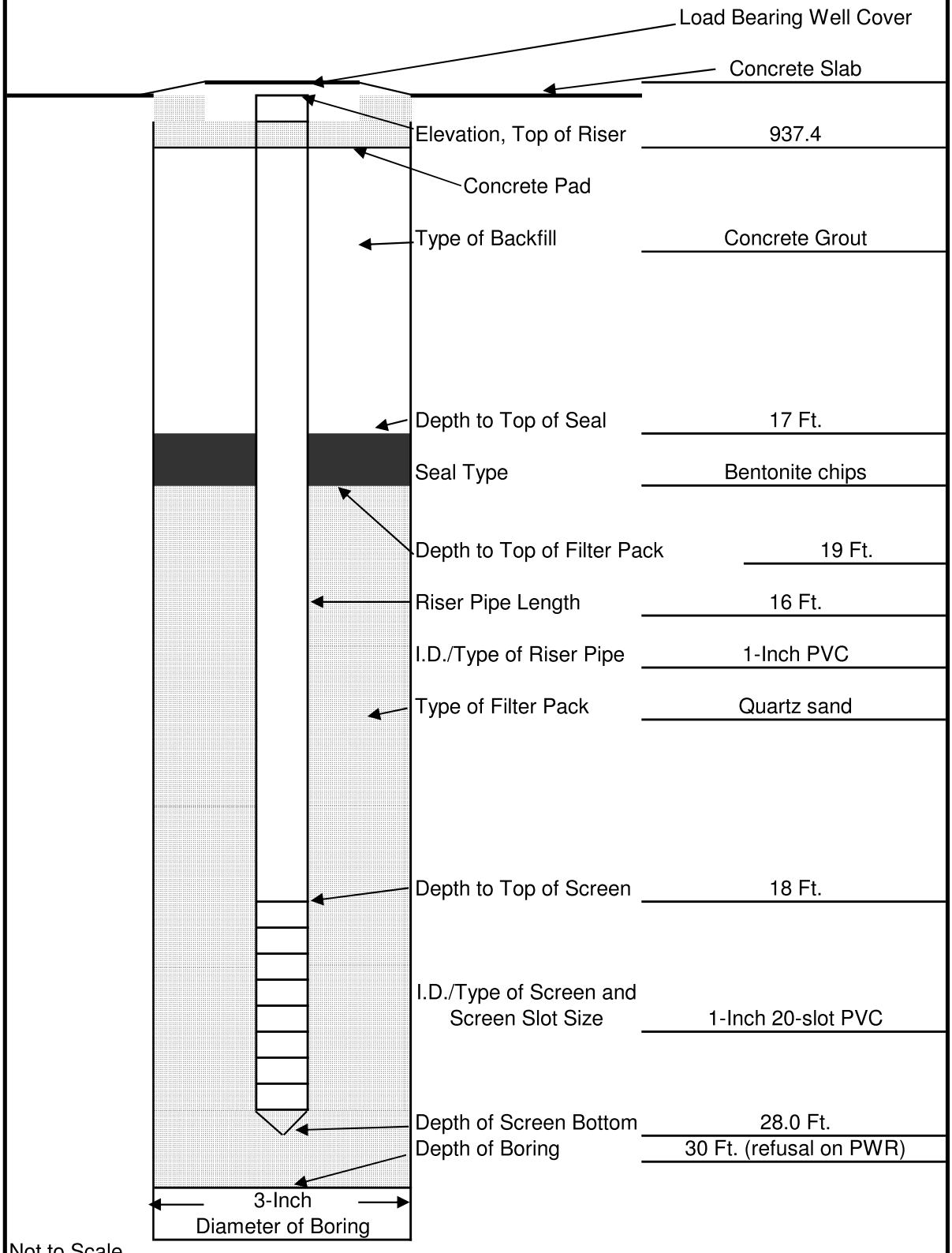
Not to Scale

TW2

Well ID	IW1

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/07/11
Inspected By:	Burton Dixon	Remarks:	collected composite
Method of Installation:	Geoprobe 7822 DT	soil sample. GW @ 26.7 Ft.	



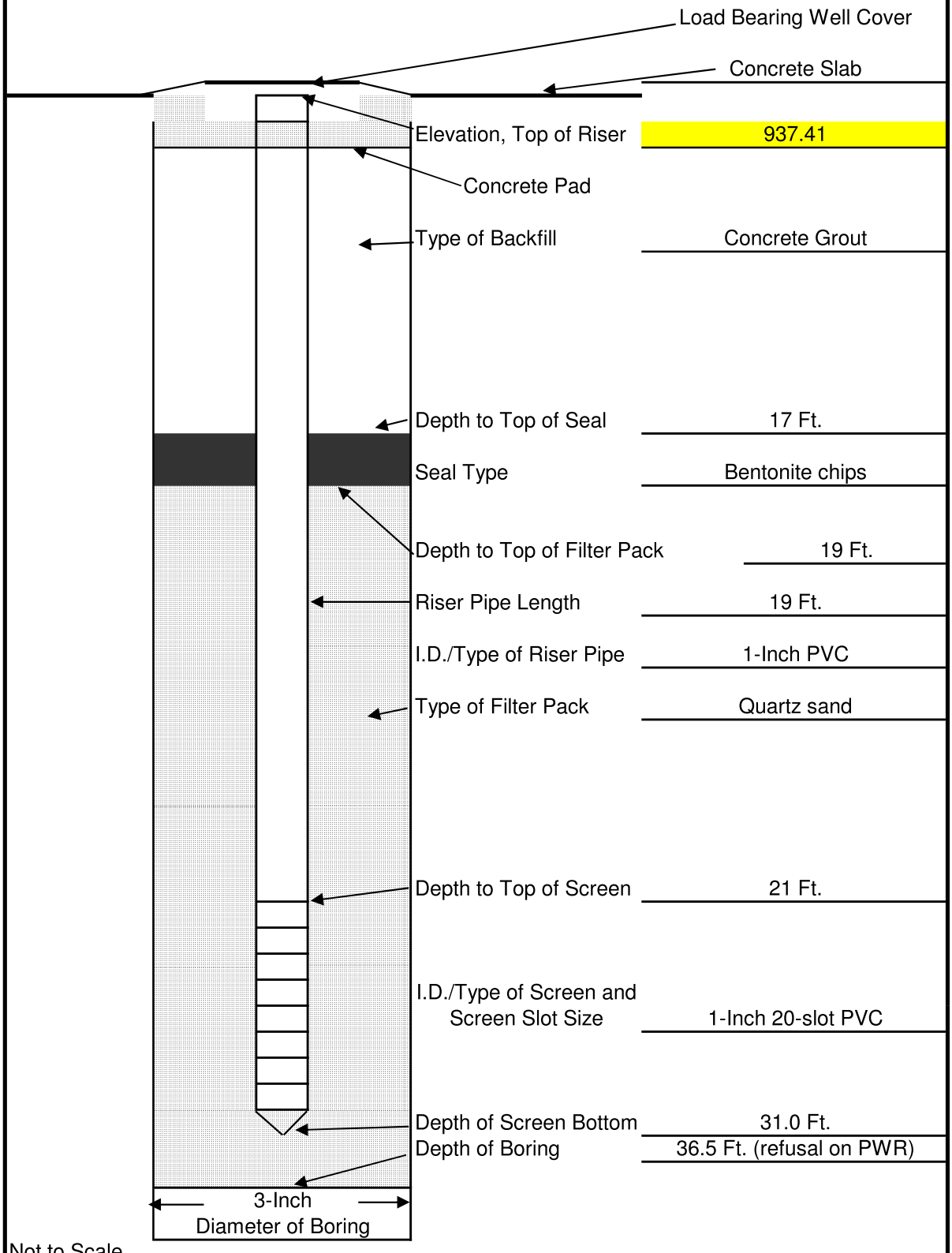
Not to Scale

TW2

Well ID	IW2

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/07/11
Inspected By:	Burton Dixon	Remarks:	GW @ 22.8 Ft.
Method of Installation:	Geoprobe 7822 DT		



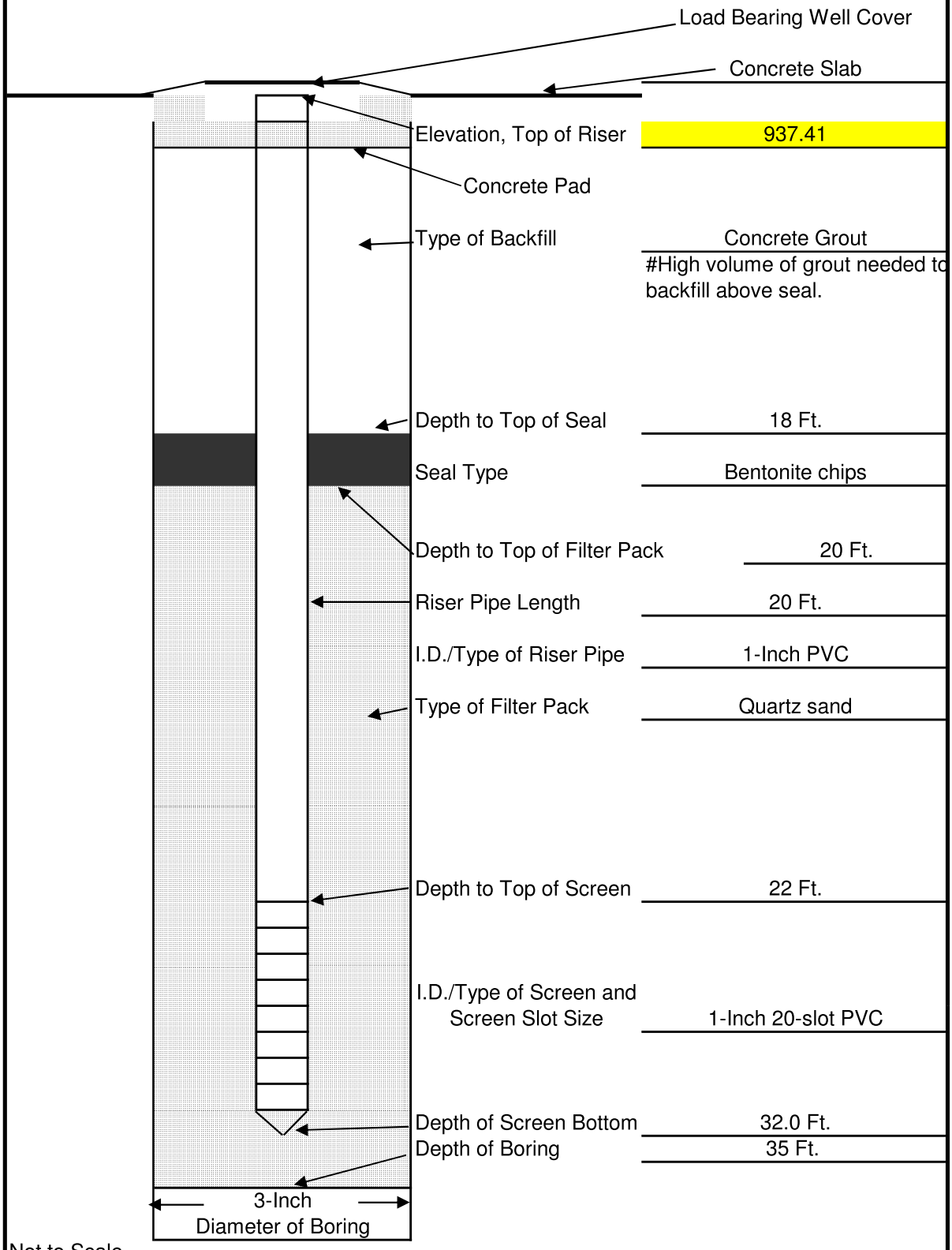
Not to Scale

TW2

Well ID	IW3

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/07/11
Inspected By:	Burton Dixon	Remarks:	collected composite
Method of Installation:	Geoprobe 7822 DT	soil sample. GW @ 23.7 Ft. #	



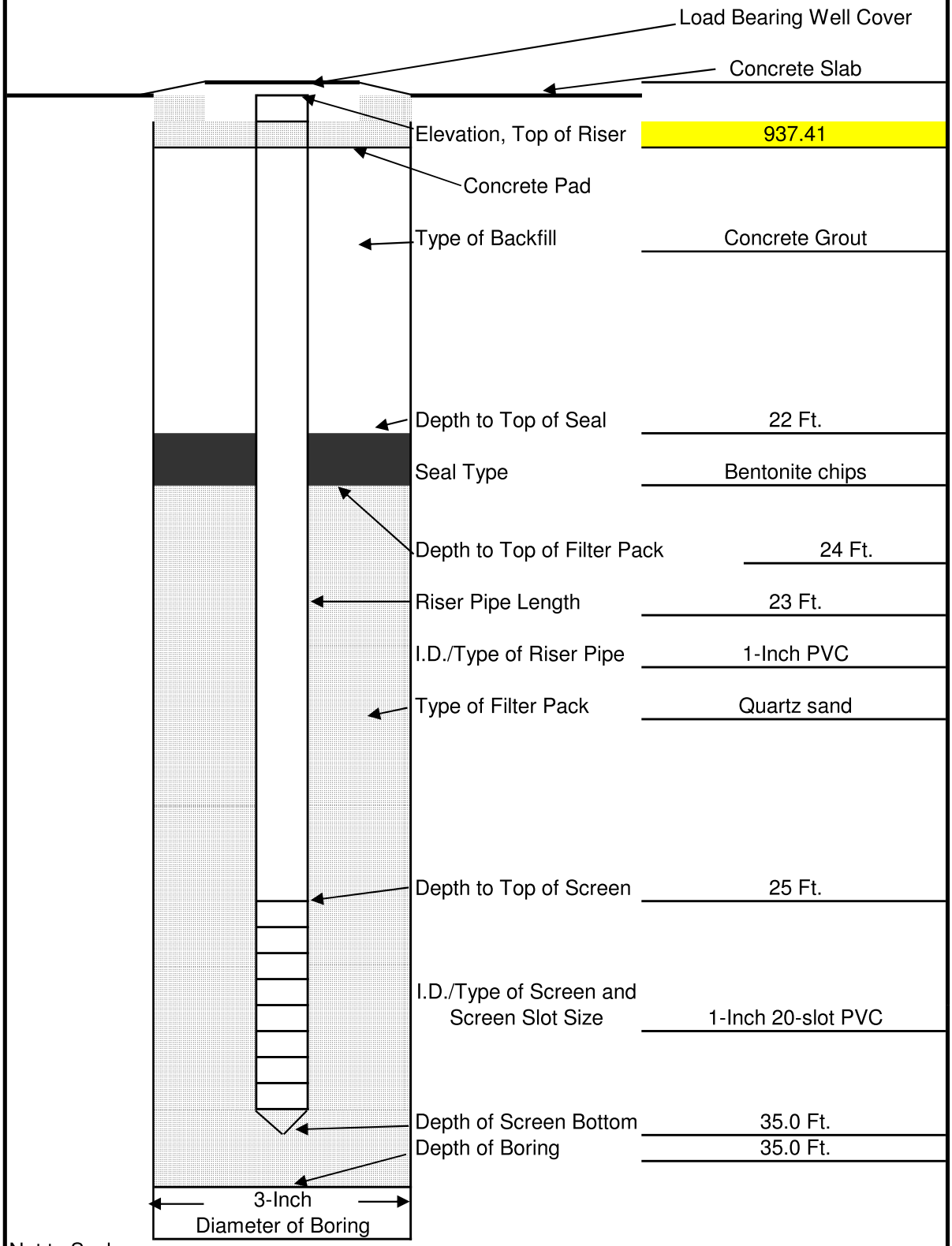
Not to Scale

TW2

Well ID	IW4

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/07/11
Inspected By:	Burton Dixon	Remarks:	GW @ 23.4 Ft.
Method of Installation:	Geoprobe 7822 DT		



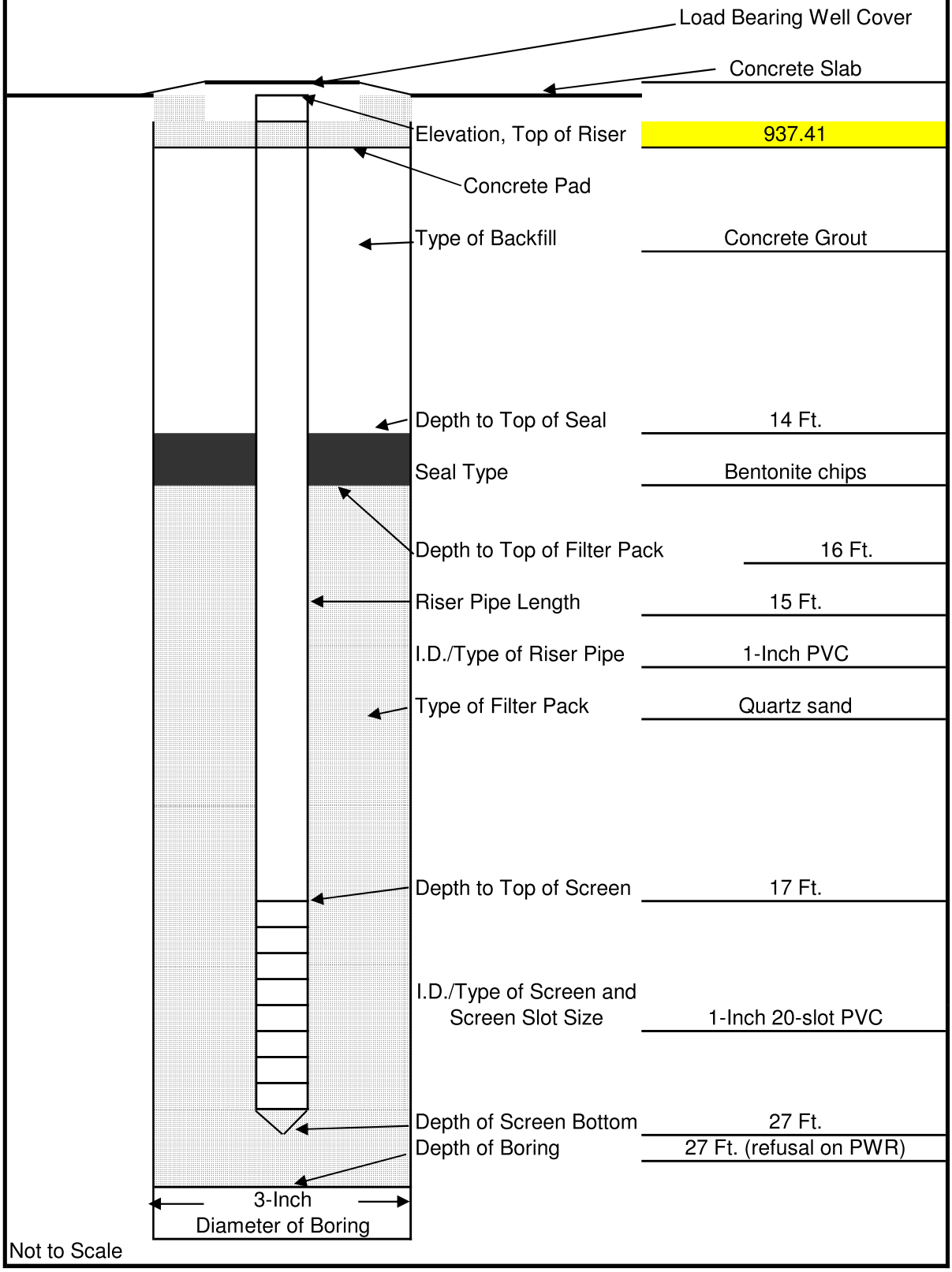
Not to Scale

TW2

Well ID	IW5

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/08/11
Inspected By:	Burton Dixon	Remarks:	GW @ 23.15 Ft.
Method of Installation:	Geoprobe 7822 DT		



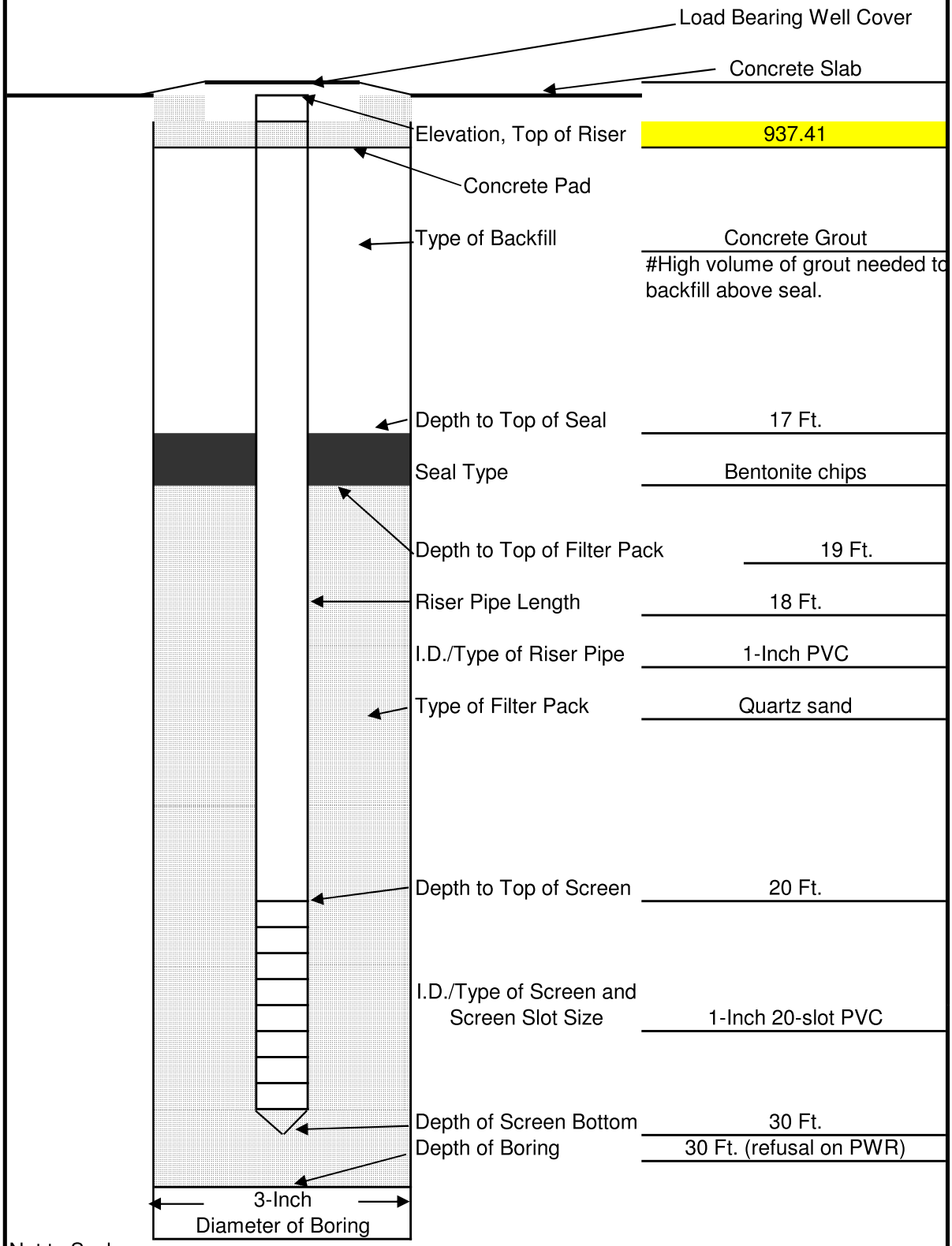
Not to Scale

TW2

Well ID	IW6

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/08/11
Inspected By:	Burton Dixon	Remarks:	GW @ 23.75 Ft. #
Method of Installation:	Geoprobe 7822 DT		



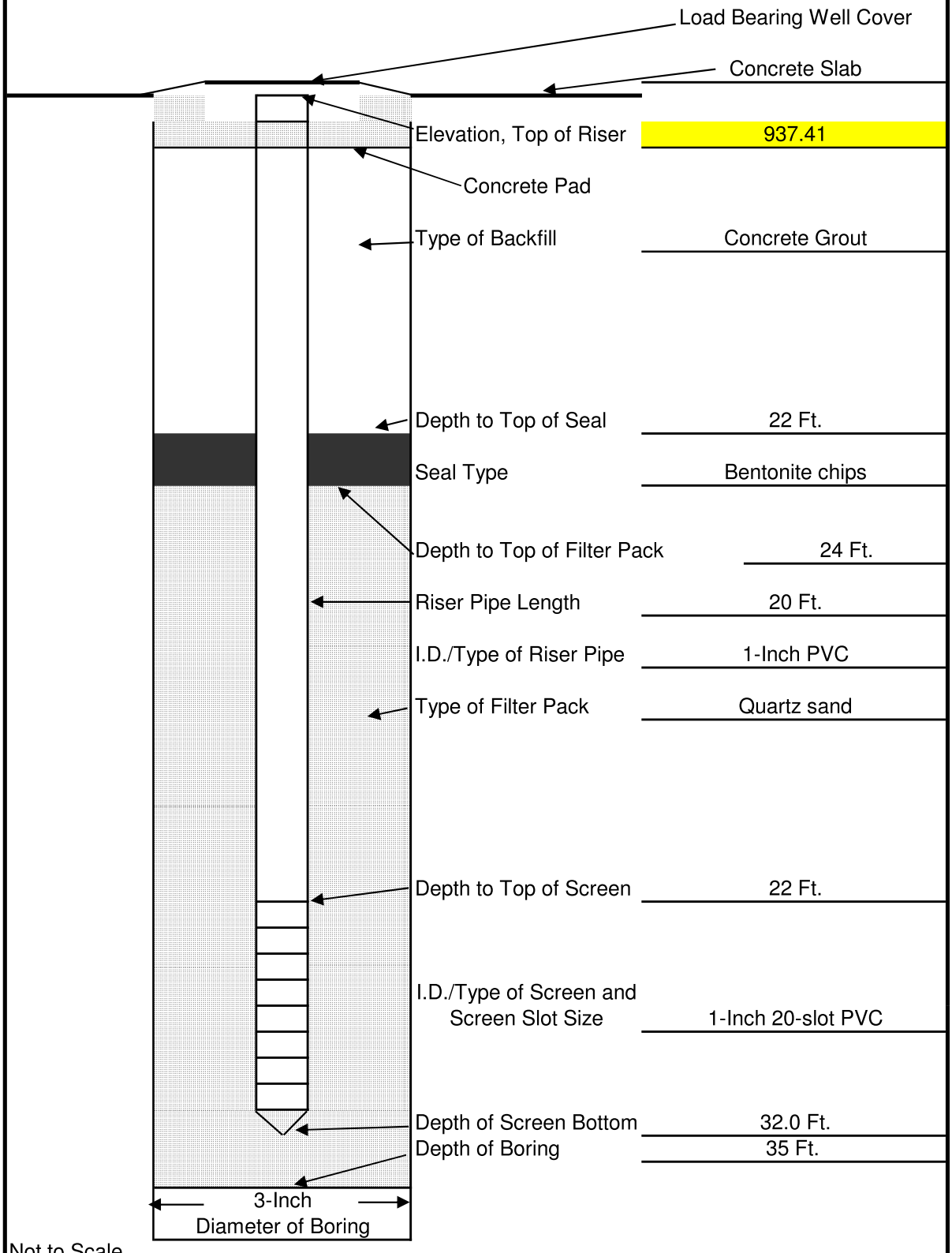
Not to Scale

TW2

Well ID	IW7

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/08/11
Inspected By:	Burton Dixon	Remarks:	collected composite
Method of Installation:	Geoprobe 7822 DT	soil sample. GW @ 26.3 Ft.	



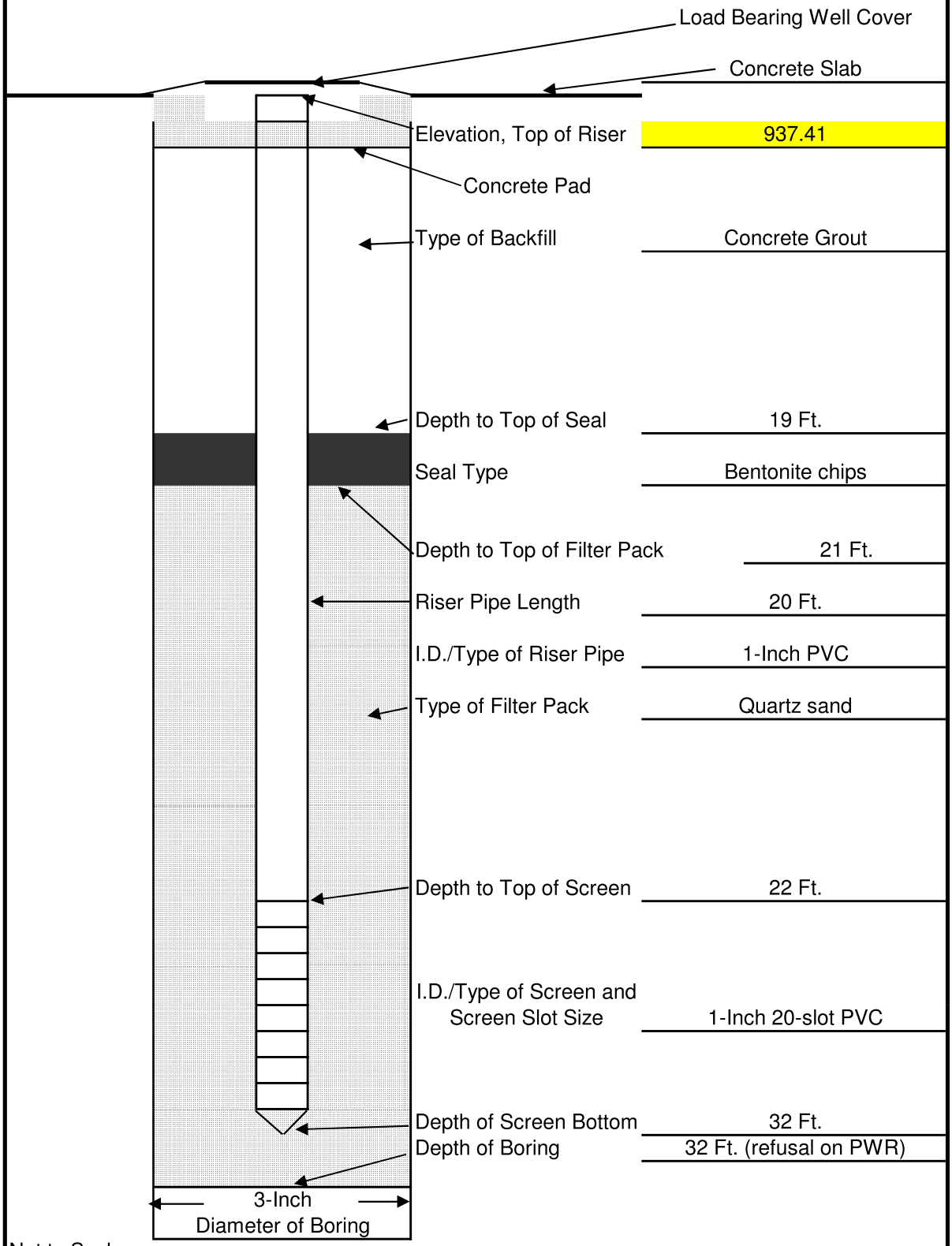
Not to Scale

TW2

Well ID	IW8

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/08/11
Inspected By:	Burton Dixon	Remarks:	GW @ 25.1 Ft.
Method of Installation:	Geoprobe 7822 DT		



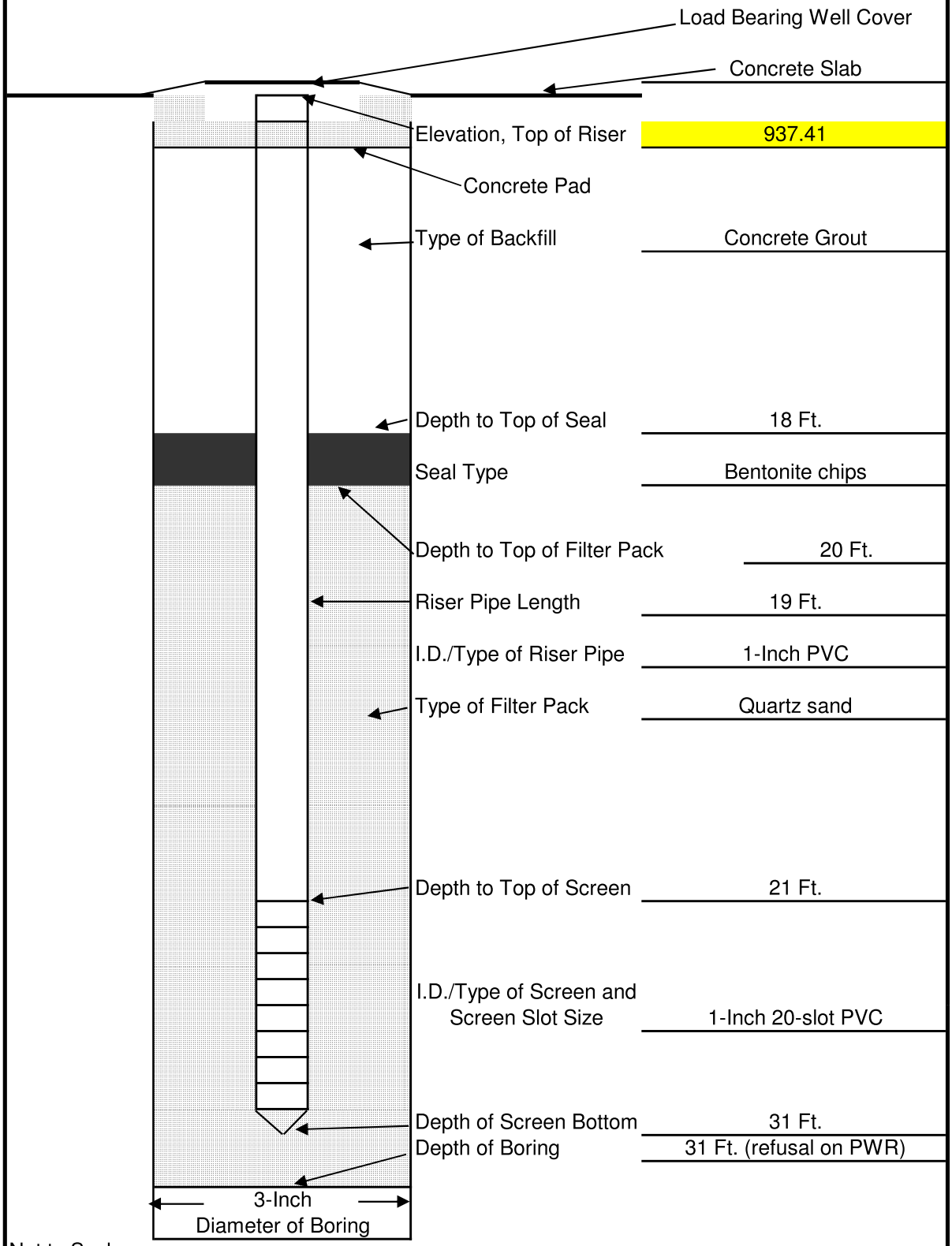
Not to Scale

TW2

Well ID	IW9

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/08/11
Inspected By:	Burton Dixon	Remarks:	GW @ 30.6 Ft.
Method of Installation:	Geoprobe 7822 DT		



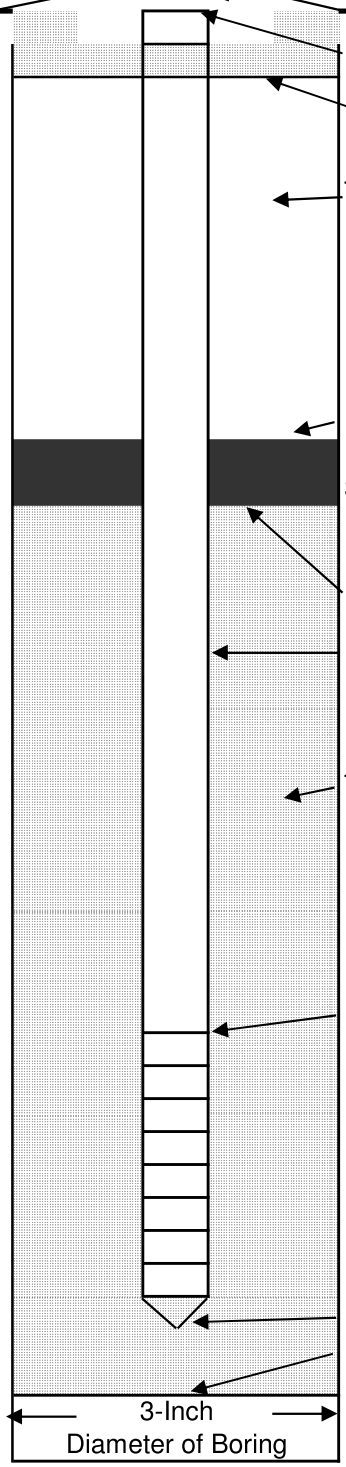
Not to Scale

TW2

Well ID	IW10

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/08/11
Inspected By:	Burton Dixon	Remarks:	GW @ 24.1 Ft. (24hr
Method of Installation:	Geoprobe 7822 DT		



Load Bearing Well Cover	
Concrete Slab	
Elevation, Top of Riser	937.41
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	22 Ft.
Seal Type	Bentonite chips
Depth to Top of Filter Pack	24 Ft.
Riser Pipe Length	23 Ft.
I.D./Type of Riser Pipe	1-Inch PVC
Type of Filter Pack	Quartz sand
Depth to Top of Screen	25 Ft.
I.D./Type of Screen and Screen Slot Size	1-Inch 20-slot PVC
Depth of Screen Bottom	35 Ft.
Depth of Boring	35 Ft.

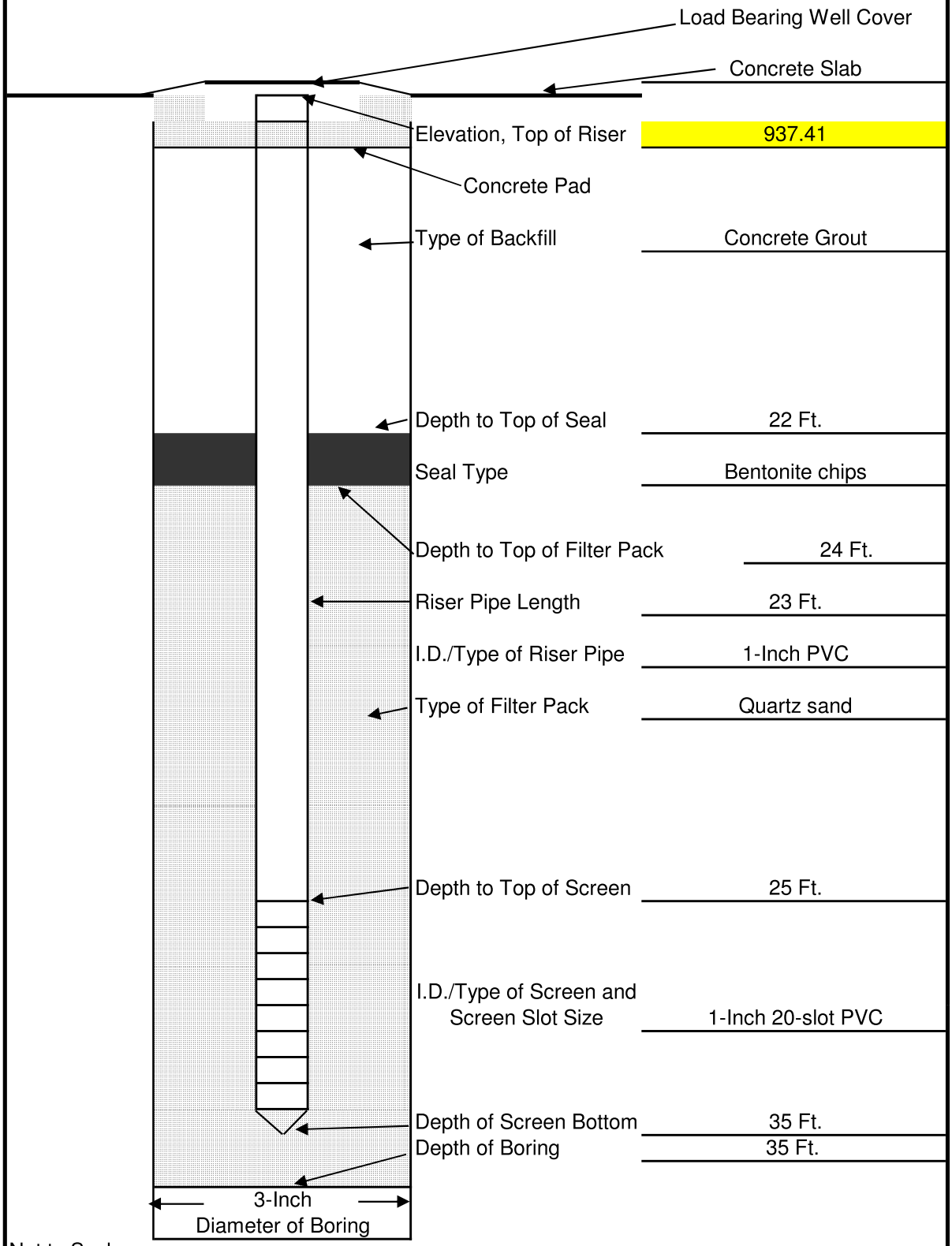
Not to Scale

TW2

Well ID	IW11

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/08/11
Inspected By:	Burton Dixon	Remarks:	GW @ 24.15 Ft.
Method of Installation:	Geoprobe 7822 DT		



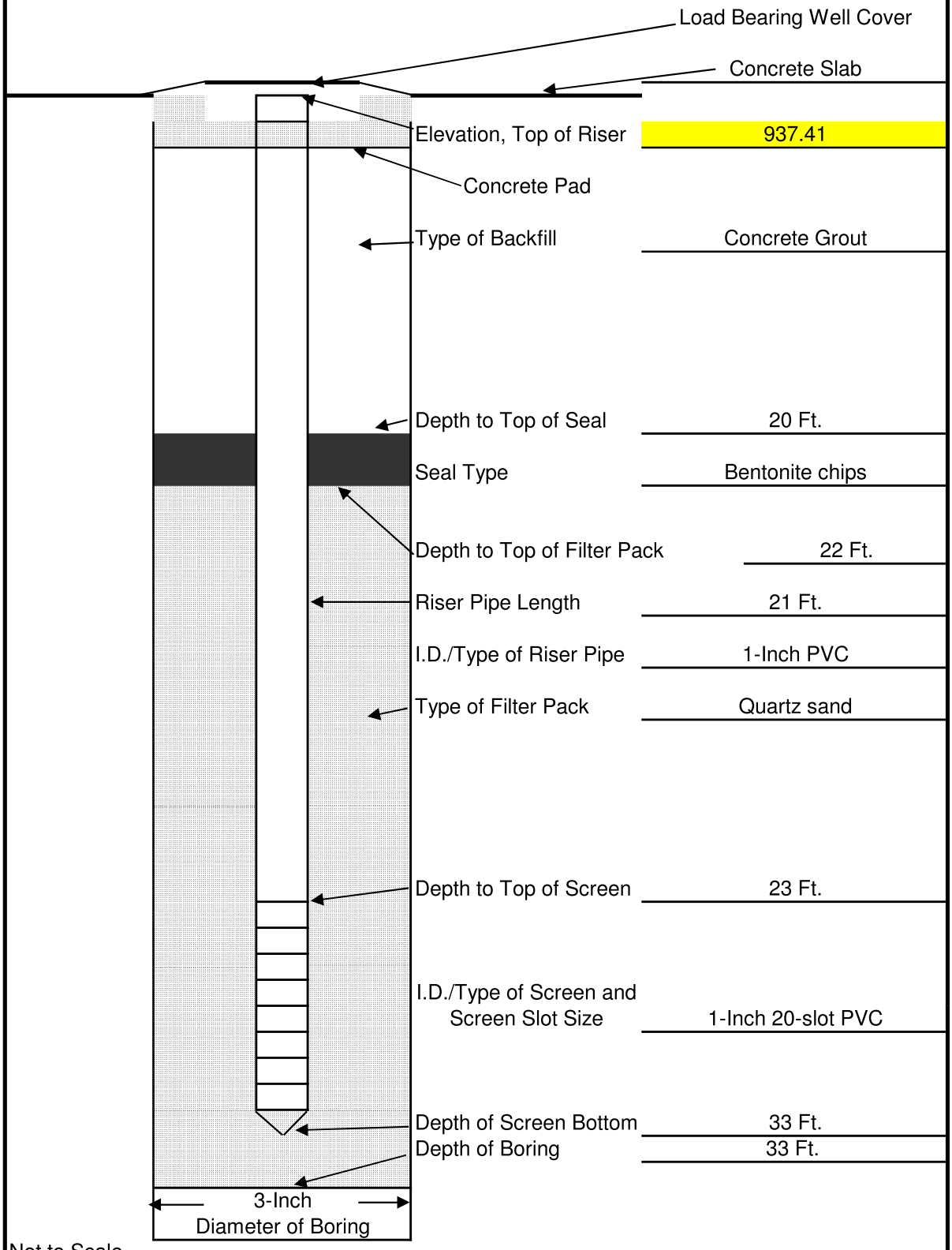
Not to Scale

TW2

Well ID	IW12

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/09/11
Inspected By:	Burton Dixon	Remarks:	GW @ 24.9 Ft.
Method of Installation:	Geoprobe 7822 DT		



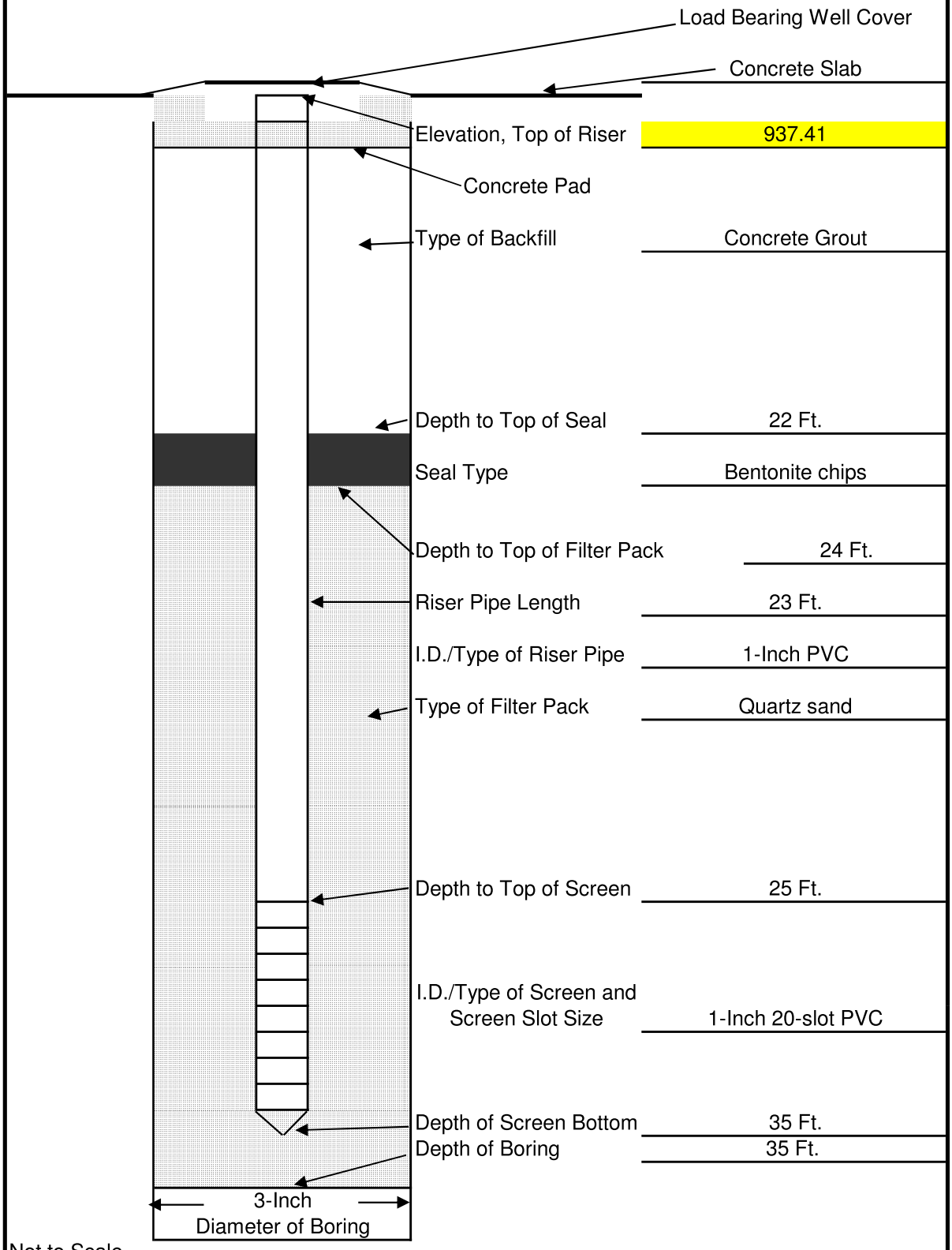
Not to Scale

TW2

Well ID	IW13

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/09/11
Inspected By:	Burton Dixon	Remarks:	GW @ 24.1 Ft.
Method of Installation:	Geoprobe 7822 DT		



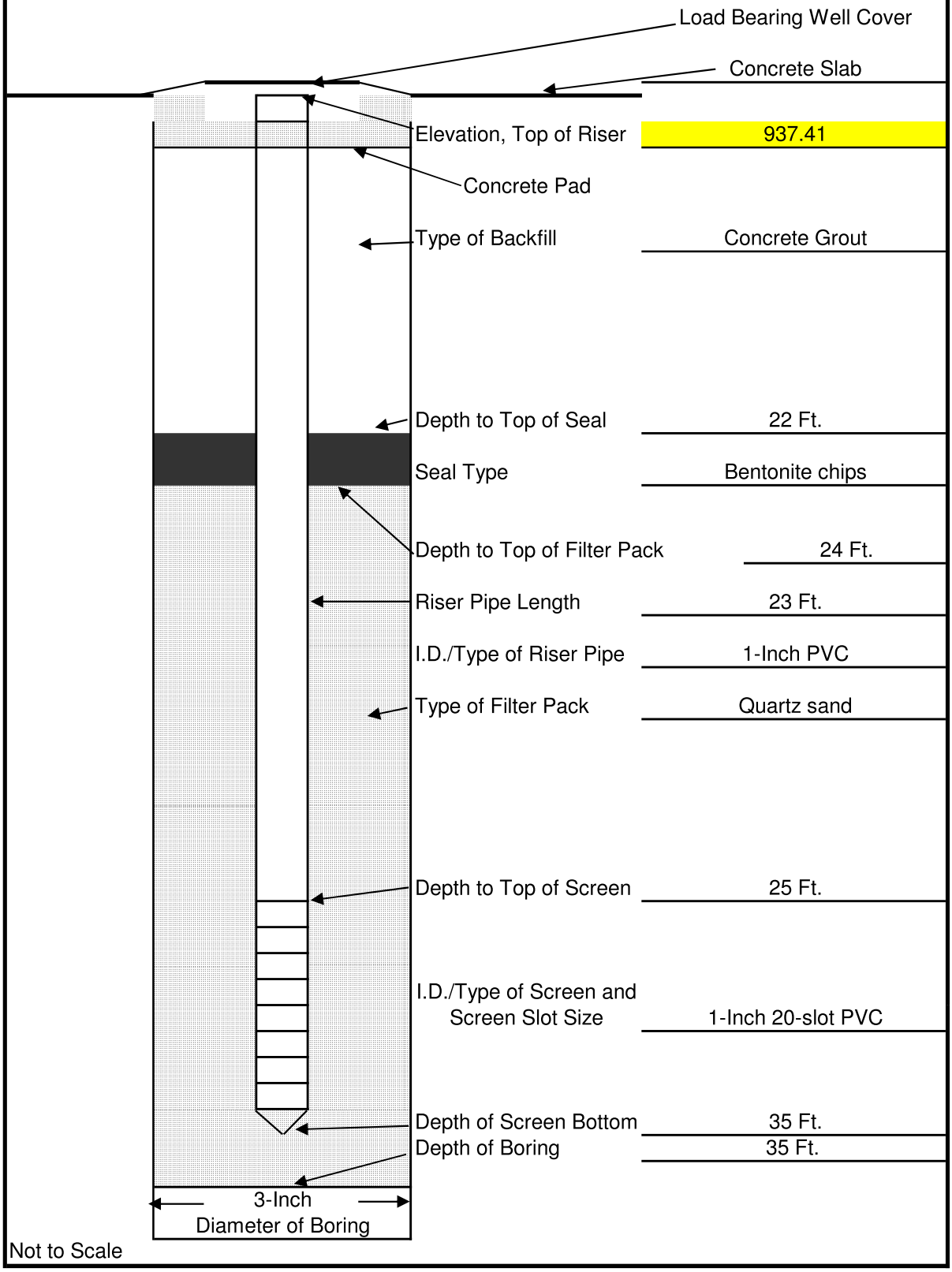
Not to Scale

TW2

Well ID	IW14

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW remediation
Installed By:	Geo Lab	Date Installed:	02/09/11
Inspected By:	Burton Dixon	Remarks:	GW @ 24.25Ft.
Method of Installation:	Geoprobe 7822 DT		



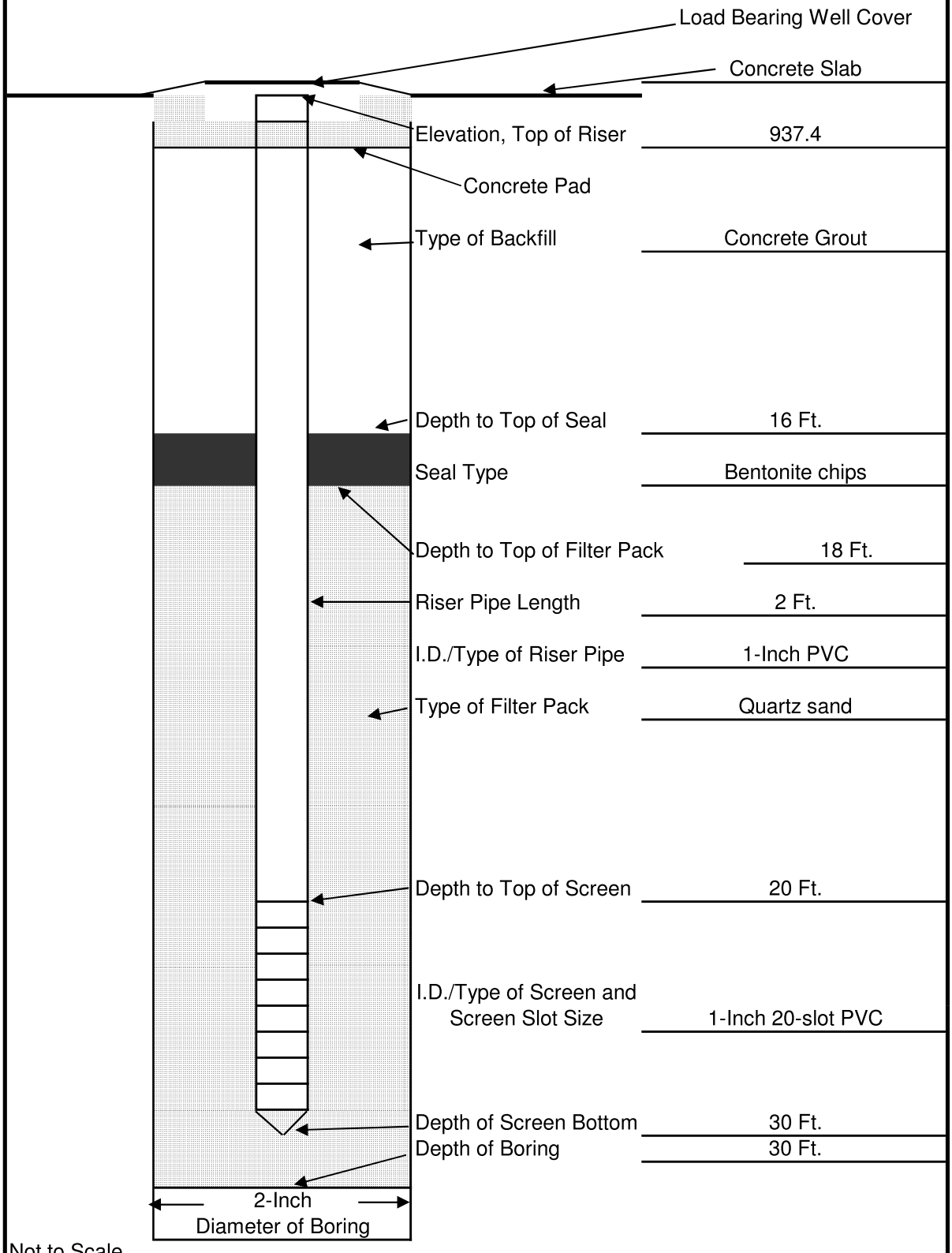
Not to Scale

TW2

Well ID	IW15

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/15/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



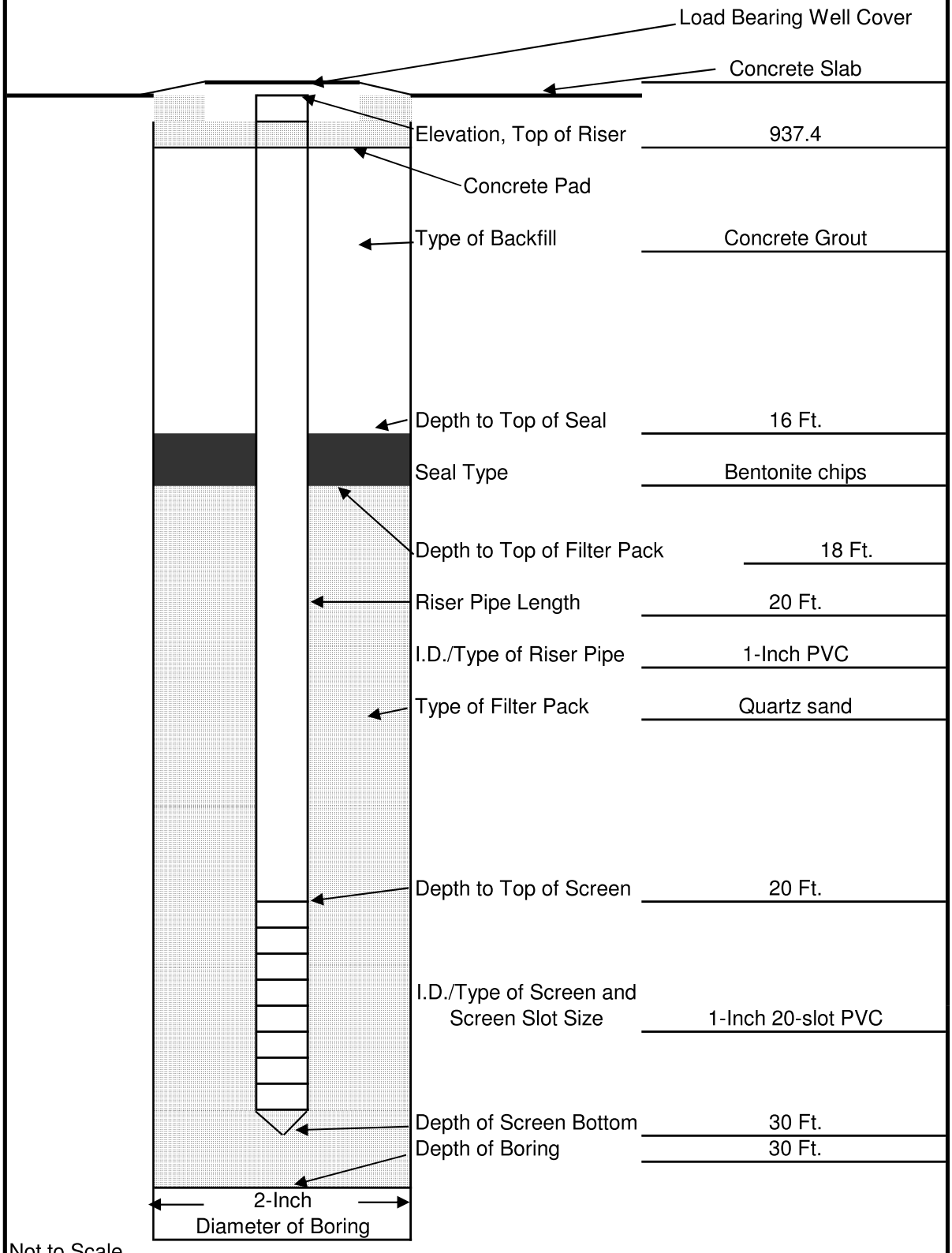
Not to Scale

TW2

Well ID	IW16

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/15/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



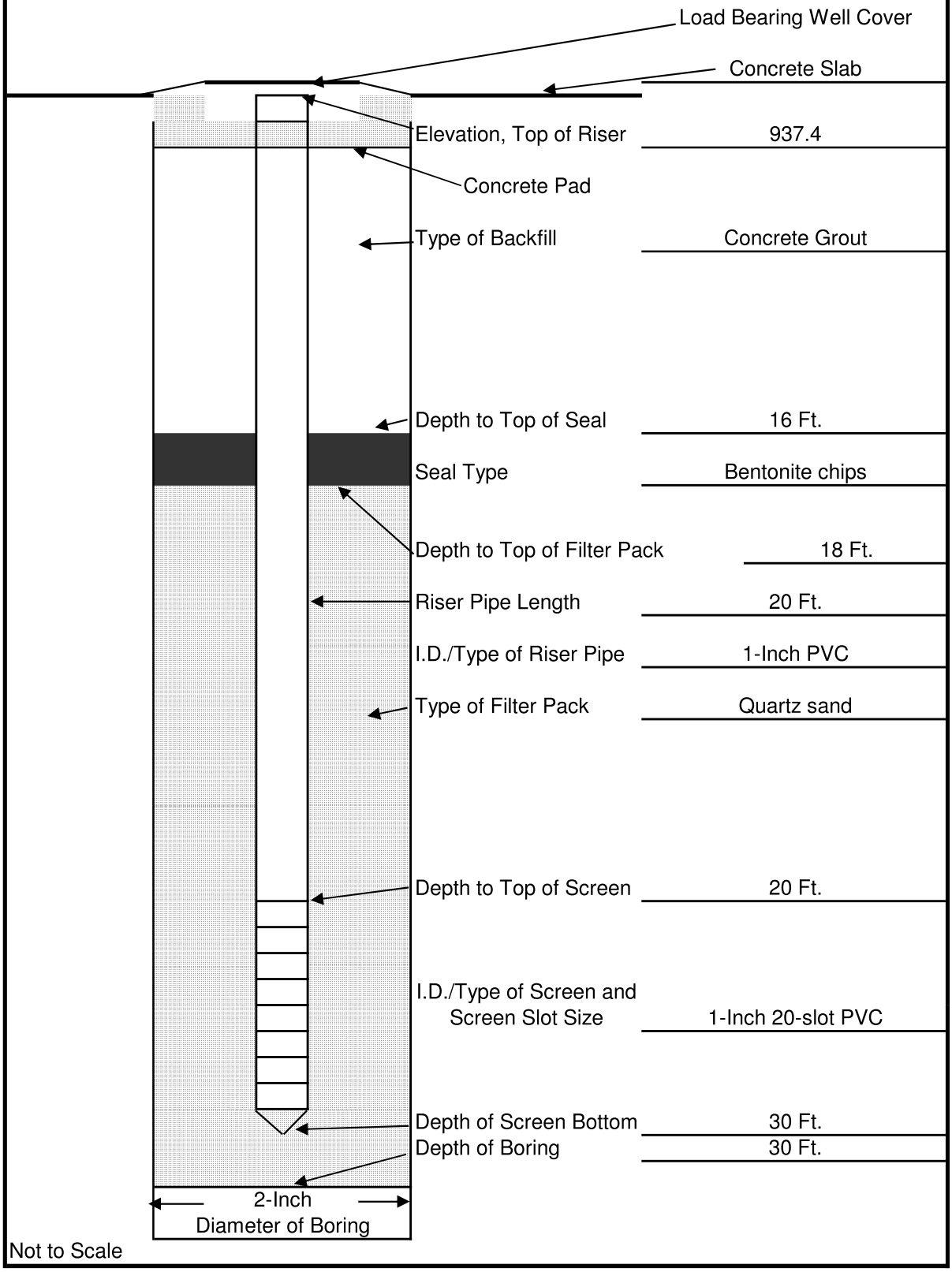
Not to Scale

TW2

Well ID	IW17

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/15/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



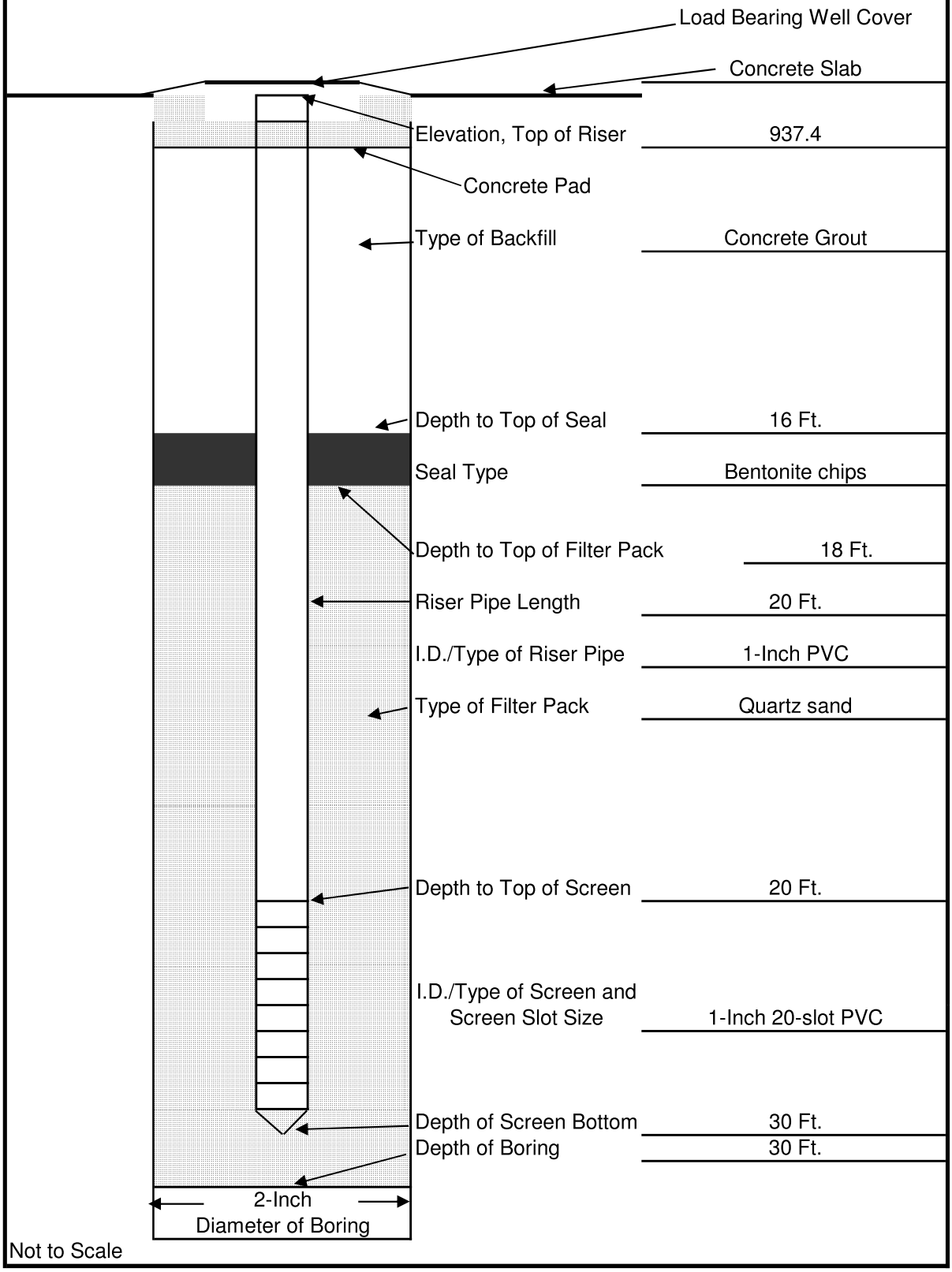
Not to Scale

TW2

Well ID	IW18

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/15/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



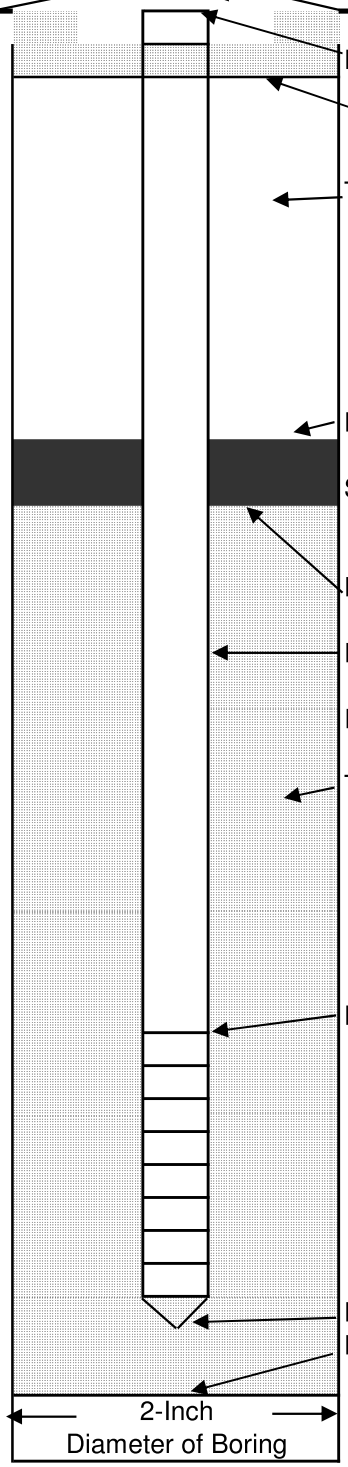
Not to Scale

TW2

Well ID	IW19

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/15/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



Load Bearing Well Cover

Concrete Slab

Elevation, Top of Riser	937.4
Concrete Pad	
Type of Backfill	Concrete Grout
Depth to Top of Seal	16 Ft.
Seal Type	Bentonite chips
Depth to Top of Filter Pack	18 Ft.
Riser Pipe Length	20 Ft.
I.D./Type of Riser Pipe	1-Inch PVC
Type of Filter Pack	Quartz sand
Depth to Top of Screen	20 Ft.
I.D./Type of Screen and Screen Slot Size	1-Inch 20-slot PVC
Depth of Screen Bottom	30 Ft.
Depth of Boring	30 Ft.

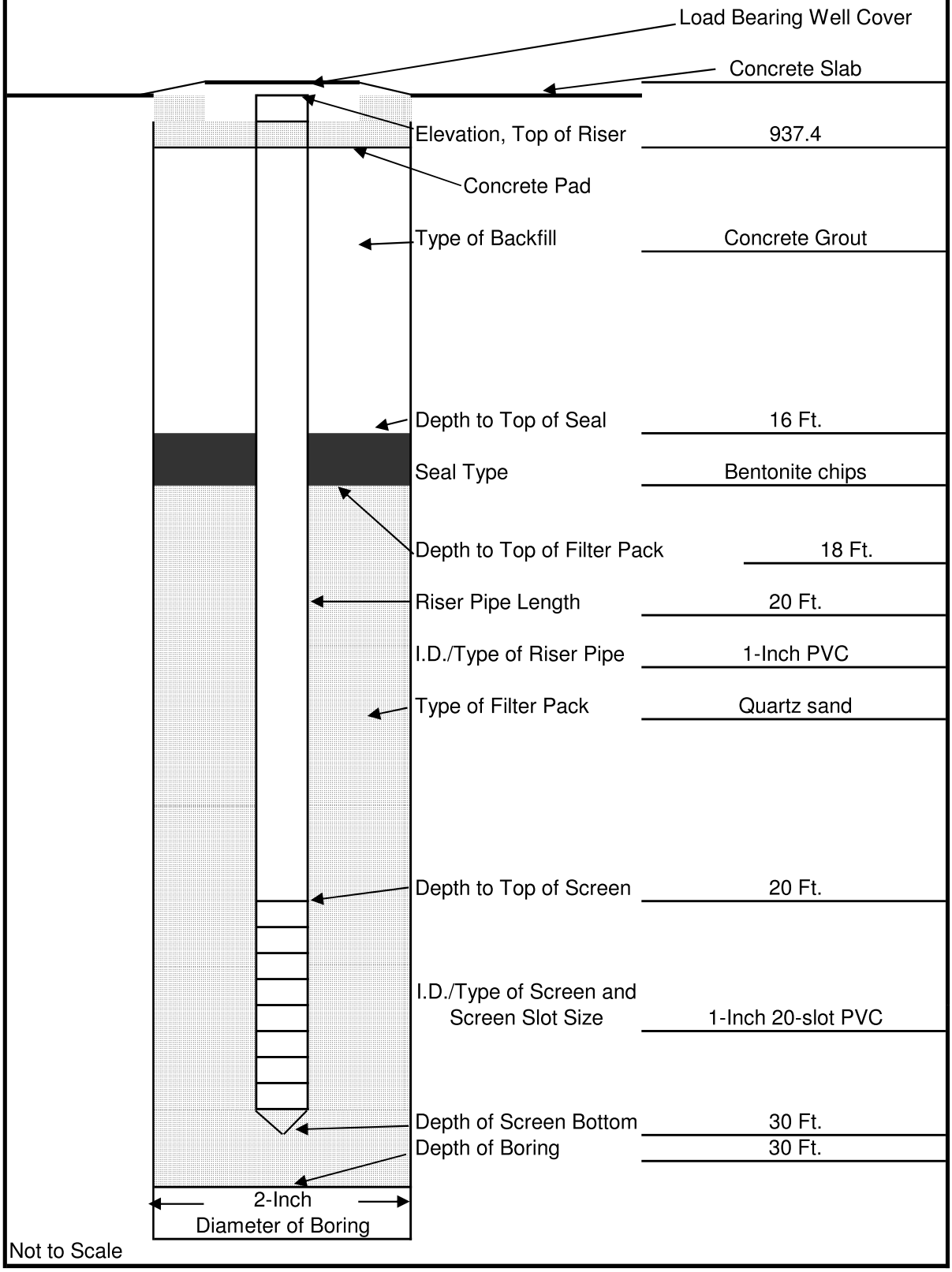
Not to Scale

TW2

Well ID	IW20

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/15/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



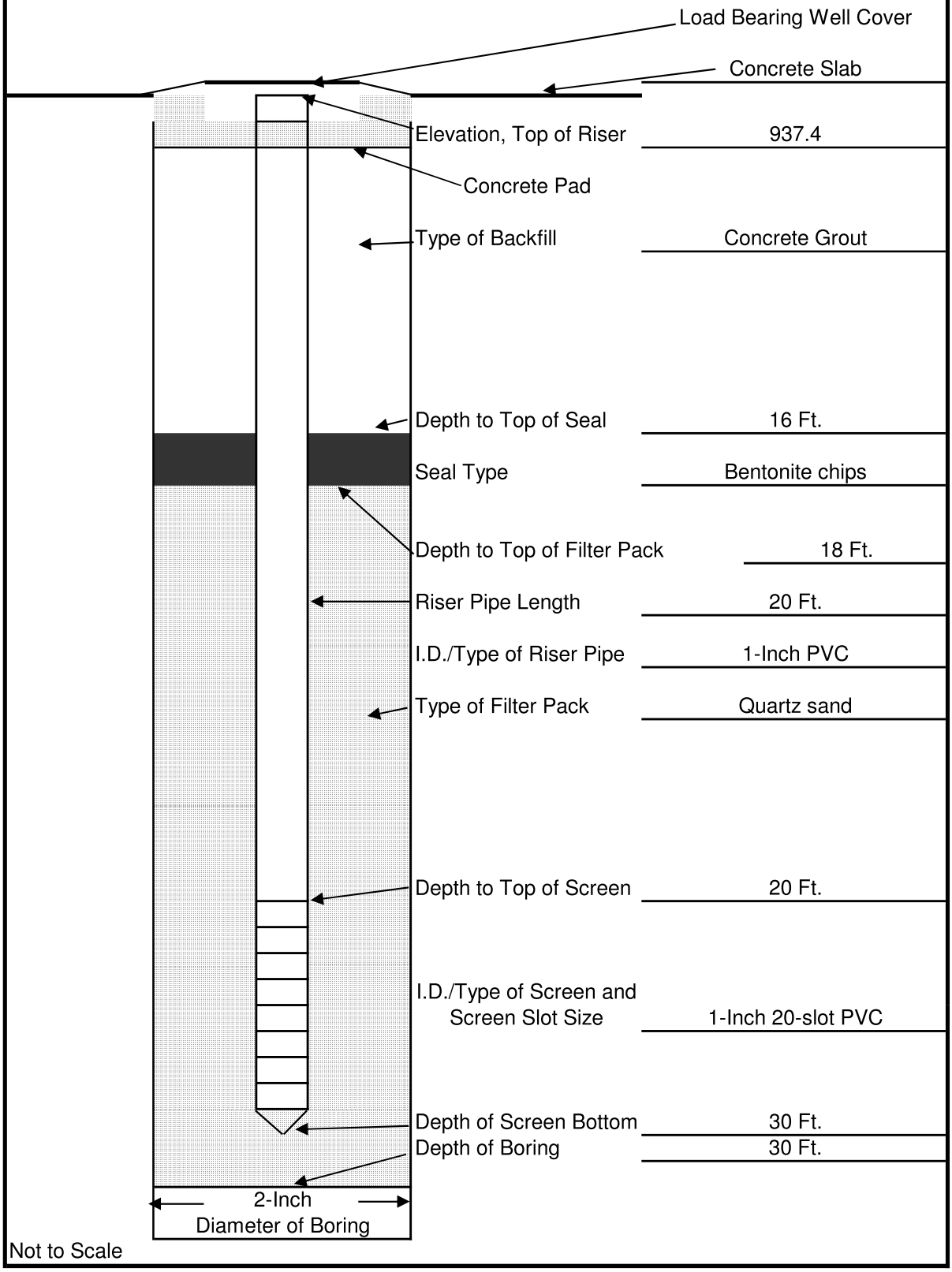
Not to Scale

TW2

Well ID	IW21

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/16/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



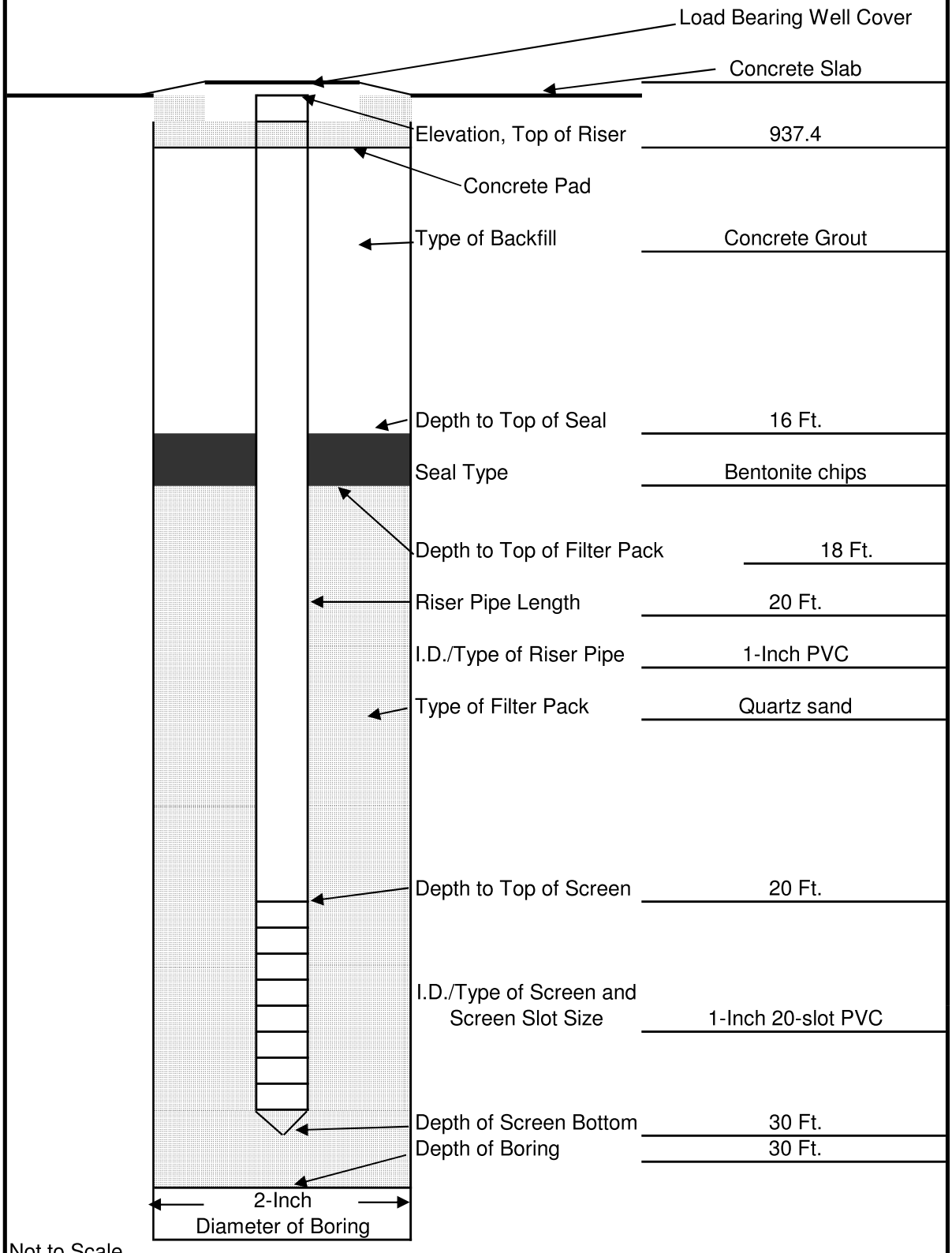
Not to Scale

TW2

Well ID	IW23

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/16/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



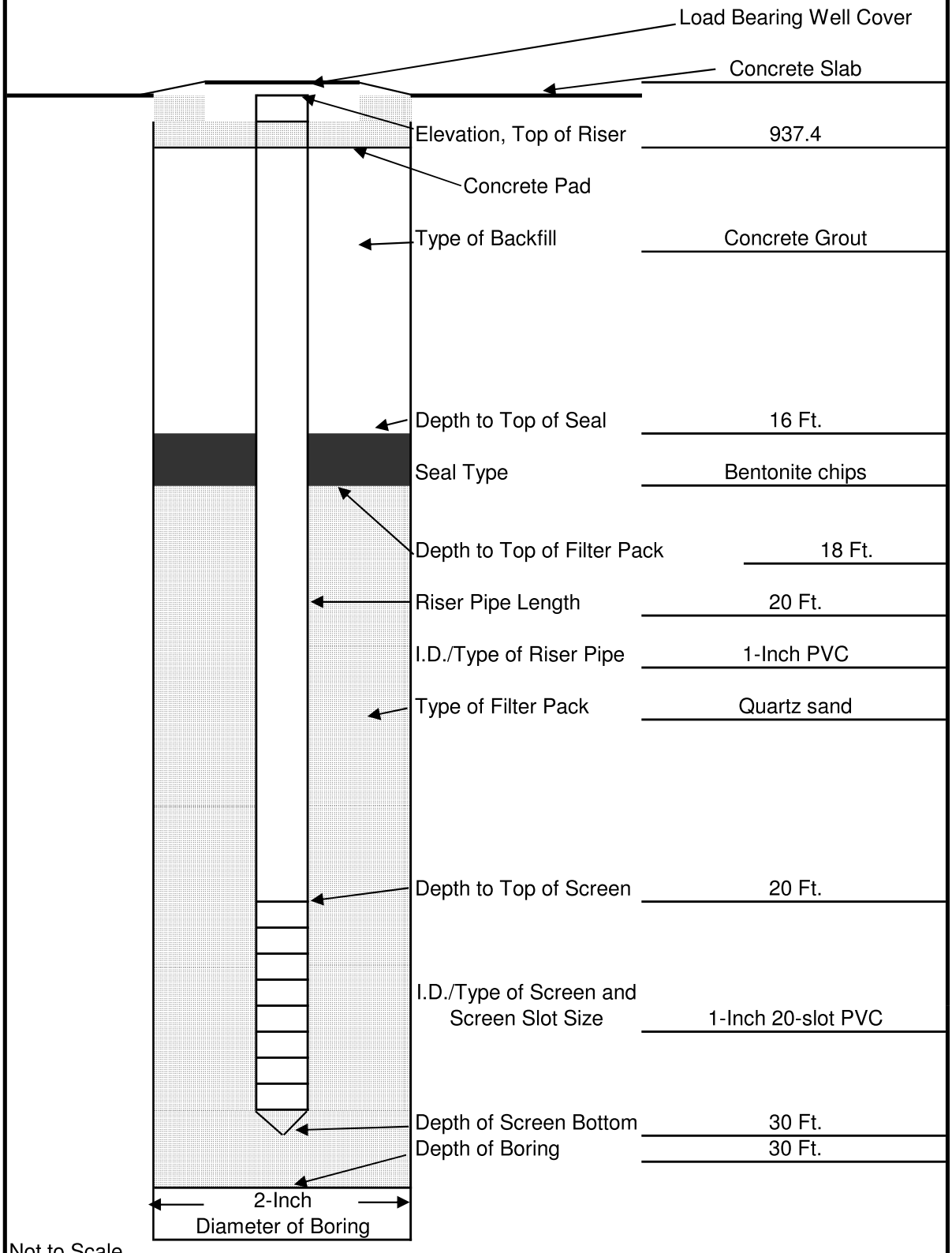
Not to Scale

TW2

Well ID	IW24

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/16/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



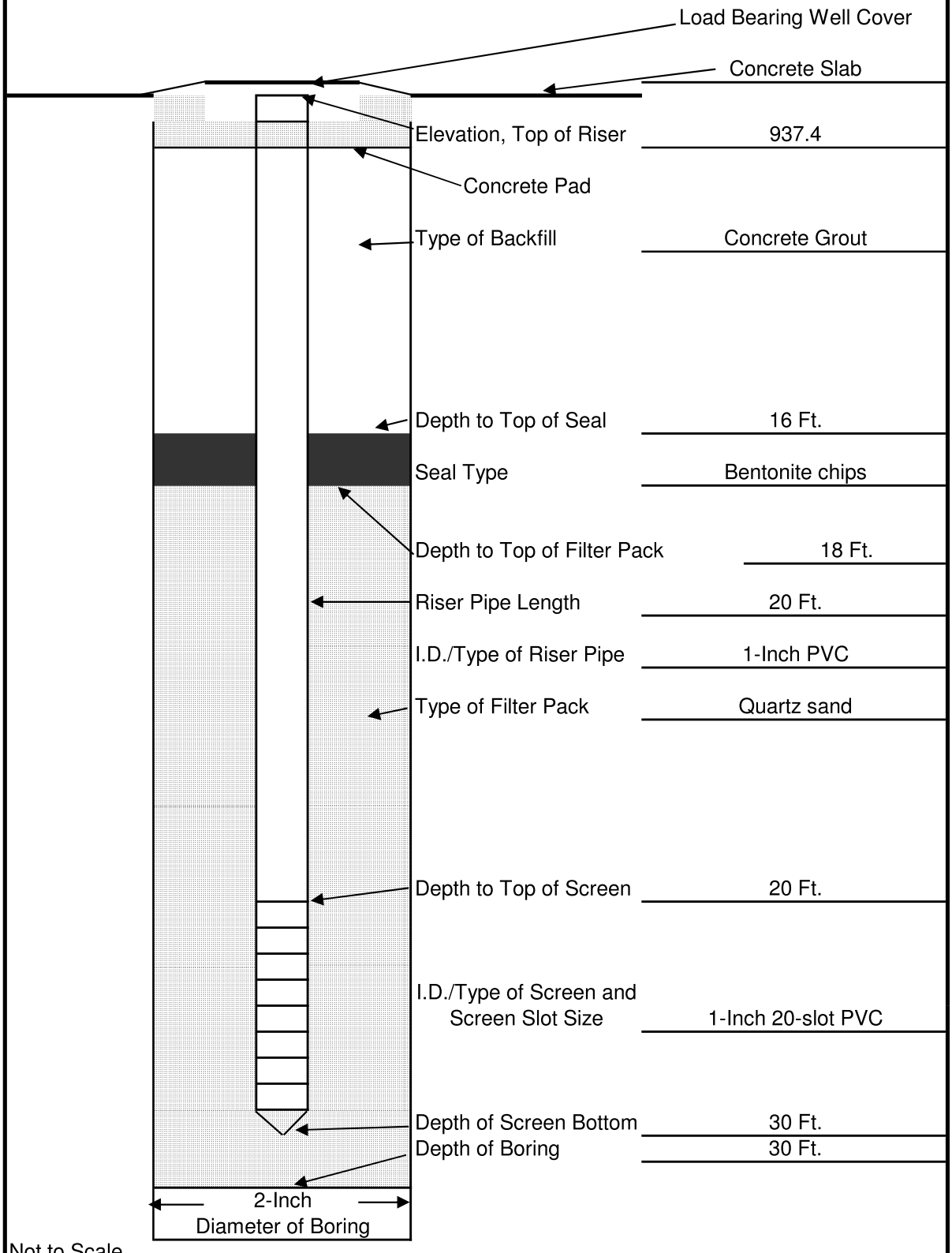
Not to Scale

TW2

Well ID	IW25

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/16/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



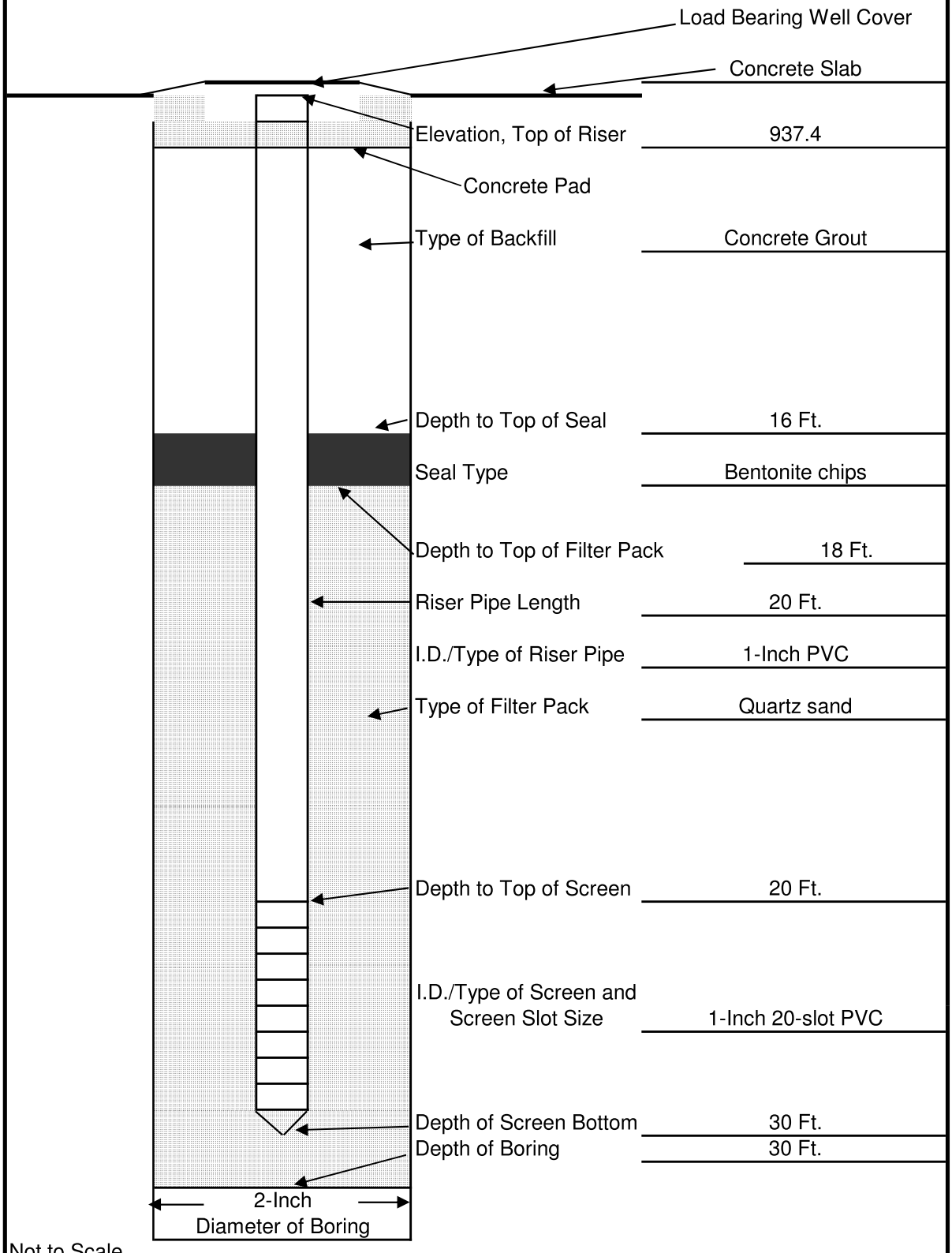
Not to Scale

TW2

Well ID	IW26

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/16/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



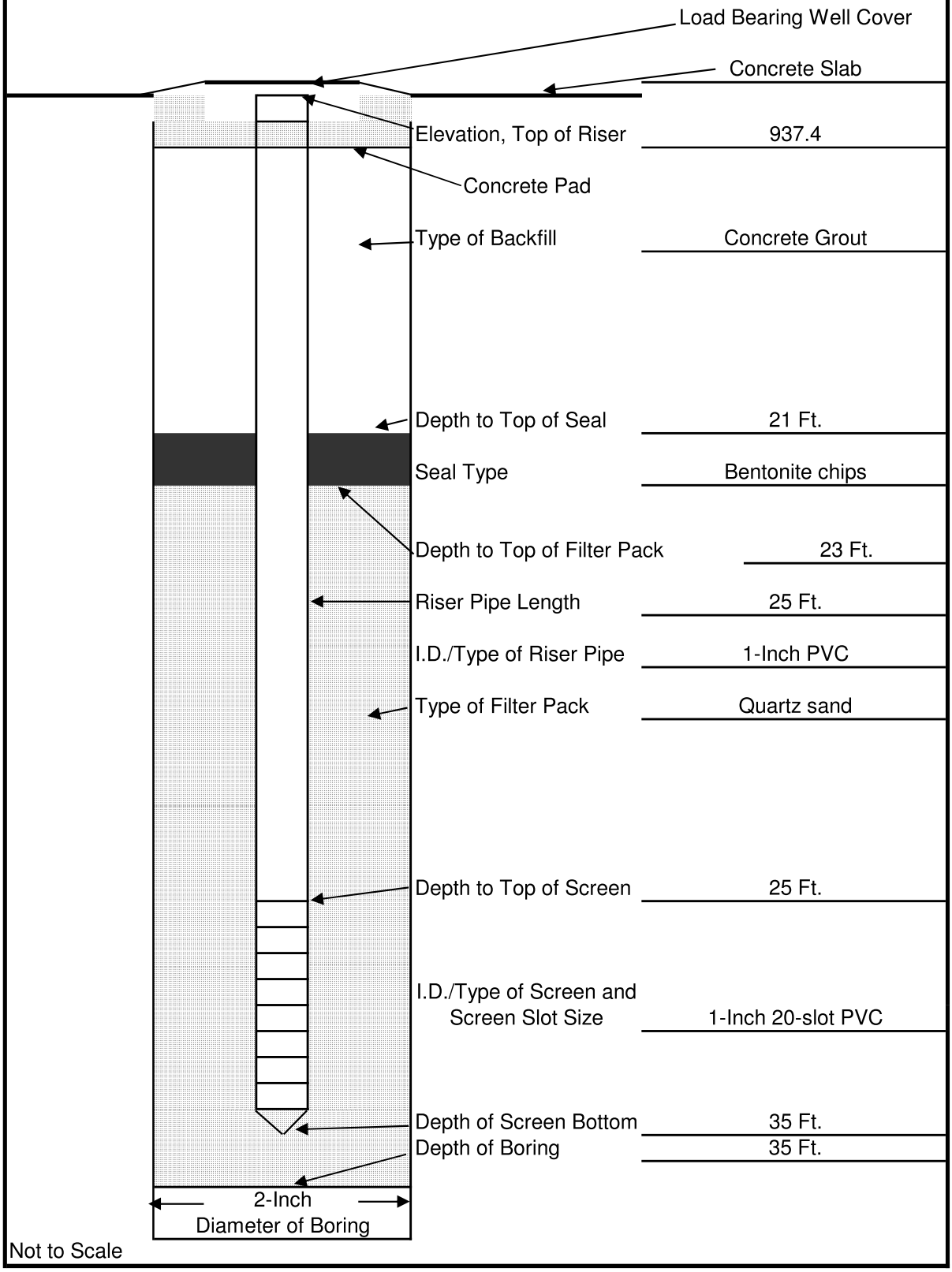
Not to Scale

TW2

Well ID	IW27

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/17/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



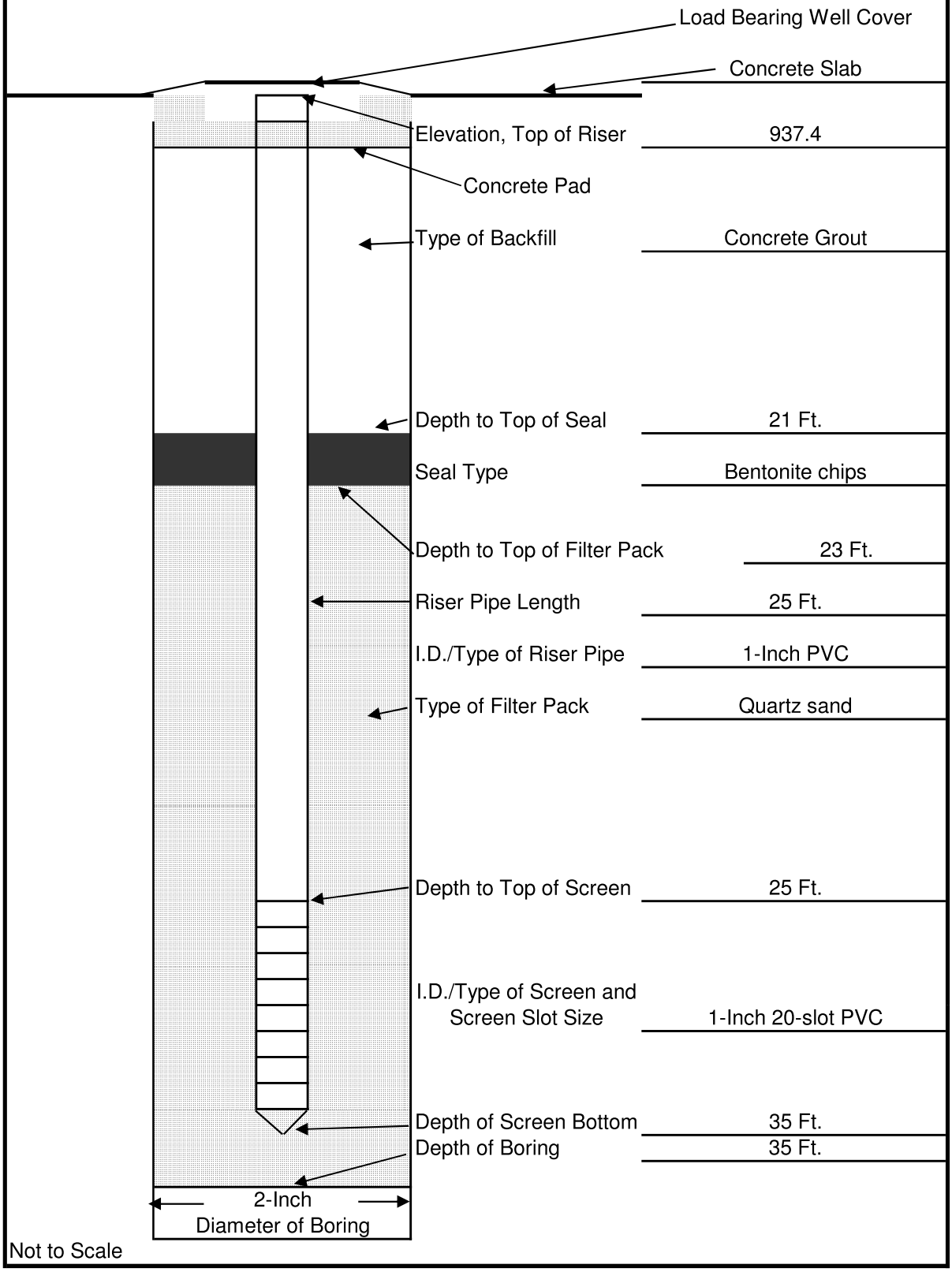
Not to Scale

TW2

Well ID	IW28

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/17/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



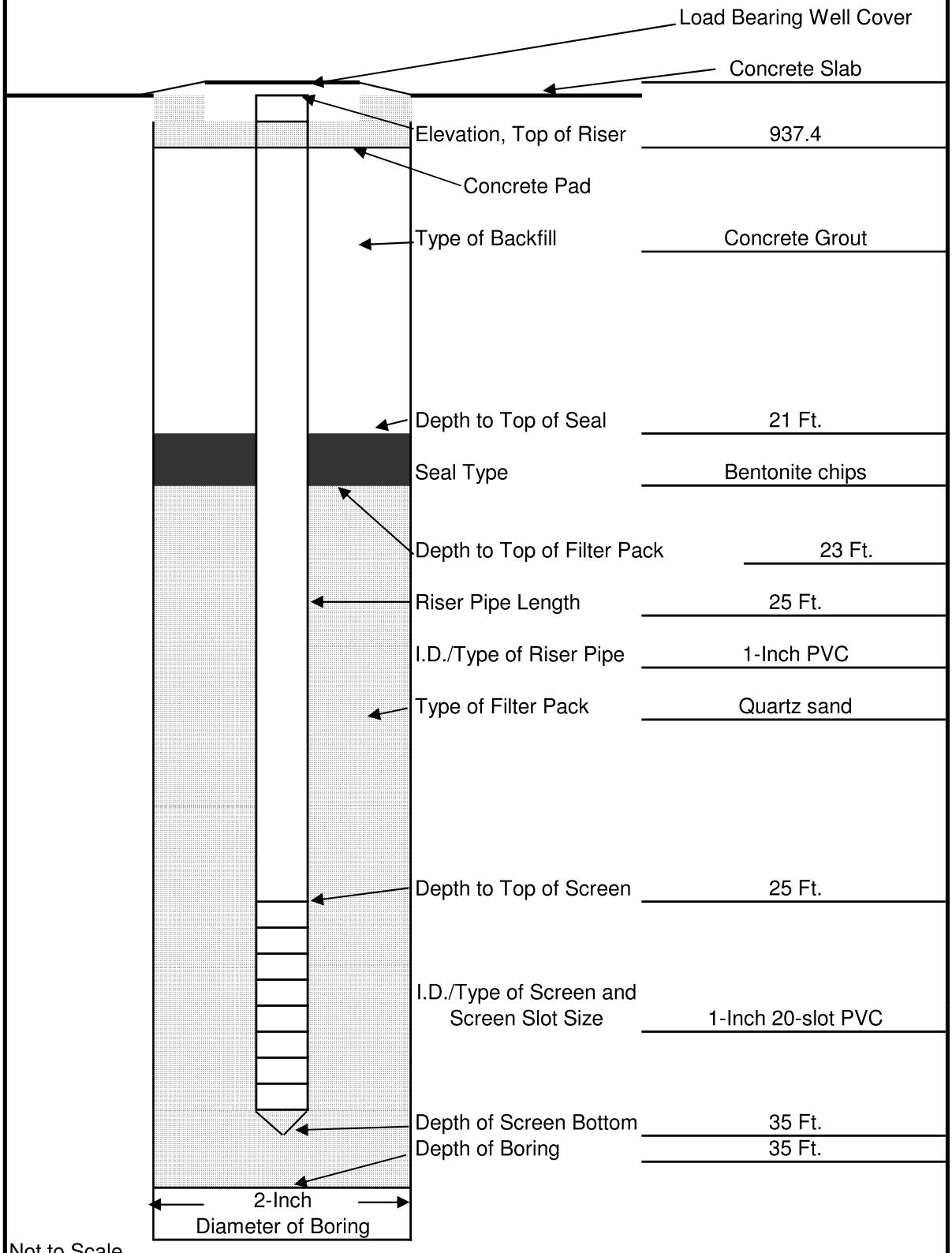
Not to Scale

TW2

Well ID	IW29

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/17/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



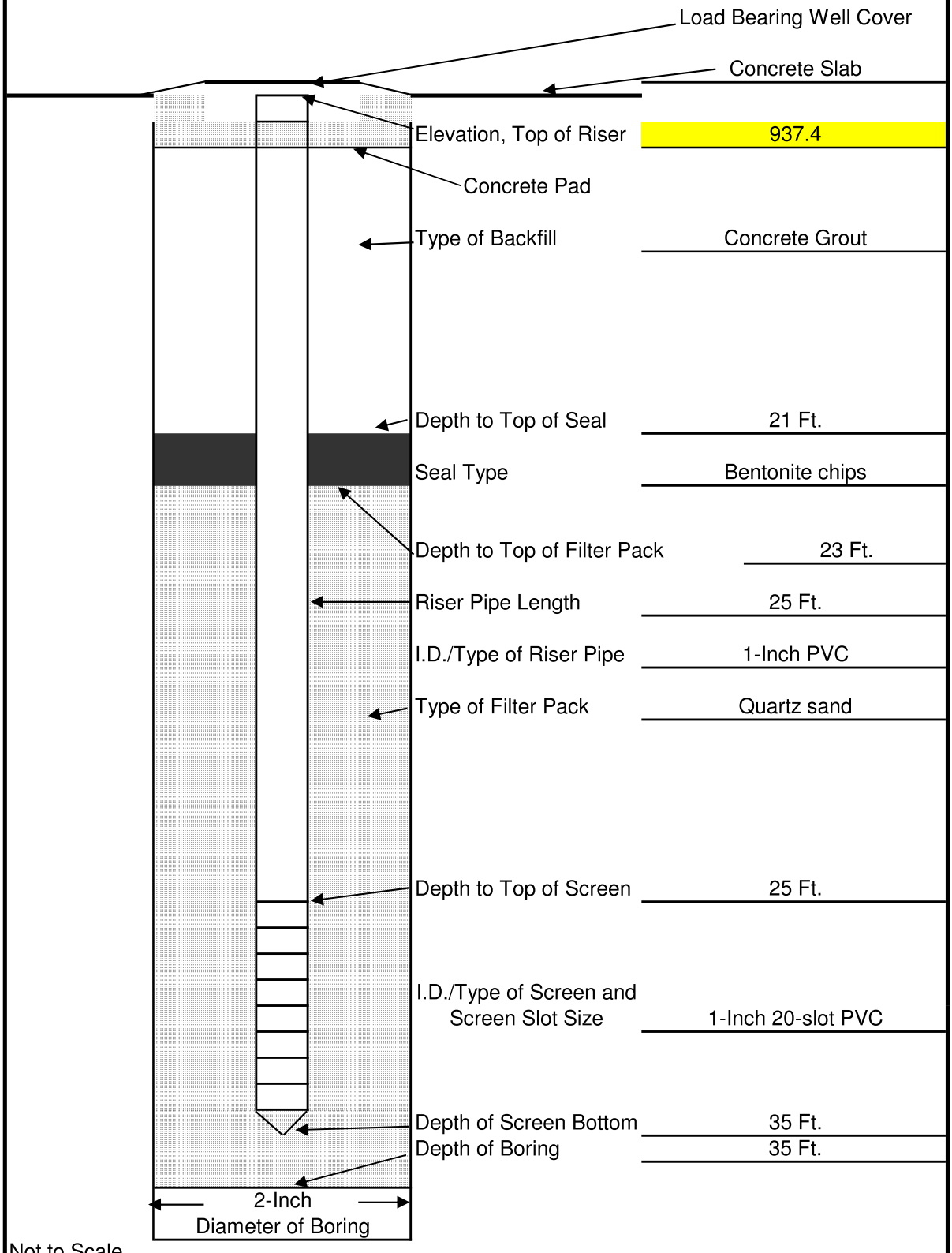
Not to Scale

TW2

Well ID	IW30

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/17/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



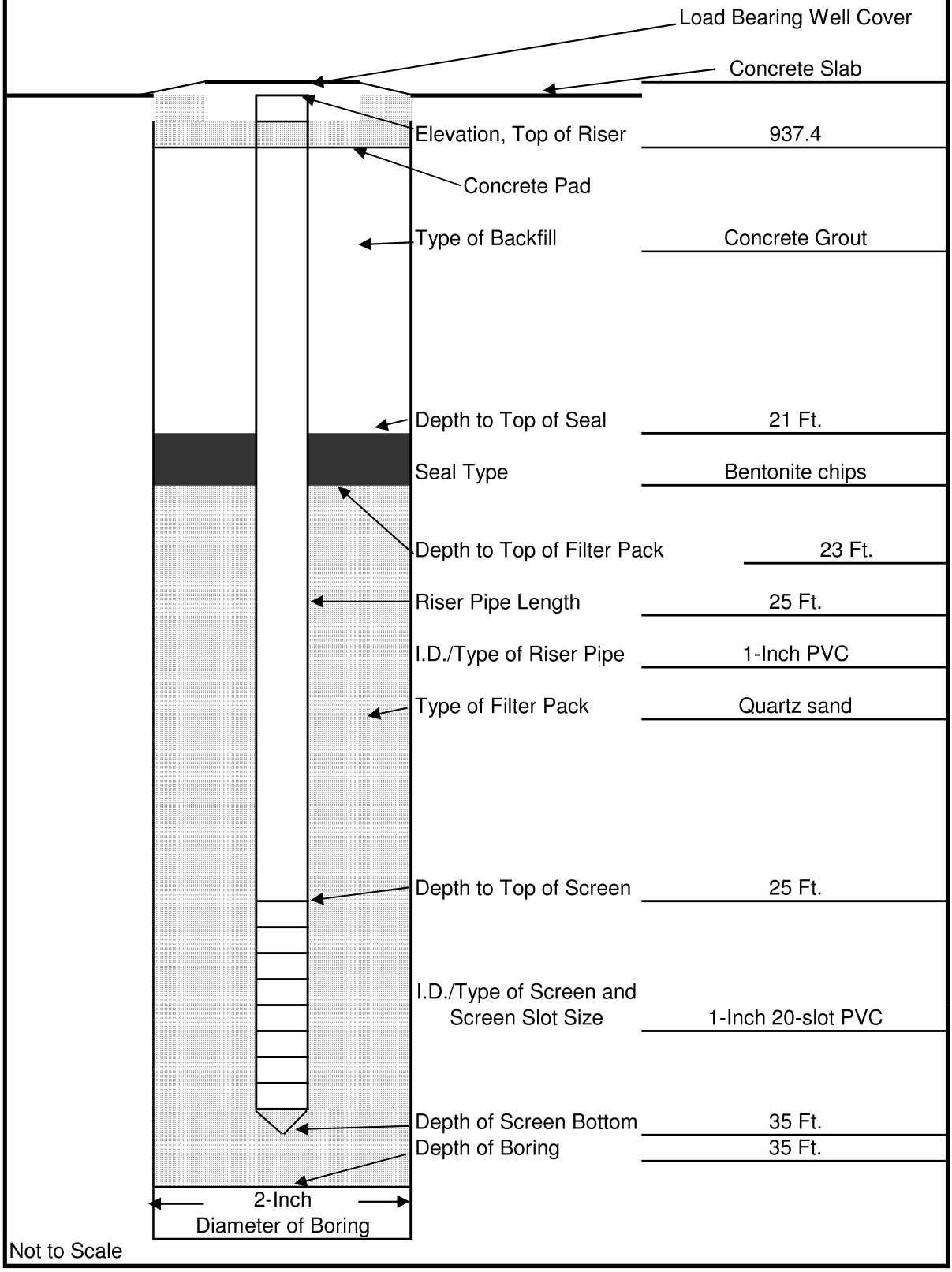
Not to Scale

TW2

Well ID	IW31

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/17/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



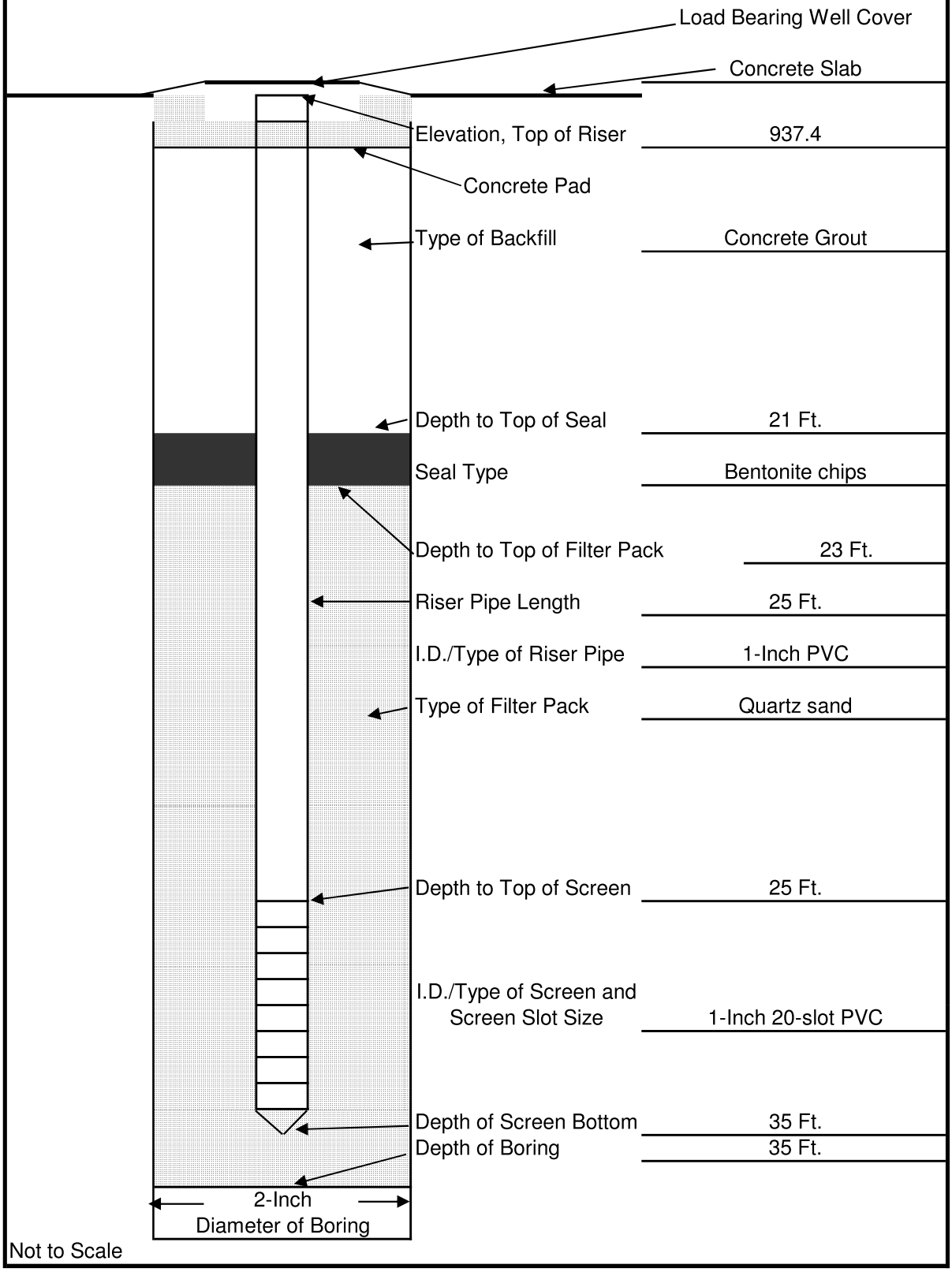
Not to Scale

TW2

Well ID	IW32

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/17/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



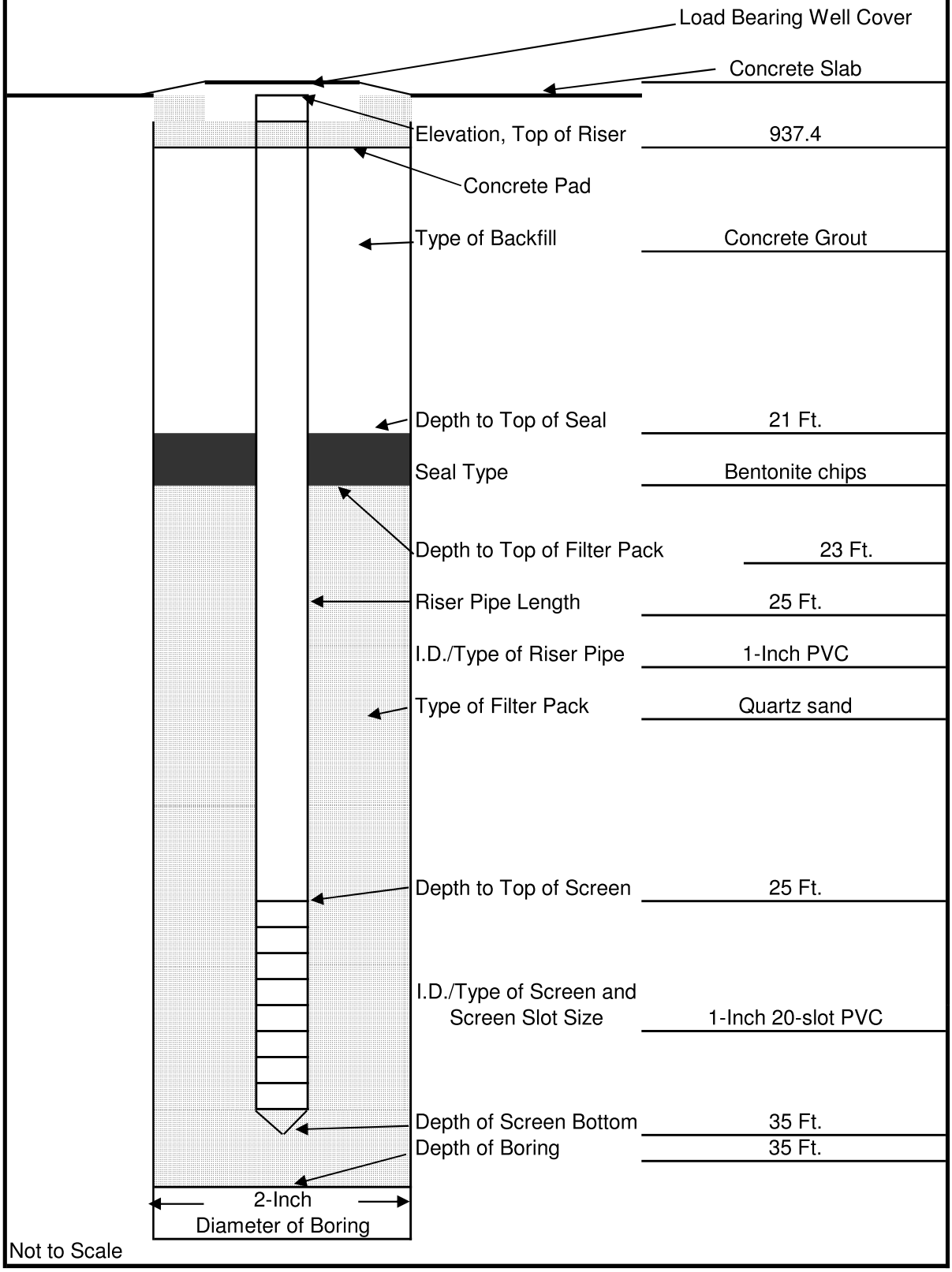
Not to Scale

TW2

Well ID	IW34

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/18/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



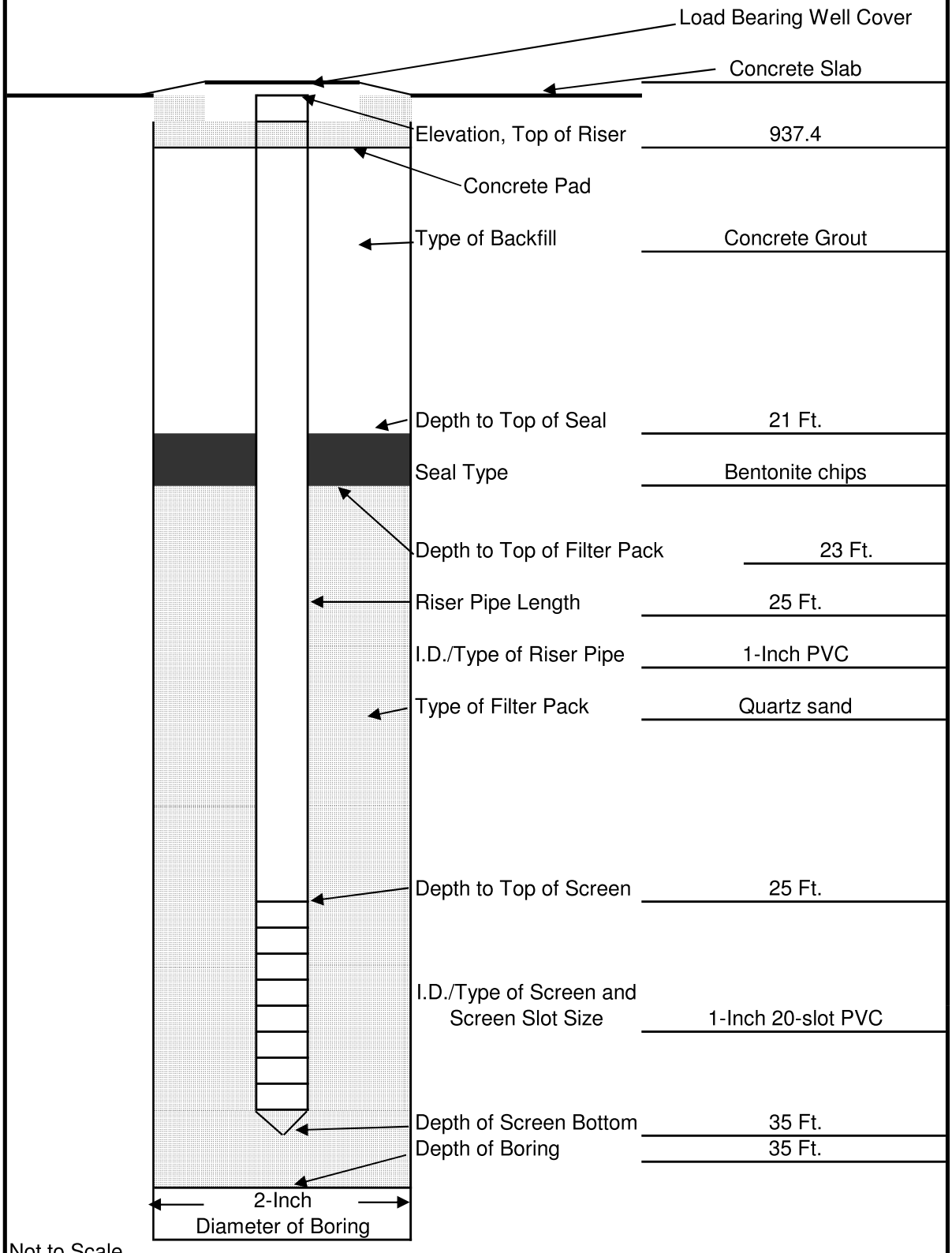
Not to Scale

TW2

Well ID	IW35

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/18/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



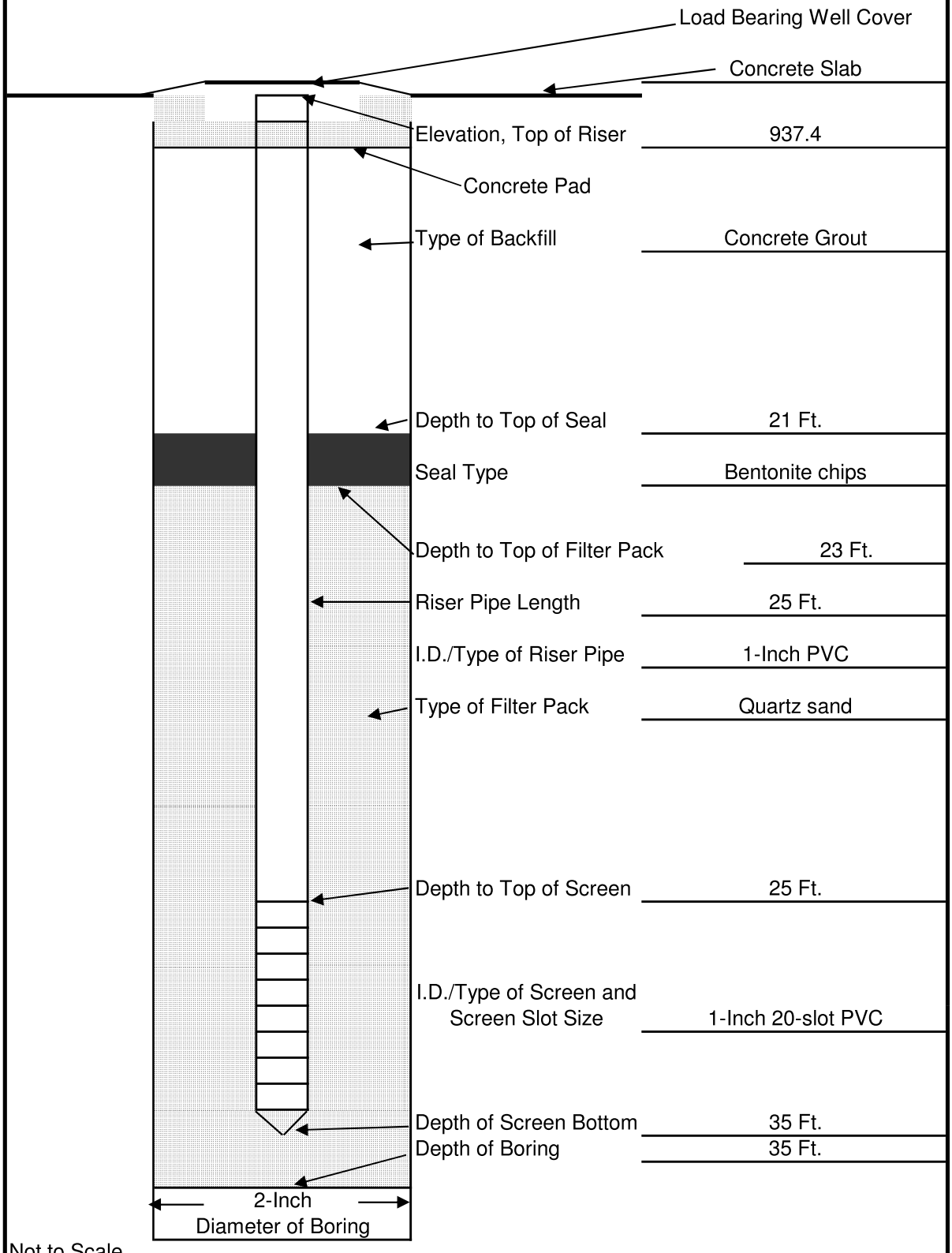
Not to Scale

TW2

Well ID	IW38

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/18/13
Inspected By:	Jeff Dennis	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



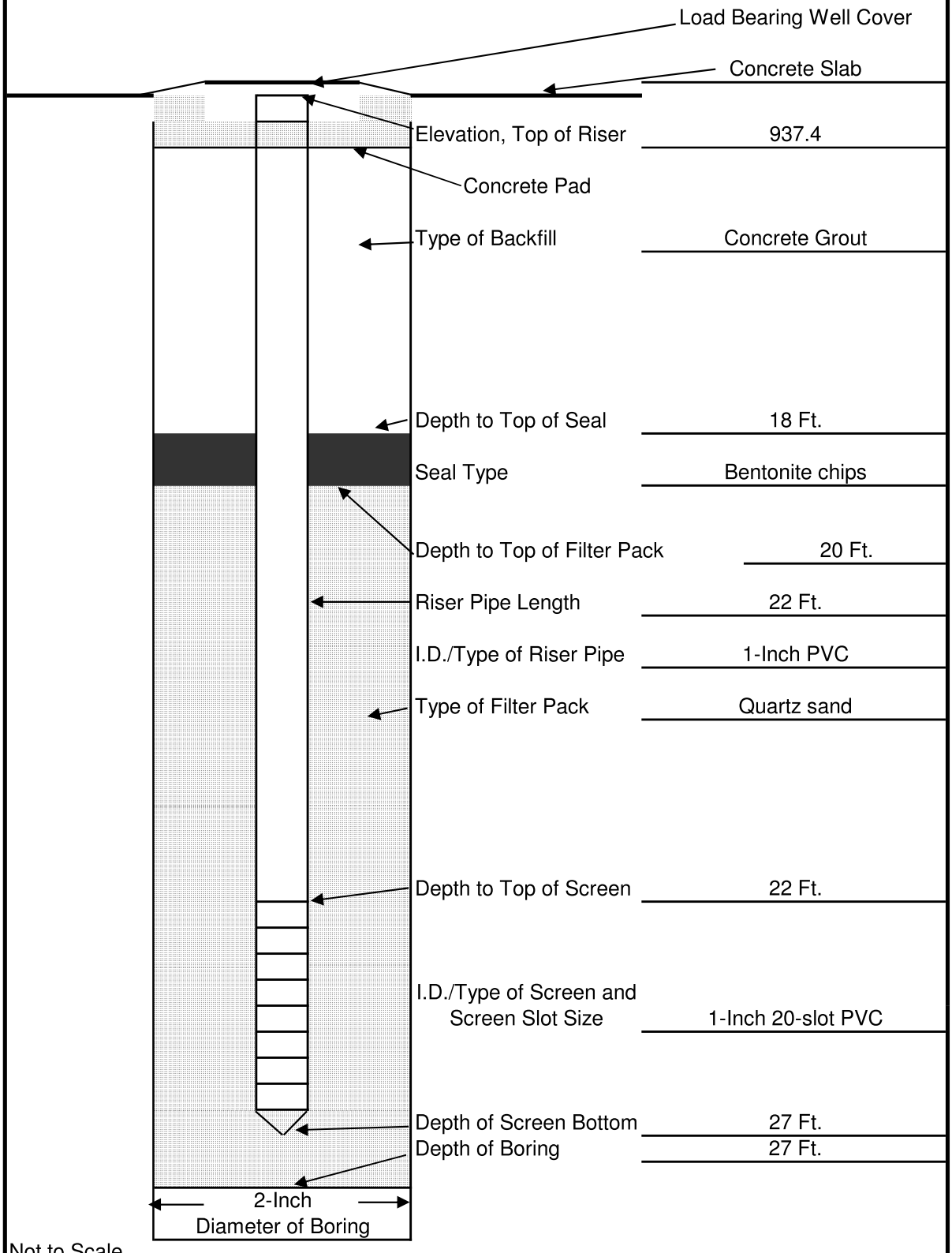
Not to Scale

TW2

Well ID	IW39

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/22/13
Inspected By:	Thomas Watson	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



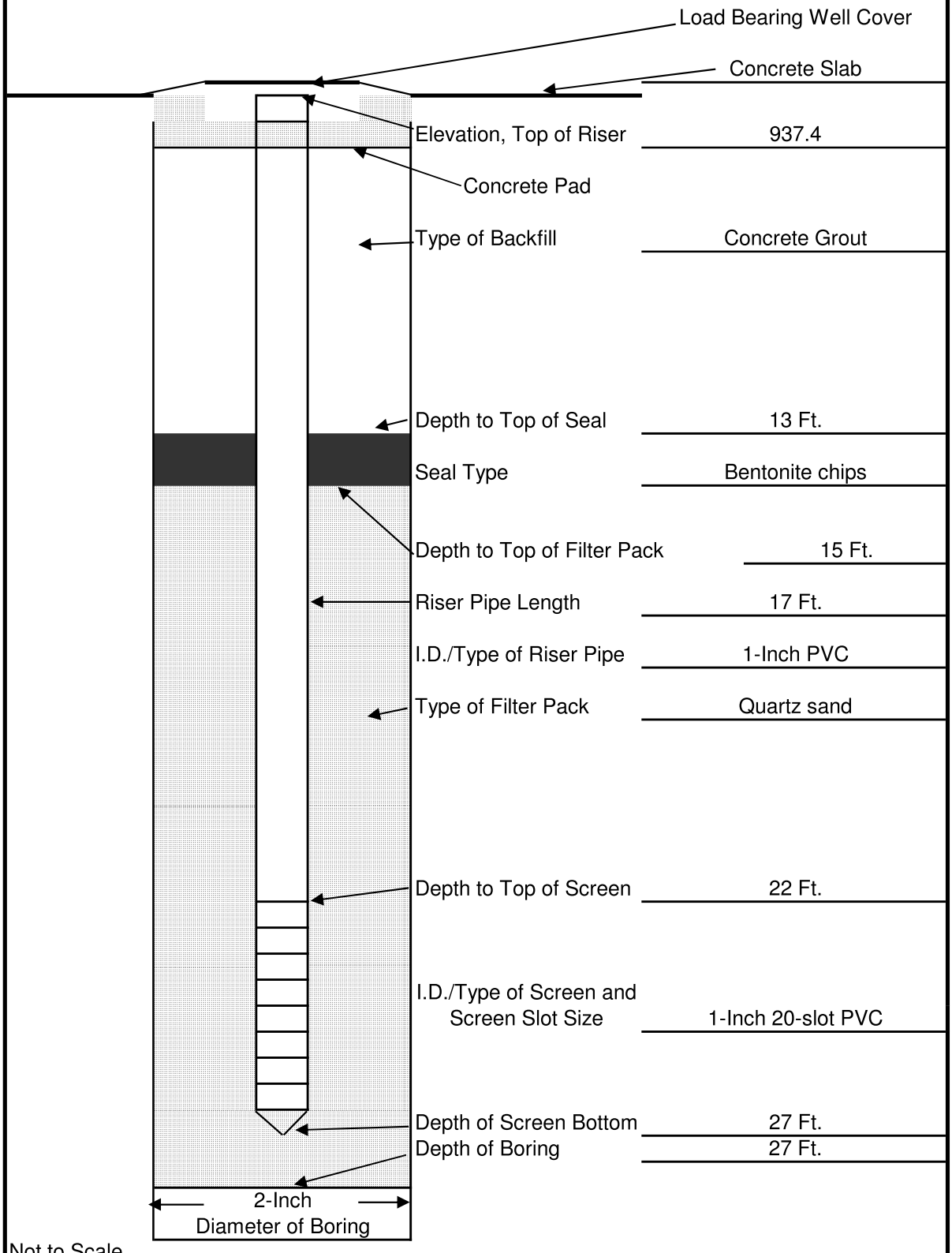
Not to Scale

TW2

Well ID	IW40

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/22/13
Inspected By:	Thomas Watson	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



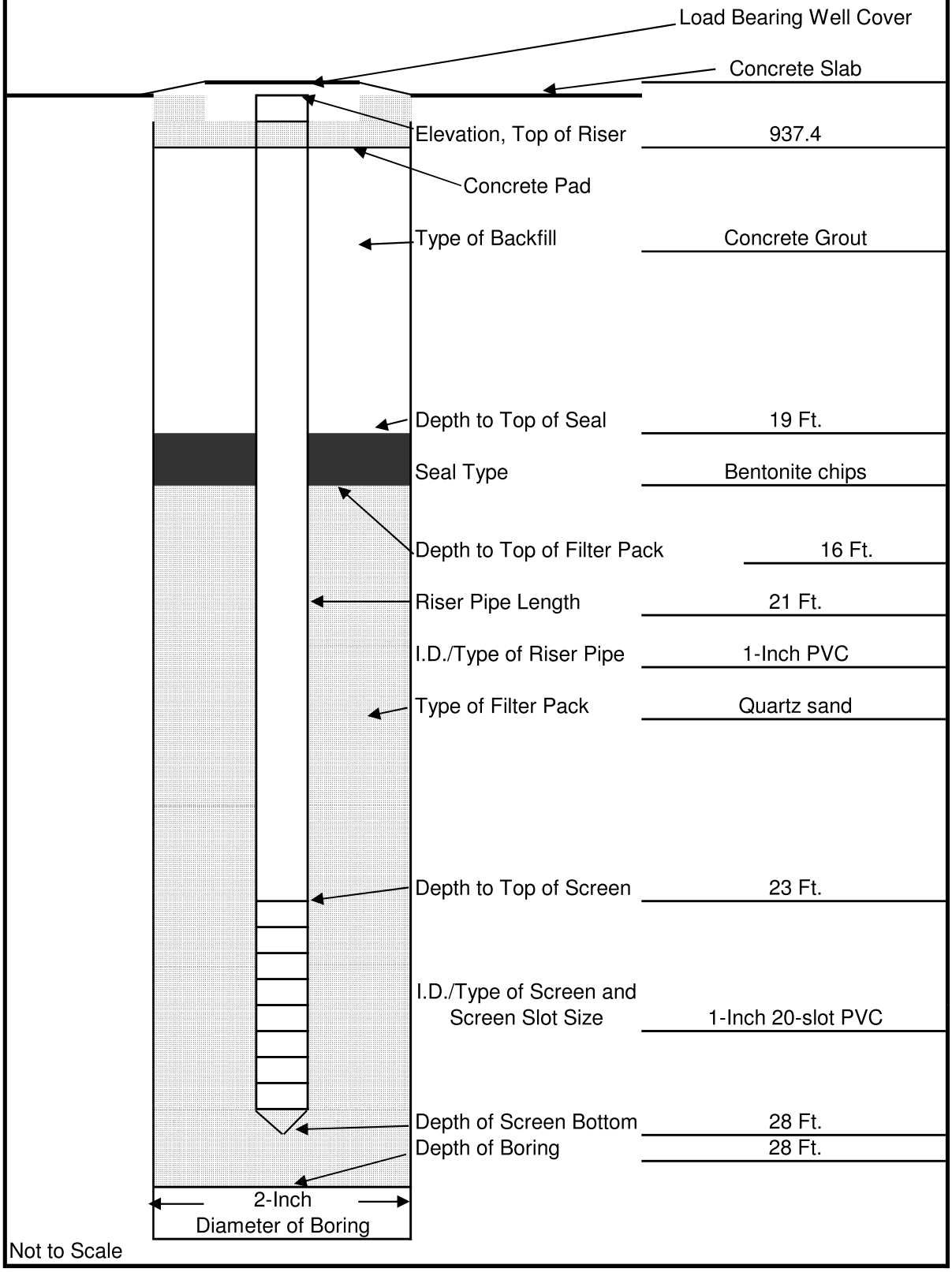
Not to Scale

TW2

Well ID	IW41

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/22/13
Inspected By:	Thomas Watson	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



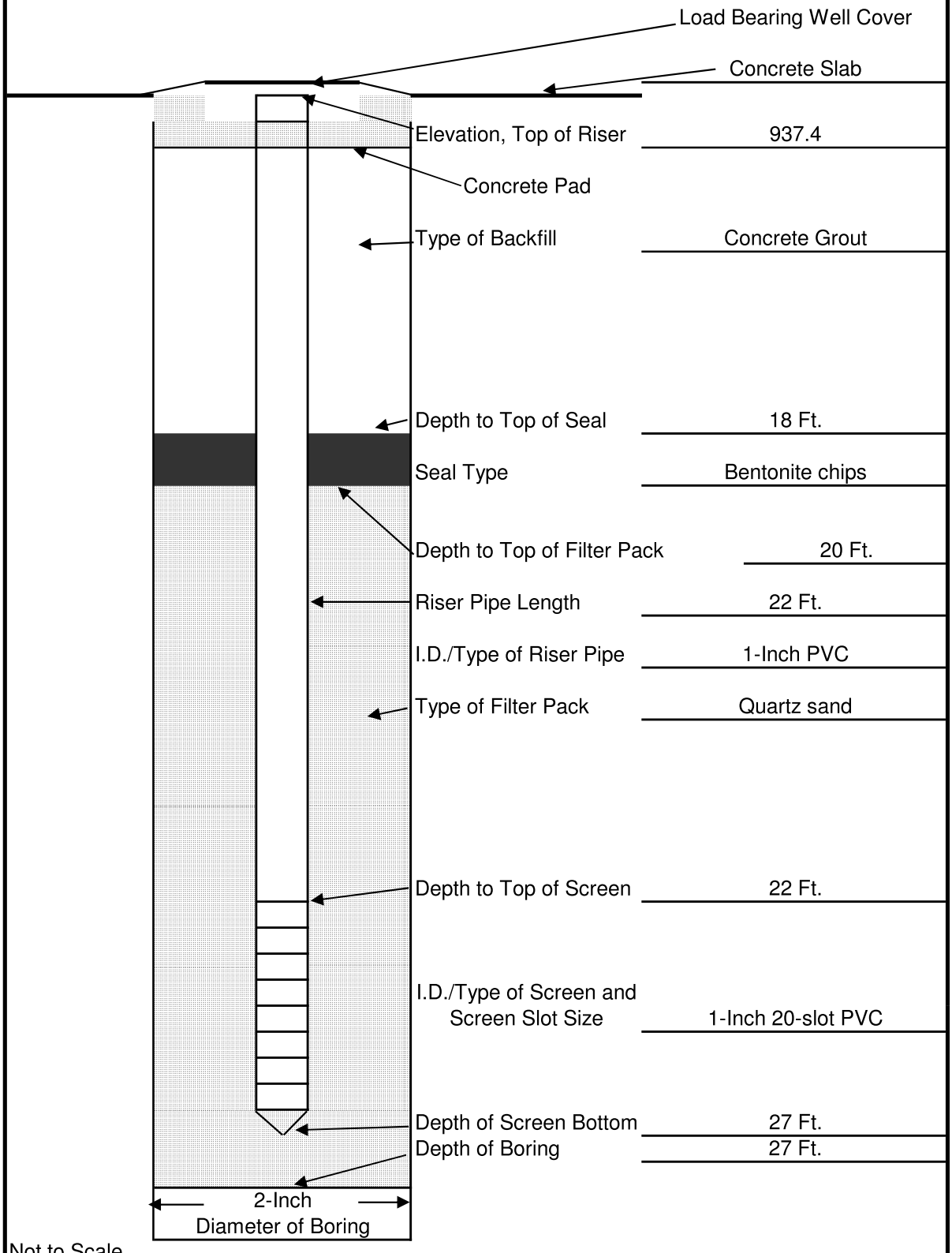
Not to Scale

TW2

Well ID	IW42

INJECTION WELL CONSTRUCTION REPORT

Project Name:	Bon L Groundwater Remediation	Project #	Injection Well
Location:	Newnan, GA inside Bldg. shipping area	Task #	GW Remediation
Installed By:	Geo Lab	Date Installed:	04/22/13
Inspected By:	Thomas Watson	Remarks:	
Method of Installation:	Drive Point, Geoprobe 66DTR		



Not to Scale

ENVIRONMENTAL WELL

PROJECT NUMBER 6123150040	**DRILLING COMPANY** Atlas Geo Sampling Compa	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER**	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG**	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** HSA	**WELL TOC**
DRILLING DATE January 2016	**TOTAL DEPTH** 45'	**LOGGED BY** FKM
LICENCE NO.	**DIAMETER** 1"	**CHECKED BY**

COMPLETION Surface	**CASING** PVC	**SCREEN** 0.020

COMMENTS IW43

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
2		0 ppm											44
4													42
6													40
8													38
10													36
12													34
14													32
16		0 ppm											30
18													28
20													26
22	Hollow Stem Auger												24
24													22
26													20
28		321 ppm											18
30													16
32													14
34													12
36													10
38													8
40													6
42													4
44													2
46													0
48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123150040	**DRILLING COMPANY** Atlas Geo Sampling Compa	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER**	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG**	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** HSA	**WELL TOC**
DRILLING DATE January 2016	**TOTAL DEPTH** 45.5'	**LOGGED BY** FKM
LICENCE NO.	**DIAMETER** 1"	**CHECKED BY**

COMPLETION Surface	**CASING** PVC	**SCREEN** 0.020"

COMMENTS IW44

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
2	Hollow Stem Auger	0 ppm											44
4													42
6													40
8													38
10													36
12													34
14													32
16		0 ppm											30
18													28
20													26
22													24
24													22
26		0 ppm											20
28													18
30													16
32													14
34													12
36													10
38													8
40													6
42													4
44													2
46													0
48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123150040	**DRILLING COMPANY** Atlas Geo Sampling Compa	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER**	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG**	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** HSA	**WELL TOC**
DRILLING DATE January 2016	**TOTAL DEPTH** 45.5'	**LOGGED BY** FKM
LICENCE NO.	**DIAMETER** 1"	**CHECKED BY**

COMPLETION Surface **CASING** PVC **SCREEN** 0.020"

COMMENTS IW45

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
2	Hollow Stem Auger	0 ppm											44
4													42
6													40
8													38
10													36
12													34
14													32
16		0 ppm											30
18													28
20													26
22													24
24													22
26		62 ppm											20
28													18
30													16
32													14
34													12
36													10
38													8
40													6
42													4
44													2
46													0
48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123150040	**DRILLING COMPANY** Atlas Geo Sampling Compa	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER**	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG**	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** HSA	**WELL TOC**
DRILLING DATE January 2016	**TOTAL DEPTH** 41'	**LOGGED BY** FKM
LICENCE NO.	**DIAMETER** 1"	**CHECKED BY**

COMPLETION Surface	**CASING** PVC	**SCREEN** 0.020"

COMMENTS IW46

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
2	Hollow Stem Auger	0 ppm											44
4													42
6													40
8													38
10													36
12													34
14		0 ppm											32
16													30
18													28
20													26
22													24
24		0 ppm											22
26													20
28													18
30													16
32													14
34													12
36													10
38													8
40													6
42													4
44													2
46													0
48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123150040	**DRILLING COMPANY** Atlas Geo Sampling Compa	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER**	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG**	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** HSA	**WELL TOC**
DRILLING DATE January 2016	**TOTAL DEPTH** 39'	**LOGGED BY** FKM
LICENCE NO.	**DIAMETER** 1"	**CHECKED BY**

COMPLETION Surface	**CASING** PVC	**SCREEN** 0.020"

COMMENTS IW47

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
2	Hollow Stem Auger	0 ppm											44
4													42
6													40
8													38
10													36
12													34
14		0 ppm											32
16													30
18													28
20													26
22													24
24		0 ppm											22
26													20
28													18
30													16
32													14
34													12
36													10
38													8
40													6
42													4
44													2
46													0
48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123150040	**DRILLING COMPANY** Atlas Geo Sampling Compa	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER**	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG**	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** HSA	**WELL TOC**
DRILLING DATE January 2016	**TOTAL DEPTH** 38'	**LOGGED BY** FKM
LICENCE NO.	**DIAMETER** 1"	**CHECKED BY**

COMPLETION Surface	**CASING** PVC	**SCREEN** 0.020"

COMMENTS IW48

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
2		0 ppm											44
4													42
6													40
8													38
10													36
12													34
14		0 ppm											32
16													30
18													28
20													26
22	Hollow Stem Auger												24
24													22
26													20
28		6 ppm											18
30													16
32													14
34													12
36													10
38													8
40													6
42													4
44													2
46													0
48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123170391	**DRILLING COMPANY** Atlas Geo Sampling Co.	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER** Tim	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG** Power Probe 9500 VTR	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** DPT/HSA	**WELL TOC**
DRILLING DATE March 19, 2017	**TOTAL DEPTH** 39'	**LOGGED BY** Ferdinand Mayila
LICENCE NO.	**DIAMETER** 2"	**CHECKED BY**

COMPLETION Surface	**CASING** PVC	**SCREEN** 0.020"

COMMENTS IW49

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0									Concrete slab - use hand auger to excavate to 4'				44
2													
4									Brown clayey SILT, moist				42
6		0 ppm											40
8									Brown, micaceous, clayey SILT, changes to silty CLAY				38
10		0 ppm											36
12									Purple to red silty CLAY with layers of fine to medium SAND				34
14	Direct push	0 ppm											32
16									Brown, very moist, silty CLAY, intermixed with lenses of SILT				30
18		0.7 ppm											28
20									Brown to grey silty CLAY, rock fragments, organic matter (23'-24'), roots, wood, very moist, wet				26
22		0 ppm											24
24									Grey, dark grey, wet clayey medium SAND, partially weathered rock (27'-28')				22
26													20
28									Encountered refusal with DPT at 28' bgs, switch to hollow stem augers, encountered refusal at 39' bgs				18
30													16
32													14
34	Hollow stem auger												12
36													10
38													8
40													6
42													4
44													2
46													0
48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123170391	**DRILLING COMPANY** Atlas Geo Sampling Co.	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER** Tim	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG** Power Probe 9500 VTR	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** DPT/SSA	**WELL TOC**
DRILLING DATE March 19, 2017	**TOTAL DEPTH** 44'	**LOGGED BY** Ferdinand Mayila
LICENCE NO.	**DIAMETER** 2"	**CHECKED BY**

COMPLETION Surface	**CASING** PVC	**SCREEN** 0.020"

COMMENTS IW50

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0–2									Concrete slab - use hand auger to excavate to 4'				44
2–4													42
4–6		5.7 ppm							Red, moist CLAY grading micaceous SILT				40
6–8													38
8–10		1.8 ppm							Red, moist clayey SILT				36
10–12													34
12–14									Red, moist, silty CLAY, micaceous				32
14–16	Direct push												30
16–18									Red, moist, silty CLAY, micaceous, (19'-20') grey, very moist, silty CLAY				28
18–20													26
20–22									Dark grey, very moist, clayey SAND intermixed with CLAY zones, gravel layer (3") at 22', organic matter at 23'-24', wood fragments				24
22–24													22
24–26		No PID reading due to moistur in bags							Dark grey (24'-25'), silty CLAY, very moist/wet and soft, 25'-28' brown interlayered, brown and light brown, sandy SILT, saprolite				20
26–28													18
28–30									Encountered refusal with DPT at 28' bgs, switch to solid stem augers, encountered refusal with augers at 44' bgs				16
30–32													14
32–34	Solid stem auger												12
34–36													10
36–38													8
38–40													6
40–42													4
42–44													2
44–46													0
46–48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123170391	**DRILLING COMPANY** Atlas Geo Sampling Co.	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER** David H	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG** Power Probe 9510	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** DPT/SSA	**WELL TOC**
DRILLING DATE March 19, 2017	**TOTAL DEPTH** 45.7'	**LOGGED BY** Mark Andrews
LICENCE NO.	**DIAMETER** 2"	**CHECKED BY**

COMPLETIONSurface **CASING** PVC **SCREEN** 0.020"

COMMENTS IW51

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
2	Direct push	0 ppm							Concrete slab - use hand auger to excavate to 4'				44
4													42
6		0 ppm							4'-4.6' clayey SILT, red, fine grain, micaceous, 4.6'-5.8' concrete, 5.8' clayey SILT, dark brownish red, fine grain, micaceous				40
8													38
10		0 ppm							8'-8.5' clayey SILT, red, micaceous, fine grain, concrete, rock fragments, 8.5' clayey SILT, dark brownish red, micaceous, fine grain				36
12													34
14		0 ppm							Clayey SILT, brownish red, micaceous, fine grain, 13.8' clayey SILT, purple, micaceous, fine grain, moist				32
16													30
18		0 ppm							16'-17.4' Clayey SILT, purple, micaceous, fine grain, moist, 17.4' clayey SILT, brownish red, micaceous, fine grain, wet				28
20													26
22		0 ppm							20'-20.9' clayey SILT, brownish red, micaceous, fine grain, wet, 20.9'-22' clayey SILT, grey, compacted, fine grain, increasing CLAY, moist, 22' SILT, black and white, very fine grain, 22'-22.3 GRAVEL, rounded, black and white				24
24													22
26		0 ppm							Saprolite, black and white layers, muscovite layers, relic structure, fine grain, SILT				20
28		0 ppm											18
30									Saprolite, black and white layers, encountered refusal with DPT at 30' bgs, switch to solid stem augers, encountered refusal with augers at 45.7' bgs				16
32													14
34													12
36													10
38	Solid stem auger												8
40													6
42													4
44													2
46													0
48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123170391	**DRILLING COMPANY** Atlas Geo Sampling Co.	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER** David H	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG** Power Probe 9510	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** DPT/SSA	**WELL TOC**
DRILLING DATE March 19, 2017	**TOTAL DEPTH** 42'	**LOGGED BY** Mark Andrews
LICENCE NO.	**DIAMETER** 2"	**CHECKED BY**

COMPLETION Surface **CASING** PVC **SCREEN** 0.020"

COMMENTS IW52

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
2	Direct push	0 ppm							Hand auger to excavate to 4', fill and concrete				44
4									4'-4.4' concrete, 4.4' clayey SILT, red, micaceous, fine grain				42
6									8'-8.3' reddish brown clayey SILT with mica, 8.3'-8.7' grayish white, gravelly SAND, looks like concrete, fill material, 8.7'-9.6' reddish brown clayey SILT with mica, 9.6'-9.7' gravelly SAND, light colored mica and quartz, 9.7' reddish brown clayey SILT with mica				40
8													38
10													36
12													34
14									12'-14.4' reddish brown clayey SILT with mica, 14.4'-14.7' dark grayish brown clayey SILT, 14.7' reddish brown sandy, clayey SILT				32
16									Reddish brown sandy, clayey SILT with mica, moist				30
18													28
20									20'-22' brown clayey SILT, small intervals with gravel (< 1"), moist, 22'-22.5' dark gray, clayey, silty SAND, some gravel, saprolite, 22.5' reddish brown clayey SILT with fine SAND, moist				26
22													24
24		0.5							24'-26.2' reddish brown with black and white layers abundant mica, fine grain SILT, 26.2' dark brown and black layering, abundant mica, light colored layer, moist at 27.4'				22
26		22.3											20
28		18.2											18
30									28'-29' dark brown and black with abundant mica, 29'-29.3' light brown and gray clayey SILT with SAND, 29.3' layered black and white saprolite, moist, refusal with DPT at 32' bgs, switch to solid stem augers, encountered refusal with augers at 42' bgs				16
32													14
34													12
36	Solid stem auger												10
38													8
40													6
42													4
44													2
46													0
48													-2
													-4

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ENVIRONMENTAL WELL

PROJECT NUMBER 6123150040	**DRILLING COMPANY** Atlas Geo Sampling Compa	**COORDINATES**
PROJECT NAME Bon L Newnan	**DRILLER**	**COORD SYS**
CLIENT Bon L Manufacturing Company	**DRILL RIG**	**SURFACE ELEVATION**
ADDRESS 25 Bonnell Street, Newnan, GA	**DRILLING METHOD** HSA	**WELL TOC**
DRILLING DATE January 11, 2016	**TOTAL DEPTH** 41'	**LOGGED BY** FKM
LICENCE NO.	**DIAMETER** 2"	**CHECKED BY**

COMPLETIONSurface **CASING** PVC **SCREEN** 0.010"

COMMENTS MW83D

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water	Well Installation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48	Hollow Stem Auger	0 ppm											44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 -2 -4

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