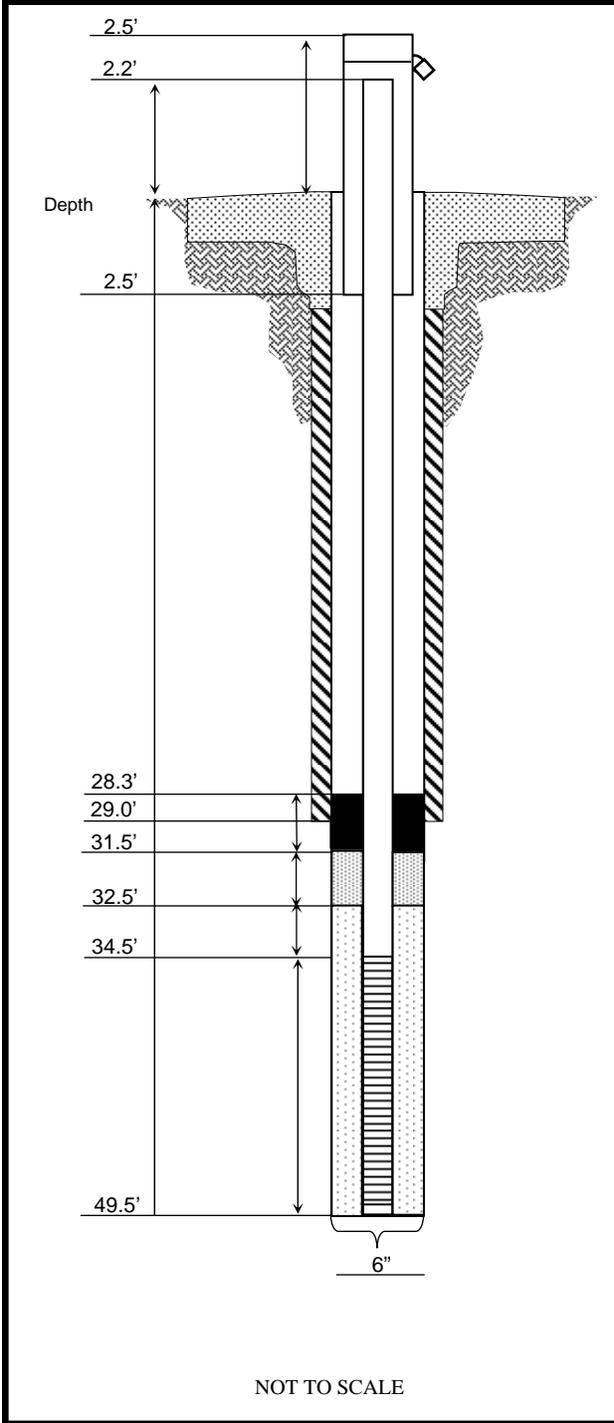


APPENDIX E
WELL COMPLETION DIAGRAMS

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Well No. BR-03-JC	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 8/10/04	End Date: 8/11/04	Elevation:(Top of Pad): 418.3681 ft amsl
Coordinates: N 863896.4962		

E 828126.5951



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 2.5 ft
Guard Posts (Y / N): Y
Weep Hole? (Y / N): Yes
Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 34.5'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 29.0'

Centralizers (Y / N): Yes
Depth(s): 5', 25'

Bentonite Seal
Type: ¼" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1 hour
Tremied (Y / N): No
Vol. Fluid Added: N/A

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 25#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: Unimin FilterSil
Amt. Used: 250#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 15'
Slot Size and Type: 0.010 slotted
Interval BGS: 34.5' – 49.5'

Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 29.0'

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

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BR-3-JC Monitoring Well Construction Log



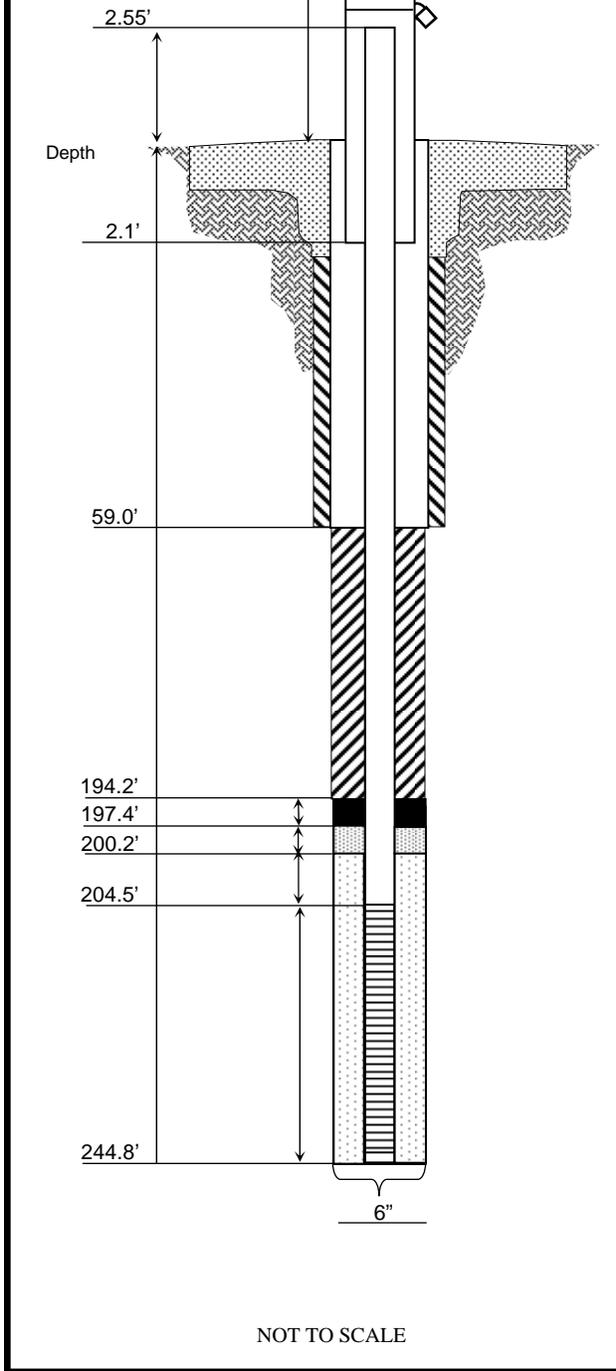
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Well No. BR-05-JC	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 8/5/04	End Date: 8/6/04	Elevation: (Top of Pad): 436.8617 ft amsl
Coordinates: N 866396.7674		
E 828849.8994		
<p>NOT TO SCALE</p>	<p>Protective Casing Material Type: Aluminum Diameter: 4 inch square Depth BGS: 2.1 ft Weep Hole? (Y / N): Yes Guard Posts (Y / N): Y No: Type:</p> <p>Surface Pad Composition and Size: 2 ft x 2 ft Concrete</p> <p>Riser Pipe Type: SCH 80 PVC Diameter: 2" Total Depth (Ground surface to TOS): 117.6' Ventilated Cap (Y / N): No</p> <p>Grout Composition & Proportions: 50# Bentonite Grout/24 gal water Grout Type: Wyo-Ben Grout Well Weight (lbs/gal.): N/A % Solids: 20% Tremied (Y / N): Yes Interval BGS: 0.0' – 107.8'</p> <p>Centralizers (Y / N): Yes Depth(s): 36', 76', 116'</p> <p>Bentonite Seal Type: 1/4" Bentonite Pellets Source: Pel-Plug Setup/Hydration Time: 15.5 hours Vol. Fluid Added: N/A Tremied (Y / N): No</p> <p>Secondary Filter Pack Graduation Designation: 100 mesh Grain Size: N/A Type: Colorado Silica Sand Amt. Used: 50# Tremied (Y / N): Yes</p> <p>Primary Filter Pack Graduation Designation: 10/20 mesh Grain Size: N/A Type: Unimin FilterSil Amt. Used: 350# Tremied (Y / N): Yes</p> <p>Screen Type: SCH 80 PVC Diameter: 2" Length: 20' Slot Size and Type: 0.010 slotted Interval BGS: 117.6 – 137.6'</p> <p>Isolation Casing (Y / N): Yes Type: Steel Diameter: 6" Total Length: 59.0'</p> <p>Backfill Plug: N/A Material: Setup/Hydration Time: Tremied (Y / N):</p>	

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Well No. BR-05-RB	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 8/2/04	End Date: 8/2/04	Elevation: (Top of Pad): 436.9127 ft amsl
		Coordinates: N 866422.6343
		E 828840.0698



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 2.1 ft
Guard Posts (Y / N): Y
Weep Hole? (Y / N): Yes
Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 204.5'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 194.2'

Centralizers (Y / N): Yes
Depth(s): 40', 80', 120', 160', 200'

Bentonite Seal
Type: 1/4" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1 hour
Tremied (Y / N): No
Vol. Fluid Added: N/A

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: FilterSil
Amt. Used: 675#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 40'
Slot Size and Type: 0.010 slotted
Interval BGS: 204.5' – 244.5'

Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 59.0'

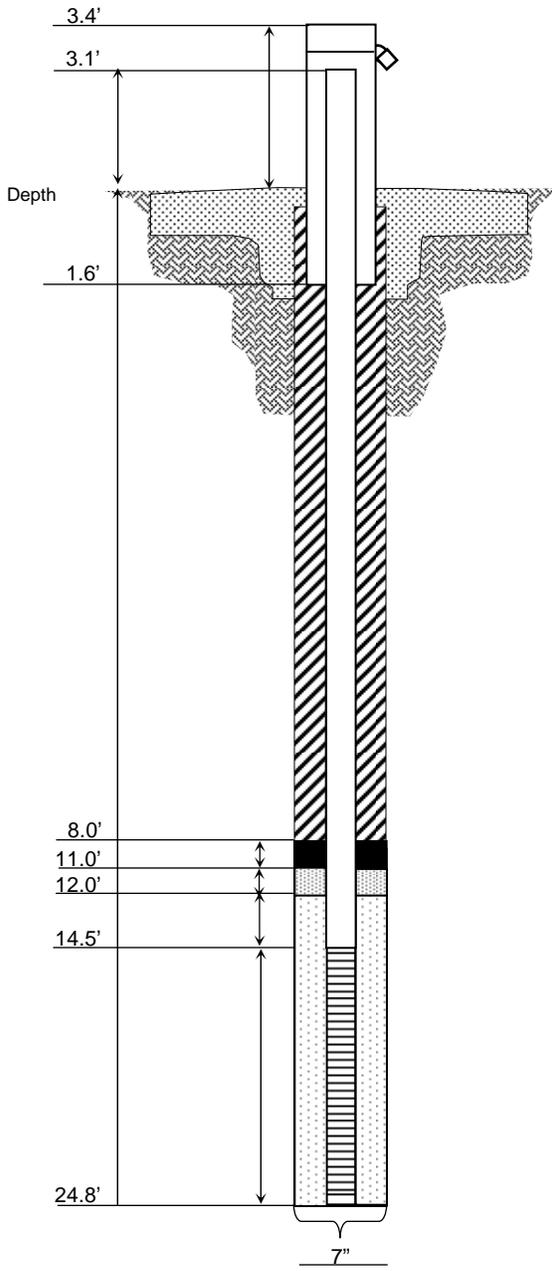
Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

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Well No. BR-06-OB	Installation: Above Ground Completion	
Project No. SAHEM0036	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 7/16/04	End Date: 7/16/04	Elevation (Top of Pad): 422.7048 ft amsl
Coordinates: N 863681.1098		

E 827465.7528



NOT TO SCALE

Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 1.6 ft
Guard Posts (Y / N): Y
Weep Hole? (Y / N): Yes
Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2 inch
Total Depth (Ground surface to TOS): 14.5'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' - 8.0'

Centralizers (Y / N): No
Depth(s): N/A

Bentonite Seal
Type: ¼ in. bentonite pellets
Source: Pel-Plug
Setup/Hydration Time: 1.5 hour
Tremied (Y / N): No
Vol. Fluid Added: 5 gal

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: FilterSil
Amt. Used: 150#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2 in.
Length: 10 ft
Slot Size and Type: 0.010 slotted
Interval BGS: 14.5' - 24.5'

Isolation Casing (Y / N): No
Type:
Diameter:
Total Length:

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

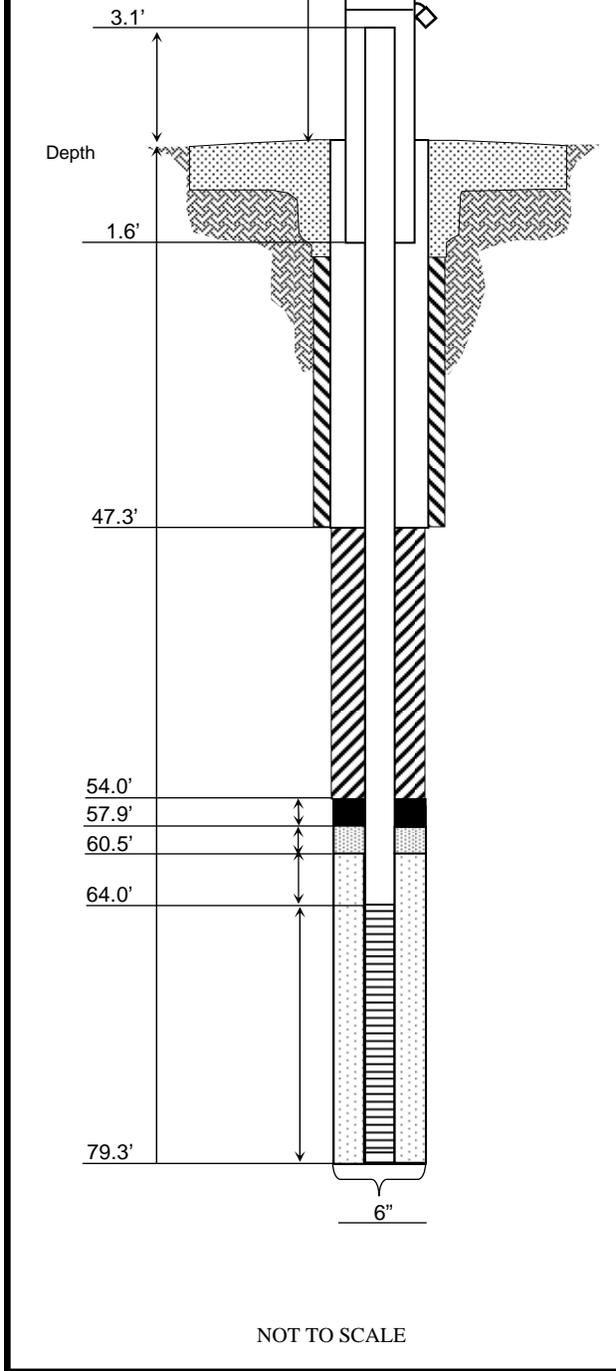
WESTINGHOUSE ELECTRIC COMPANY
HEMATITE FACILITY
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BR-6-OB Monitoring Well Construction Log



Science Applications
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Well No. BR-06-RB	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 7/15/04	End Date: 7/16/04	Elevation:(Top of Pad): 422.6061 ft amsl
Coordinates: N 863687.7157		
E 827468.1482		



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 1.6 ft Weep Hole? (Y / N): Yes
Guard Posts (Y / N): Y
No: Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 40 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 64.0'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 54.0'

Centralizers (Y / N): Yes
Depth(s): 19.0', 54.0'

Bentonite Seal
Type: ¼" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 15 hours Vol. Fluid Added: N/A
Tremied (Y / N): No

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: FilterSil
Amt. Used: 250#
Tremied (Y / N): Yes

Screen
Type: SCH 40 PVC
Diameter: 2"
Length: 15'
Slot Size and Type: 0.010 slotted
Interval BGS: 64.0' – 79.0'

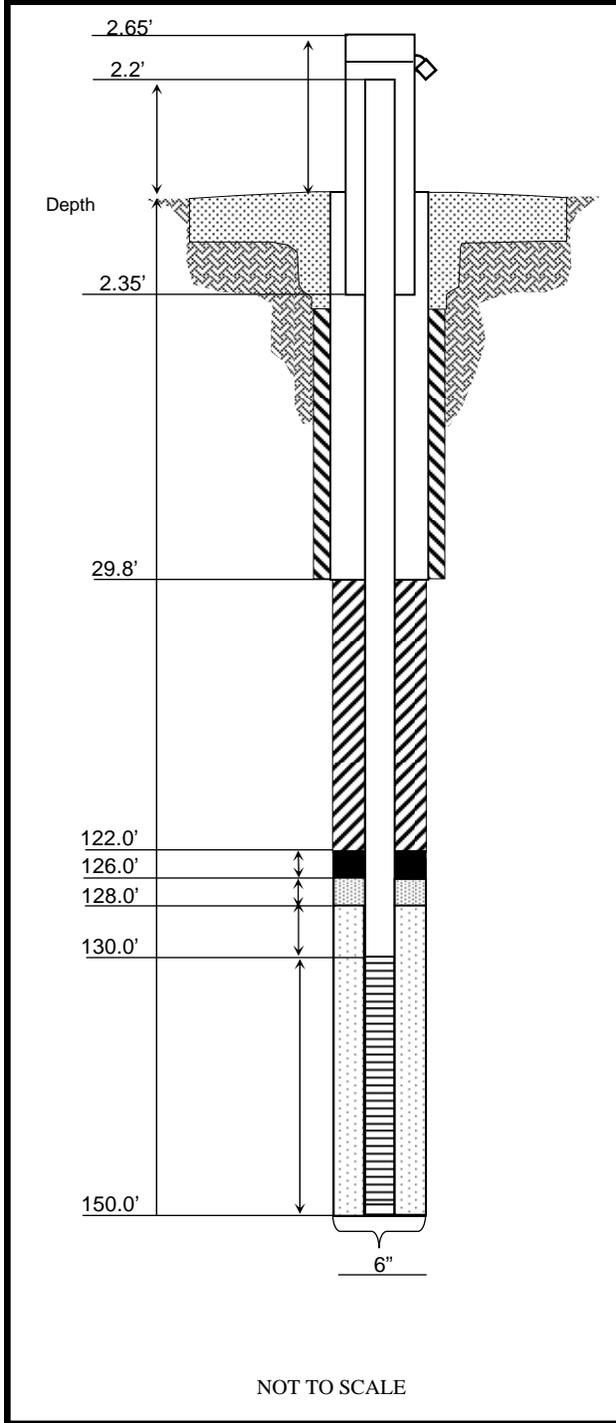
Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 47.3'

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

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Well No. BR-07-JC	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 8/9/04	End Date: 8/10/04	Elevation: (Top of Pad): 476.9589 ft amsl
Coordinates: N 864147.0981		

E 829606.2664



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 2.1 ft
Guard Posts (Y / N): Y
Weep Hole? (Y / N): Yes
Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 130.0'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' - 122.0'

Centralizers (Y / N): Yes
Depth(s): 30', 70', 110'

Bentonite Seal
Type: 1/4" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1.5 hours
Tremied (Y / N): No
Vol. Fluid Added: N/A

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: Unimin FilterSil
Amt. Used: 350#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 20'
Slot Size and Type: 0.010 slotted
Interval BGS: 130.0 - 150.0'

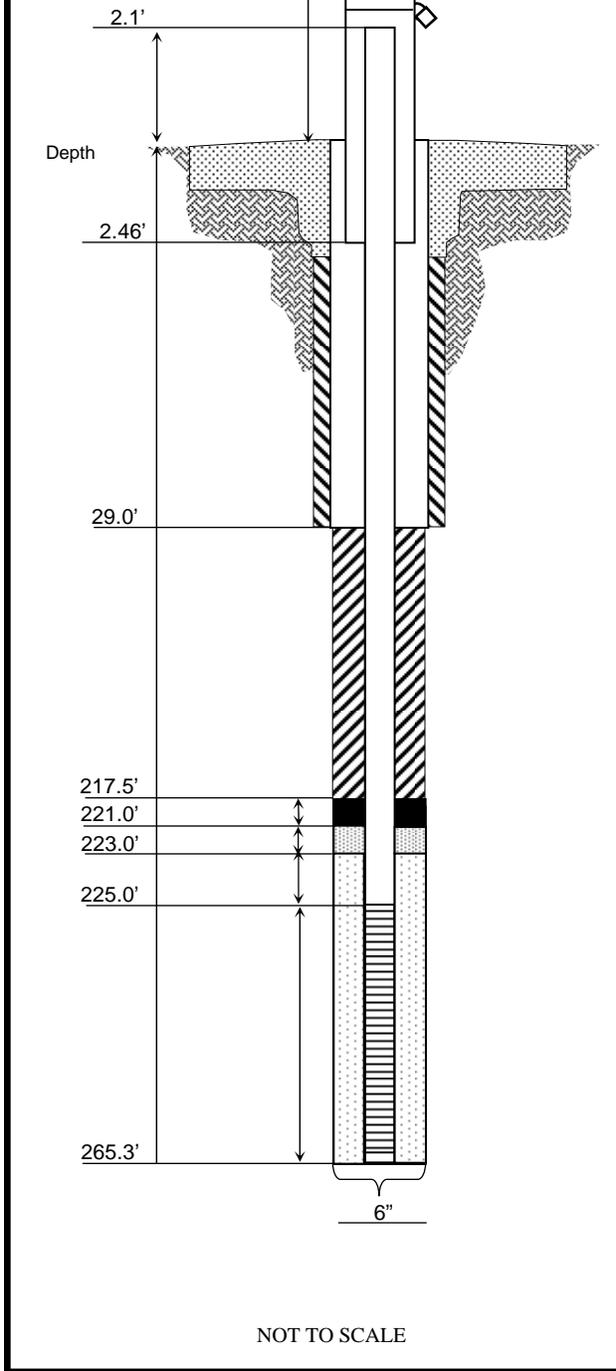
Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 29.8"

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

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Well No. BR-07-RB	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 8/4/04	End Date: 8/10/04	Elevation: (Top of Pad): 476.5835 ft amsl
Coordinates: N 864152.4167		
E 829600.8588		



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 2.46 ft Weep Hole? (Y / N): Yes
Guard Posts (Y / N): Y
No: Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 225.0'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 217.5'

Centralizers (Y / N): Yes
Depth(s): 60', 110', 160', 210'

Bentonite Seal
Type: ¼" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1.5 hours Vol. Fluid Added: N/A
Tremied (Y / N): No

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: Unimin FilterSil
Amt. Used: 700#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 40'
Slot Size and Type: 0.010 slotted
Interval BGS: 225.0' – 265.0"

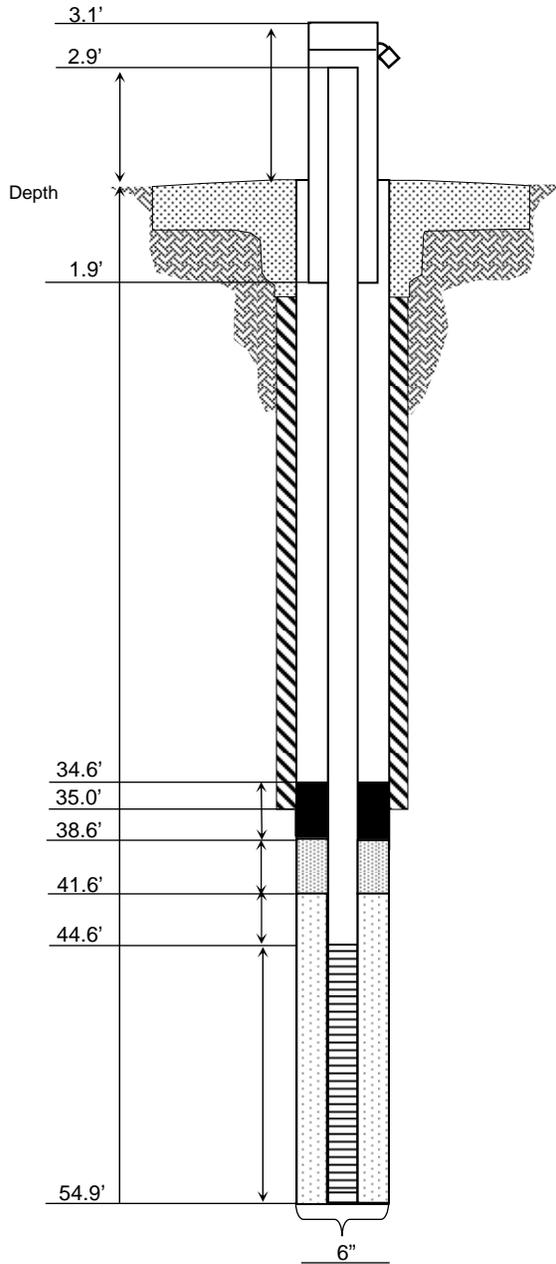
Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 29.0"

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

WESTINGHOUSE ELECTRIC COMPANY
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HEMATITE, MISSOURI

Well No. BR-08-JC	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 6/29/04	End Date: 6/29/04	Elevation: (Top of Pad): 418.6150 ft amsl
Coordinates: N 864793.1723		

E 828597.7762



NOT TO SCALE

Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 1.9 ft Weep Hole? (Y / N): Yes
Guard Posts (Y / N): Y
No: Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 40 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 44.6'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 35.0'

Centralizers (Y / N): Yes
Depth(s): 34.6'

Bentonite Seal
Type: ¼" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1 hour Vol. Fluid Added: N/A
Tremied (Y / N): No

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: FilterSil
Amt. Used: 350#
Tremied (Y / N): Yes

Screen
Type: SCH 40 PVC
Diameter: 2"
Length: 10'
Slot Size and Type: 0.010 slotted
Interval BGS: 44.6' – 54.6'

Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 35.0'

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

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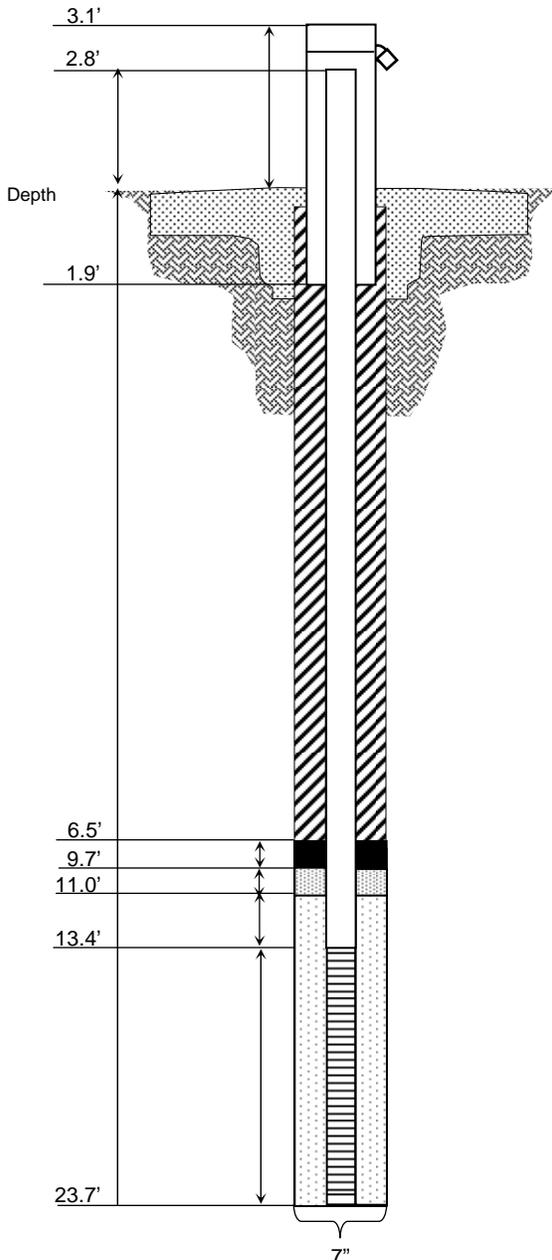
BR-8-JC Monitoring Well Construction Log



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Well No. BR-08-OB	Installation: Above Ground Completion	
Project No. SAHEM0036	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 6/30/04	End Date: 6/30/04	Elevation (Top of Pad): 418.7174 ft amsl
Coordinates: N 864793.4370		

E 828593.2184



NOT TO SCALE

Protective Casing

Material Type: Aluminum
 Diameter: 4 inch square
 Depth BGS: 1.9 ft
 Guard Posts (Y / N): Y
 Weep Hole? (Y / N): Yes
 Type:

Surface Pad

Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe

Type: SCH 40 PVC
 Diameter: 2 inch
 Total Depth (Ground surface to TOS): 13.4 ft
 Ventilated Cap (Y / N): No

Grout

Composition & Proportions: 50# Bentonite Grout/24 gal water
 Grout Type: Wyo-Ben Grout Well
 Weight (lbs/gal.): N/A
 % Solids: 20%
 Tremied (Y / N): Yes
 Interval BGS: 0.0' - 6.5'

Centralizers (Y / N): No

Depth(s): N/A

Bentonite Seal

Type: 1/4 in. bentonite pellets
 Source: Pel-Plug
 Setup/Hydration Time: 1 hour
 Tremied (Y / N): No
 Vol. Fluid Added: 5 gal

Secondary Filter Pack

Graduation Designation: 100 mesh
 Grain Size: N/A
 Type: Colorado Silica Sand
 Amt. Used: 50#
 Tremied (Y / N): Yes

Primary Filter Pack

Graduation Designation: 10/20 mesh
 Grain Size: N/A
 Type: FilterSil
 Amt. Used: 200#
 Tremied (Y / N): Yes

Screen

Type: SCH 40 PVC
 Diameter: 2 in.
 Length: 10 ft
 Slot Size and Type: 0.010 slotted
 Interval BGS: 13.4' - 23.4'

Isolation Casing (Y / N): No

Type:

Diameter:

Total Length:

Backfill Plug: N/A

Material:

Setup/Hydration Time:

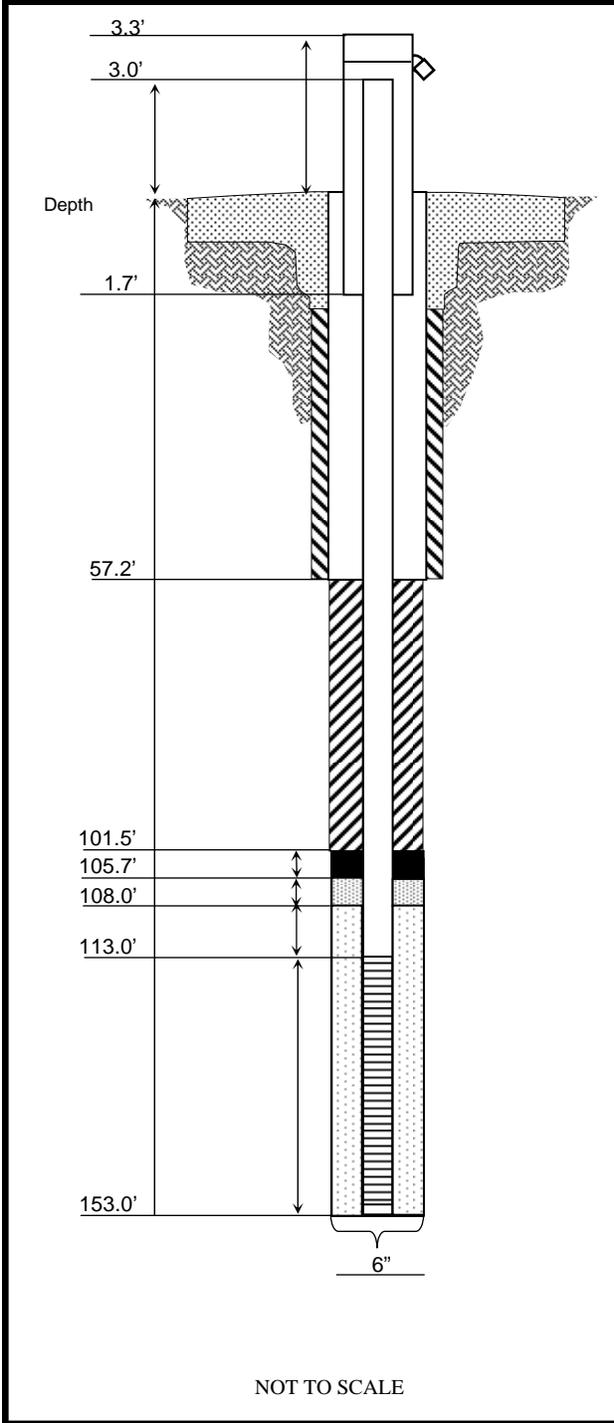
Tremied (Y / N):

WESTINGHOUSE ELECTRIC COMPANY
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 HEMATITE, MISSOURI



Well No. BR-08-RB	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 6/24/04	End Date: 6/24/04	Elevation:(Top of Pad): 418.7494 ft amsl
Coordinates: N 864793.0701		

E 828603.5976



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 1.7 ft
Guard Posts (Y / N): Y
Weep Hole? (Y / N): Yes
No:
Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 113.0'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 101.5'

Centralizers (Y / N): Yes
Depth(s): 33.0', 73.0', 113.0'

Bentonite Seal
Type: 1/4" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1 hour
Tremied (Y / N): No
Vol. Fluid Added: N/A

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: FilterSil
Amt. Used: 750#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 40'
Slot Size and Type: 0.010 slotted
Interval BGS: 113.0 – 153.0

Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 57.2'

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

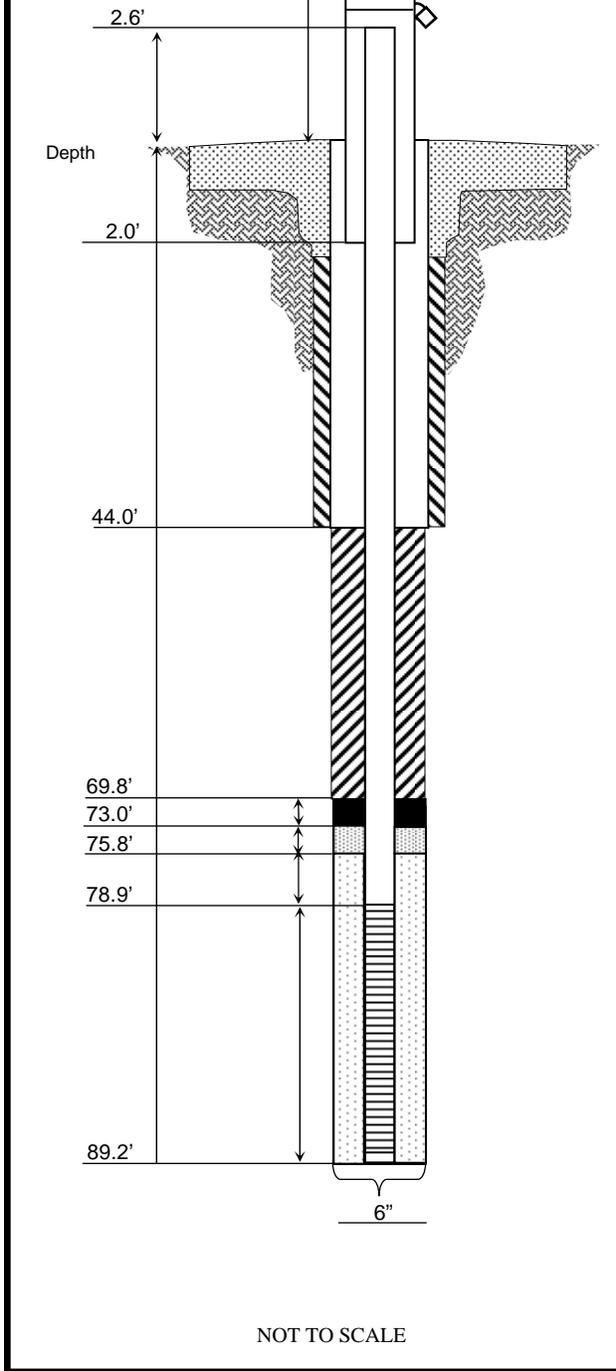
WESTINGHOUSE ELECTRIC COMPANY
HEMATITE FACILITY
HEMATITE, MISSOURI

BR-8-RB Monitoring Well Construction Log



Science Applications
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Well No. BR-09-JC	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 7/27/04	End Date: 7/28/04	Elevation (Top of Pad): 420.4106 ft amsl
Coordinates: N 865335.2116		
E 828731.7445		



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 2.0 ft Weep Hole? (Y / N): Yes
Guard Posts (Y / N): Y No: Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 78.9'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 69.8'

Centralizers (Y / N): Yes
Depth(s): 30', 60'

Bentonite Seal
Type: 1/4" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1 hour Vol. Fluid Added: N/A
Tremied (Y / N): No

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: FilterSil
Amt. Used: 200#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 10'
Slot Size and Type: 0.010 slotted
Interval BGS: 78.9' – 88.9'

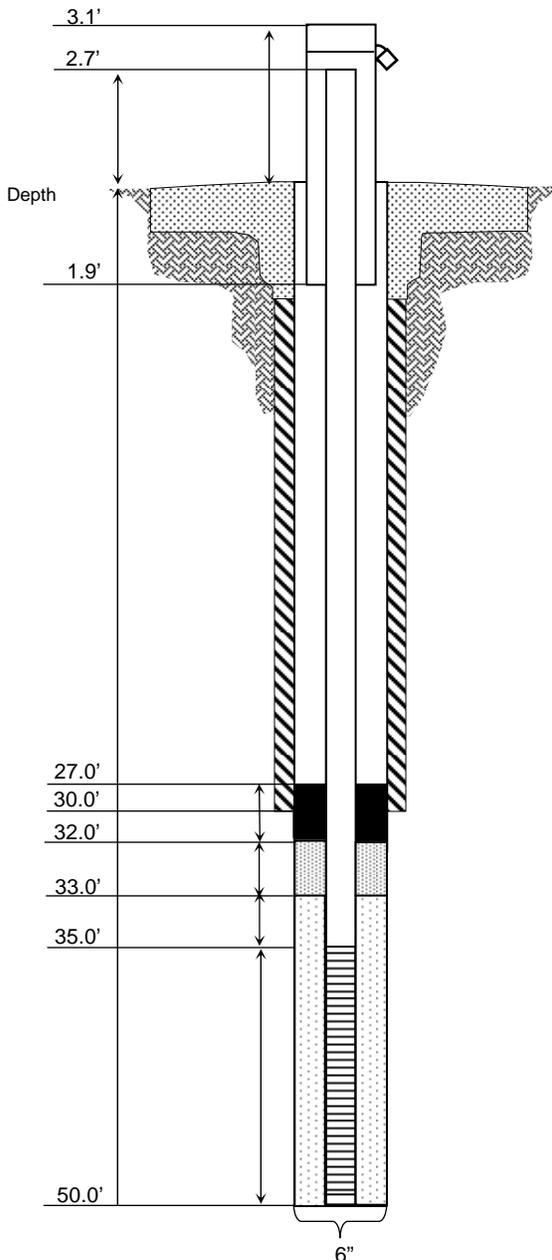
Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 44.0'

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

WESTINGHOUSE ELECTRIC COMPANY
HEMATITE FACILITY
HEMATITE, MISSOURI



Well No. BR-10-JC	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 8/2/04	End Date: 8/3/04	Elevation:(Top of Pad): 418.9648 ft amsl
Coordinates: N 864348.1471		
E 828685.5210		



NOT TO SCALE

Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 1.9 ft Weep Hole? (Y / N): Yes
Guard Posts (Y / N): Y
No: Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 40 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 35.0'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 30.0'

Centralizers (Y / N): Yes
Depth(s): 5', 25'

Bentonite Seal
Type: 1/4" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1 hour Vol. Fluid Added: N/A
Tremied (Y / N): No

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 25#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: Unimin FilterSil
Amt. Used: 300#
Tremied (Y / N): Yes

Screen
Type: SCH 40 PVC
Diameter: 2"
Length: 15'
Slot Size and Type: 0.010 slotted
Interval BGS: 35.0' – 50.0'

Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 30.0'

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

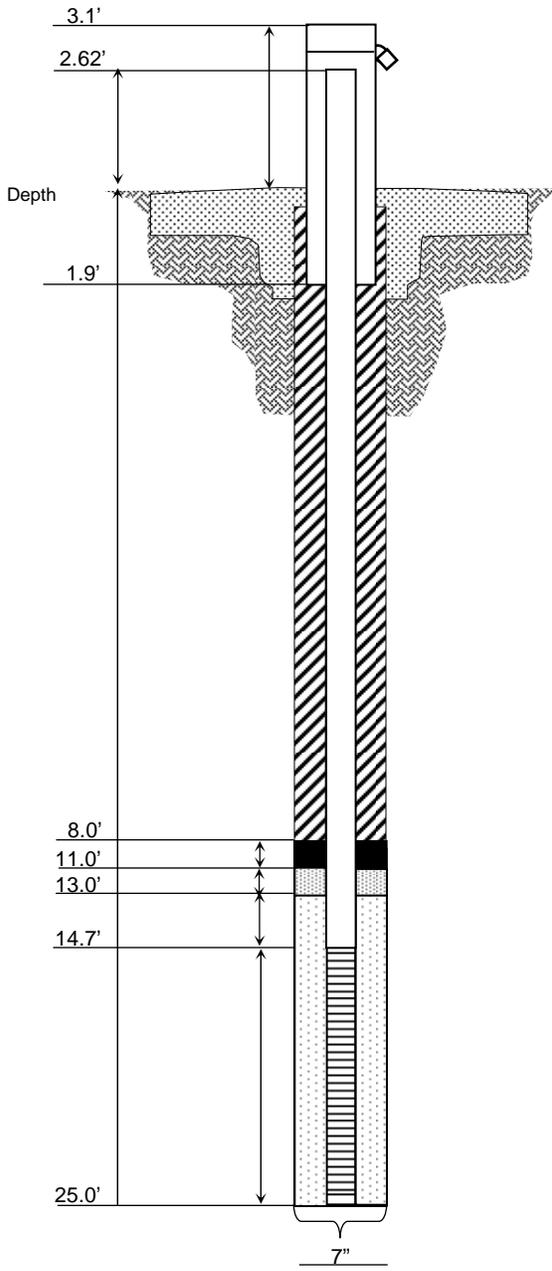
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HEMATITE, MISSOURI

BR-10-JC Monitoring Well Construction Log



Science Applications
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Well No. BR-10-OB	Installation: Above Ground Completion	
Project No. SAHEM0036	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 7/29/04	End Date: 7/29/04	Elevation (Top of Pad): 418.9044 ft amsl
Coordinates: N 864343.1843		
E 828681.0543		



NOT TO SCALE

Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 1.9 ft Weep Hole? (Y / N): Yes
Guard Posts (Y / N): Y
No: Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2 inch
Total Depth (Ground surface to TOS): 14.7'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 8.0'

Centralizers (Y / N): No
Depth(s): N/A

Bentonite Seal
Type: ¼ in. bentonite pellets
Source: Pel-Plug
Setup/Hydration Time: 45 min Vol. Fluid Added: N/A
Tremied (Y / N): No

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: Unimin FilterSil
Amt. Used: 250#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2 in.
Length: 10 ft
Slot Size and Type: 0.010 slotted
Interval BGS: 14.7' – 24.7'

Isolation Casing (Y / N): No
Type:
Diameter:
Total Length:

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

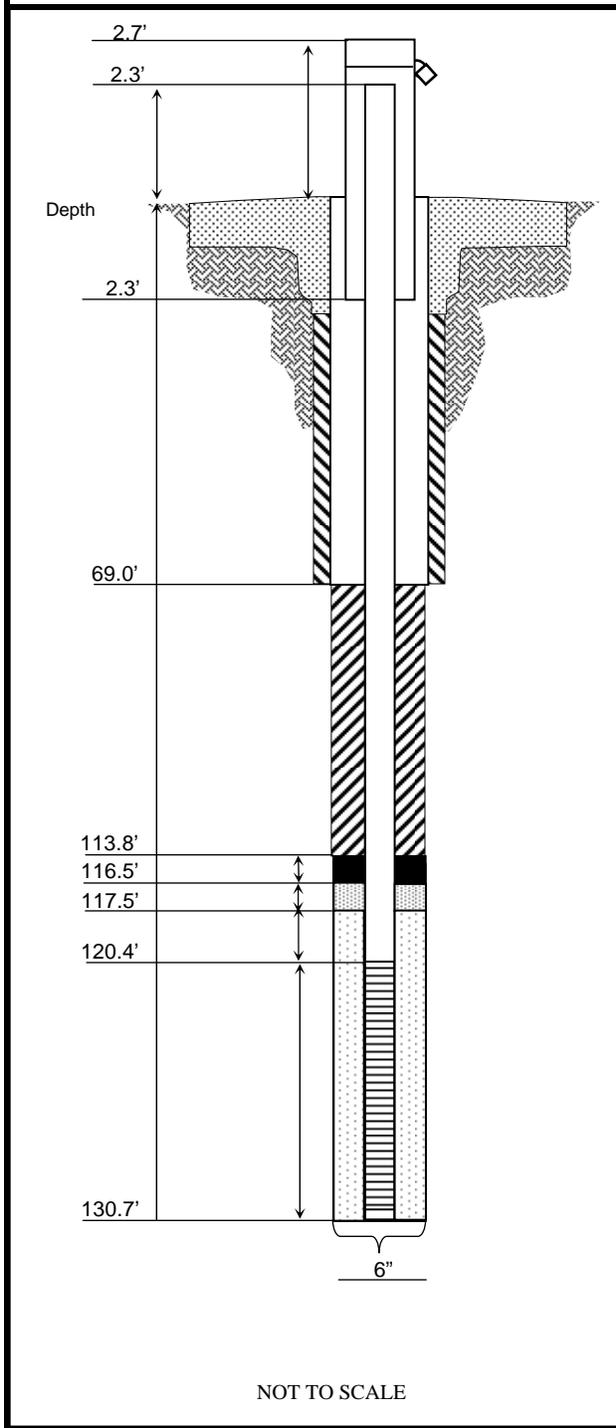
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BR-10-OB Monitoring Well Construction Log



Science Applications
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Well No. BR-10-RB	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 9/3/04	End Date: 9/3/04	Elevation:(Top of Pad): 419.6170 ft amsl
Coordinates: N 864343.1840		
E 828681.0540		



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 2.3 ft
Guard Posts (Y / N): Y
Weep Hole? (Y / N): Yes
No:
Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 120.4'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' - 113.8'

Centralizers (Y / N): Yes
Depth(s): 30', 80', 110'

Bentonite Seal
Type: 1/4" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1 hour
Tremied (Y / N): No
Vol. Fluid Added: N/A

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 25#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: Unimin FilterSil
Amt. Used: 250#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 10'
Slot Size and Type: 0.010 slotted
Interval BGS: 120.4' - 130.4'

Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 69.0'

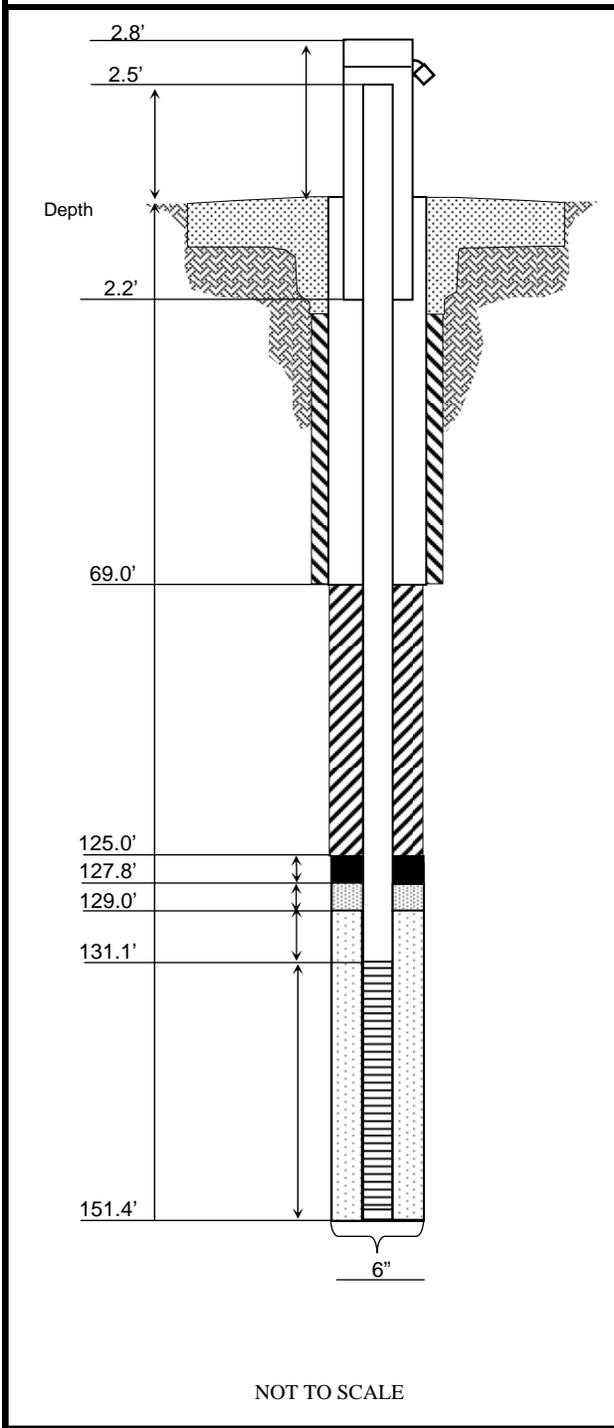
Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

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Well No. BR-11-JC	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 8/24/04	End Date: 9/3/04	Elevation:(Top of Pad): 430.7468 ft amsl
Coordinates: N 865466.9942		

E 829711.6939



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 2.2 ft Weep Hole? (Y / N): Yes
Guard Posts (Y / N): Y No: Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 131.1'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 125.0'

Centralizers (Y / N): Yes
Depth(s): 40', 80', 120'

Bentonite Seal
Type: 3/8" Bentonite Pellets
Source: Cetco
Setup/Hydration Time: 1 hour Vol. Fluid Added: N/A
Tremied (Y / N): No

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 25#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: Unimin FilterSil
Amt. Used: 300#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 20'
Slot Size and Type: 0.010 slotted
Interval BGS: 131.1' – 151.1'

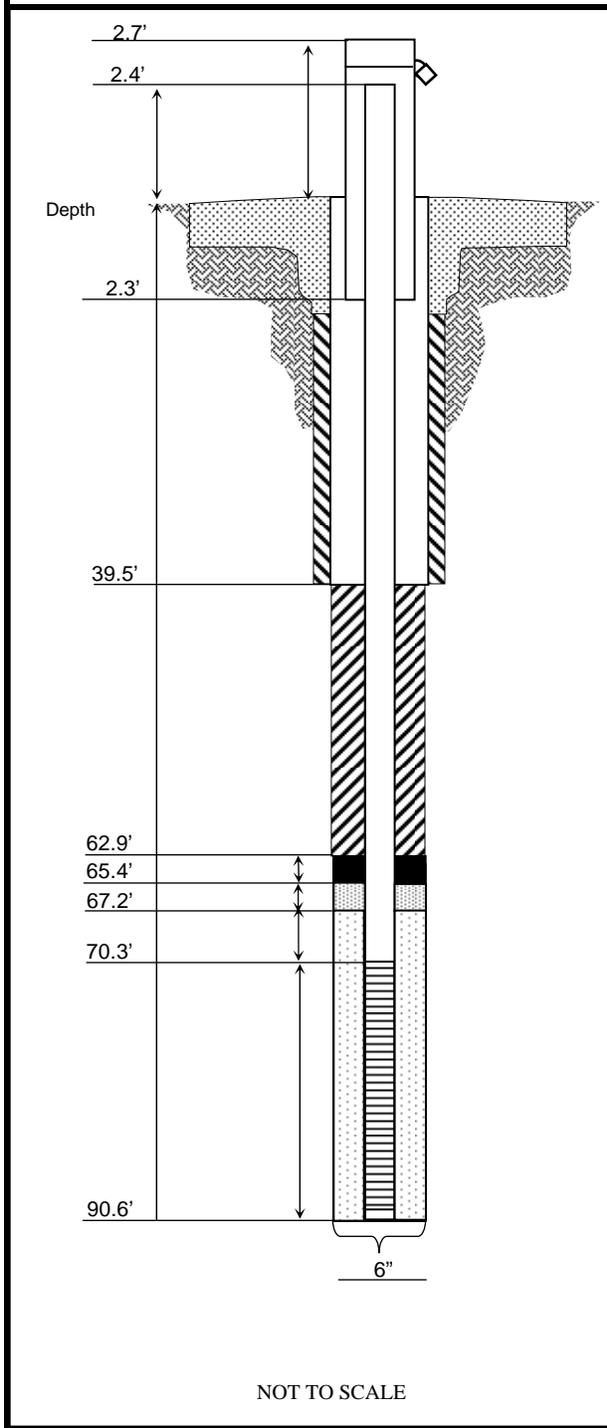
Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 69.0'

Backfill Plug: Yes
Material: Portland Cement
Setup/Hydration Time: 18 hours
Tremied (Y / N): Yes

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Well No. BR-12-JC	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 9/2/04	End Date: 9/3/04	Elevation:(Top of Pad): 435.8374 ft amsl
Coordinates: N 865546.4696		
E 826970.0207		



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 2.3 ft
Guard Posts (Y / N): Y
Weep Hole? (Y / N): Yes
Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 70.3'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 62.9'

Centralizers (Y / N): Yes
Depth(s): 19', 49', 69'

Bentonite Seal
Type: 1/4" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 1.5 hours
Tremied (Y / N): No
Vol. Fluid Added: N/A

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: Unimin FilterSil
Amt. Used: 350#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 20'
Slot Size and Type: 0.010 slotted
Interval BGS: 70.3' – 90.3'

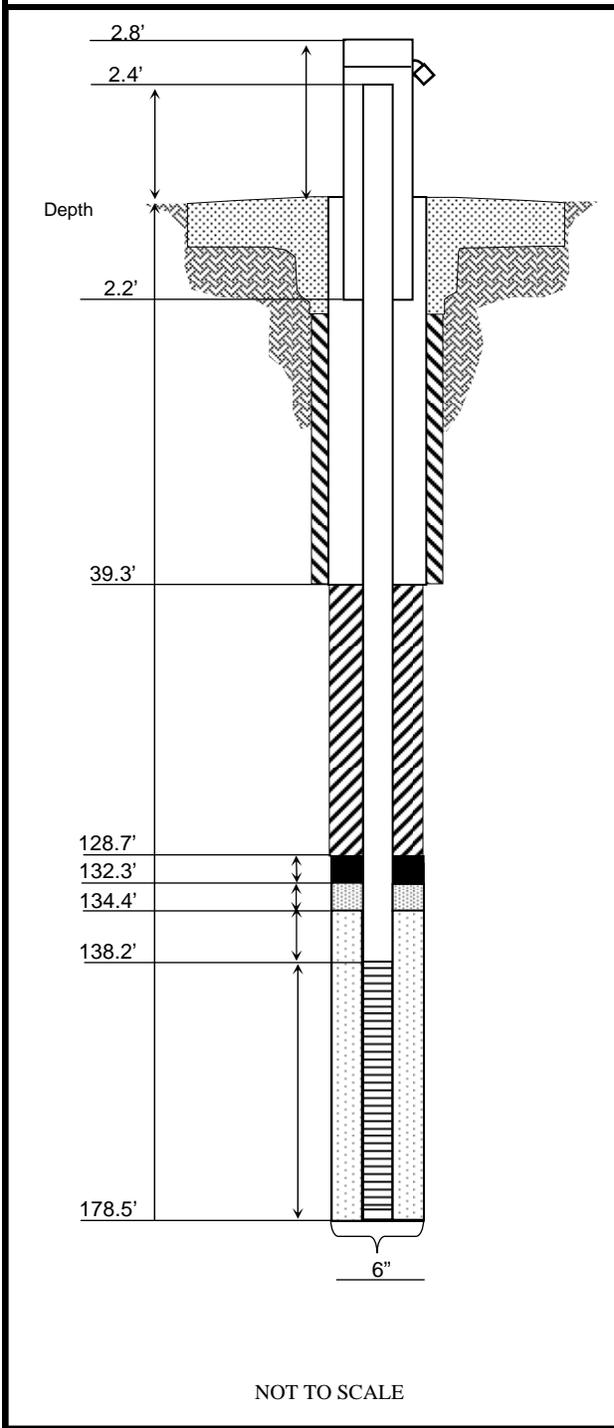
Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 39.5'

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

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Well No. BR-12-RB	Installation: Above Ground Completion	
Project No. SAHEM00136	Client/Project: Westinghouse Electric Company	Site: Hematite Facility
Contractor: SAIC		Drill Contractor: Geotechnology Inc.
Start Date: 8/30/04	End Date: 8/31/04	Elevation:(Top of Pad): 435.6724 ft amsl
Coordinates: N 865539.7662		
E 826977.2883		



Protective Casing
Material Type: Aluminum
Diameter: 4 inch square
Depth BGS: 2.2 ft Weep Hole? (Y / N): Yes
Guard Posts (Y / N): Y No: Type:

Surface Pad
Composition and Size: 2 ft x 2 ft Concrete

Riser Pipe
Type: SCH 80 PVC
Diameter: 2"
Total Depth (Ground surface to TOS): 138.2'
Ventilated Cap (Y / N): No

Grout
Composition & Proportions: 50# Bentonite Grout/24 gal water
Grout Type: Wyo-Ben Grout Well
Weight (lbs/gal.): N/A
% Solids: 20%
Tremied (Y / N): Yes
Interval BGS: 0.0' – 128.7'

Centralizers (Y / N): Yes
Depth(s): 17', 57', 97', 137'

Bentonite Seal
Type: ¼" Bentonite Pellets
Source: Pel-Plug
Setup/Hydration Time: 18 hours Vol. Fluid Added: N/A
Tremied (Y / N): No

Secondary Filter Pack
Graduation Designation: 100 mesh
Grain Size: N/A
Type: Colorado Silica Sand
Amt. Used: 50#
Tremied (Y / N): Yes

Primary Filter Pack
Graduation Designation: 10/20 mesh
Grain Size: N/A
Type: Unimin FilterSil
Amt. Used: 600#
Tremied (Y / N): Yes

Screen
Type: SCH 80 PVC
Diameter: 2"
Length: 40'
Slot Size and Type: 0.010 slotted
Interval BGS: 138.2' – 178.2'

Isolation Casing (Y / N): Yes
Type: Steel
Diameter: 6"
Total Length: 39.3'

Backfill Plug: N/A
Material:
Setup/Hydration Time:
Tremied (Y / N):

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