

Westinghouse Electric Company Hematite Facility

Well Inspection Report



Well Number: PZ-3	Date Installed: 10/13/1998	Project Number: SAHEM00136
Coordinates (MO State Plane NAD83): Northing/Easting		Elevation (TOC): 435.85
Not Available	Not Available	
Total Depth (feet BTOC): 63.61	Riser Height (feet above grade): 2.62	Water Level (feet BTOC): 25.11
Well Construction Material: PVC	Well Casing Diameter (inches): 2	Screen Length (feet): 10.0
Hydrostratigraphic Zone: Jefferson City – Cotter Dolomite	Inspected By: R. Tubbs	Date Inspected: 8/19/2004

Visual Observations:

- Well condition noted as good
- Protective outer casing constructed of 4 inch square steel – rusted
- Well pad construction – 2 ft X 2 ft concrete
- Three guard posts in place
- Water-tight cap in place with dedicated bailer
- Well needs numbering/labeling
- Rehabilitation not required





LOG OF BORING PZ3

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Combustion Engineering
Missouri State Route P
Hematite, Missouri

Date Started : 10/13/98
Date Completed : 10/13/98
Hole Diameter : 8 1/4"
Drilling Method : Air Rotary
Driller : RED1
Sampling Method : Cuttings

Logged By: Kerry L. Nikolaisen, RG

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Samples	% Recovery	PID (ppm)	Net CPM (0.5 min)	Well: PZ3 Elev.: 435.85		Well Construction Information
			▼ During Drilling ▽ After Completion (prior to development)							
0			SILTY CLAY, moderate yellowish-brown.							
5										
10	CL									
15										
20										
25			GRAVEL, clayey, silty, sandy. Poorly-graded, saturated, rounded and subangular.							
30	GP									
35			DOLOMITE, tan gray, trace shale							
40			beige							
45			cherty							
50	DO									
55			coarse							
60			Boring terminated @ 60.3 feet bgs							
65										

WELL CONSTRUCTION
Date Compl: 10/13/98
Hole Diam.: 8 1/4 in.
Drill. Method Air Rotary

WELL CASING
Material : PVC
Diameter : 2 in.
Joints : threaded

WELL SCREEN
Material : PVC
Diameter : 2 in.
Joints : threaded
Opening : .010 slot

NOTES
(PP) Pocket Penetrometer

(CPM) Counts per minute

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Westinghouse Electric Company Hematite Facility

Well Inspection Report



Well Number: PZ-4	Date Installed: 10/13/1998	Project Number: SAHEM00136
Coordinates (MO State Plane NAD83): Northing/Easting		Elevation (TOC): 440.54
N 865284.792	E 827225.521	Water Level (feet BTOC): 21.96
Total Depth (feet BTOC): 61.88	Riser Height (feet above pad): 2.29	Screen Length (feet): 10.0
Well Construction Material: PVC	Well Casing Diameter (inches): 2	Date Inspected: 8/11/2004
Hydrostratigraphic Zone: Jefferson City-Cotter Dolomite	Inspected By: R. Tubbs	

Visual Observations:

- Well condition noted as good
- Protective outer casing constructed of 4 inch square steel - rusted
- Well pad construction – 2 ft X 2 ft concrete
- Four guard posts in place
- Water-tight cap in place with dedicated bailer
- Well needs numbering/labeling
- Rehabilitation not required





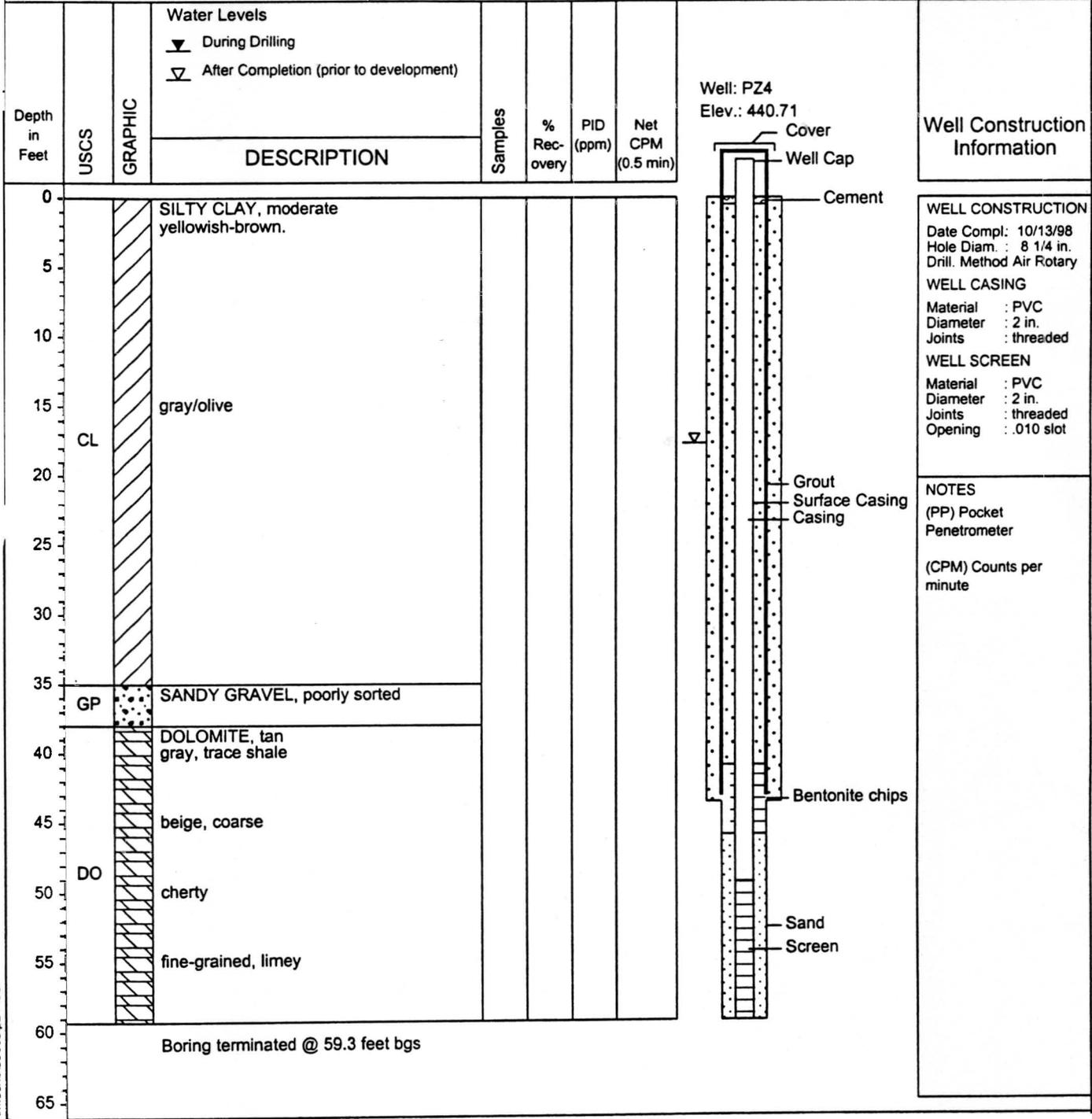
LOG OF BORING PZ4

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Combustion Engineering
Missouri State Route P
Hematite, Missouri

Date Started : 10/09/98
Date Completed : 10/13/98
Hole Diameter : 8 1/4"
Drilling Method : Air Rotary
Driller : REDI
Sampling Method : Cuttings

Logged By: Kerry L. Nikolaisen, RG



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Westinghouse Electric Company Hematite Facility

Well Inspection Report



Well Number: OB-1	Date Installed: 5/15/2002	Project Number: SAHEM00136
Coordinates (MO State Plane NAD83): Northing/Easting		Elevation (TOC):
N 863749.529	E 826667.871	429.64
Total Depth (feet BTOC): 29.17	Riser Height (feet above pad): 2.85	Water Level (feet BTOC): 11.67
Well Construction Material: PVC	Well Casing Diameter (inches): 2	Screen Length (feet): 16.0
Hydrostratigraphic Zone: Terrace/Unconsolidated	Inspected By: R. Tubbs	Date Inspected: 8/20/2004

Visual Observations:

- Well condition noted as good
- Protective outer casing constructed of 4 inch square aluminum
- Well pad construction – 2 ft X 2 ft concrete
- Three guard posts in place
- Water-tight lockable cap in place
- Rehabilitation and/or maintenance not required



Well No. OB-1

Installation: Above Ground Completion

Project No.

Client/Project: Westinghouse Electric Company

Site: Hematite Facility

Contractor: Leggette, Brashears and Graham, Inc.

Drill Contractor: Jerry Mathews Drilling

Start Date: 5/15/02

End Date: 5/15/02

Elevation (Top of Pad): ft amsl 426.79

Coordinates: N 863749.529

E 826667.871

2.85'

Protective Casing

Material Type: Aluminum
Diameter: 4 inch square
Weep Hole? (Y / N): Yes
Guard Posts (Y / N): Yes
No: 3

Depth

Surface Pad

Composition and Size: 2 ft x 2 ft Concrete

2.5'

Surface Casing

Type: Unknown
Diameter: 6 in.
Total Length: 2.5 ft

Riser Pipe

Type: SCH 40 PVC
Diameter: 2 inch
Total Depth (Ground surface to TOS): 10.0'
Ventilated Cap (Y / N): No

Annular Seal

Type: Bentonite chips
Interval BGS: 2.5' – 5.5'

Bentonite Seal

Type: Bentonite chips
Interval BGS: 5.5' – 8.0'

5.5'

Primary Filter Pack

Type: Unknown
Amt. Used: Unknown

8.0'

Screen

Type: SCH 40 PVC
Diameter: 2 in.
Length: 16 ft
Slot Size and Type: 0.010 slotted
Interval BGS: 10.0' – 26.0'

10.0'

26.0'

8.75"

NOT TO SCALE

Note: All depths inferred from Monitoring Well Certification Record

WESTINGHOUSE ELECTRIC COMPANY
HEMATITE FACILITY
HEMATITE, MISSOURI



Westinghouse Electric Company Hematite Facility

Well Inspection Report



Well Number: OB-2	Date Installed: 5/28/2002	Project Number: SAHEM00136
Coordinates (MO State Plane NAD83): Northing/Easting		Elevation (TOC): 430.47
N 865862.215	E 830379.841	Water Level (feet BTOC): 10.25
Total Depth (feet BTOC): 39.81	Riser Height (feet above pad): 2.51	Screen Length (feet): 27.0
Well Construction Material: PVC	Well Casing Diameter (inches): 2	Screen Length (feet): 27.0
Hydrostratigraphic Zone: Terrace/Unconsolidated	Inspected By: R. Tubbs	Date Inspected: 8/20/2004

Visual Observations:

- Well condition noted as good
- Protective outer casing constructed of 4 inch square aluminum
- Well pad construction – 2 ft X 2 ft concrete
- Three guard posts in place
- Water-tight lockable cap in place
- Rehabilitation and/or maintenance not required



