

R3D3-70

70-36



September 21, 1990

Merri Horn  
Uranium Fuel Section  
Fuel Cycle Safety Branch  
Division of Industrial and  
Medical Nuclear Safety, NMSS  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

**SUBJECT: ADDITIONAL INFORMATION ON GROUND WATER MONITORING**

Dear Ms. Horn:

Enclosed is additional information on our ground water monitoring plan, as requested by your letter dated July 5, 1990.

We also plan to add a new ground water sampling well to monitor for contamination from the Building 240/253 area, as shown on Figure II.1-4. Weather permitting, this well will be installed during October, 1990, and sampled on a monthly frequency.

Cordially yours

James A. Rode  
Plant Manager

JAR/sld/8104

ABB Combustion Engineering Nuclear Power

R-54

Combustion Engineering, Inc.

P O Box 107, Highway P  
Hematite, Missouri 63047

Telephone (314) 937-4691  
Telephone (314) 296-5640  
Fax: Extension 15

9009240167 900921  
PDR ADLOCK 07000036  
C FIC

NF12 1.

**RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION ON GROUND WATER MONITORING PLAN FOR THE HEMATITE FACILITY**

1. In place of Figure 1, provide a figure that shows the actual location of the burial ground and the direction of ground water flow.

Figure 1 has been revised to show the location of the old burial site and to indicate the direction of ground water flow.

2. Provide the data from January 1990 to date for wells 3 and 12.

Data for well RM-2 is also included. Well locations are also shown in NUREG-3387, see Figure 5, page 25. Results are in picocuries per liter:

1990	RM-2		RM-3		RM-12	
	alpha	beta	alpha	beta	alpha	beta
Jan	3	5	-	-	3	11
Feb	4	12	-	-	<3	5
Mar	2	5	-	-	2	5
Apr	<2	2	5	34	<2	5
May	3	4	5	17	2	73
Jun	4	11	<2	12	2	8
Jul	3	4	<3	15	<3	8
Aug	2	3	5	12	1	7

3. Indicate on Figure 2 the direction of ground water flow.

The direction of ground flow (ESE) has been indicated on Figure 2.

4. Provide the data for the three wells near the evaporation ponds for 1989 to date.

Monitoring data for wells near evaporation ponds, in picocuries per liter:

1989	North		East		West	
	alpha	beta	alpha	beta	alpha	beta
Jan	<2	321	<2	<3	<2	<3
Feb	4	368	<2	5	<2	<3
Mar	3	347	5	10	5	5
Apr	18	250	<2	<3	5	<3
May	3	368	<2	4	<2	5
Jun	<2	363	14	103	89**	55
Jul	3	354	10	14	11	20
Aug	4	342	*	*	6	11
Sep	5	456	5	10	3	6
Oct	3	38	*	*	<2	293
Nov	3	226	*	*	4	8
Dec	3	227	*	*	3	7

\* Well Dry

\*\* Sample Contamination Suspected

# ABB COMBUSTION ENGINEERING

## 4. (continued)

1990	North		East		West	
	alpha	beta	alpha	beta	alpha	beta
Jan	4	336	*	*	3	4
Feb	5	212	5	9	<2	3
Mar	<2	315	<2	5	<2	2
Apr	<2	261	3	6	<2	1
May	2	210	4	2	1	2
Jun	5	152	<2	3	<2	3
Jul	4	273	*	*	3	5
Aug	4	105	*	*	<2	193

\* Well Dry

## 5. Indicate on Figure 3 the location of sampling stations 10 and 11.

Soil sampling stations 10 and 11 have been indicated on Figure 3.

## 6. Provide the soil data for stations 10 and 11 for 1989 to date.

Soil sampling data for stations 10 and 11, in picocuries per gram:

		Station 10		Station 11	
		alpha	beta	alpha	beta
1989	1st quarter	36	190	54	87
	2nd quarter	8	190	63	60
	3rd quarter	9	45	33	45
	4th quarter	20	43	50	59
1990	1st quarter	52	150	12	47
	2nd quarter	20	43	70	73

## 7. Include Pile B in the sampling program.

Spent limestone Pile B will be included in the soil sampling program, beginning with the fourth quarter 1990 sample collection.

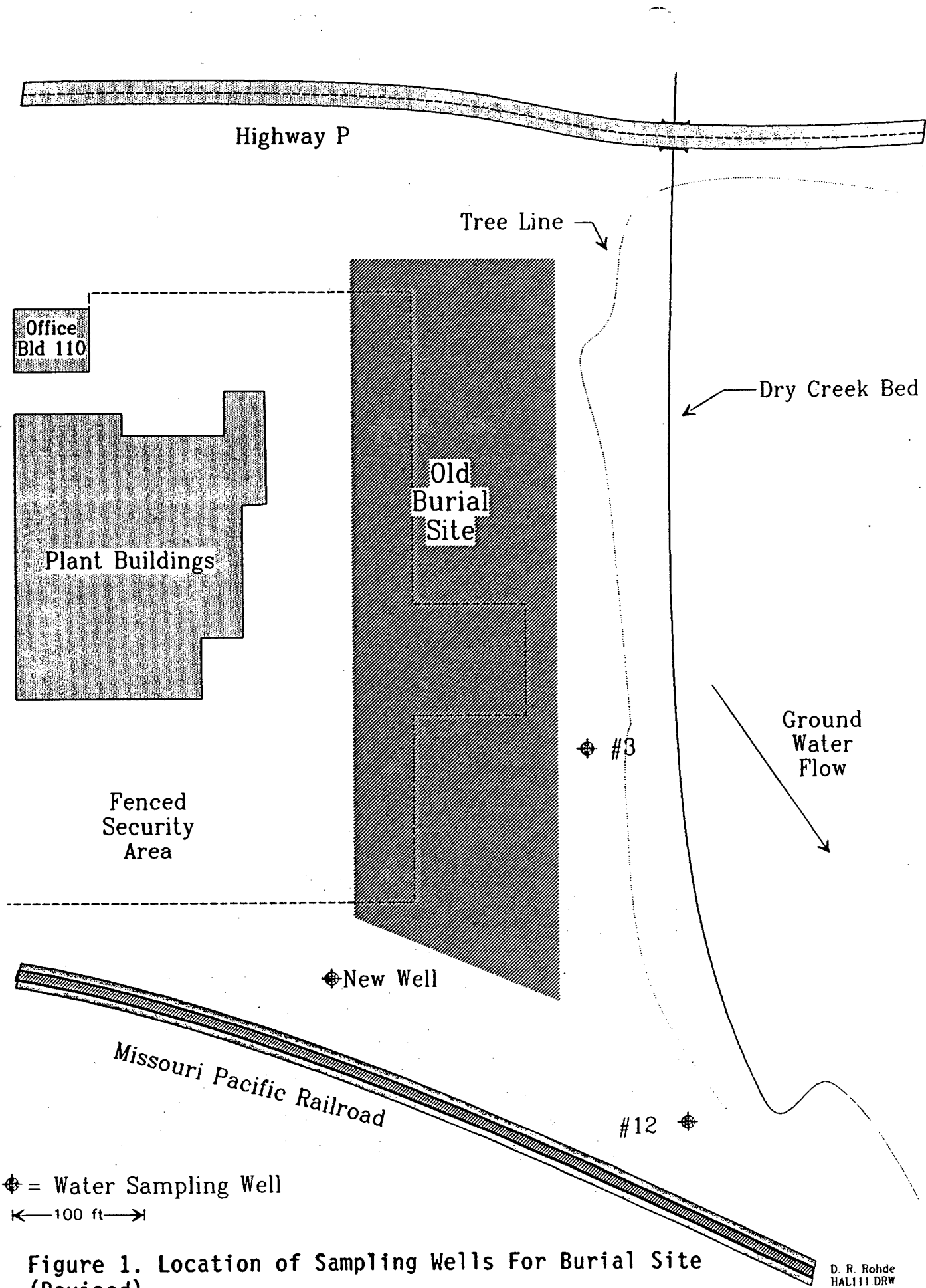


Figure 1. Location of Sampling Wells For Burial Site (Revised)

D. R. Rohde  
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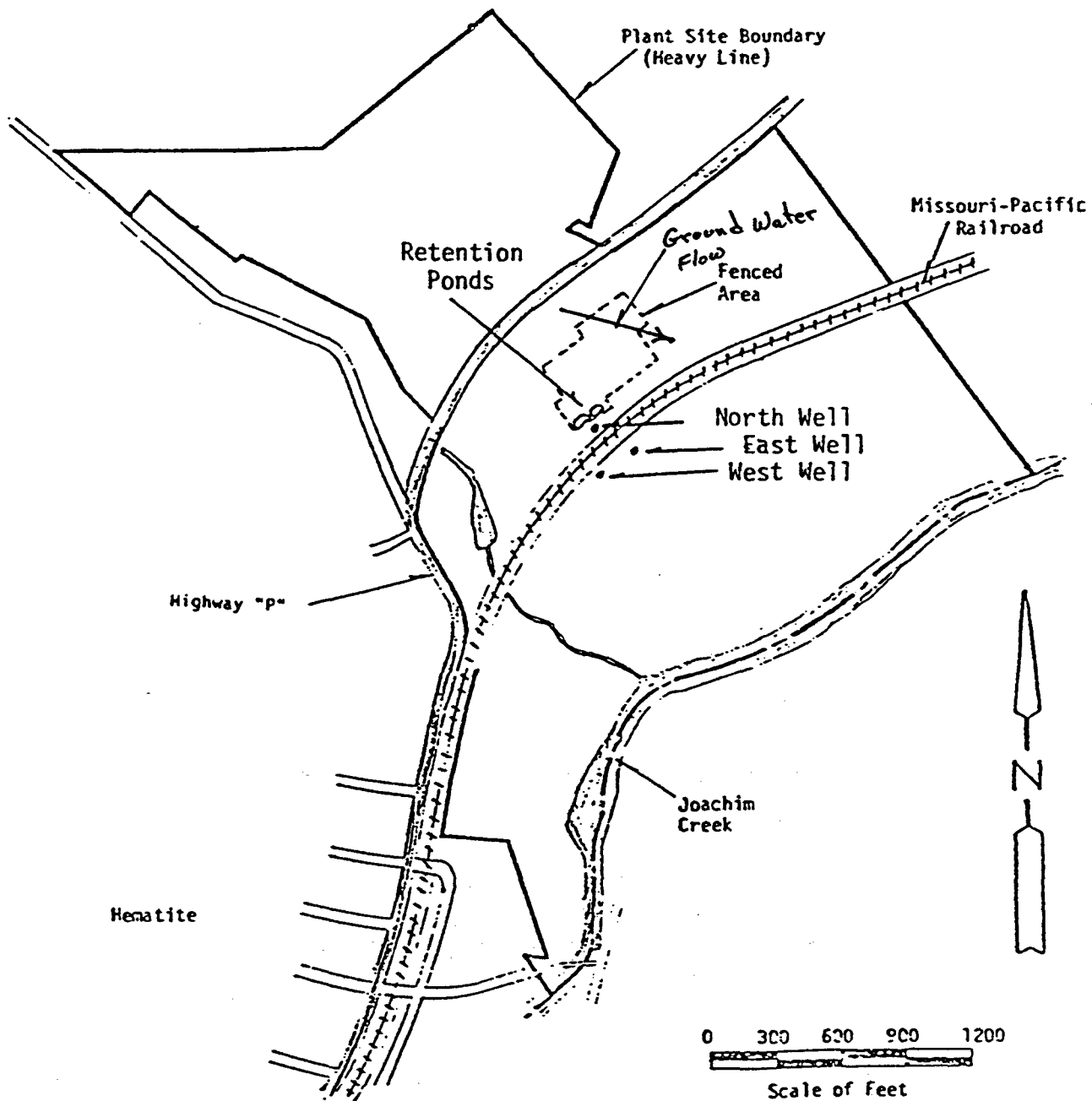
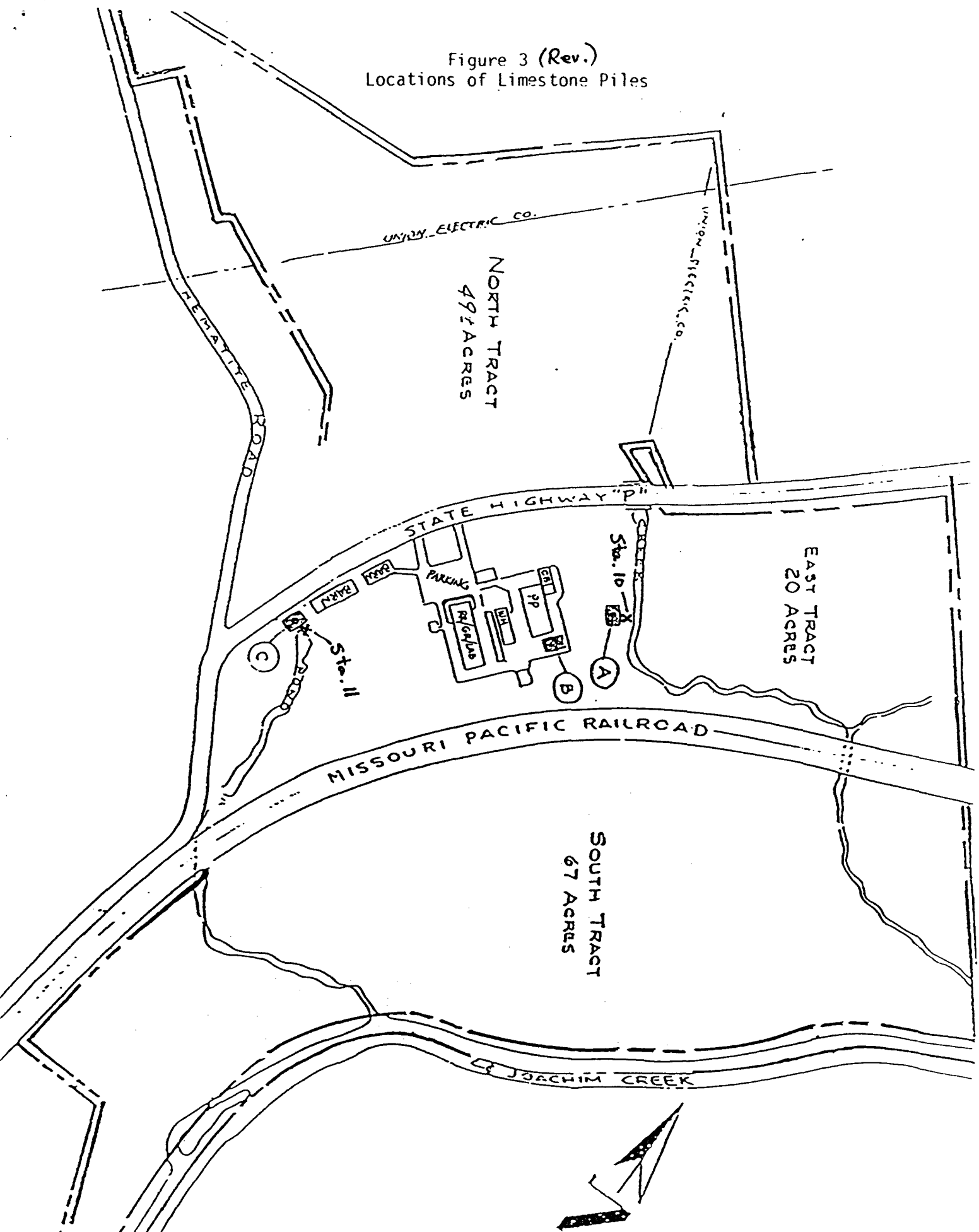


Figure 2 (Rev.)

Locations of Sampling Wells for Evaporation Ponds

Figure 3 (Rev.)  
Locations of Limestone Piles



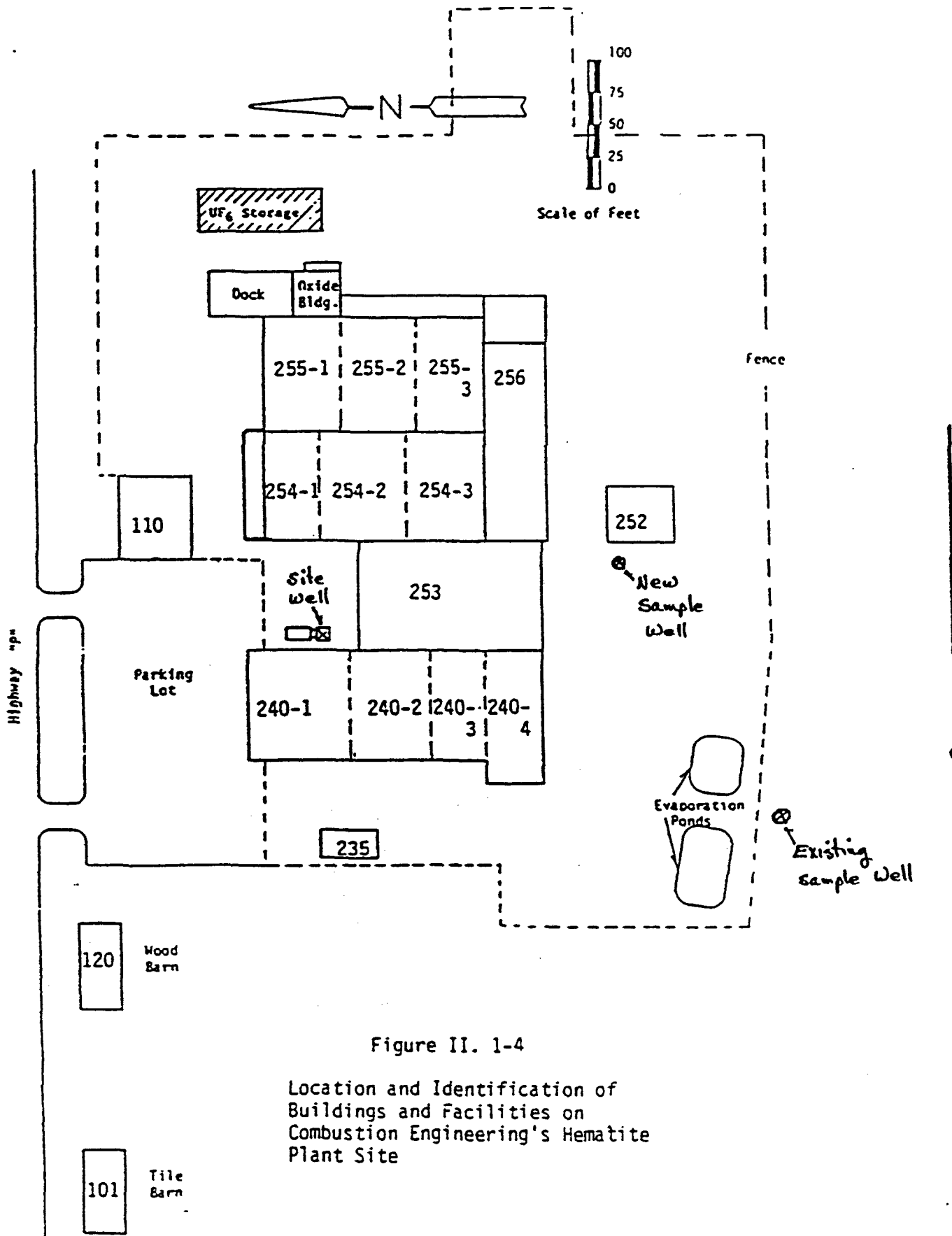


Figure II. 1-4

Location and Identification of  
Buildings and Facilities on  
Combustion Engineering's Hematite  
Plant Site