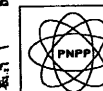




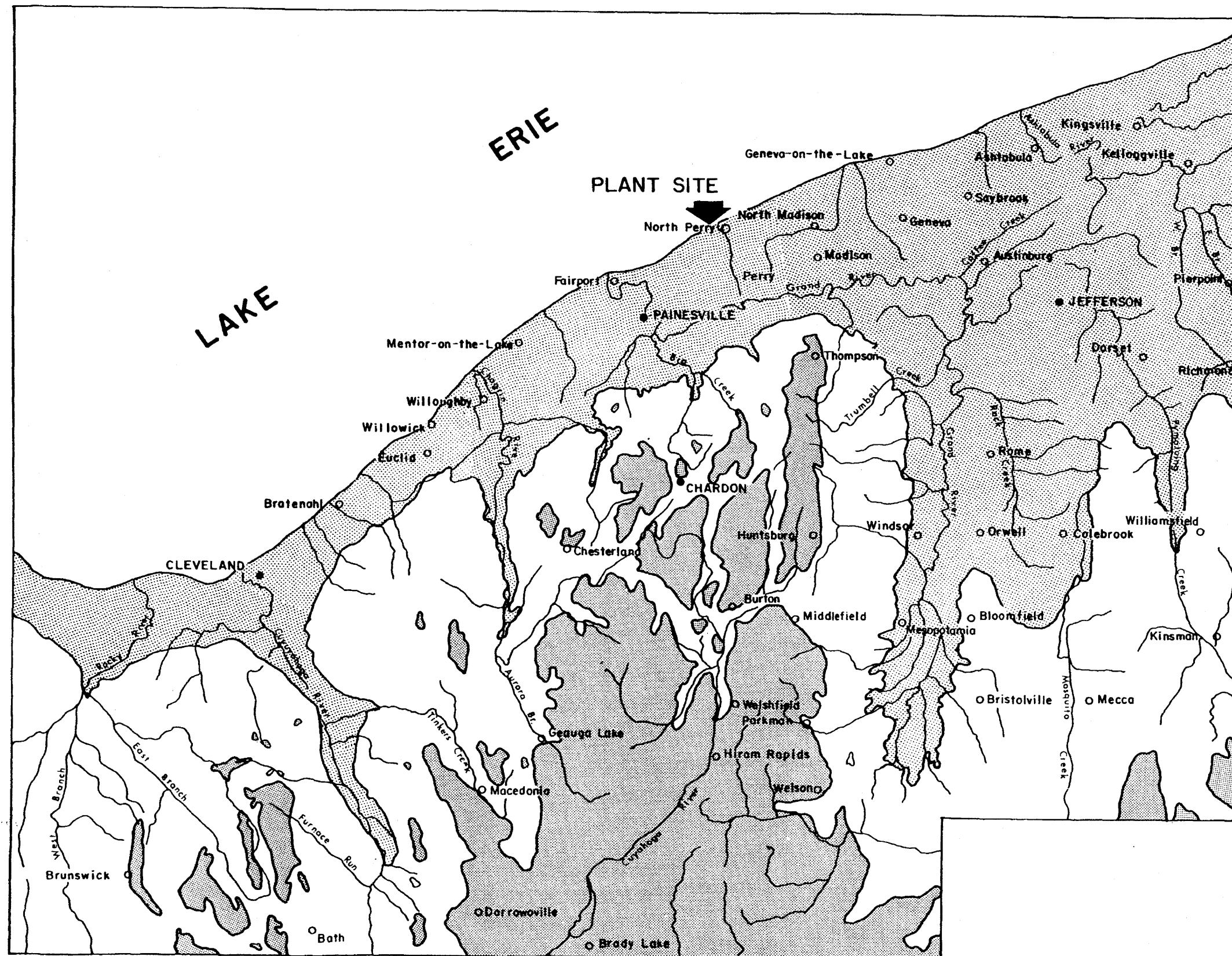
(Rev. 12 1/03)






PERRY NUCLEAR POWER PLANT

Tunneling Plan

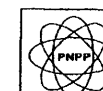
Figure 2D-3



LEGEND

-  **POTTSVILLE & ALLEGHENY**
(COAL, S.S., SH, L.S.)
PENNSYLVANIAN
-  **WAVERLY & MAXVILLE**
(SH, S.S., L.S.)
MISSISSIPPI
-  **OLENTANGY & OHIO (SHALES)**
DEVONIAN

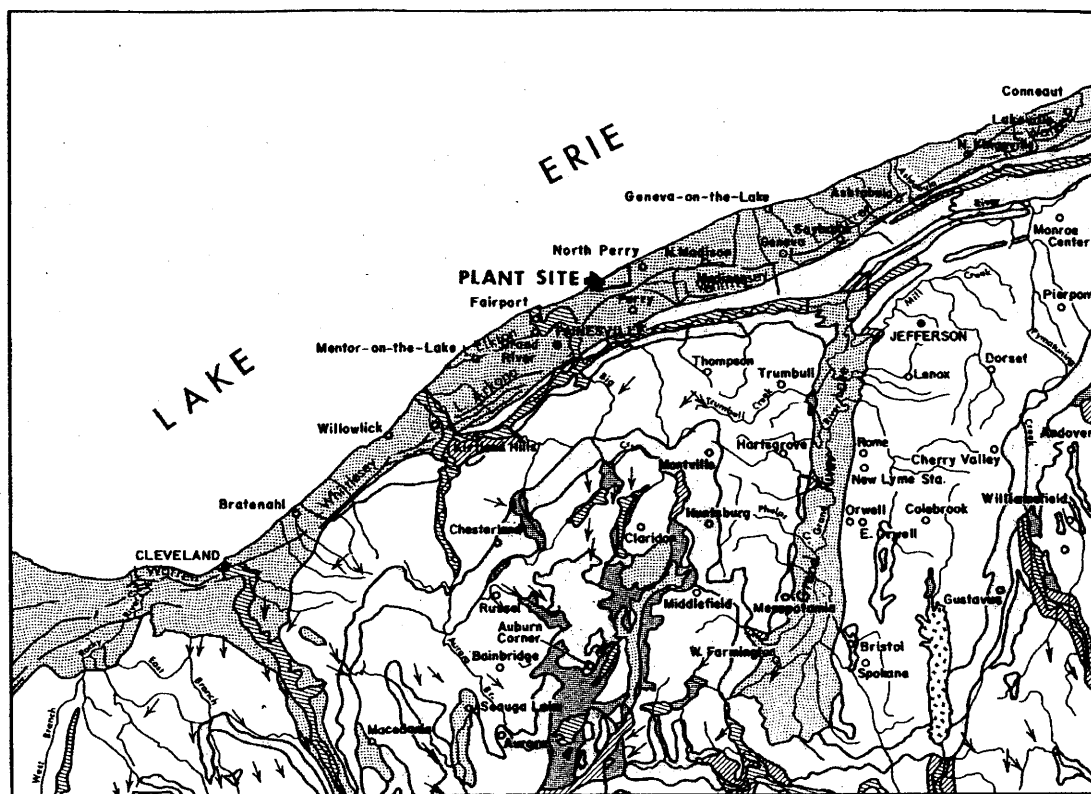
(Rev. 13 12/03)



PERRY NUCLEAR POWER PLANT











Bedrock Geologic Map of
Northeastern Ohio

Figure 2D-4



(AFTER REFERENCE 83)

LEGEND

-  GROUND MORaine - ILLINOIS
-  LACUSTRINE DEPOSITS - WISCONSIN
-  LACUSTRINE DEPOSITS - PRE-WISCONSIN
-  ALLUVIUM - WISCONSIN
-  OUTWASH - WISCONSIN
-  KAMES AND ESKERS - WISCONSIN
-  GROUND MORaine - WISCONSIN
-  END MORaine - WISCONSIN
-  BEACH DEPOSITS - WISCONSIN
-  STRIATIONS



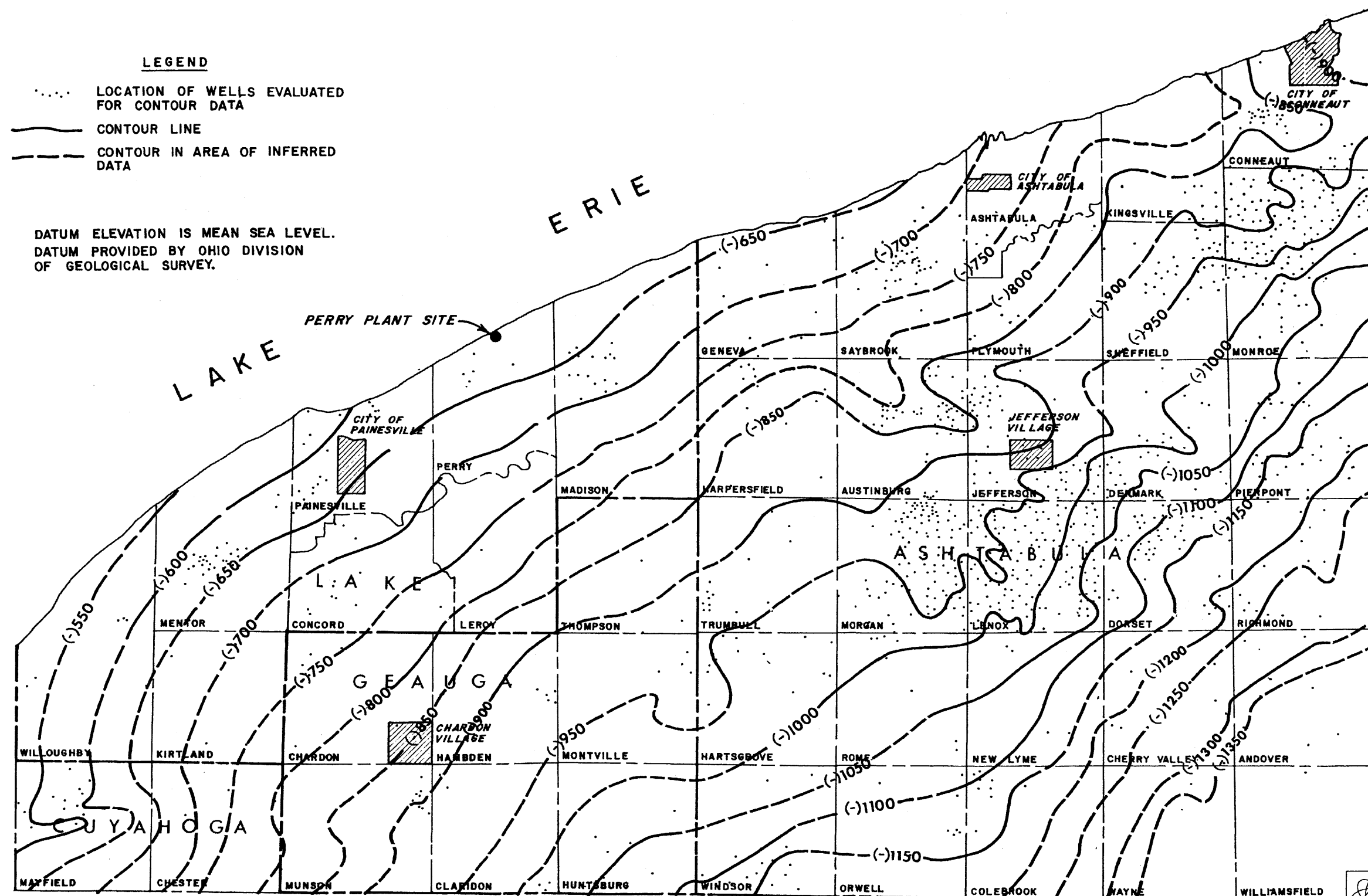
(Rev. 13 12/03)



PERRY NUCLEAR POWER PLANT

Glacial Map of
Northeastern Ohio

Figure 2D-5



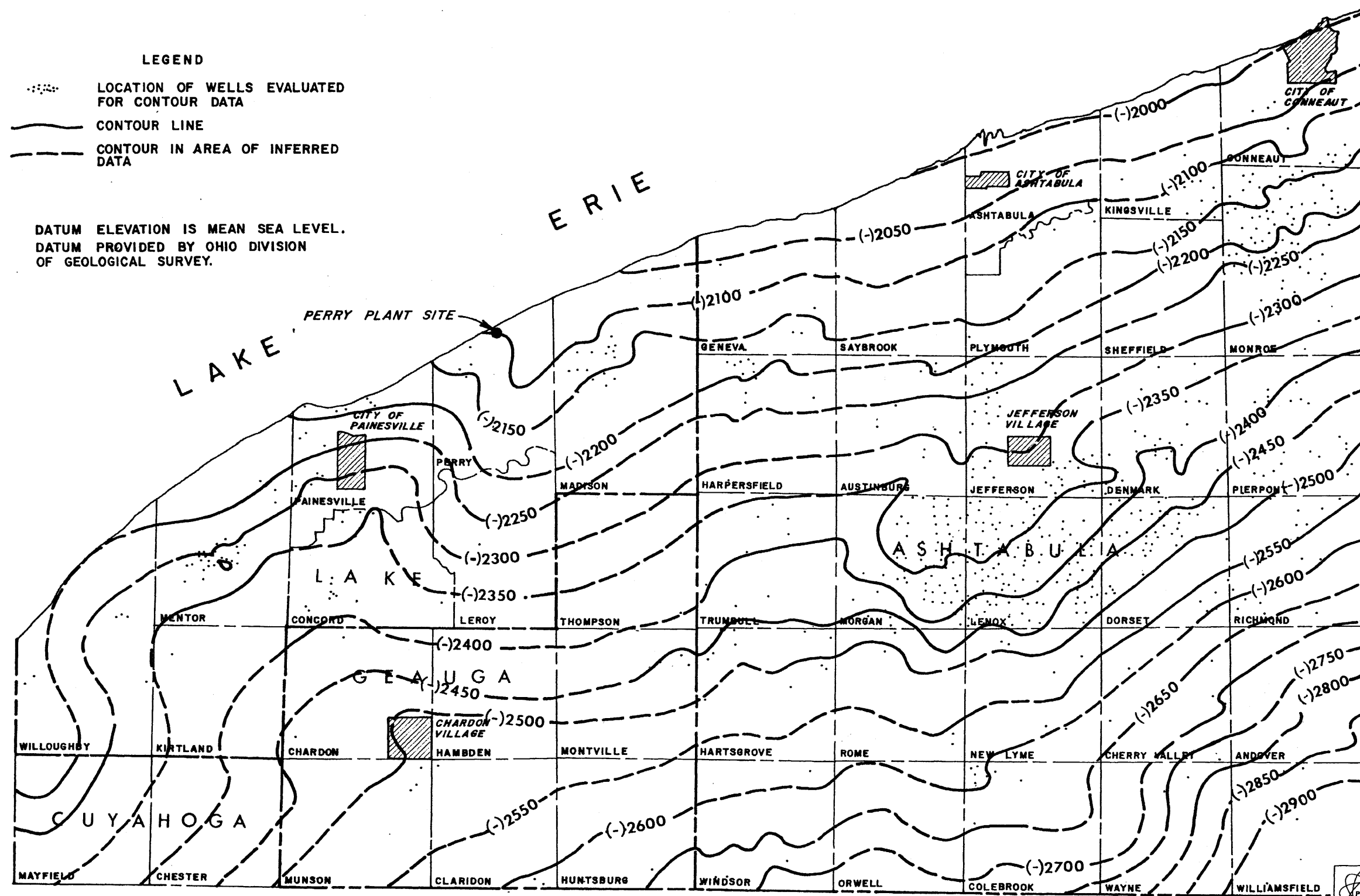
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Structural Contour Map -
Top of Big Lime

Figure 2D-6

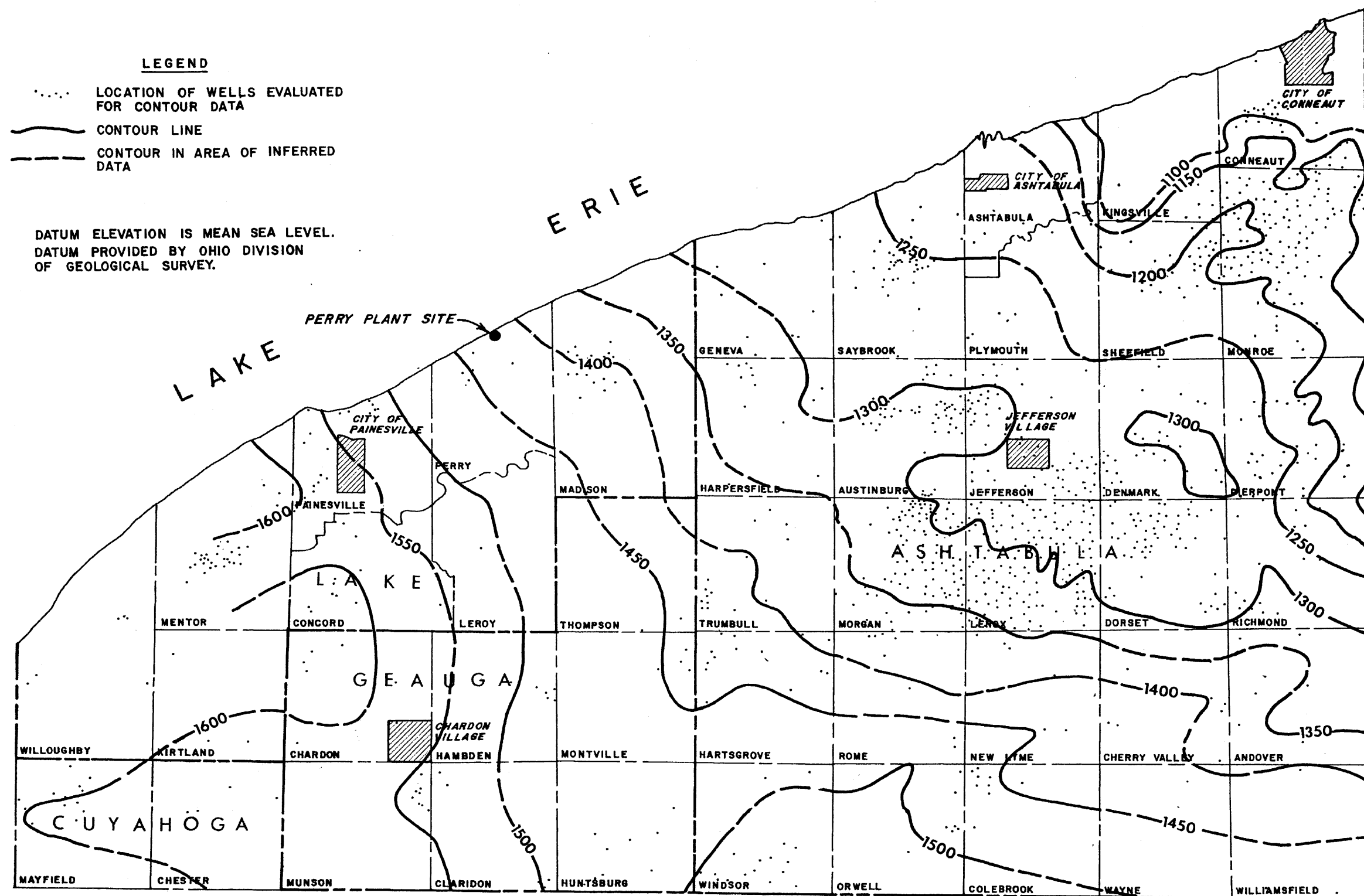


(Rev. 12 1/03)

PERRY NUCLEAR POWER PLANT

Structural Contour Map -
Top of Packer Shell

Figure 2D-7

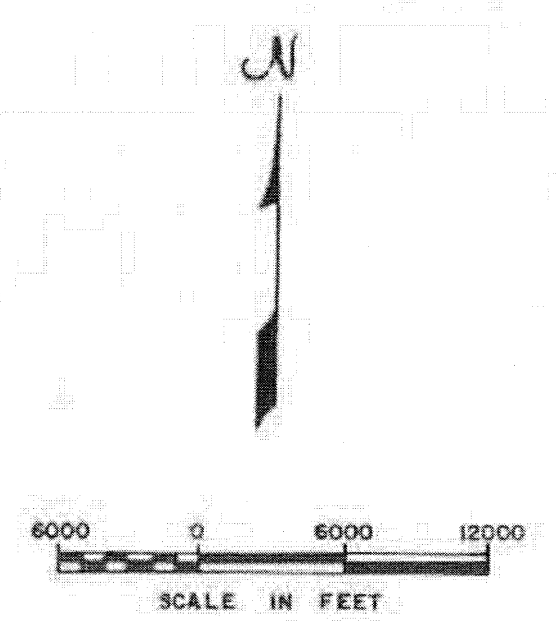
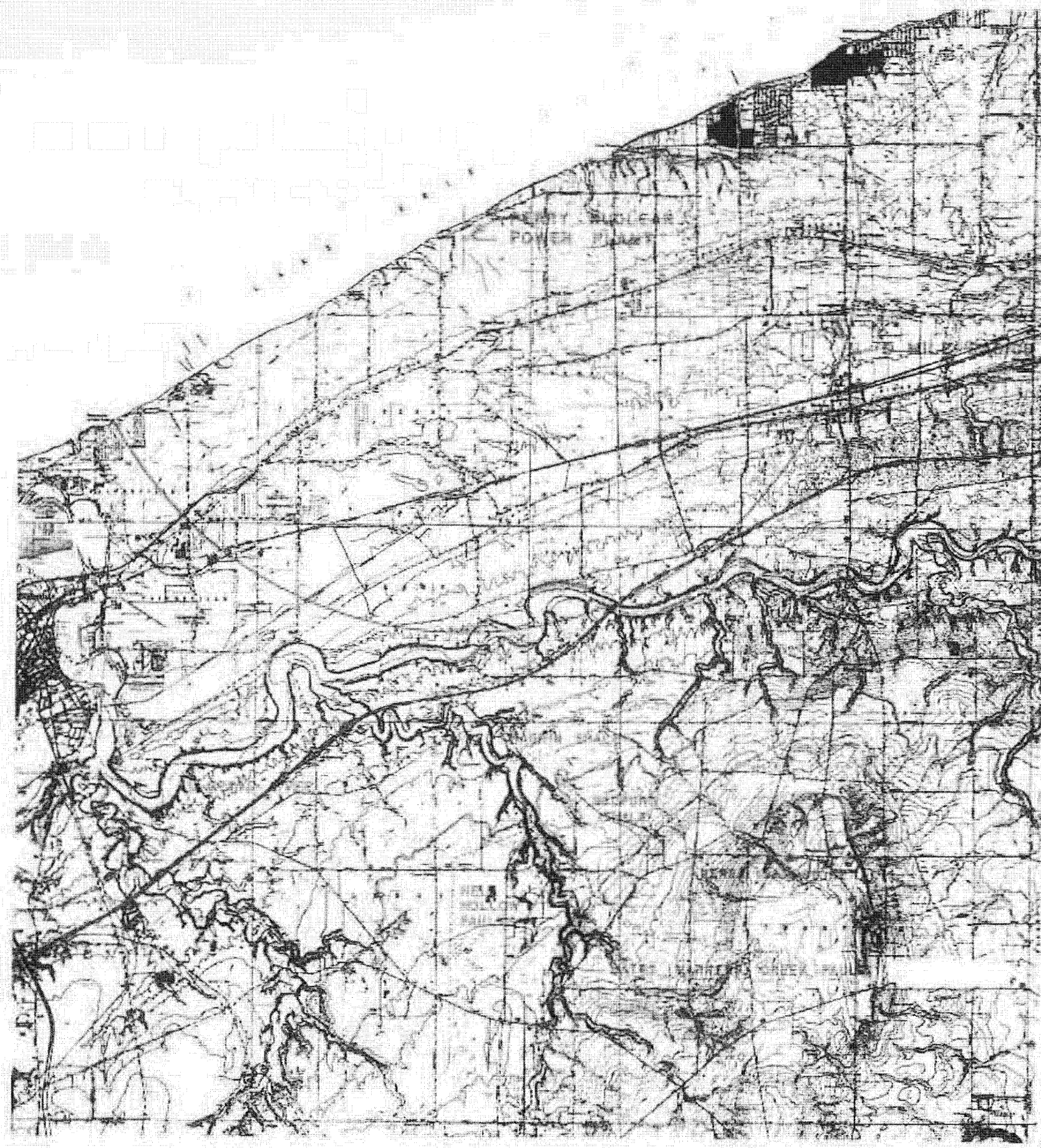


(Rev. 12 1/03)

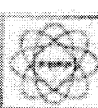
PERRY NUCLEAR POWER PLANT

Isopach Map Of Big Lime
 And Niagaran Shale

Figure 2D-8

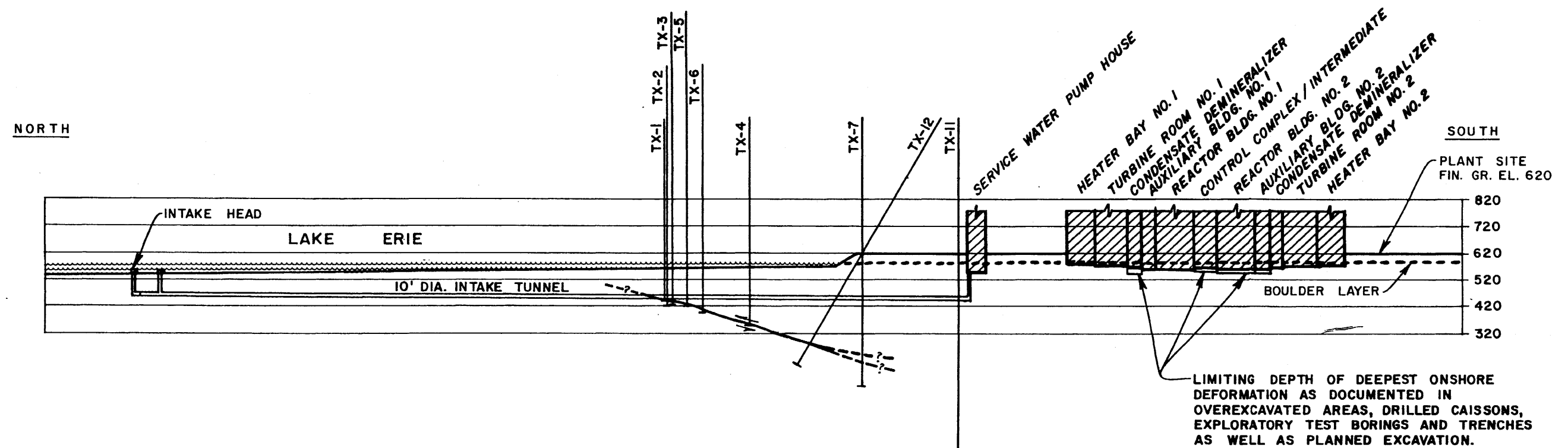


- LEGEND**
- OBSERVED OUTCROPS
 - APPROXIMATE CONTACT OF CHAGRIN SHALE - BEDFORD SHALE
 - APPROXIMATE CONTACT OF BEDFORD SHALE - BEREA SANDSTONE



(Rev. 12 1/03)
PERRY NUCLEAR POWER PLANT

Fault and Outcrop
 Location Map
 Figure 2D-9



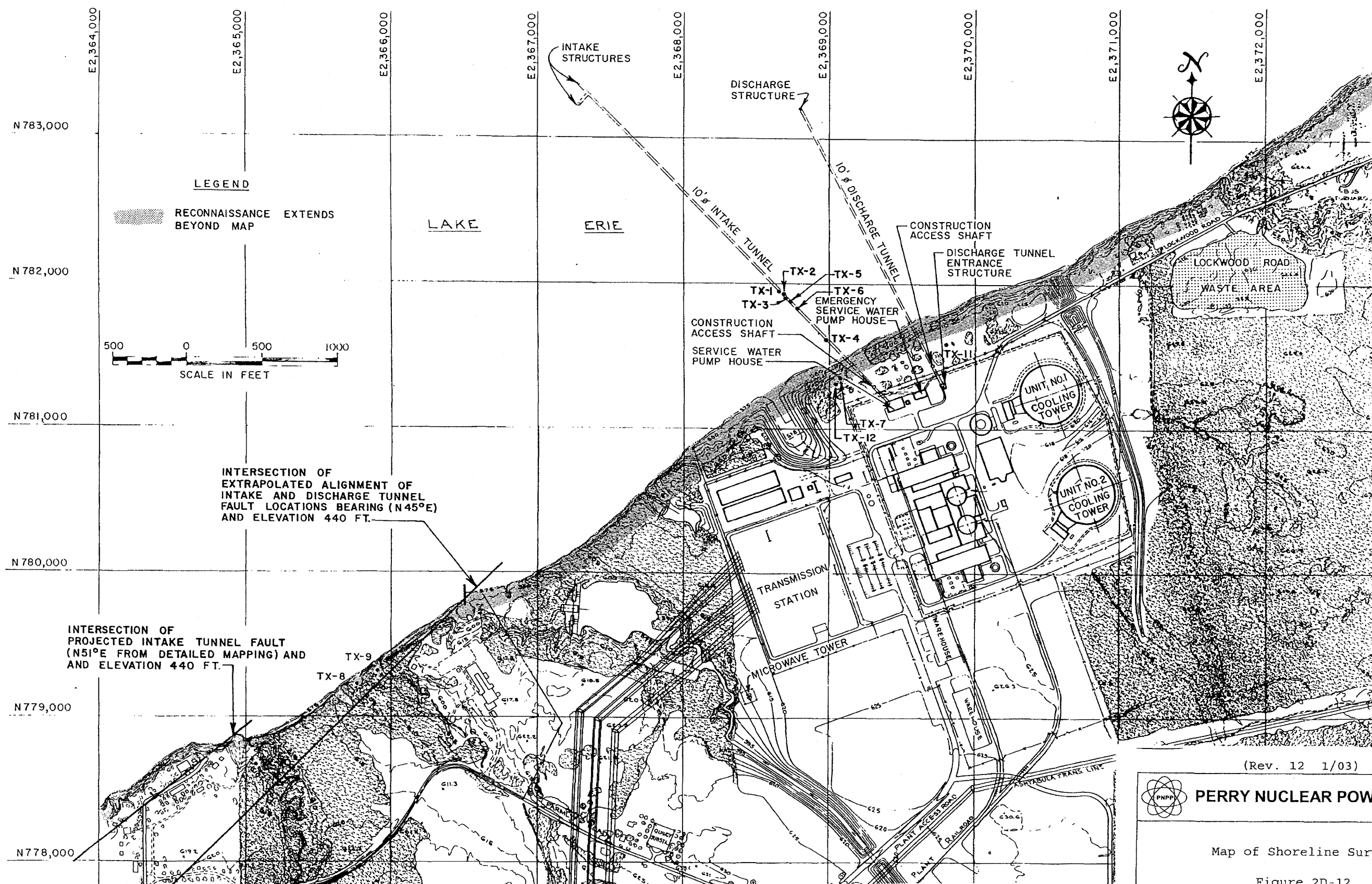
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Schematic Northwest-Southeast
 Cross Section,
 Perry Nuclear Power Plant

Figure 2D-10



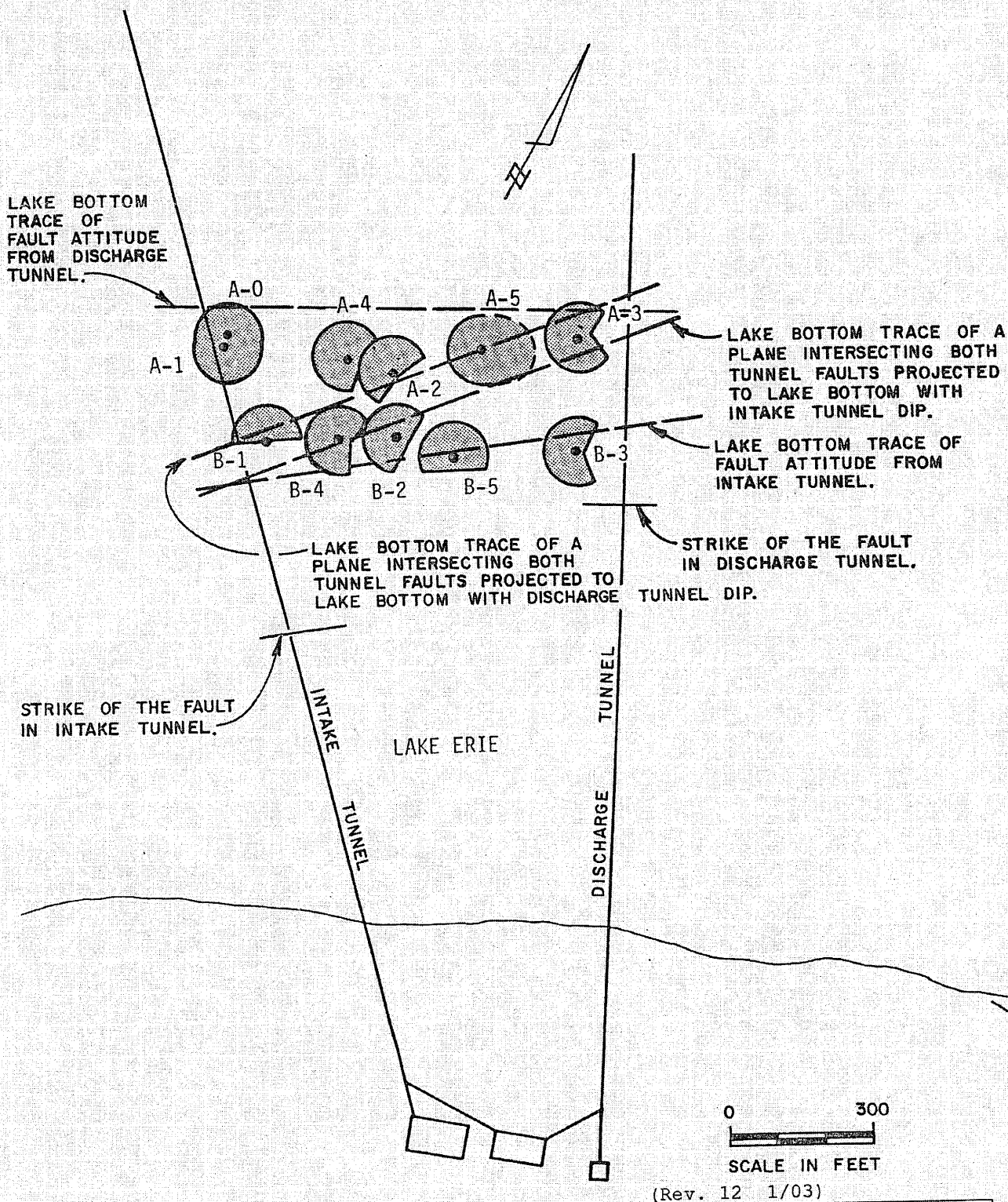
(Rev. 12 1/03)




PERRY NUCLEAR POWER PLANT

Map of Shoreline Survey

Figure 2D-12



• = STATION LOCATION

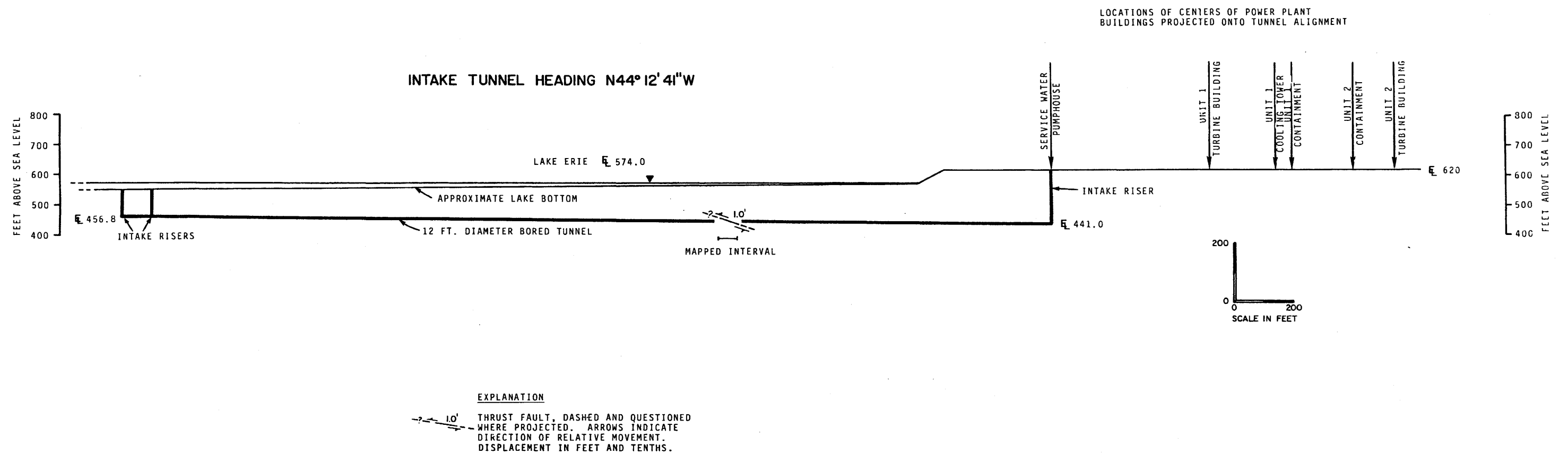
 = AREA OF COVERAGE ABOUT EACH STATION



PERRY NUCLEAR POWER PLANT

Location Map, Video
Survey Lake Erie Bottom

Figure 2D-13



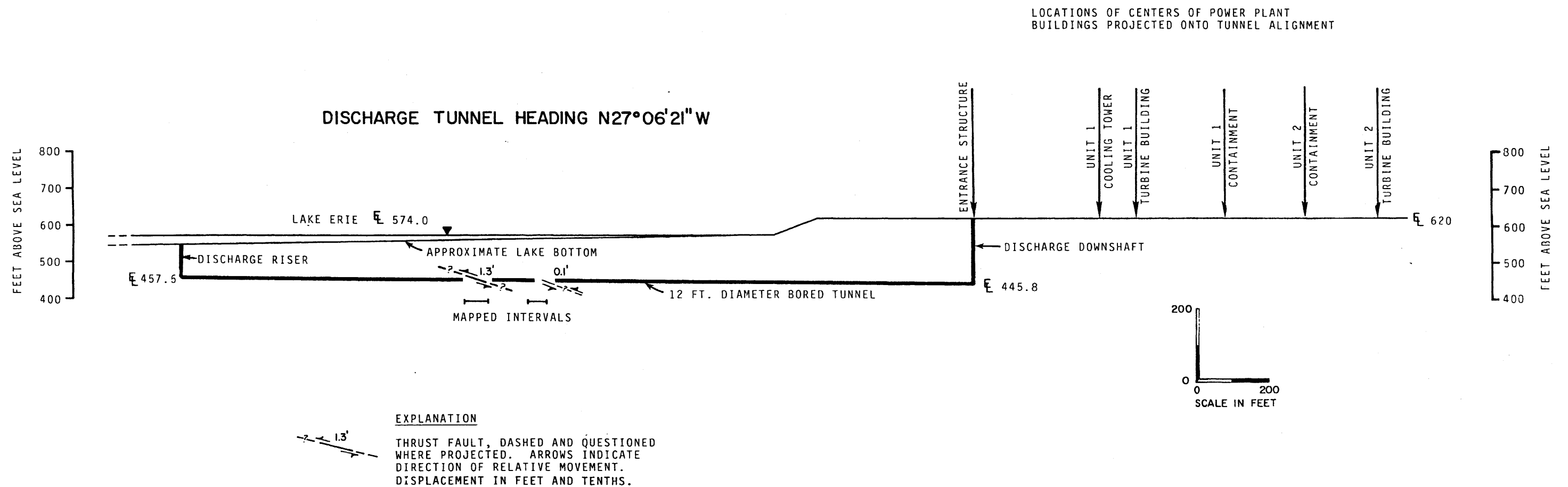
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Longitudinal Section,
Intake Tunnel

Figure 2D-14



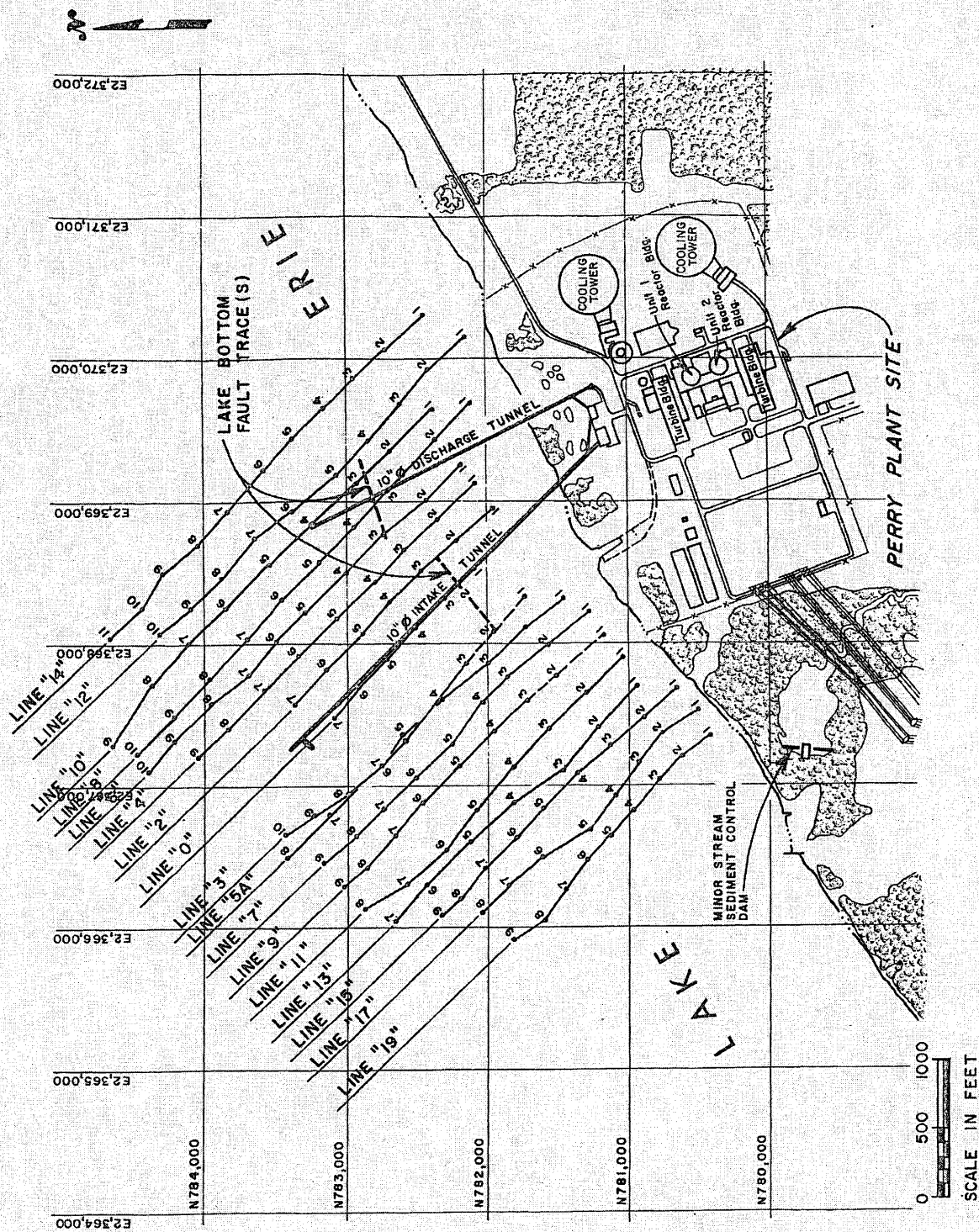
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Longitudinal Section,
Discharge Tunnel

Figure 2D-15



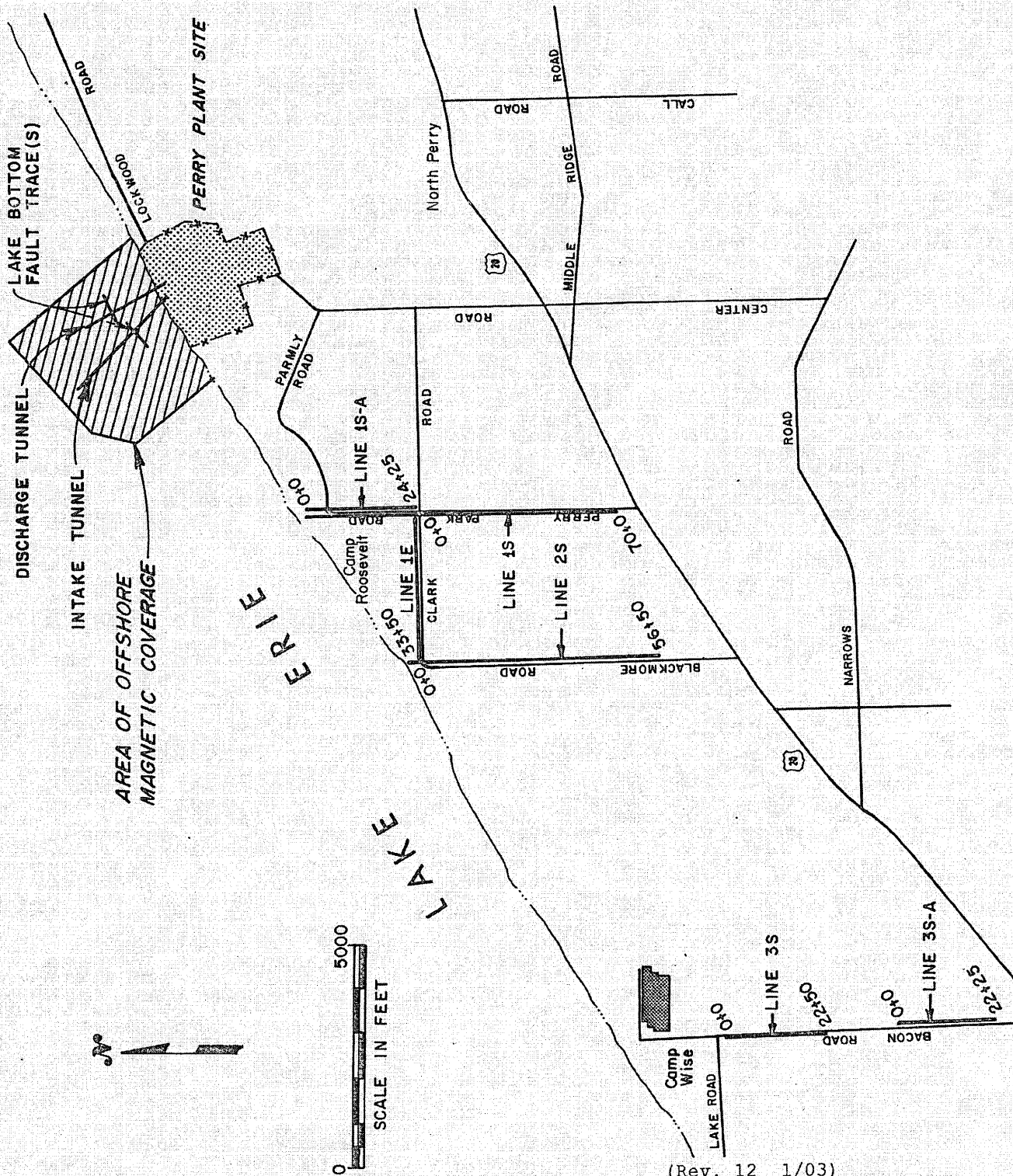
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Location Map,
Offshore Magnetic Survey

Figure 2D-16



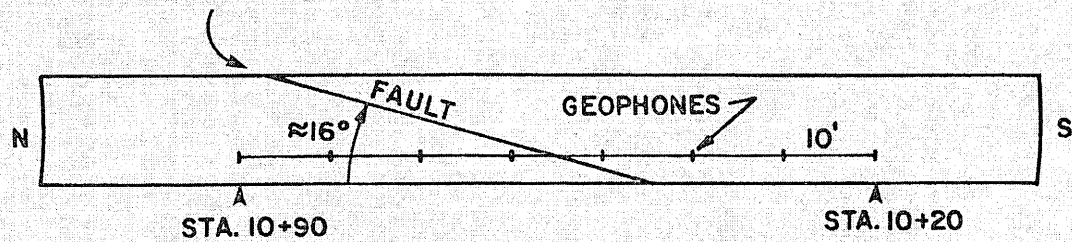
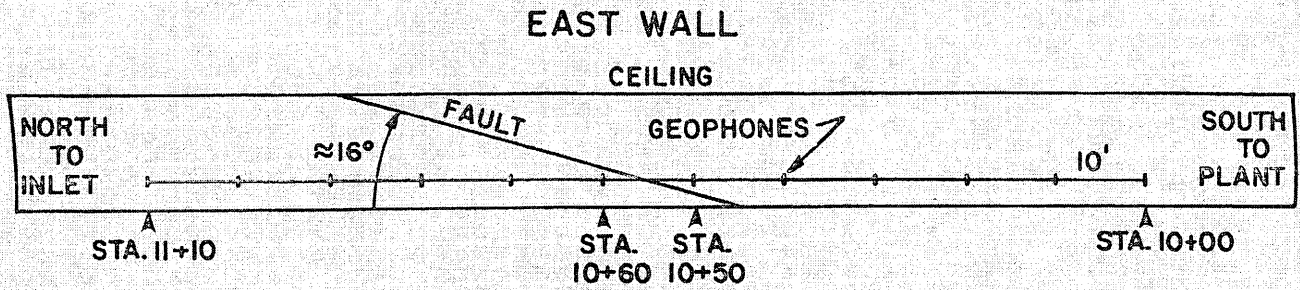
(Rev. 12 1/03)



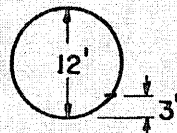
PERRY NUCLEAR POWER PLANT

Location Map,
Onshore Magnetic Survey

Figure 2D-17



3 ELEMENT GEOPHONE
AT EACH STATION



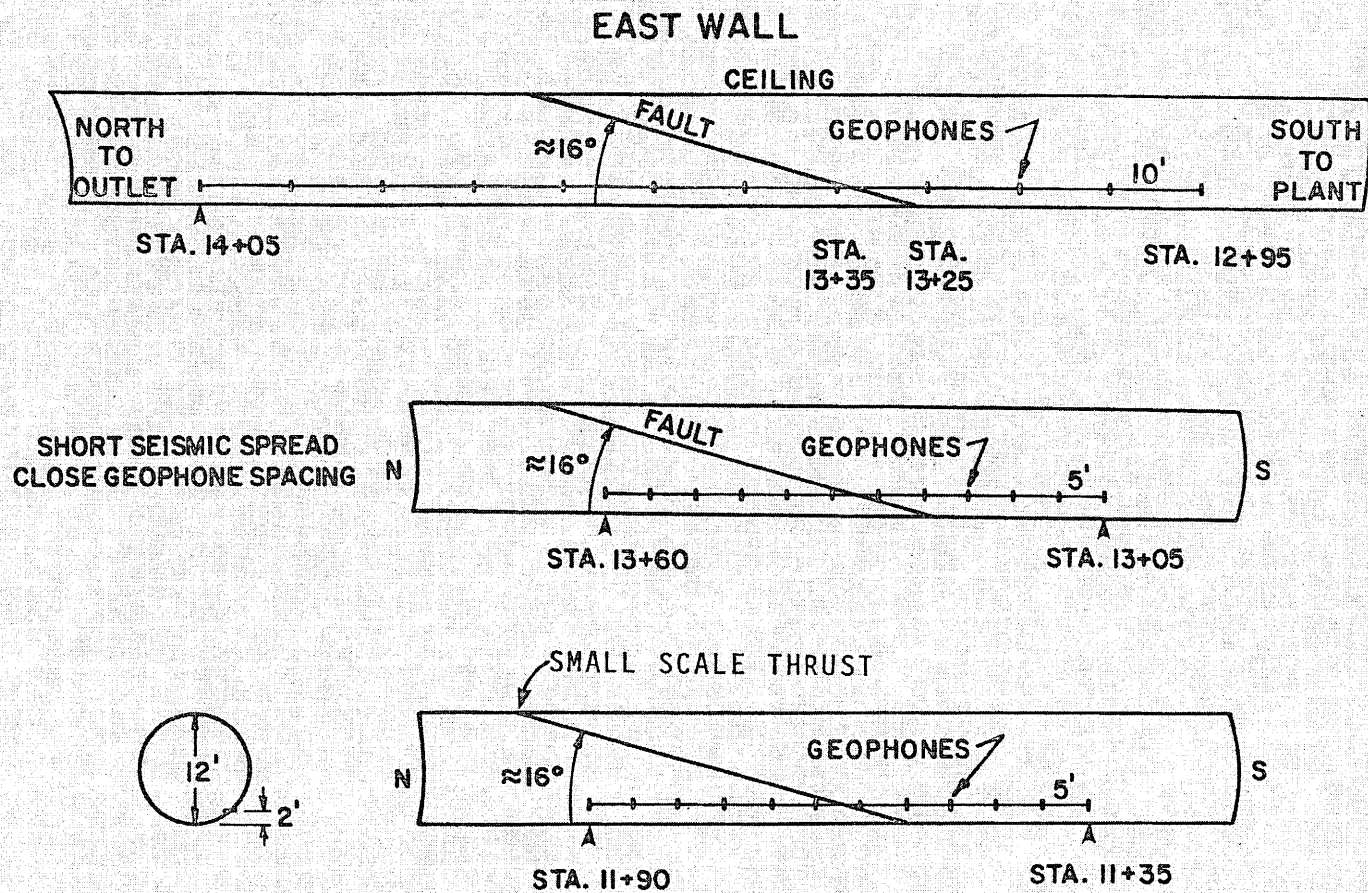
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Location Map,
Seismic Spreads, Intake Tunnel

Figure 2D-18



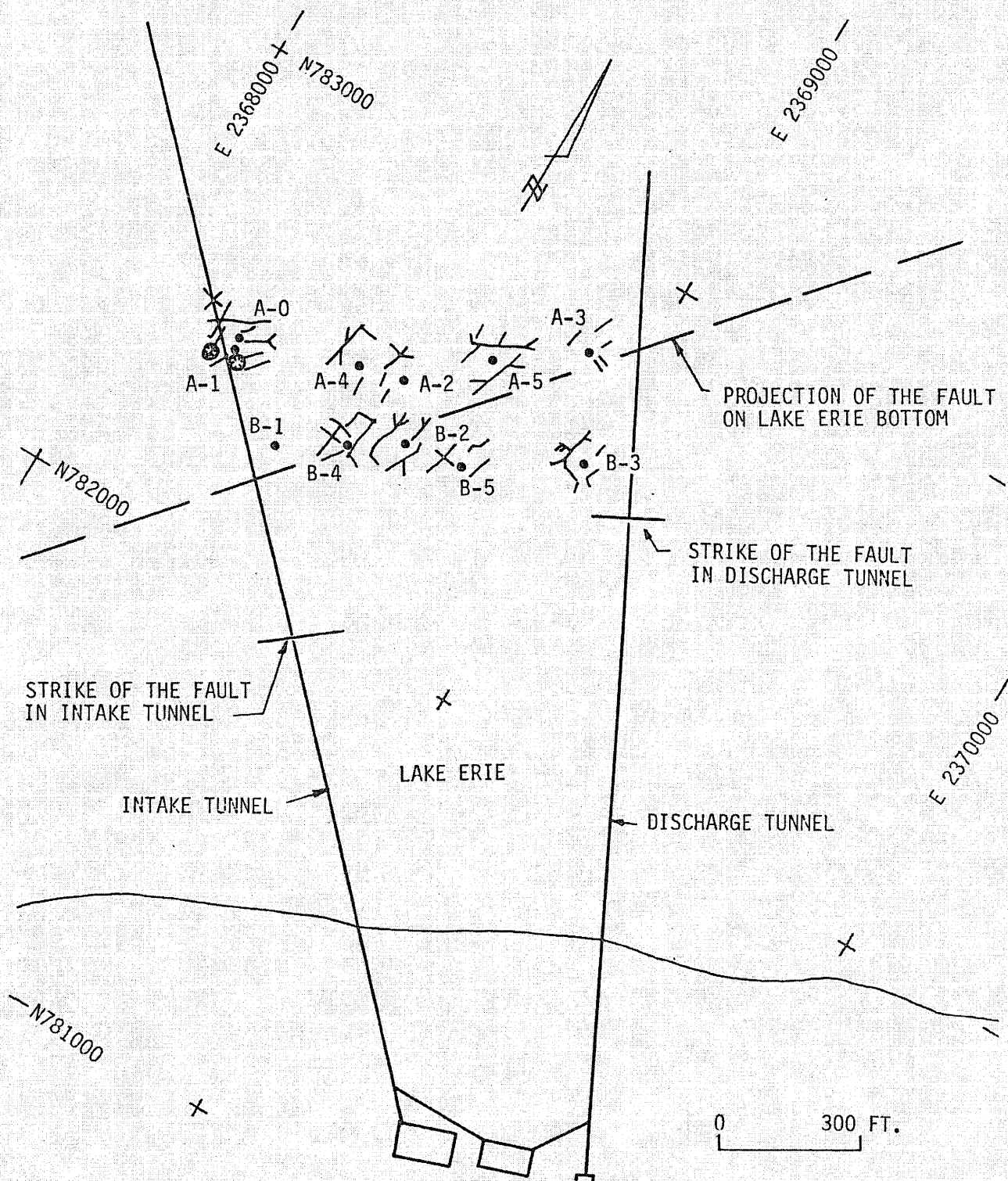
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Location Map,
Seismic Spreads, Discharge Tunnel

Figure 2D-19



• = STATION LOCATION

— = FRACTURE

⊙ = SHALLOW DEPRESSION IN BEDROCK SURFACE

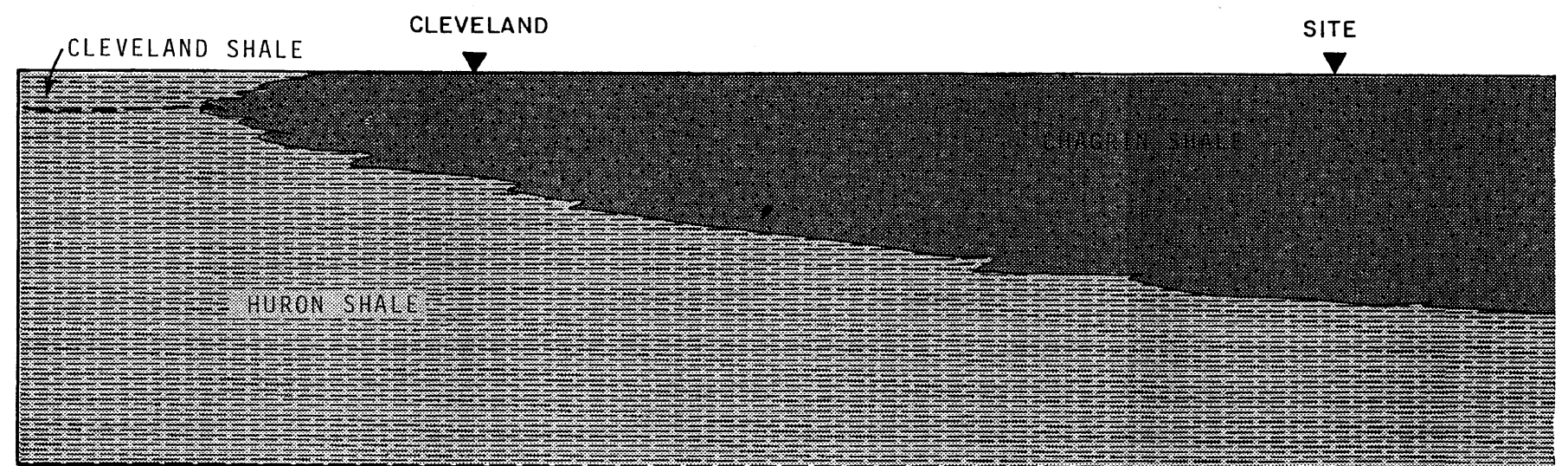
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Schematic Map,
Lake Bottom Fractures

Figure 2D-20



NOTE: SECTION ORIENTED NORTHEASTERLY.

(Rev. 12 1/03)




PERRY NUCLEAR POWER PLANT

Sketch of Facies Relationships
Among the Huron, Chagrin,
& Cleveland Shales

Figure 2D-21

[illegible][illegible]

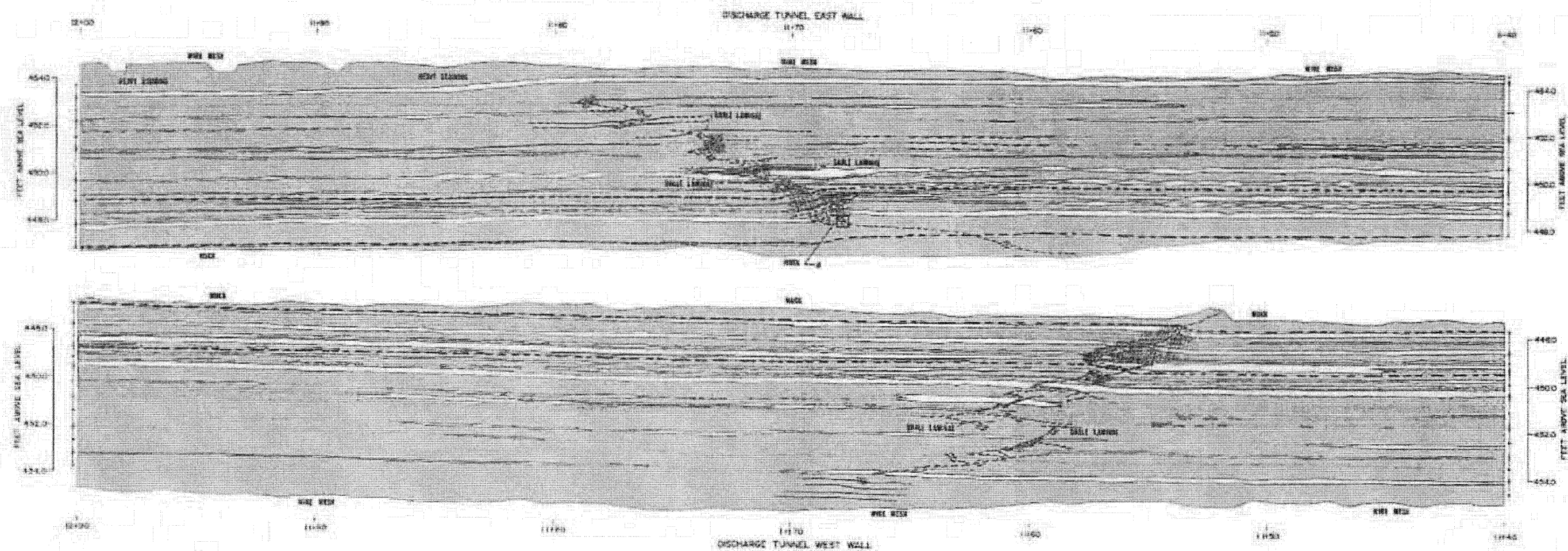
1. MAP TAKEN DIRECTLY FROM PHOTOGRAPHIC IMAGE
FIXING PLANS ARE WAPPED, NOT INDENTED
MULTIPLE SETS OR STRATIFICATION UNITS
2. LINES INDICATED BY STATIONING AND ELEVATION TICKS
VARIATION DUE TO PHOTOGRAPHIC DISTORTION












PERRY NUCLEAR POWER PLANT

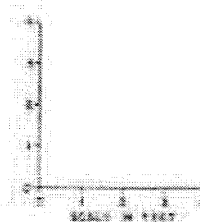
Detailed Map,
Intake Pinnal Fault

Figure 2D-22



EXPLANATION

- 
 FAULT GOUGE ZONE. GRAY, PLASTIC CLAY
 GOUGE MATRIX WITH AGGREGATE OF
 RANDOMLY ORIENTED SLTSTONE
 AND SHALE FRAGMENTS.
- 
 FAULT GOUGE STRINGER <0.1 FT. THICK.
 ARROWS INDICATE DIRECTION OF RELATIVE
 MOVEMENT.
- 
 JOINT / FRACTURE PATTERN.
- 
 SLTSTONE.
- 
 SLTSTONE LAMINA, DASHED WHERE BEDDING
 PLANE CONTINUOUSLY MAPPED BUT SLTSTONE
 LITHOLOGY PINCHED OUT.
- 
 SHALE.
- 
 SHALE LAMINA, AS LABELED.
- 
 IRONSTONE CONCRETIONS.
- 
 MICRO-GRACE SAMPLE LOCATION NUMBER GIVEN



(Rev. 12-1-03)

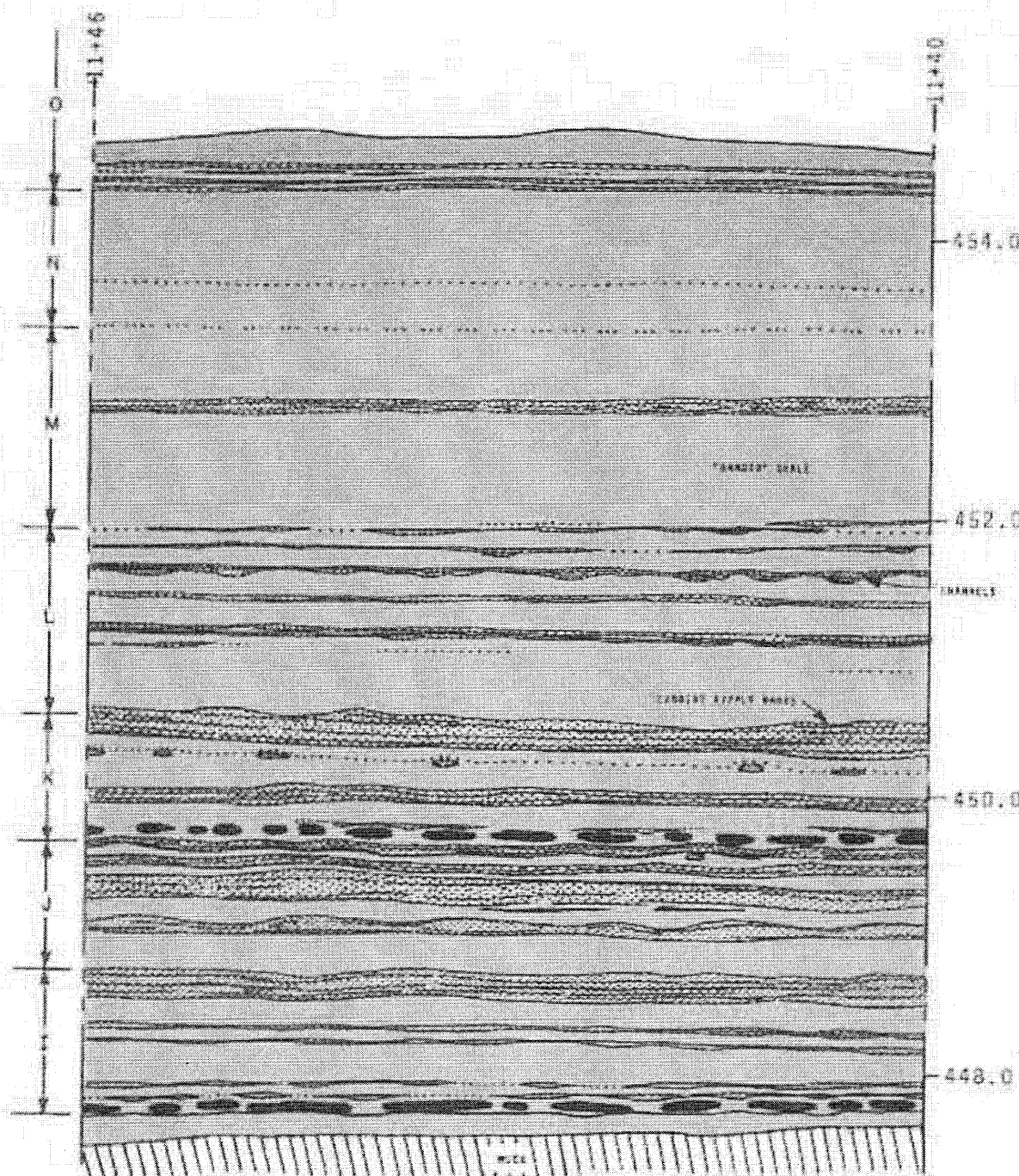


PERRY NUCLEAR POWER PLANT

Detailed Stratigraphic Section,
Intake Tunnel East Wall Station
10-30-1045

Figure 2D-24

DISCHARGE TUNNEL EAST WALL



- UNIT O: CLAY SHALE: DARK GRAY, WITH BLOCKY FRACTURE, LAMINATED BY REDDISH-BLACK (CARBONACEOUS) SILTSTONE. TOP OF UNIT IS 4 IN THICK ZONE OF INTERLAMINATED SILTSTONE AND SILTY SHALE. BASEL 8 IN IS GRAYISH-WHITE, INTERLAMINATED DARK-BLACK CLAY SHALE, LIGHT GRAY SILTSTONE, AND DISCONTINUOUS CLAY SHALE. SILTSTONE IN LOWER PART THICK AND SWELL, SINCE LACKS 2 TO 3 MM IN THICKNESS. UPPER PART SILTSTONE OF THIS BEDDING BECOMES MUCH THICKER NORTH OF STATION 11+40.
- UNIT N: CLAY SHALE: DARK GRAY, WITH BLOCKY TO CONCHOIDAL FRACTURE, WITH DISCONTINUOUS MEDIAL SILTSTONE BEDS, ABOUT 1 CM THICK. DISCONTINUOUS PARALLEL LAMINAE, 1 TO 2 MM THICK, OF LIGHT GRAY SILTSTONE AND BROWNISH-GRAY (PERMANENTLY) CLAY SHALE WITH COMMON FINE MEDIAL SILTSTONE. SINGLE DISCONTINUOUS SILTSTONE LAMINAE NEAR BASE OF UNIT. UNIT N-JAY M. FUNDAMENTAL IS A STANDING SURFACE AT THIS STATION. NORTHWARD FROM STATION 11+40, A PERMANENT SILTSTONE SEPARATES UNIT N AND M.
- UNIT M: CLAY SHALE AND SILTSTONE: DARK GRAY, MASSIVE, WITH BLOCKY TO CONCHOIDAL FRACTURE. PERIODIC ZONE OF SILTSTONE CONSISTS OF BROWNISH-WHITE LAMINAE, 1 TO 2 MM THICK, OF LIGHT GRAY SILTSTONE AND BROWNISH-GRAY SILTY SHALE, OVERLAIN BY A SINGLE DISCONTINUOUS (Lenticular) BED OF LIGHT GRAY SILTSTONE. (CARBONACEOUS) CLAY SHALE AS VERY THIN DISCONTINUOUS PARALLEL LAMINAE ABOVE MEDIAL SILTSTONE, AND AS PLANE CONTINUOUS PARALLEL LAMINAE IN LOWER PART OF UNIT. BASAL ONE HALF HAS "BANDER" ASPECT.
- UNIT L: CLAY SHALE AND SILTSTONE: LOWER ONE-HALF IS CLAY SHALE, DARK GRAY, WITH NUMEROUS DARK BROWNISH-GRAY, FINGERING (??), BROWNISH-WHITE LAMINAE, WITH "BANDER" ASPECT. BLOCKY FRACTURE. UPPER ONE-HALF IS GRAY CLAY SHALE WITH SEVERAL BROADLY WAVE SILTSTONE BEDS UP TO 2 CM IN THICKNESS. UPPER PART DISCONTINUOUS. LOWER BEDS CONTINUOUS. SMALL CHANNELS PRESENT AS SHOWN.
- UNIT K: CLAY SHALE, SILTSTONE, AND IRONSTONE: DARK GRAY, SLIGHTLY SILTY CLAY SHALE WITH CONCHOIDAL FRACTURE, WITH NUMEROUS BROADLY WAVE THIN LAMINAE OF BROWNISH-WHITE FINGERING (??) CLAY SHALE. SPREADING 2 CM IS GRAY MEDIAL ZONE OF FLUENT, THINLY INTERLAMINATED SILTSTONE AND ONLY SILTSTONE WITH PARALLEL OF DARK GRAY SHALE. SOUTHWARD THE TOP OF THIS SILTSTONE IS RIPPLE MARKED. MEDIAL SILTSTONE, UP TO 2 CM THICK, HAS STRAIGHT-TOASTED CURRENT RIPPLES AT TOP. BASE OF UNIT CONTAINS BED OF CLUSTER SHALED IRONSTONE CONCRETIONS ABOUT 1.5 CM THICK.
- UNIT J: CLAY SHALE AND SILTSTONE: DARK GRAY CLAY SHALE, WITH NUMEROUS THIN LAMINAE, 1 TO 2 MM THICK, OF DARK BROWNISH-GRAY FINGERING (??) CLAY SHALE. UPPER PART 10 CM IS WAVE BEDDED ZONE OF FLUENT, THINLY INTERLAMINATED LIGHT-GRAY SILTSTONE AND DARK, DARK-GRAY SHALE. THIN LAMINAE OF CLAY SHALE OF DARK SILTSTONE LAMINAE. MICRO-BURROWS. BOTTOM LAMINAE OF TOP OF SILTSTONE LAMINAE. CONTINUOUS.
- UNIT I: CLAY SHALE, SILTSTONE, AND IRONSTONE: SAME TENDENCY AS UNIT K, EXCEPT AS INDICATED GRAPHICALLY.
- NOTE: UNITS J AND K WERE RECORDED AND DESCRIBED BY STATION 11+40, UNITS L THROUGH V WERE MEASURED AND DESCRIBED AT STATION 11+46.

EXPLANATION

- SILTSTONE.
- SILTSTONE LAMINA, DASHED WHERE BEDDING PLANE CONTINUOUSLY MAPPED BUT SILTSTONE LITHOLOGY PINCHED OUT.
- SHALE.
- IRONSTONE CONCRETIONS.

(Rev. 12 1/03)

PERRY NUCLEAR POWER PLANT

Detailed Stratigraphic Section,
Discharge Tunnel
East Wall Station 11+40-11+46

Figure 2D-25

This geological cross-section illustrates the upper part of the Silurian section at the base of the Devonian. The section is oriented vertically, with elevations marked on the right side: 454, 452, 450, and 448. On the left, a vertical scale is marked with letters O, N, M, L, K, J, and I. The section shows several distinct rock units and structural features:

- Top Unit:** A thick, light-colored unit at the top, labeled "EDGE OF INTERLAMBIC SILTSTONE AND SILTY SHALE".
- Jointed Zone:** A zone below the top unit, characterized by numerous small, dark, horizontal dashes, labeled "JOINTS".
- "Banded" Shale:** A zone below the jointed zone, characterized by alternating light and dark horizontal bands, labeled "'Banded' SHALE".
- Flinty Silty Sandstone with Small Laminar Crinoid Stems:** A zone below the banded shale, characterized by a wavy, flinty texture, labeled "FLINTY SILTY SANDSTONE WITH SMALL LAMINAR CRINOID STEMS".
- Thinly Bedded Shale:** A zone below the flinty sandstone, characterized by thin, horizontal layers, labeled "THINLY BEDDED SHALE".
- Horizontal Plates:** A zone below the thinly bedded shale, characterized by horizontal, plate-like structures, labeled "HORIZONTAL PLATES".
- Base Unit:** A zone at the bottom, characterized by a dense, stippled texture, labeled "MUD".

The section also shows several structural features, including a "JOINT" indicated by a curved arrow and a "FOLD" indicated by a curved arrow. The overall structure is characterized by a series of horizontal layers, with some folding and jointing visible.

UNIT 5: CLAY SHALE. DARK GRAY, WITH SLIGHT FRACTURING. ANIMATED BY MEDIAL ZONE OF LENTICULATED CLAY SHALE. TOP OF UNIT IS 8 IN. LENSEL ZONE OF INTERLAMINATED SILTSTONE AND SILT SHALE. BASEL 8 IN. TO 10 IN. WAVEY. INTERLAMINATED GRAY SILT SHALE. LENTIL ZONE OF GRAY SILTSTONE, AND INTERLAMINATED GRAY CLAY SHALE. LENTICULES IN LOWER PART FINE AND WAVEY. WAVEY FROM 1 TO 2 IN. IN THICKNESS. UPPER MOST LENTICULE OF UNIT MEASURES APPROX 1/2 IN. THICK. NORTH OF STATION 11-40.

UNIT 6: CLAY SHALE. DARK GRAY, WITH FINGER TO CONGOIDAL FRACTURE. LENTIL ZONE OF MEDIAL SILTSTONE ZONE. ABOUT 1 CM. IN THICK. DISCONTINUOUS PARALLEL LAMINAE 1/2 TO 1 MM. THICK. CLAY TO LIGHT GRAY SILTSTONE AND BROWNISH BLACK FERRUGINOUS(?) CLAY SAND. VERY COMMON ABOVE MEDIAL SILTSTONE. SINGLE HINGULOUS SILTSTONE LAMINAE NEAR BASE OF UNIT. UNIT 6 UNIT 6 MEASURES 15 IN. AT STATION SURFACE. AT THIS STATION, NORTHWARD FROM STATION 11-40, A PROMINENT SILTSTONE SEPARATES UNIT 6 AND 7.

UNIT 7: CLAY SHALE AND SILTSTONE. DARK GRAY, WAVEY, WITH SLIGHT TO CONGOIDAL FRACTURE. MEDIAL ZONE OF SILTSTONE CONSISTS OF RADIAL WAVEY INTERLAMINATIONS OF LIGHT GRAY SILTSTONE AND BROWNISH GRAY SILT SHALE. OVERLAP BY SINGLE DISCONTINUOUS LENTICULES BUD OF LIGHT GRAY SILTSTONE. FERRUGINOUS(?) CLAY SHALES AS VERY THIN DISCONTINUOUS PARALLEL LAMINAE ABOVE MEDIAL SILTSTONE, AND AS PLAIN CONTINUOUS PARALLEL LAMINAE IN LOWER PART OF UNIT. BASEL ONE-HALF HAS "BANDING" EFFECT.

UNIT 8: CLAY SHALE AND SILTSTONE. LOWER ONE-HALF IS CLAY SHALE, DARK GRAY, WITH MINOR WAVEY DARK BROWNISH GRAY, FERRUGINOUS(?) RADIAL WAVEY LAMINAE WITH "BANDING" EFFECT. UPPER PART, UPPER ONE-HALF IS GRAY CLAY SHALE WITH SLIGHT, BROWNISH WAVEY SILTSTONE BUDS UP TO 1/2 IN. IN THICKNESS. UPPER PART STAGNANT, LOWER PART LENTICULATED. ONE CHANNELS BUDS AT STATION.

UNIT 9: CLAY SHALE, SILTSTONE, AND CONGLOMERATE. BROWNISH, LENTICULATED CLAY SHALE WITH FINGER TO CONGOIDAL FRACTURE. WAVEY MEDIAL ZONE WITH TWO LAMINAE OF BROWNISH WAVEY FERRUGINOUS(?) CLAY SHALE. APPROXIMATE 6 CM. IN WAVEY MEDIAL ZONE OF FINGER, WAVEY INTERLAMINATED SILTSTONE AND GRAY SILTSTONE WITH PARALLEL OF DARK GRAY SHALE. DOWNWARD. THE TOP OF THIS SILTSTONE IS BROWN-WAVEY MEDIAL SILTSTONE UP TO 1 CM. IN THICK. HAS BROWNISH-CHIEFLY WAVEY WAVEY AT THE BASE OF UNIT. CONTAINS BUD OF 2 CM. IN THICK. FINGERING CONGLOMERATE ABOUT 2 IN. IN THICK.

UNIT 10: CLAY SHALE AND SILTSTONE. DARK GRAY CLAY SHALE WITH MINOR WAVEY FINGER LAMINAE 1/2 TO 1 MM. WAVEY OF DARK BROWNISH GRAY. FERRUGINOUS(?) CLAY SHALE. APPROXIMATE 10 CM. IN WAVEY FINGER ZONE OF FINGER, WAVEY INTERLAMINATED LIGHT GRAY SILTSTONE AND LIGHT GRAY CLAY SHALE. SHALE 1 CM. LENSIL ZONE. BASEL WAVEY SILTSTONE LAMINAE. MEDIAL ZONE OF SILTSTONE LAMINAE IN BASE OF SILTSTONE LAMINAE. DOWNWARD. UNIT 10 CONTAINS A MEDIAL FINGERING AND WAVEY BUD OF SILTSTONE.

UNIT 11: CLAY SHALE, SILTSTONE, AND CONGLOMERATE. SAME COMPOSITION AS UNIT 9, EXCEPT AS INDICATED ABOVE.

UNIT 12 AND 13 WERE MEASURED AND DESCRIBED AT STATION 11-40. UNIT 14 THROUGH 16 WERE MEASURED AND DESCRIBED AT STATION 11-42.

FAULT GOUGE ZONE. GRAY, PLASTIC
CLAY GOUGE MATRIX WITH AGGREGATE
OF RANDOMLY ORIENTED SILTSTONE
AND SHALE FRAGMENTS.


SILTSTONE.

SILTSTONE LAMINA, DASHED WHERE
BEDDING PLANE CONTINUOUSLY MAPPED
BUT SILTSTONE LITHOLOGY PINCHED
OUT.

SHALE.

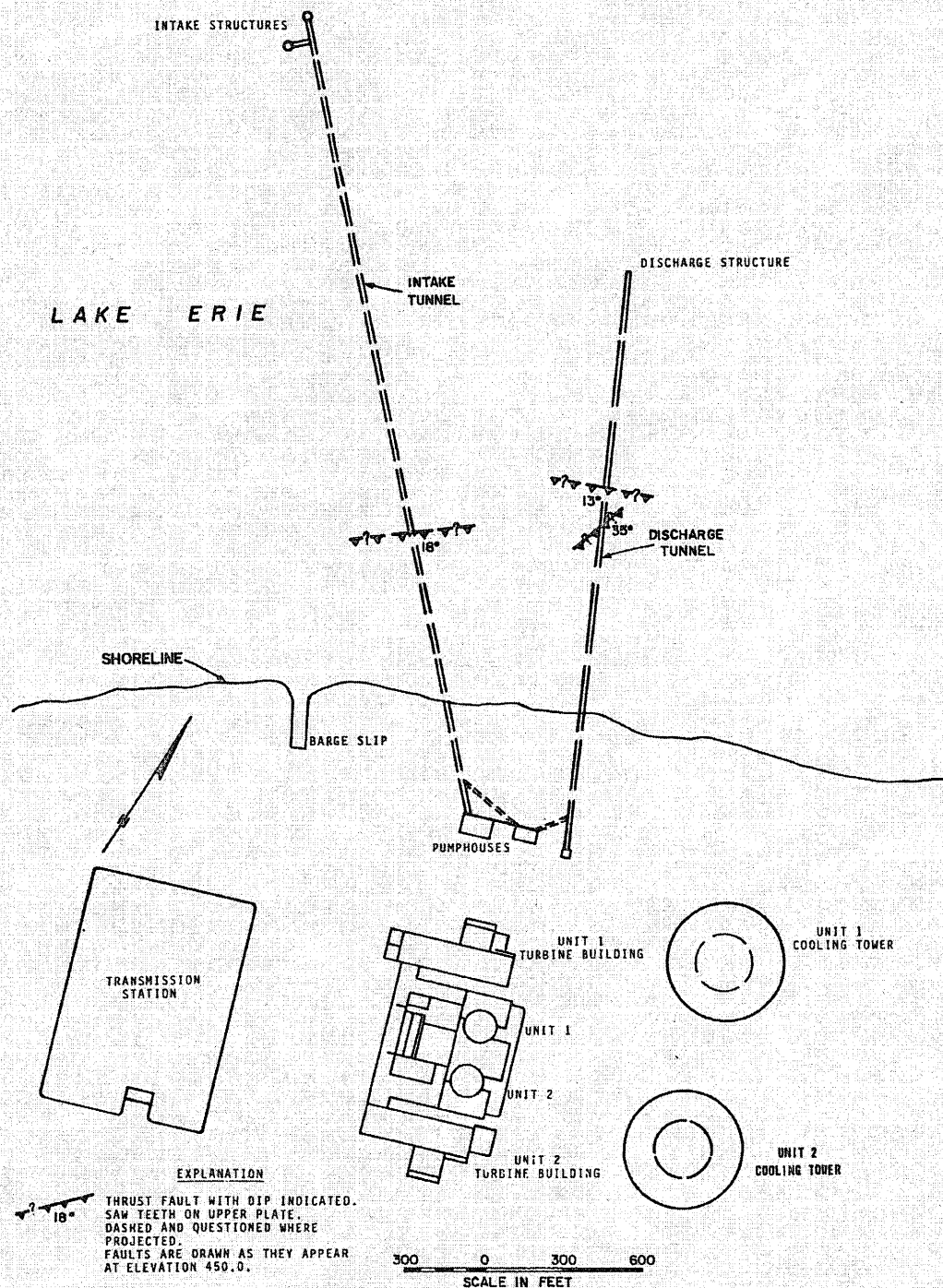
IRONSTONE CONCRETIONS.

(Rev. 12 1/53)

 **PERRY NUCLEAR POWER PLANT**

Detailed Stratigraphic Section,
Discharge Tunnel East Wall
Station 13-22-13-25

Figure 2D-26



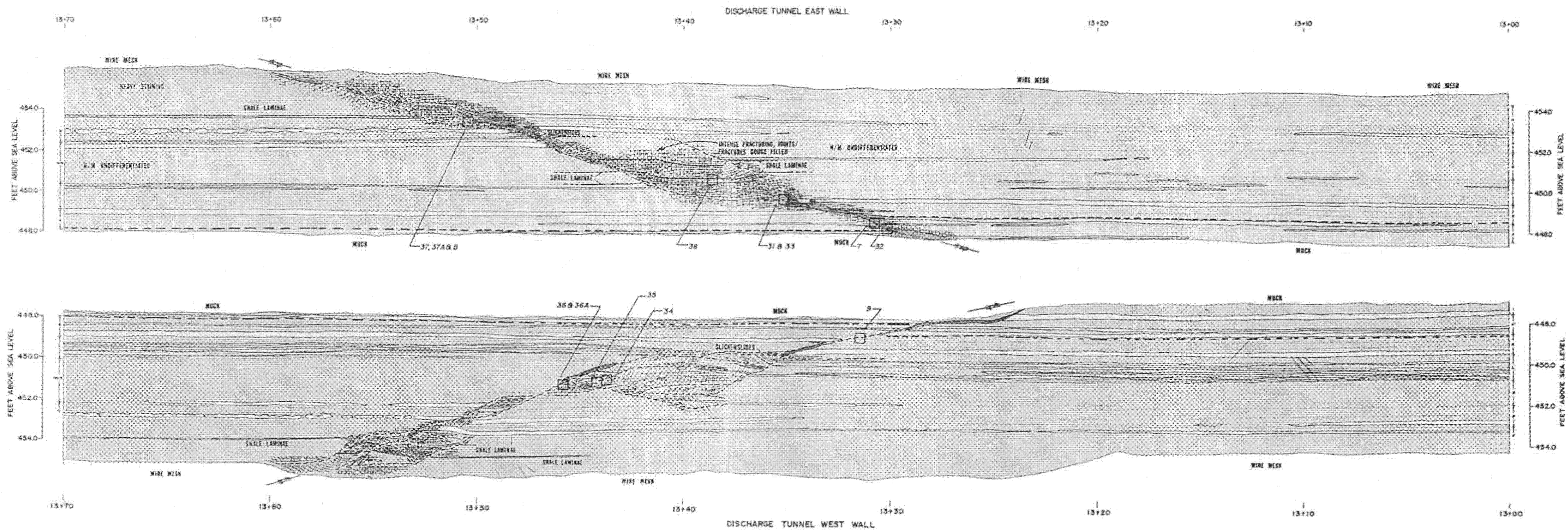
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

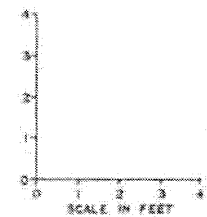
Geologic Structure Map,
 Intake & Discharge Tunnel Faults

Figure 2D-27

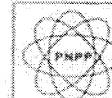


EXPLANATION

- FAULT GOUGE ZONE. GRAY, PLASTIC CLAY GOUGE MATRIX WITH AGGREGATE OF RANDOMLY ORIENTED SILTSTONE AND SHALE FRAGMENTS.
- FAULT GOUGE STRINGER <0.1 FT. THICK. ARROWS INDICATE DIRECTION OF RELATIVE MOVEMENT.
- JOINT/FRACTURE PATTERN.
- SILTSTONE.
- SILTSTONE LAMINA, DASHED WHERE BEDDING PLANE CONTINUOUSLY MAPPED BUT SILTSTONE LITHOLOGY PINCHED OUT.
- SHALE.
- SHALE LAMINA, AS LABELED.
- IRONSTONE CONCRETIONS.
- MICRO-CRACK SAMPLE LOCATION NUMBER GIVEN.



(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Discharge Tunnel Wall Maps,
Stations 13+100-12+00

Figure 2D-29

10-36

A
B
C
D
E
F
G
H

SILTSTONE LAMINAE, <1 CM

FORM CONCORDANT LAMINATION

FORM CONCORDANT LAMINATION

GROUPED LAMINAE OF SILTSTONE AND SHALE

SIDERITE AUSEN

CONVOLUTE BEDDING

PLASTY SILTSTONE

DISCONTINUOUS LAMINAE

IRONSTONE PLATES

MUCH


[illegible]

SILTSTONE.

SILTSTONE LAMINA, DASHED WHERE
BEDDING PLANE CONTINUOUSLY MAPPED
BUT SILTSTONE LITHOLOGY PINCHED
OUT.

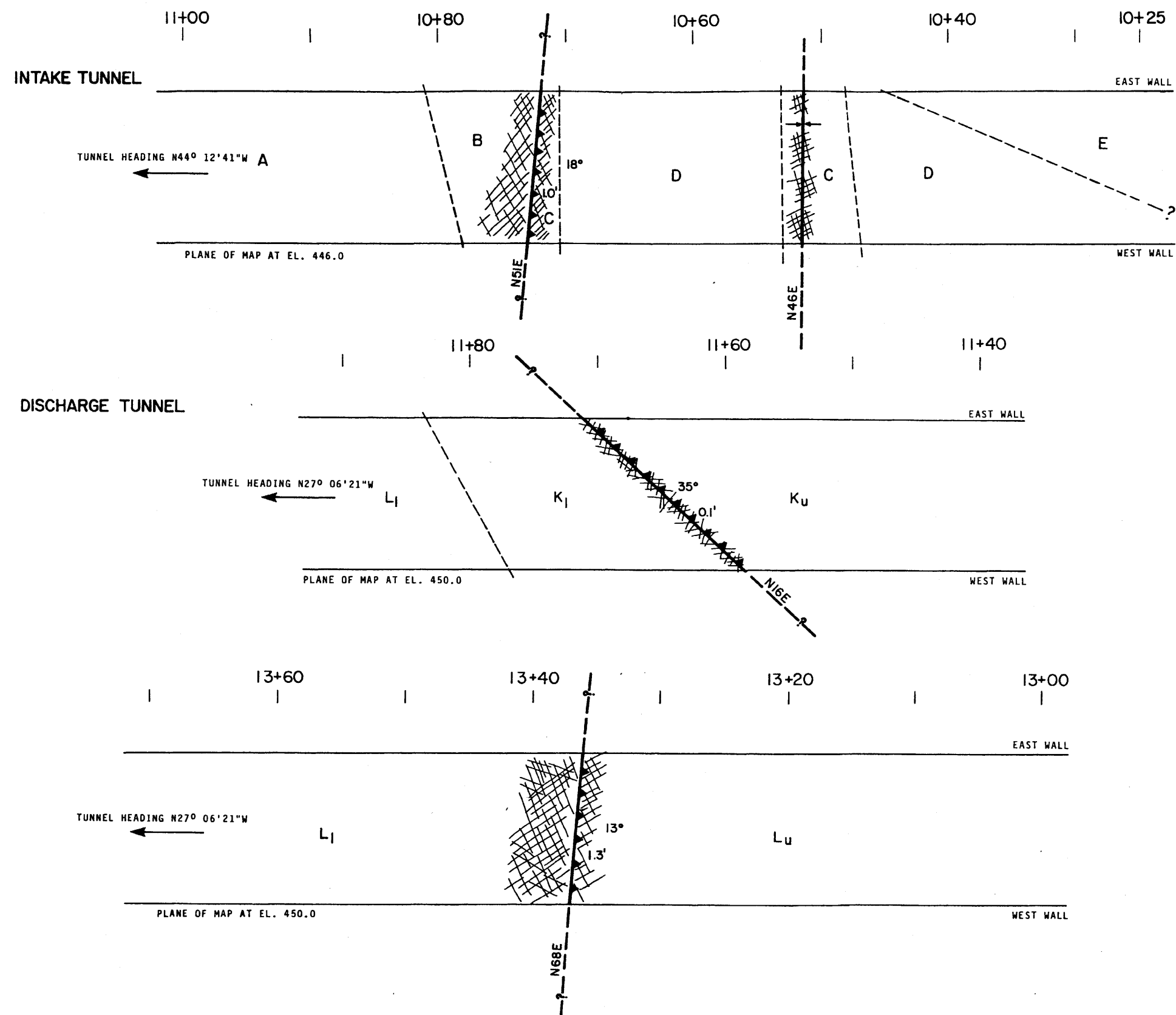
SHALE.

IRONSTONE CONCRETIONS.

 PERRY NUCLEAR POWER PLANT

Discharge Tunnel Wall Maps,
Stat. loc 11+40-12+00

Figure 2D-38



EXPLANATION

STRATIGRAPHIC UNITS: A, B, C, D, E, K, L. UNITS K AND L ARE SUBDIVIDED INTO UPPER AND LOWER SECTIONS AS INDICATED BY SUBSCRIPTS.

A

THRUST FAULT SHOWING DISPLACEMENT AND DIP
STRATIGRAPHIC UNIT CONTACT.

SEVERELY FRACTURED ROCK.

SYNCLINAL FOLD AXIS.

- NOTES: 1. SEE FIGURES 22, 23, AND 24 FOR STRATIGRAPHIC UNIT RELATIONSHIPS.
2. MAPS COMPILED FROM INTAKE AND DISCHARGE TUNNEL WALL MAPS, SEE FIGURES 26, 27, AND 28.

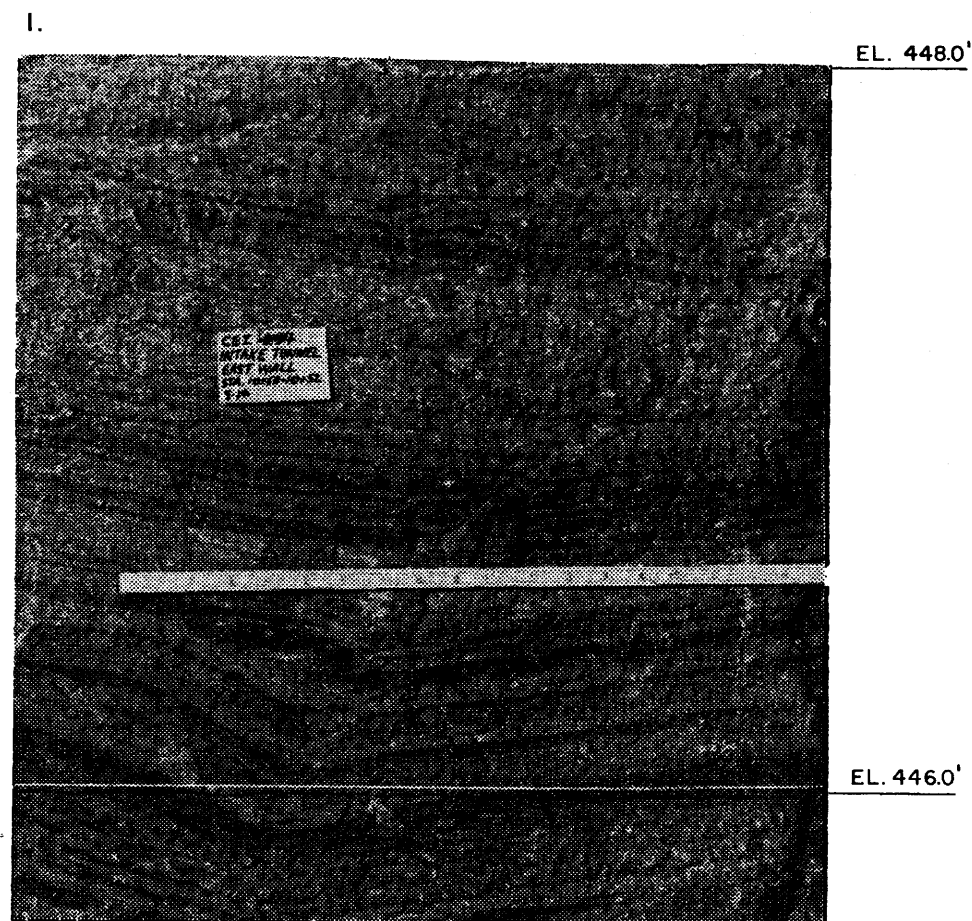
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

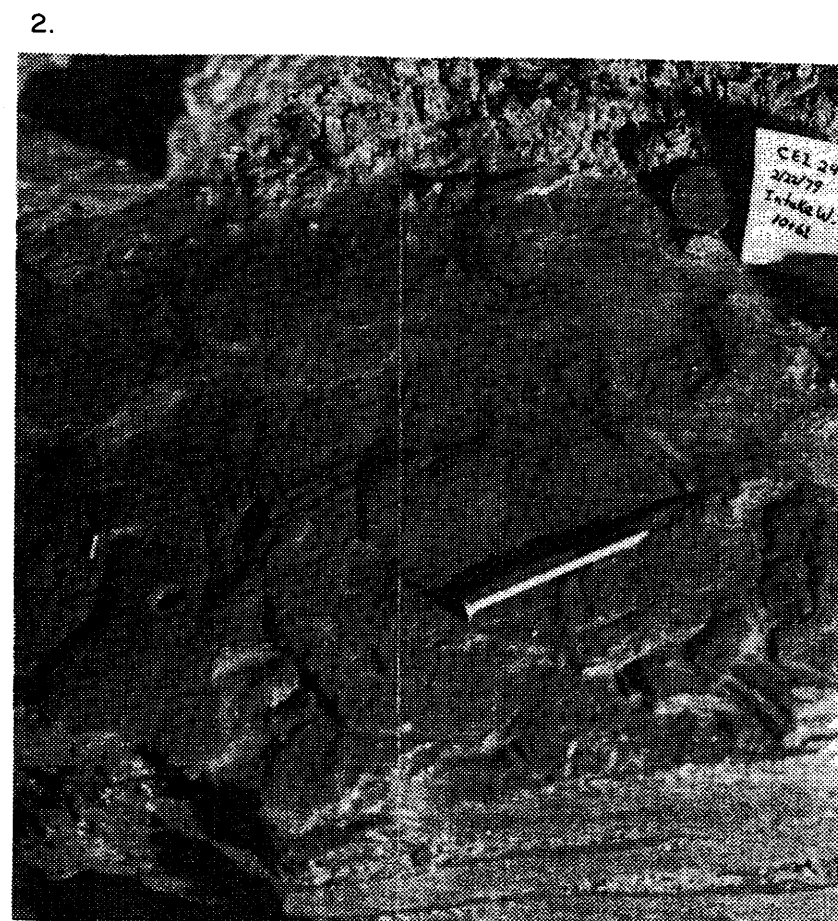
Geologic Maps,
Intake & Discharge Tunnels

Figure 2D-31



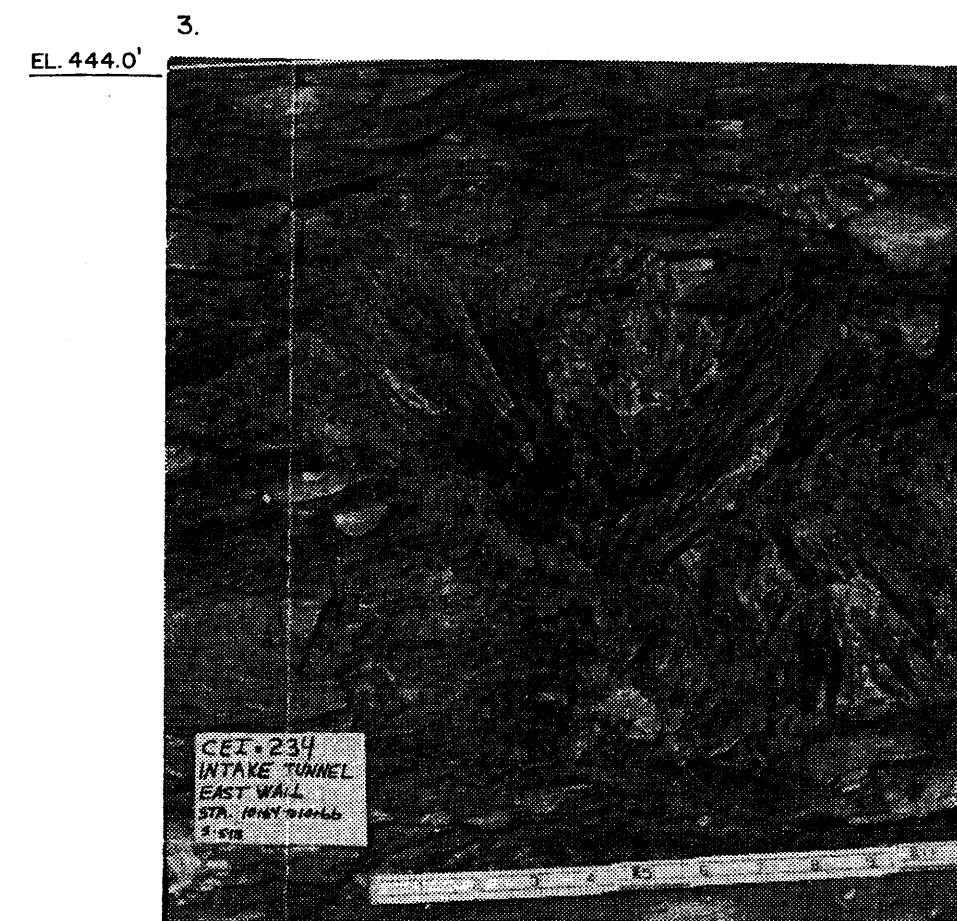
↑
10+51

ASYMMETRIC FOLD; STATION 10+51, EAST WALL INTAKE TUNNEL. NOTE FAULTED NW LIMB OF FOLD.



↑
10+61

STRIATIONS; WEST WALL INTAKE TUNNEL, STATION 10+61. STRIATIONS ON FOOTWALL, TREND N 37° W PARALLEL TO NAIL.



↑
10+65

FRACTURED AND DRAGGED STRATA; EAST WALL INTAKE TUNNEL, STATION 10+65.

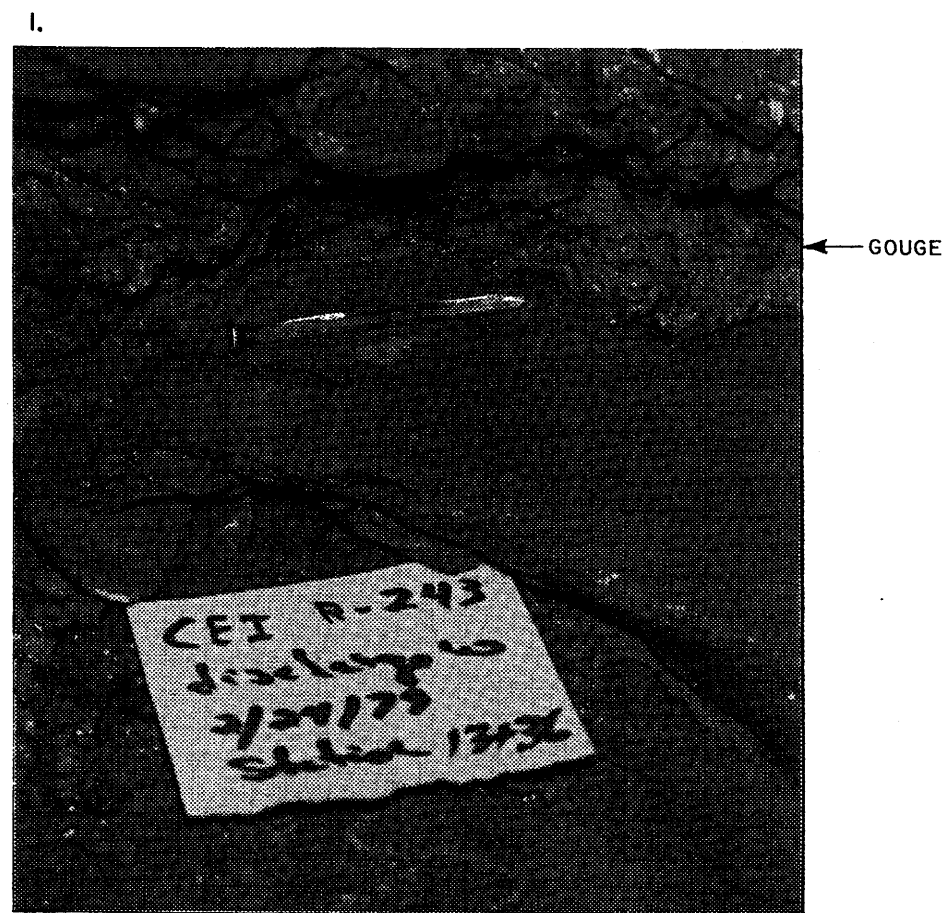
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

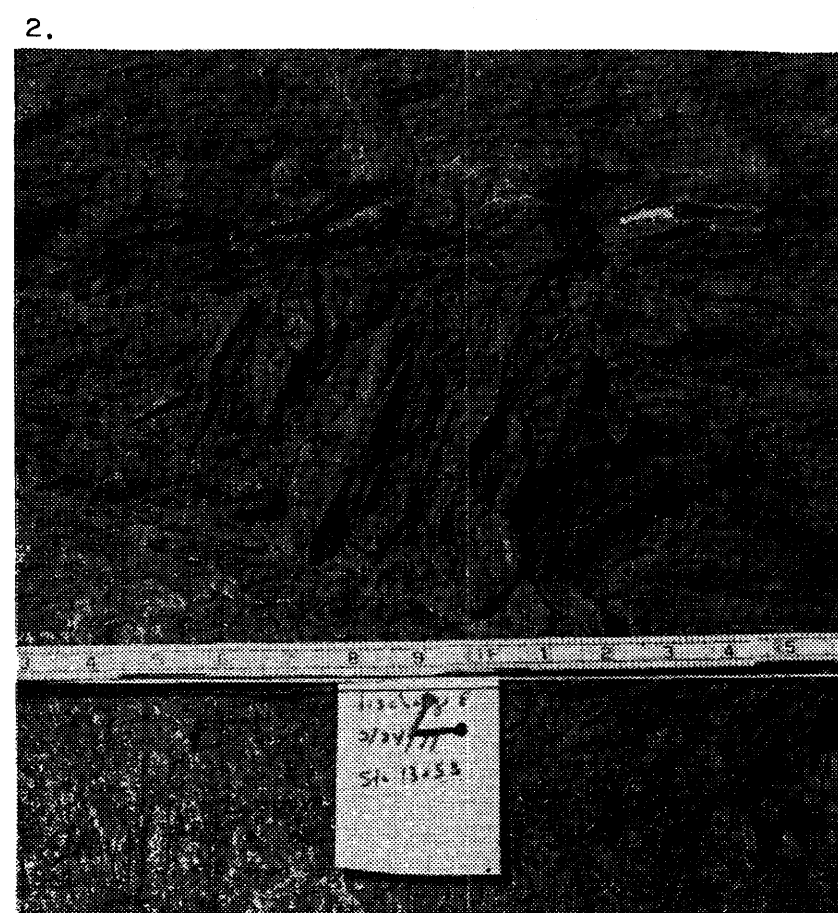
Photographs, Structural
Details, Intake Tunnel

Figure 2D-32



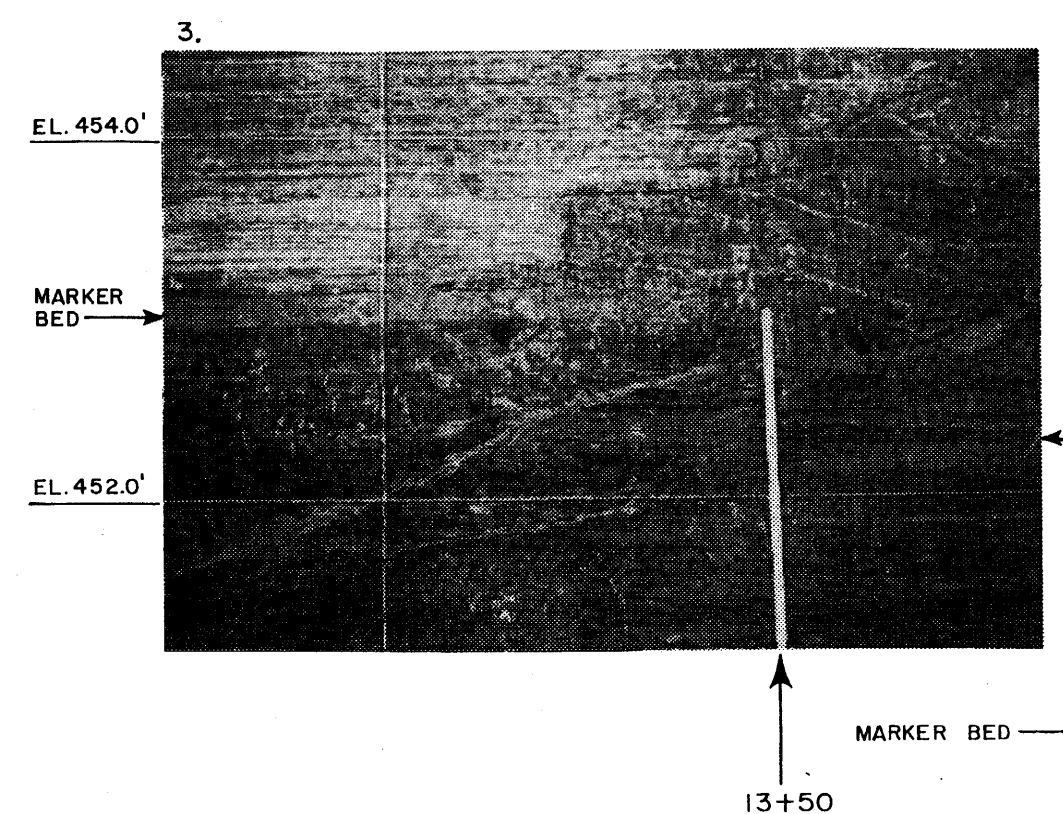
↑
13+36

STRIATIONS AND GOUGE; WEST WALL DISCHARGE TUNNEL, STATION 13+36. STRIATIONS TREND N22°W PARALLEL TO NAIL (TWO INCHES LONG). NOTE ANGULAR SHALE AND SILTSTONE FRAGMENTS IN GOUGE.



↑
13+53

DRAG FOLD; STATION 13+53, EAST WALL DISCHARGE TUNNEL.



DRAG FOLDS, KINKING AND FAULT SPLAYS; STATION 13+50 WEST WALL DISCHARGE. SCALE GIVEN BY STATIONING AND RULE.

(Rev. 12 1/03)

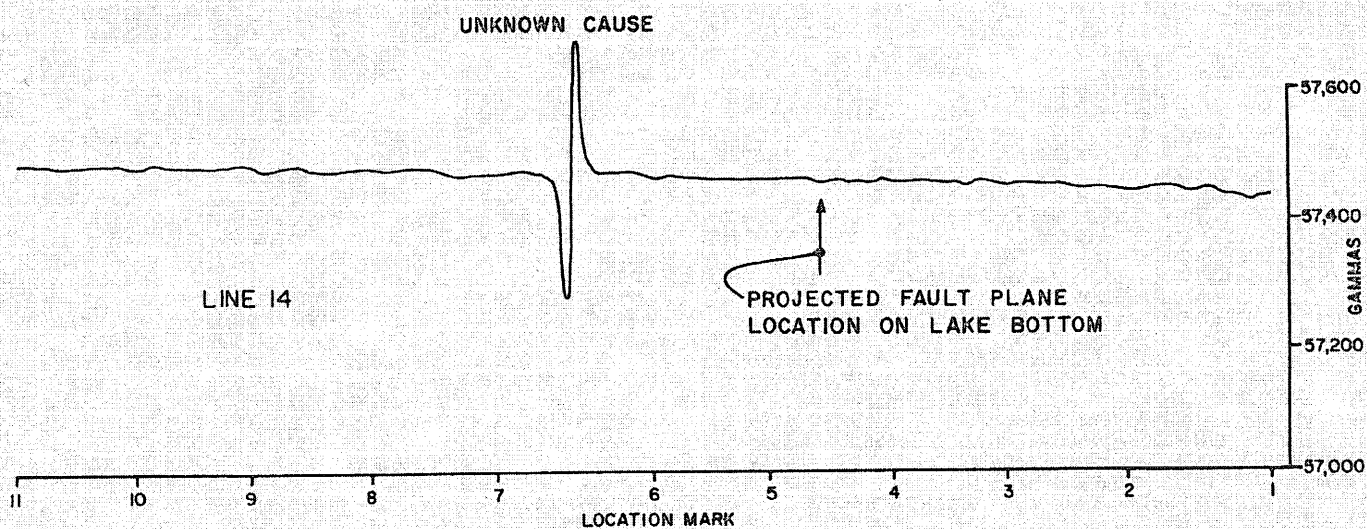


PERRY NUCLEAR POWER PLANT

Photographs, Structural
Details, Discharge Tunnel

Figure 2D-33

NOTE: MARK SEPARATION APPROXIMATELY 1000'



(Rev. 12 1/03)

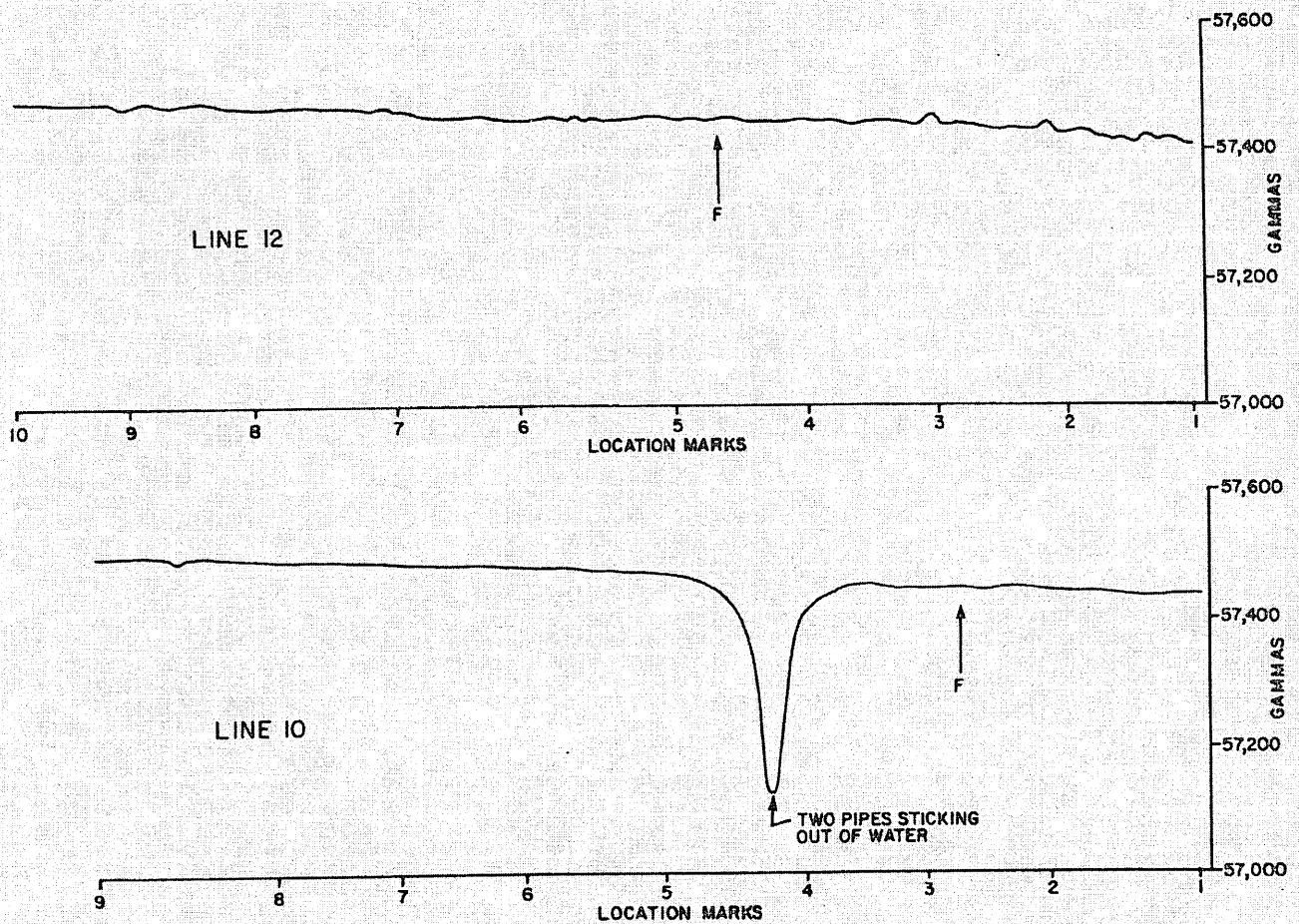


PERRY NUCLEAR POWER PLANT

Offshore for Shipborne
Magnetic Profile 14

Figure 2D-34

NOTE: MARK SEPARATION APPROXIMATELY 1000'



EXPLANATION

↑ PROJECTED FAULT LOCATION ON
LAKE BOTTOM.

(Rev. 12 1/03)

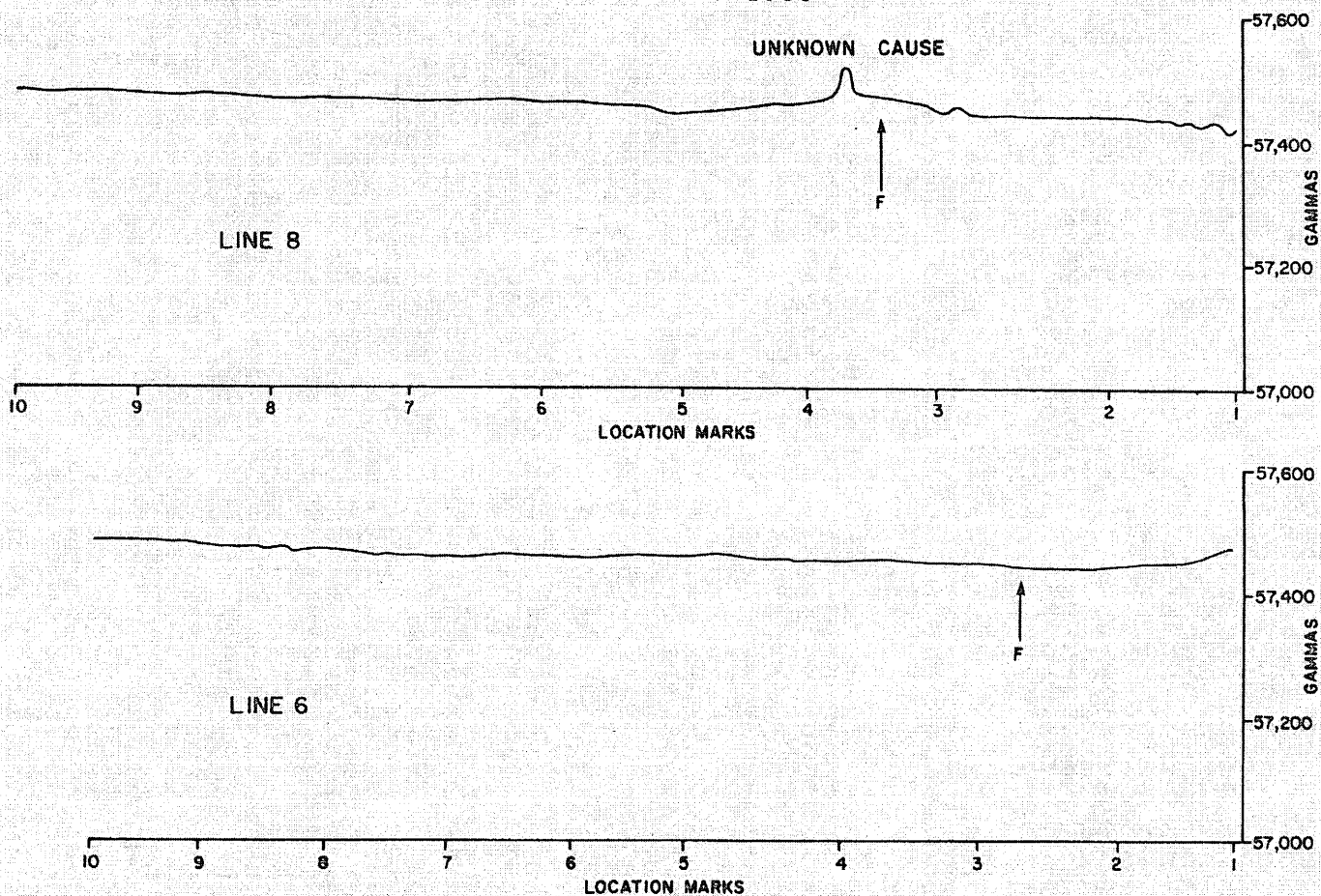


PERRY NUCLEAR POWER PLANT

Offshore for Shipborne
Magnetic Profiles 10 and 12

Figure 2D-35

NOTE: MARK SEPARATION APPROXIMATELY 1000'



EXPLANATION

↑ PROJECTED FAULT LOCATION ON
LAKE BOTTOM.

(Rev. 12 1/03)

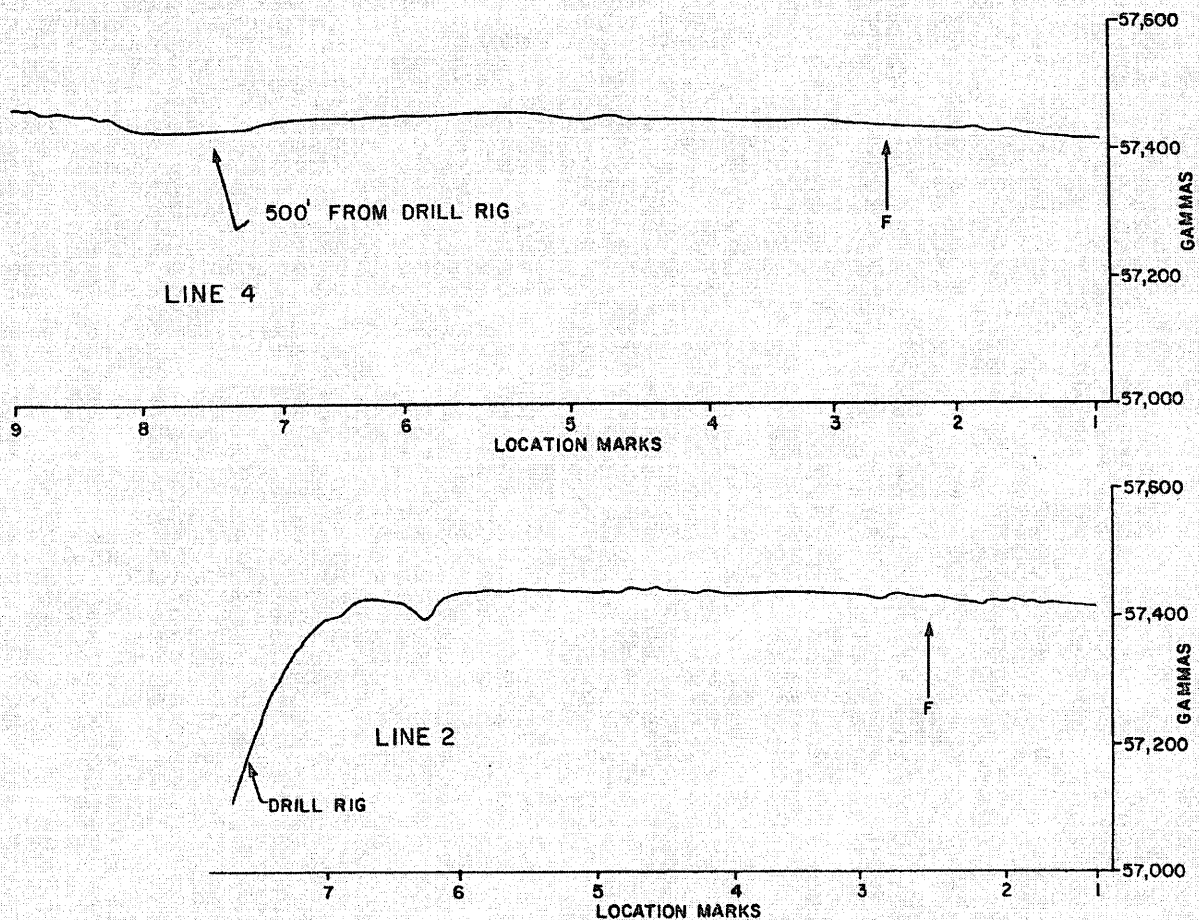


PERRY NUCLEAR POWER PLANT

Offshore for Shipborne
Magnetic Profiles 6 and 8

Figure 2D-36

NOTE: MARK SEPARATION APPROXIMATELY 1000'



EXPLANATION

↑ PROJECTED FAULT LOCATION ON
LAKE BOTTOM.

(Rev. 12 1/03)

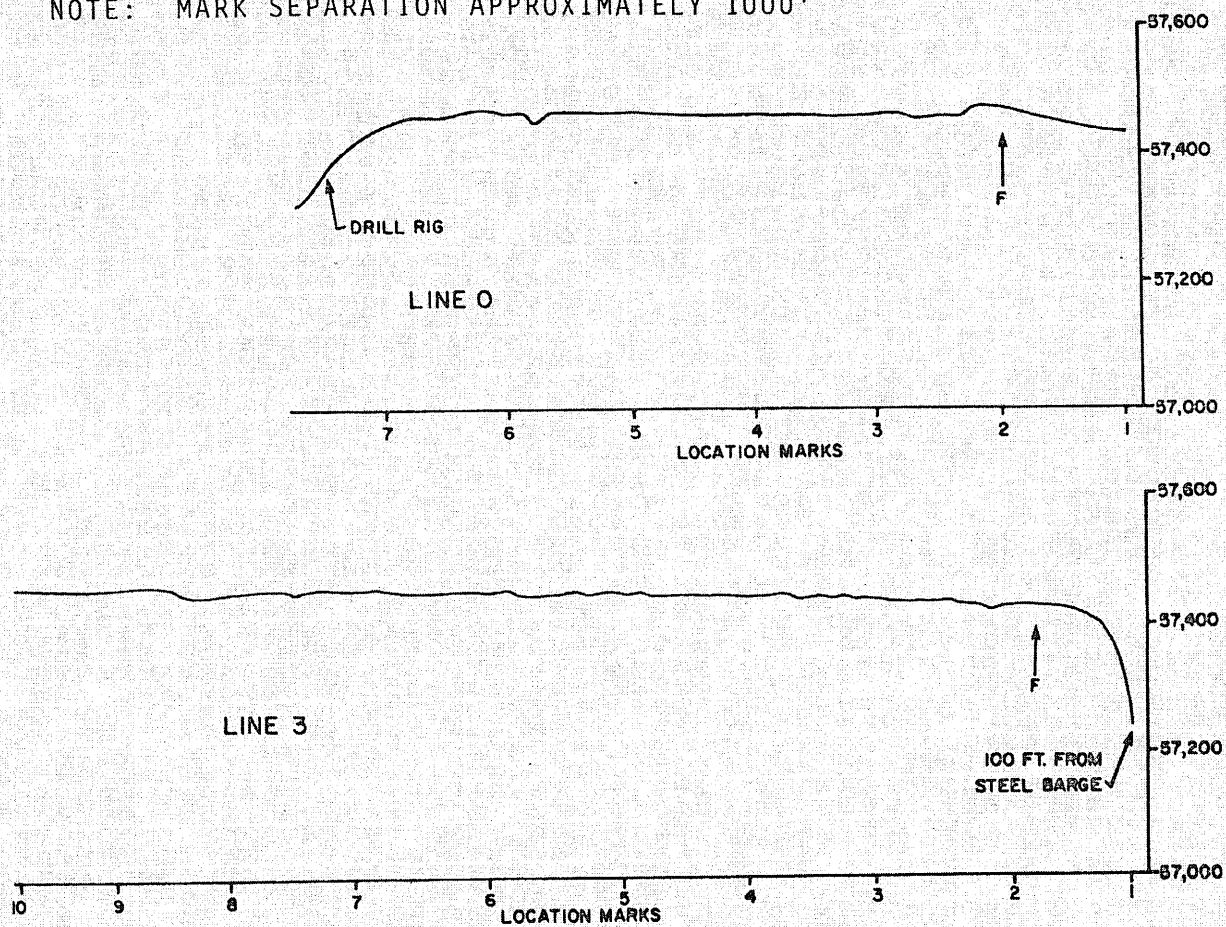


PERRY NUCLEAR POWER PLANT

Offshore for Shipborne
Magnetic Profiles 2 and 4

Figure 2D-37

NOTE: MARK SEPARATION APPROXIMATELY 1000'



EXPLANATION

↑ PROJECTED FAULT LOCATION ON
LAKE BOTTOM.

(Rev. 12 1/03)

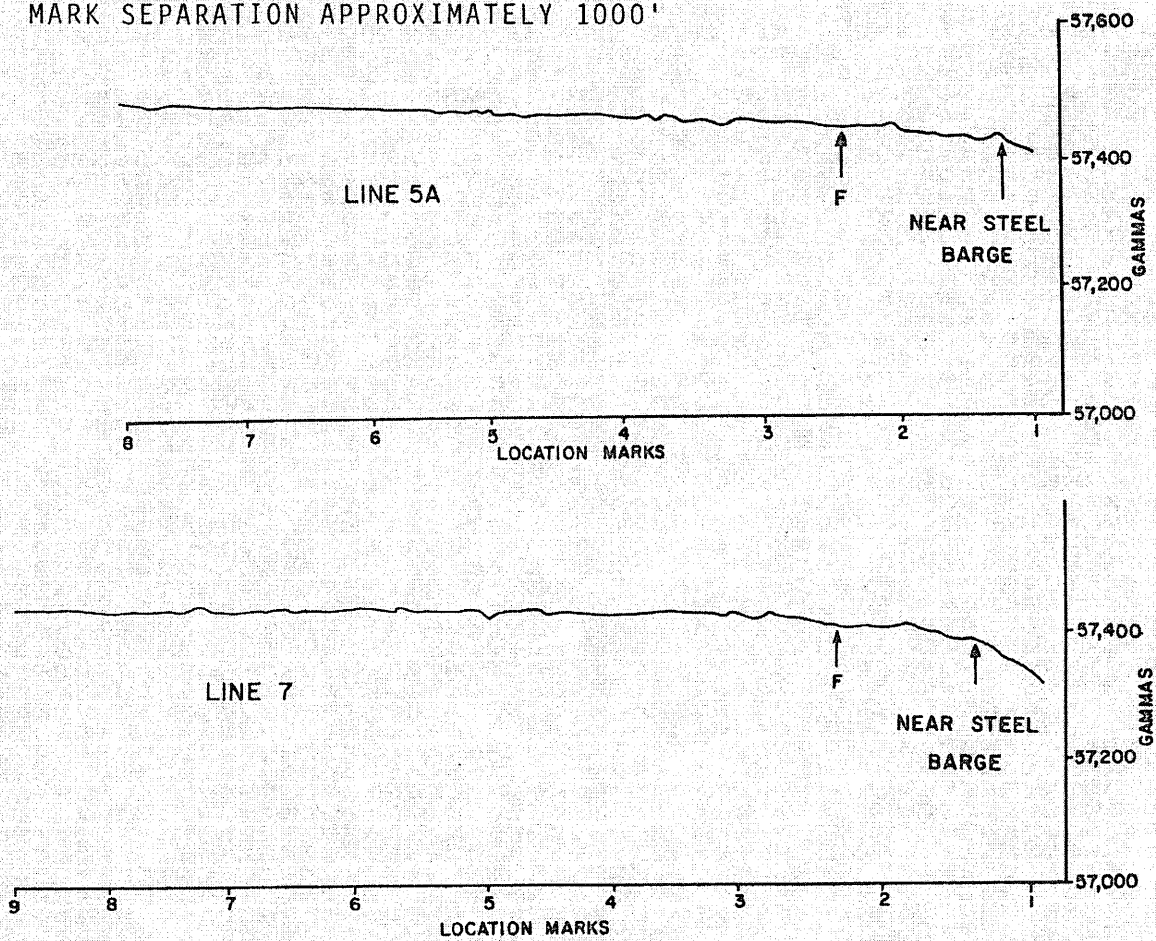


PERRY NUCLEAR POWER PLANT

Offshore for Shipborne
Magnetic Profiles 0 and 3

Figure 2D-38

NOTE: MARK SEPARATION APPROXIMATELY 1000'



EXPLANATION

↑ PROJECTED FAULT LOCATION ON
LAKE BOTTOM.

(Rev. 12 1/03)

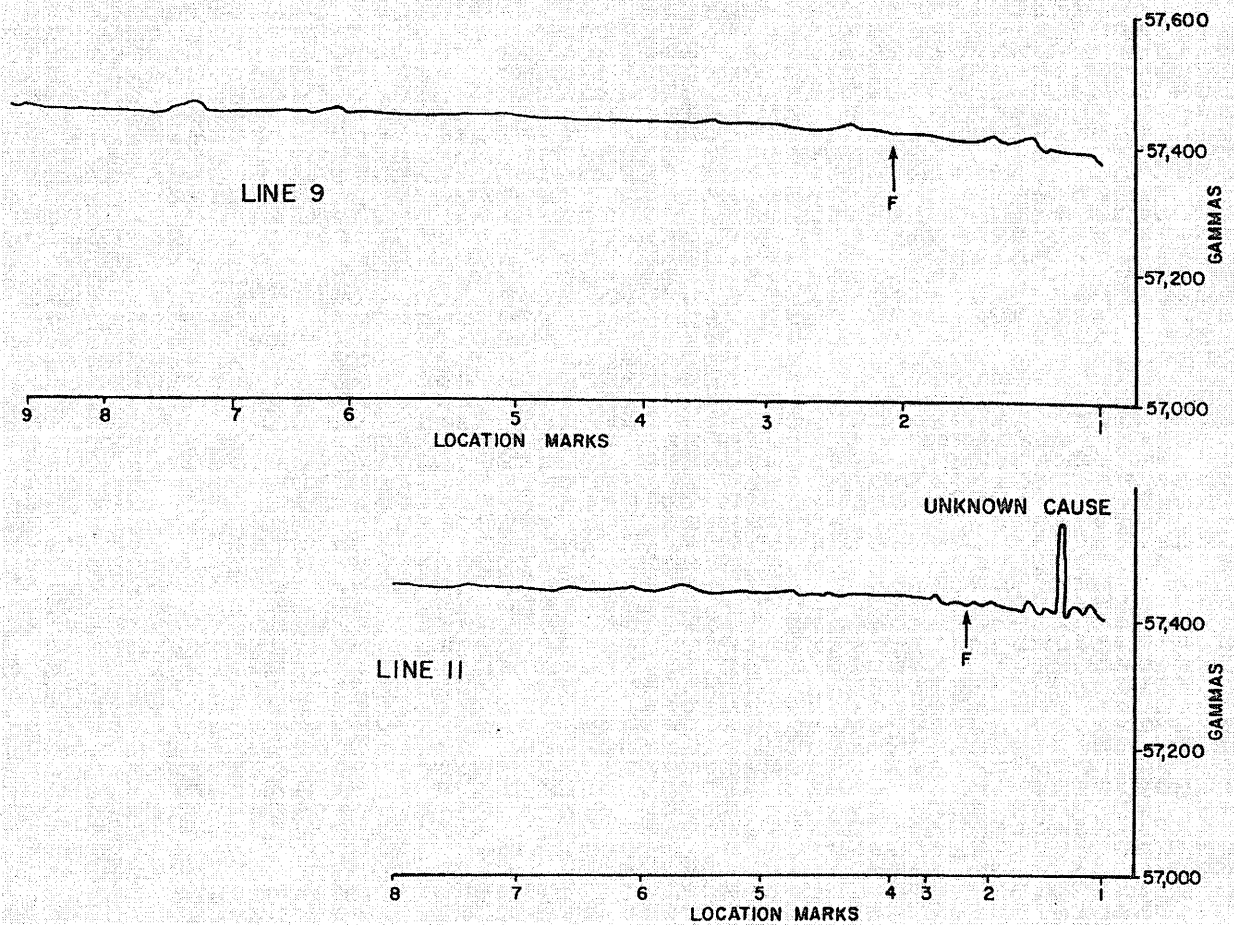


PERRY NUCLEAR POWER PLANT

Offshore for Shipborne
Magnetic Profiles 5A and 7

Figure 2D-39

NOTE: MARK SEPARATION APPROXIMATELY 1000'



EXPLANATION

↑ PROJECTED FAULT LOCATION ON
LAKE BOTTOM.

(Rev. 12 1/03)

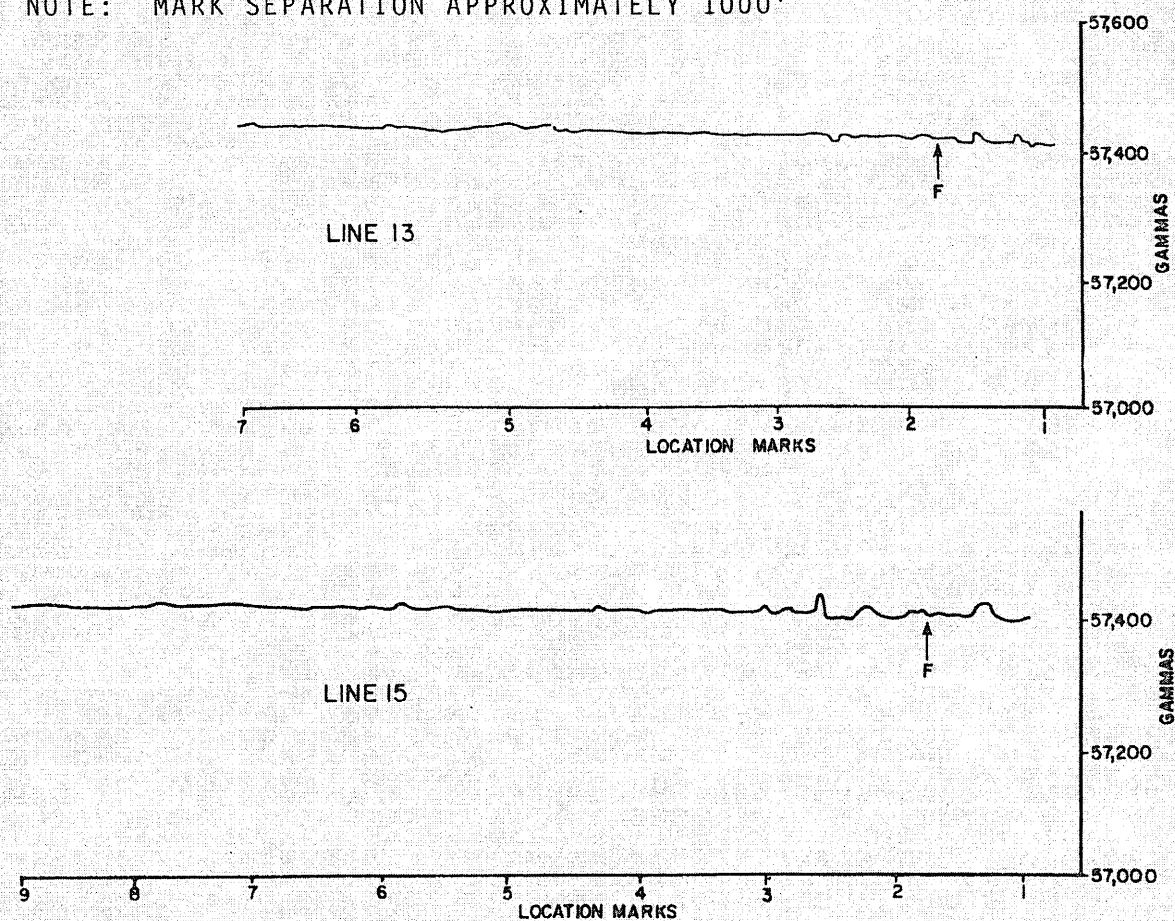


PERRY NUCLEAR POWER PLANT

Offshore for Shipborne
Magnetic Profiles 9 and 11

Figure 2D-40

NOTE: MARK SEPARATION APPROXIMATELY 1000'



EXPLANATION

↑ PROJECTED FAULT LOCATION ON
LAKE BOTTOM. (Rev. 12 1/03)

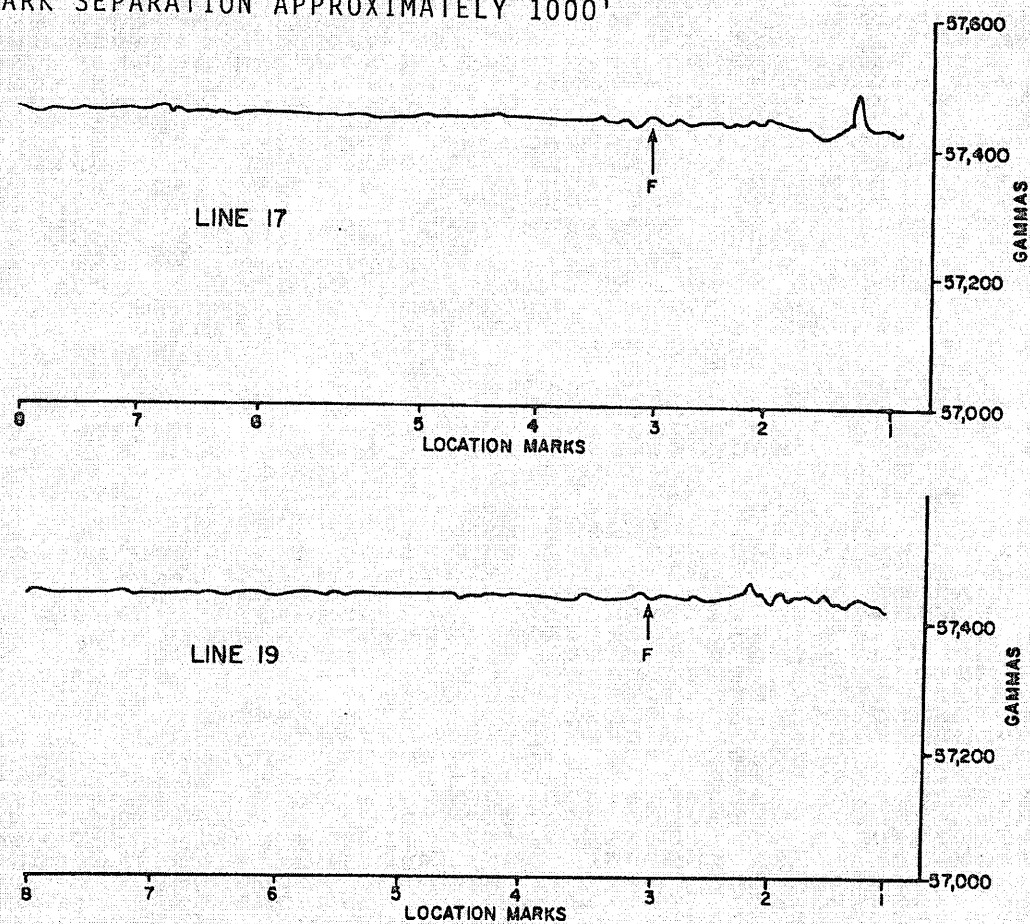


PERRY NUCLEAR POWER PLANT

Offshore for Shipborne
Magnetic Profiles 13 and 15

Figure 2D-41

NOTE: MARK SEPARATION APPROXIMATELY 1000'



EXPLANATION

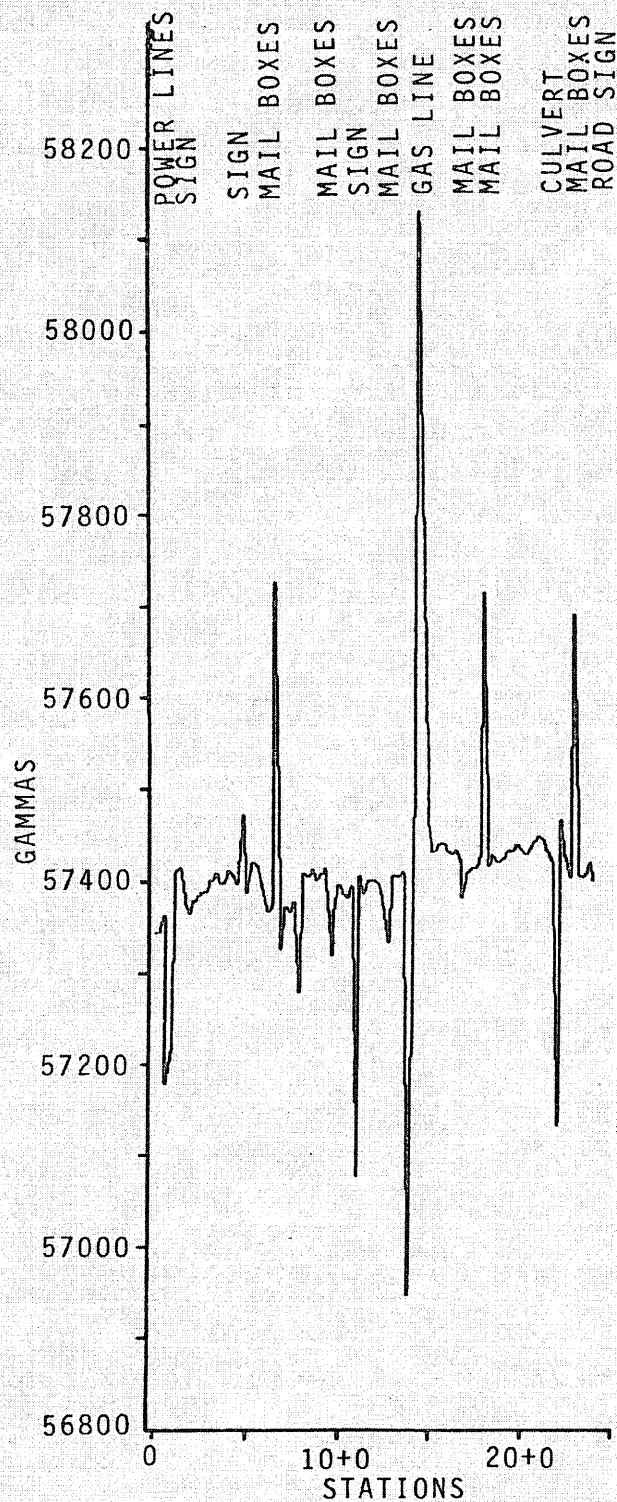
↑ PROJECTED FAULT LOCATION ON LAKE BOTTOM. (Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Offshore for Shipborne
Magnetic Profiles 17 and 19

Figure 2D-42



(Rev. 12 1/03)

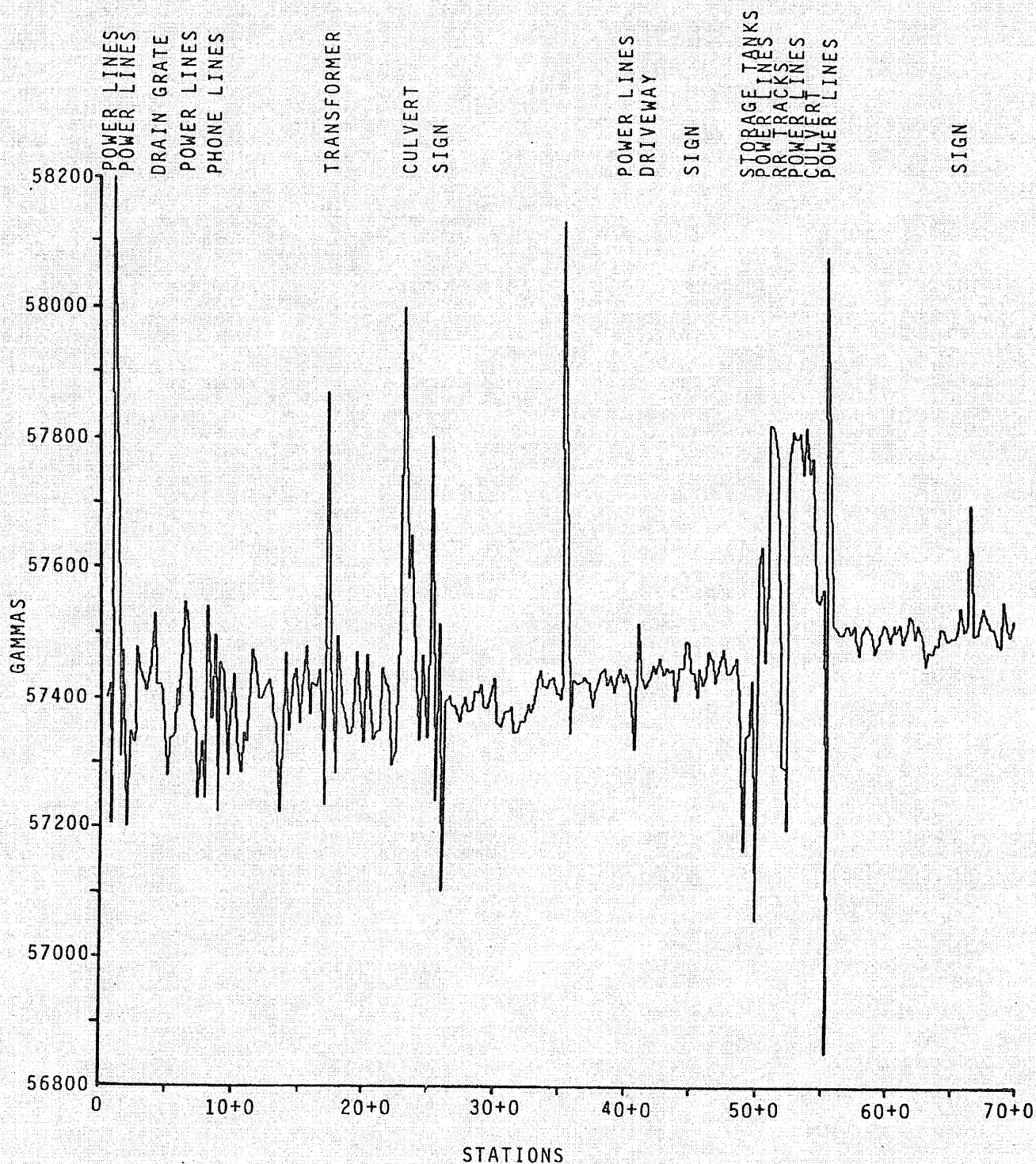


PERRY NUCLEAR POWER PLANT

1"=1000'

Onshore for Land
Magnetic Profile 1S-A

Figure 2D-43



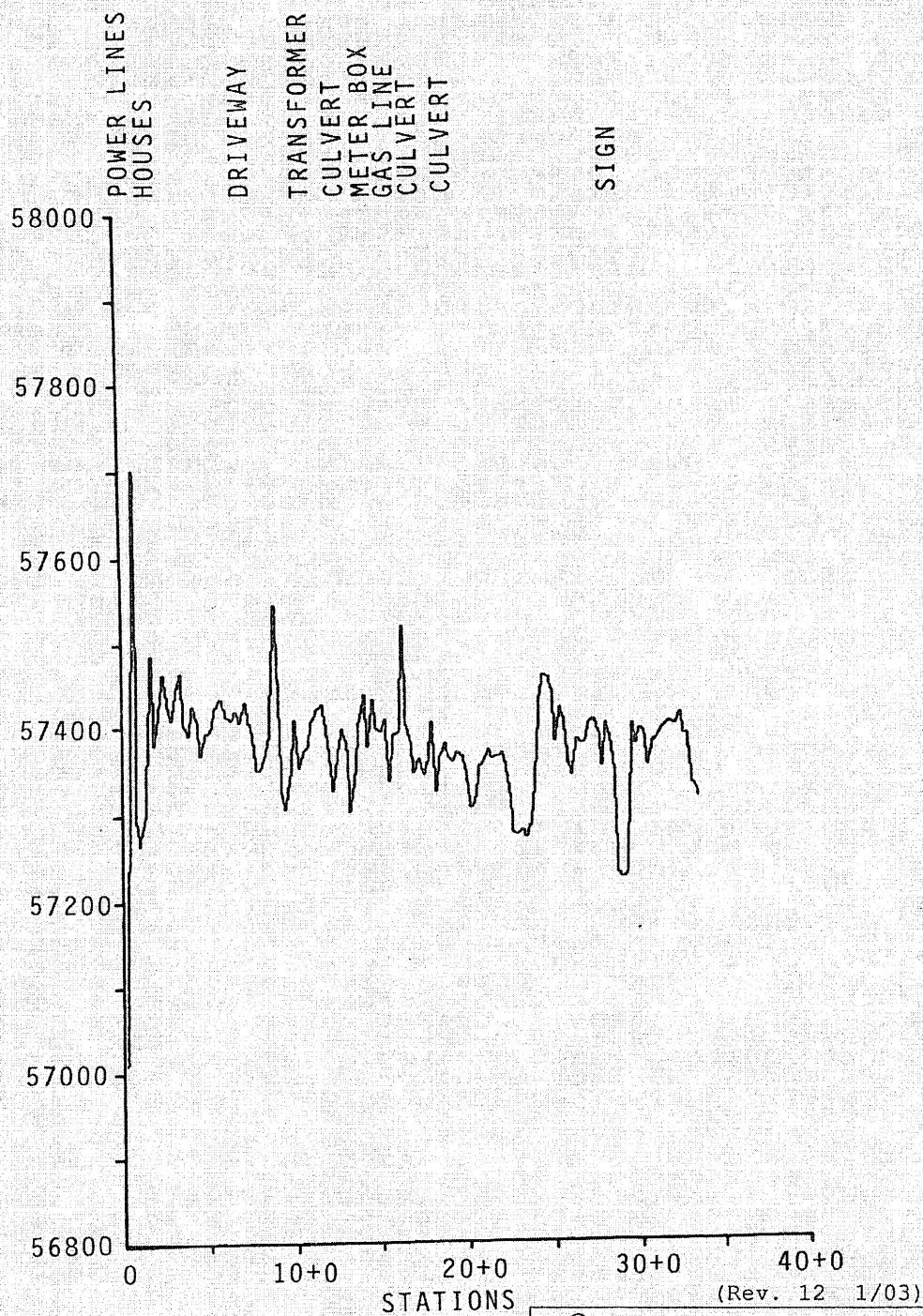
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Onshore for Land
Magnetic Profile 1S

Figure 2D-44



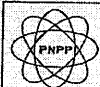
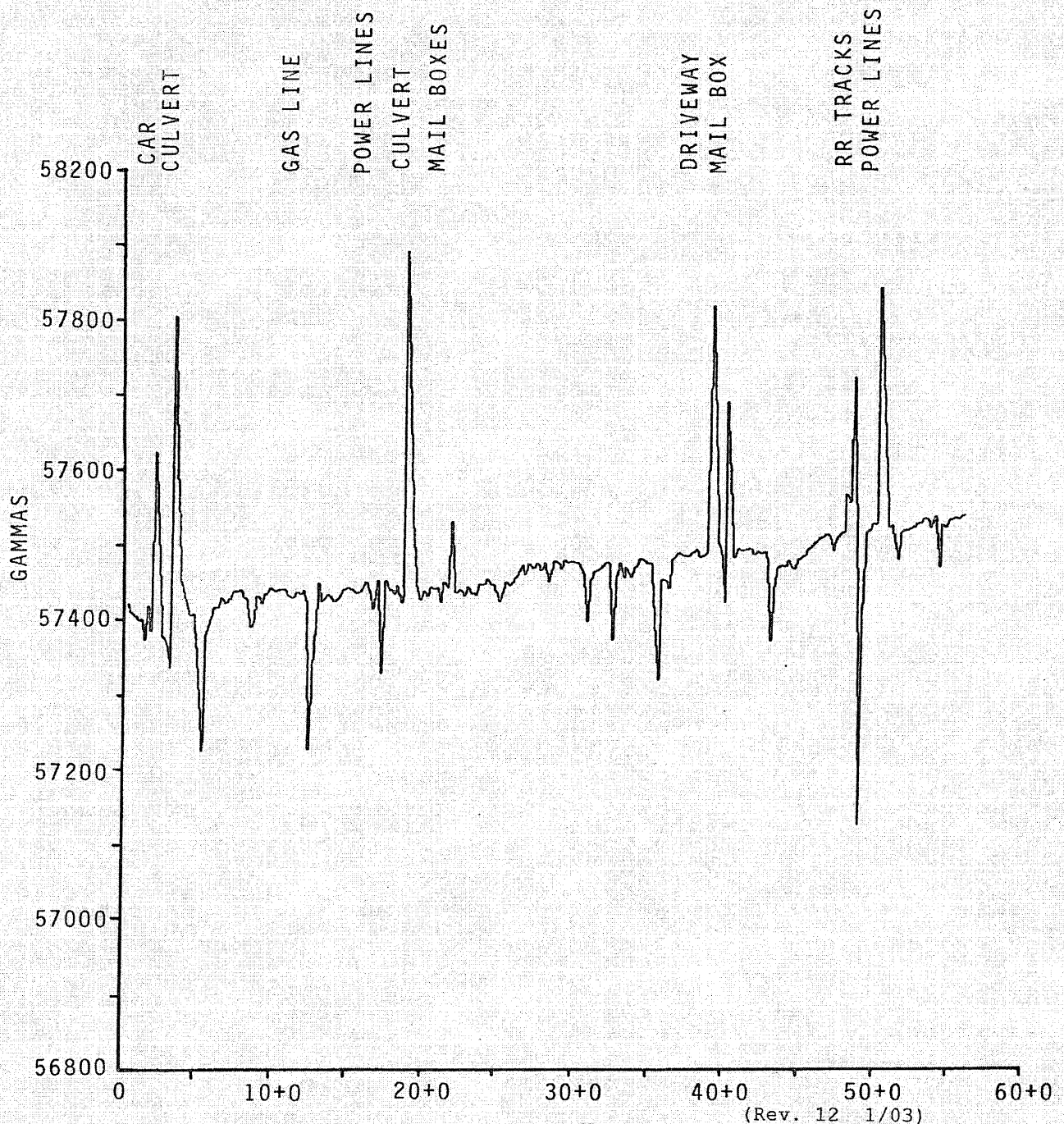
1"=1000'



PERRY NUCLEAR POWER PLANT

Onshore for Land
Magnetic Profile 1E

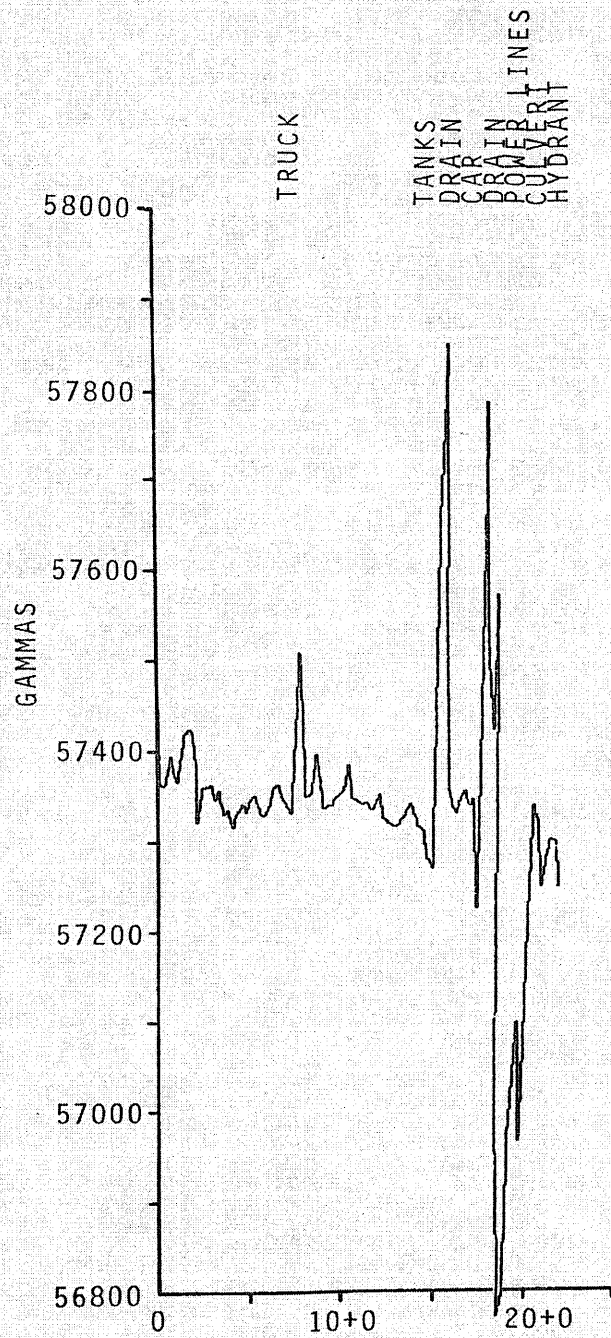
Figure 2D-45



PERRY NUCLEAR POWER PLANT

Onshore for Land
Magnetic Profile 2S

Figure 2D-46



(Rev. 12 1/03)

STATIONS

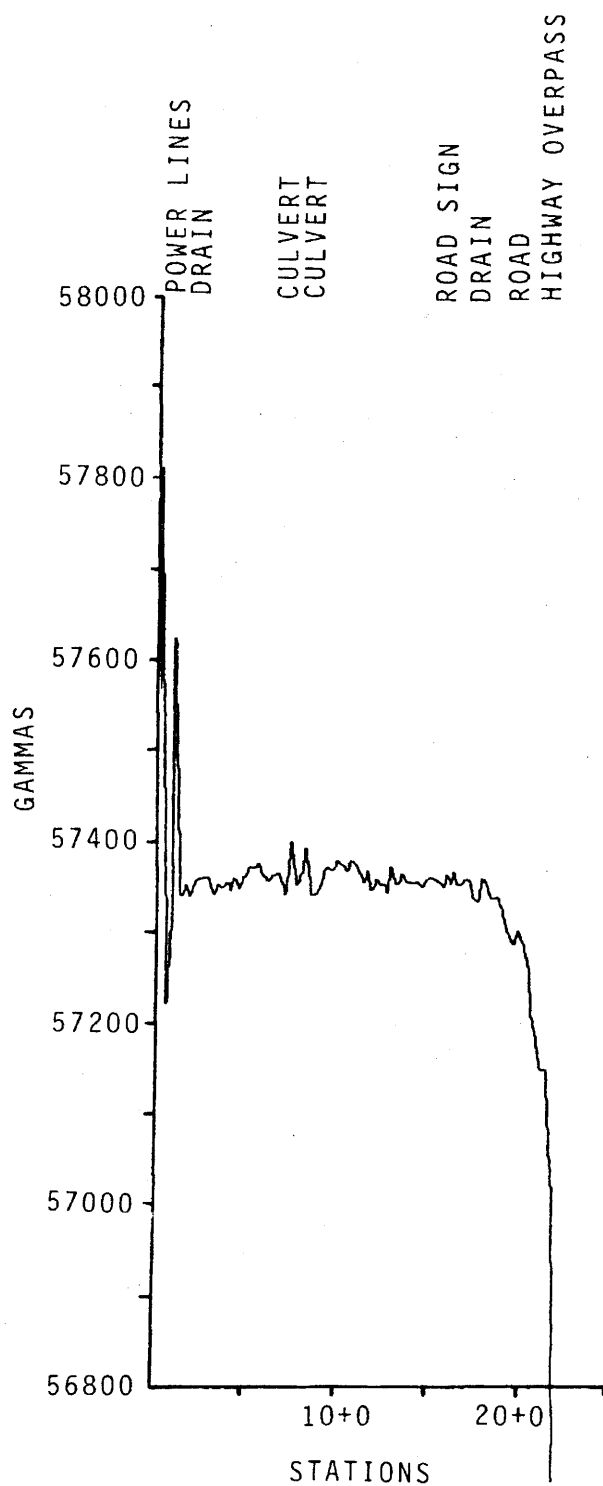


PERRY NUCLEAR POWER PLANT

1"=1000'

Onshore for Land
Magnetic Profile 3S

Figure 2D-47



1"=1000'

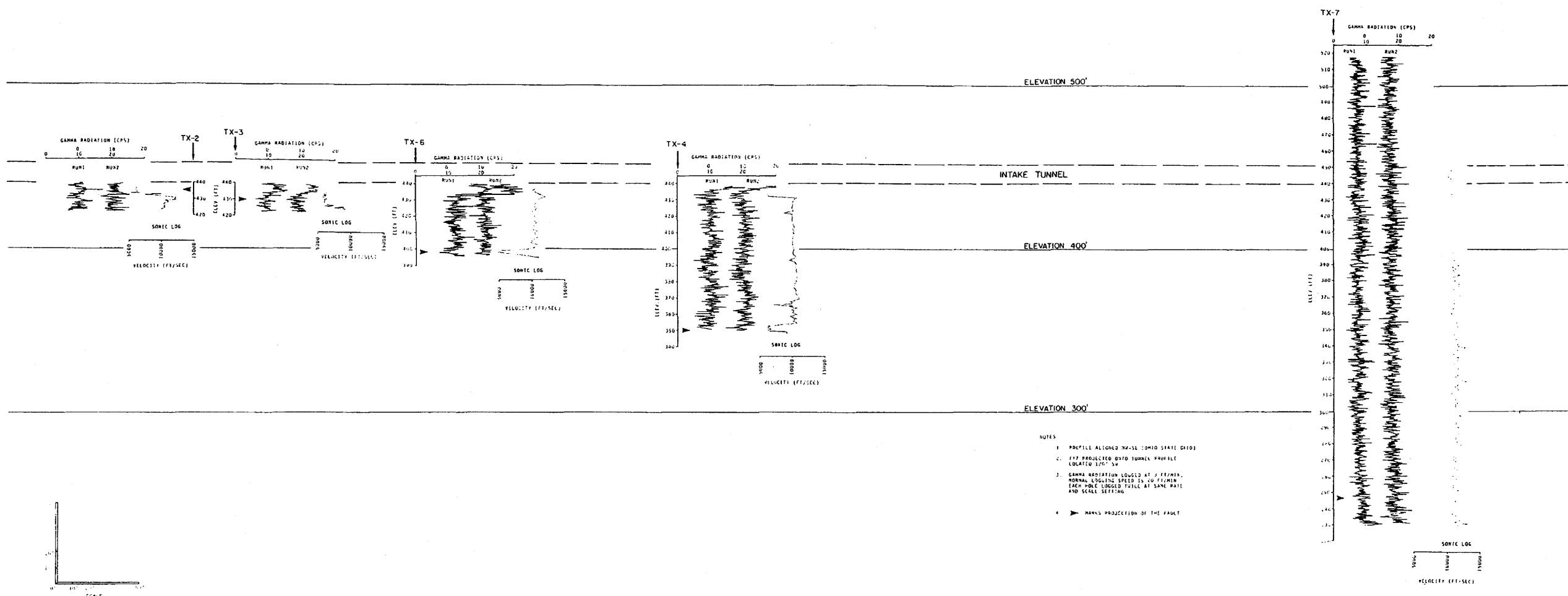
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Onshore for Land
Magnetic Profile 3S-A

Figure 2D-48

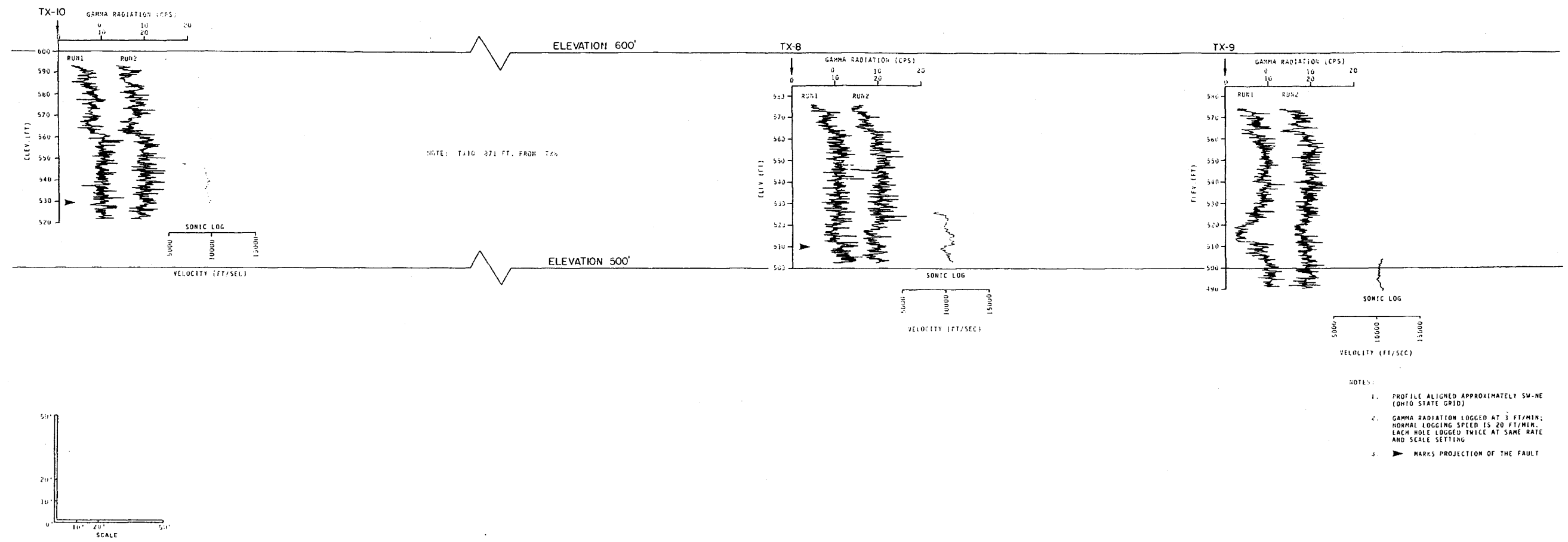


(Rev. 12 1/03)

PERRY NUCLEAR POWER PLANT

Borehole Logs - Gamma/Sonic,
TX Borings 2, 3, 4, 5, 6, 7

Figure 2D-49



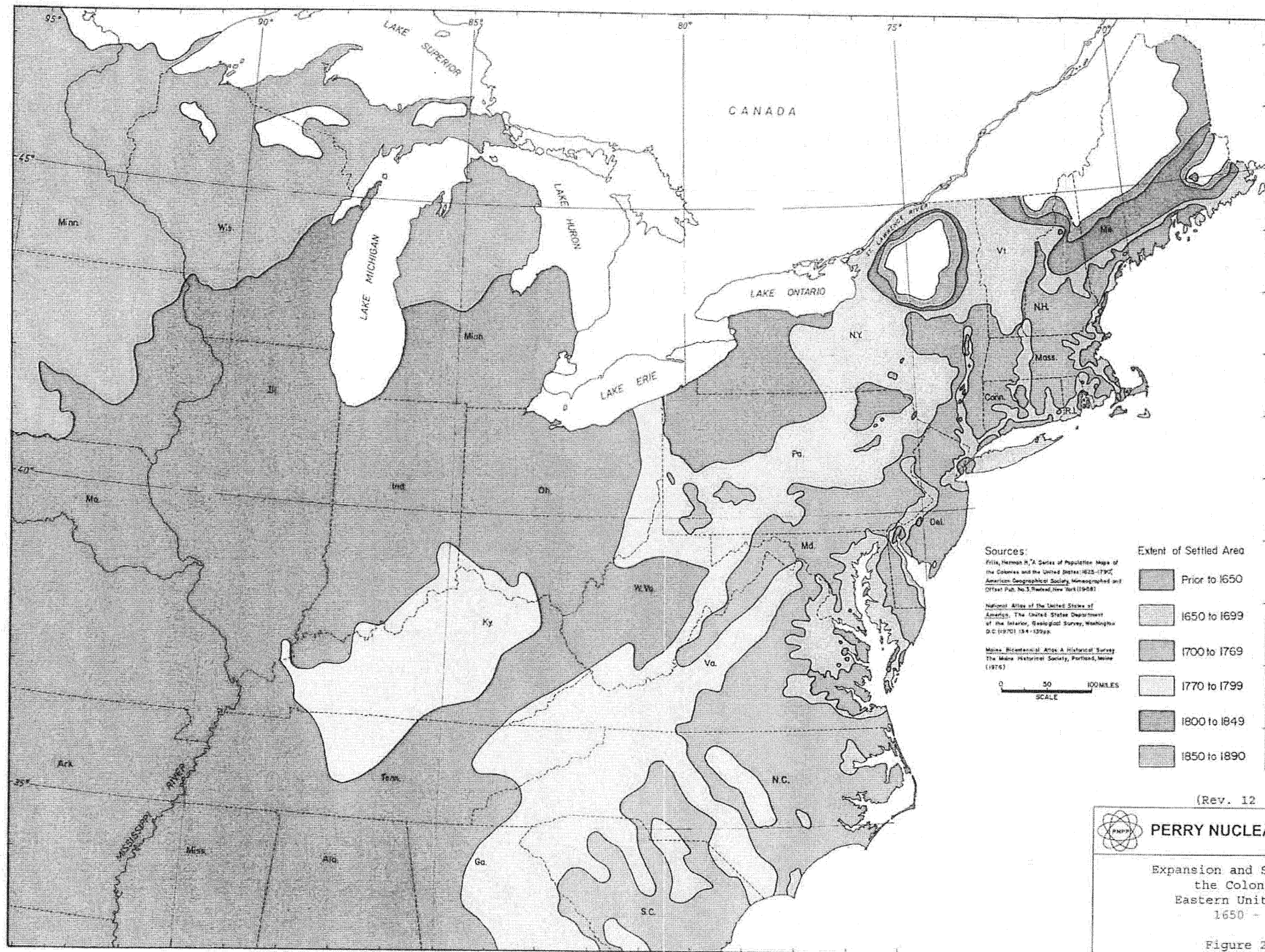
(Rev. 12 1/03)



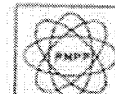
PERRY NUCLEAR POWER PLANT

Borehole Logs - Gamma/Sonic,
TX Borings 8, 9, 10

Figure 2D-50



(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Expansion and Settlement in
the Colonies and
Eastern United States
1650 - 1890

Figure 2D D-1

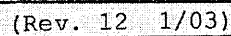

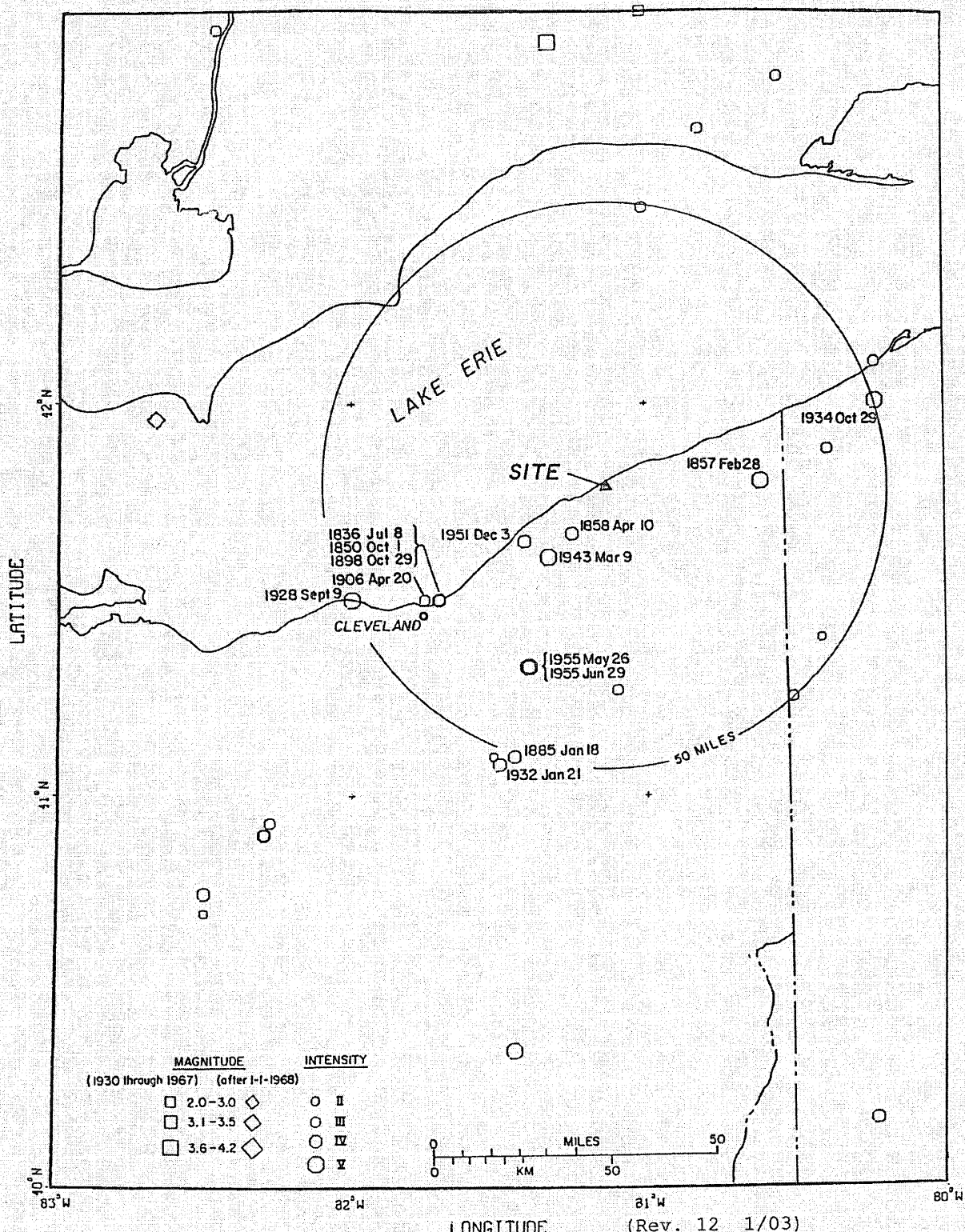


Figure 2D D-2

(Rev. 12 1/03)

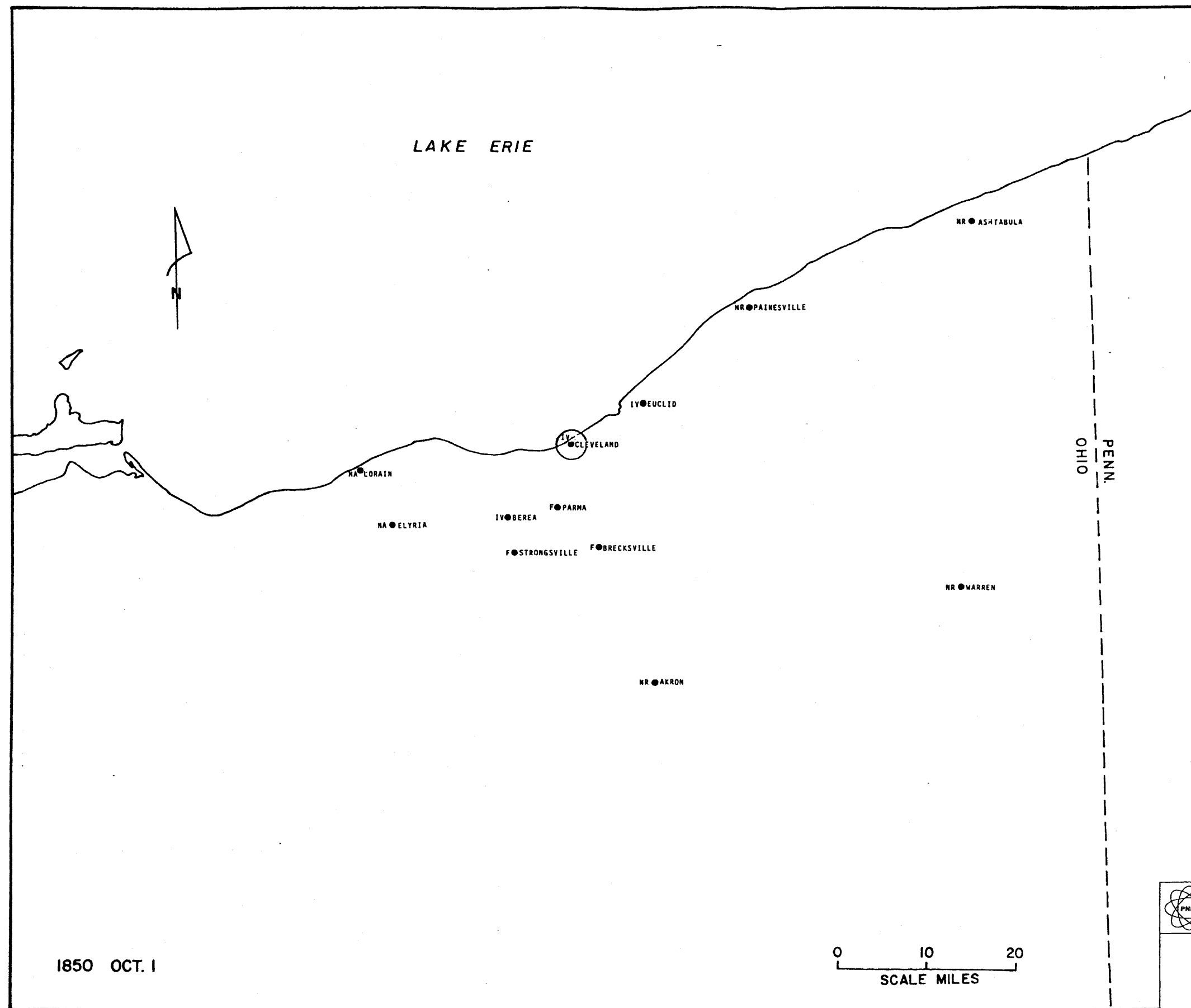
	PERRY NUCLEAR POWER PLANT
<p>Newspaper Research Matrix</p> <p>Figure 2D D-3</p>	



PERRY NUCLEAR POWER PLANT

Seismicity Map

Figure 2D D-4



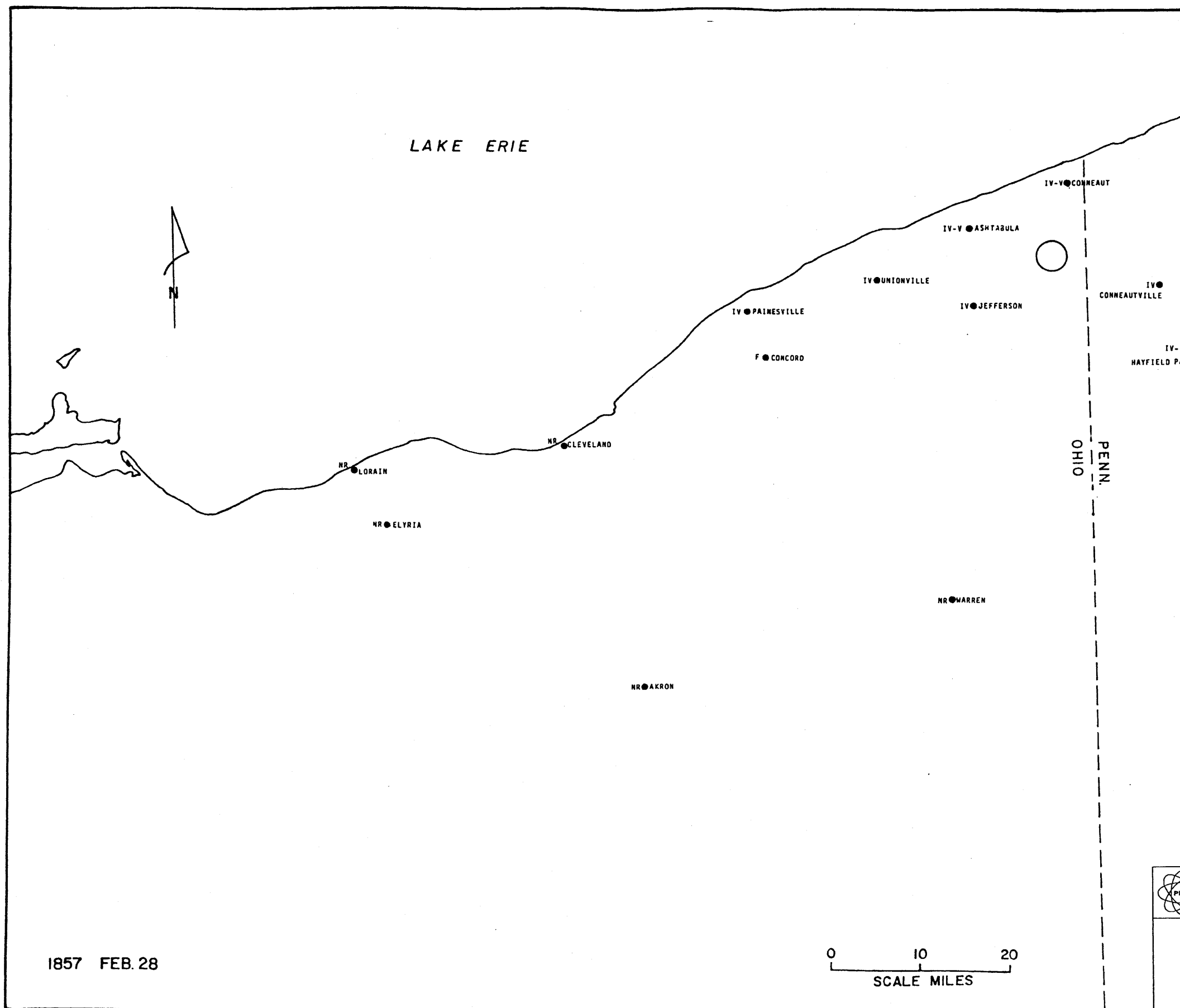
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Felt Report Map:
1850 Oct. 1


Figure 2D D-5



1857 FEB. 28

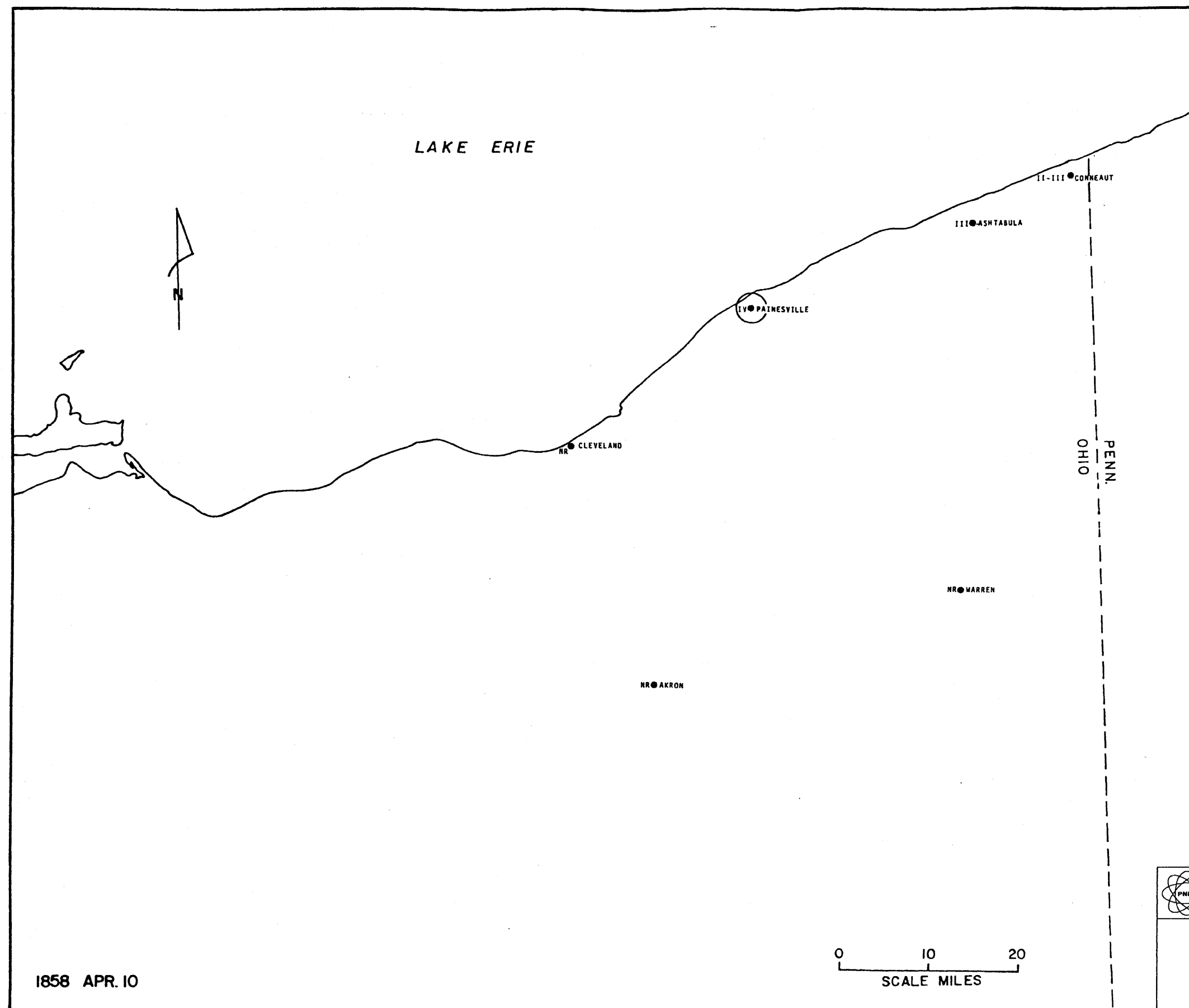
0 10 20
SCALE MILES

(Rev. 12 1/03)

 **PERRY NUCLEAR POWER PLANT**

Felt Report Map:
1857 Feb. 28

Figure 2D D-6



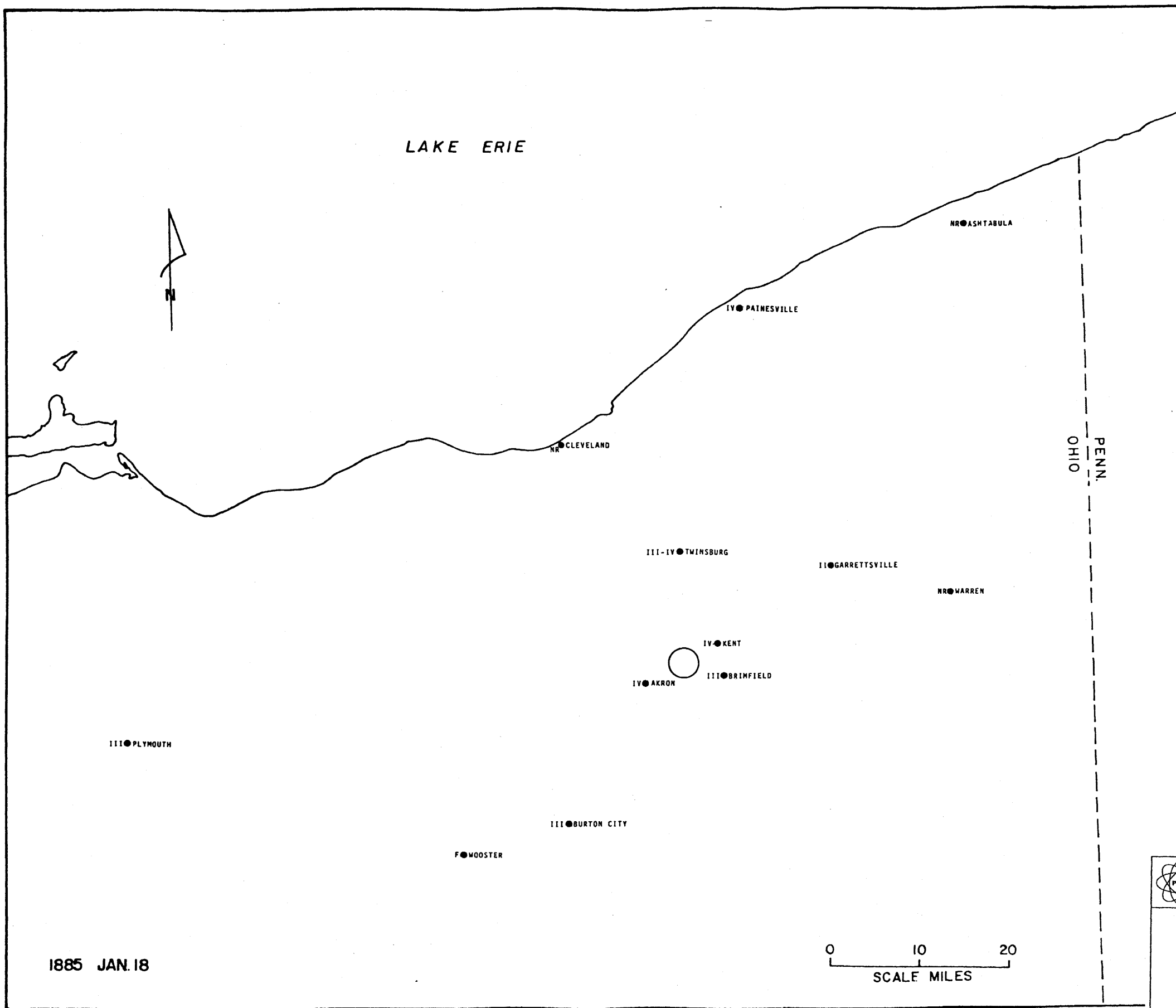
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

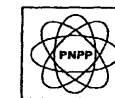
Felt Report Map:
1858 Apr. 10

Figure 2D D-7



1885 JAN. 18

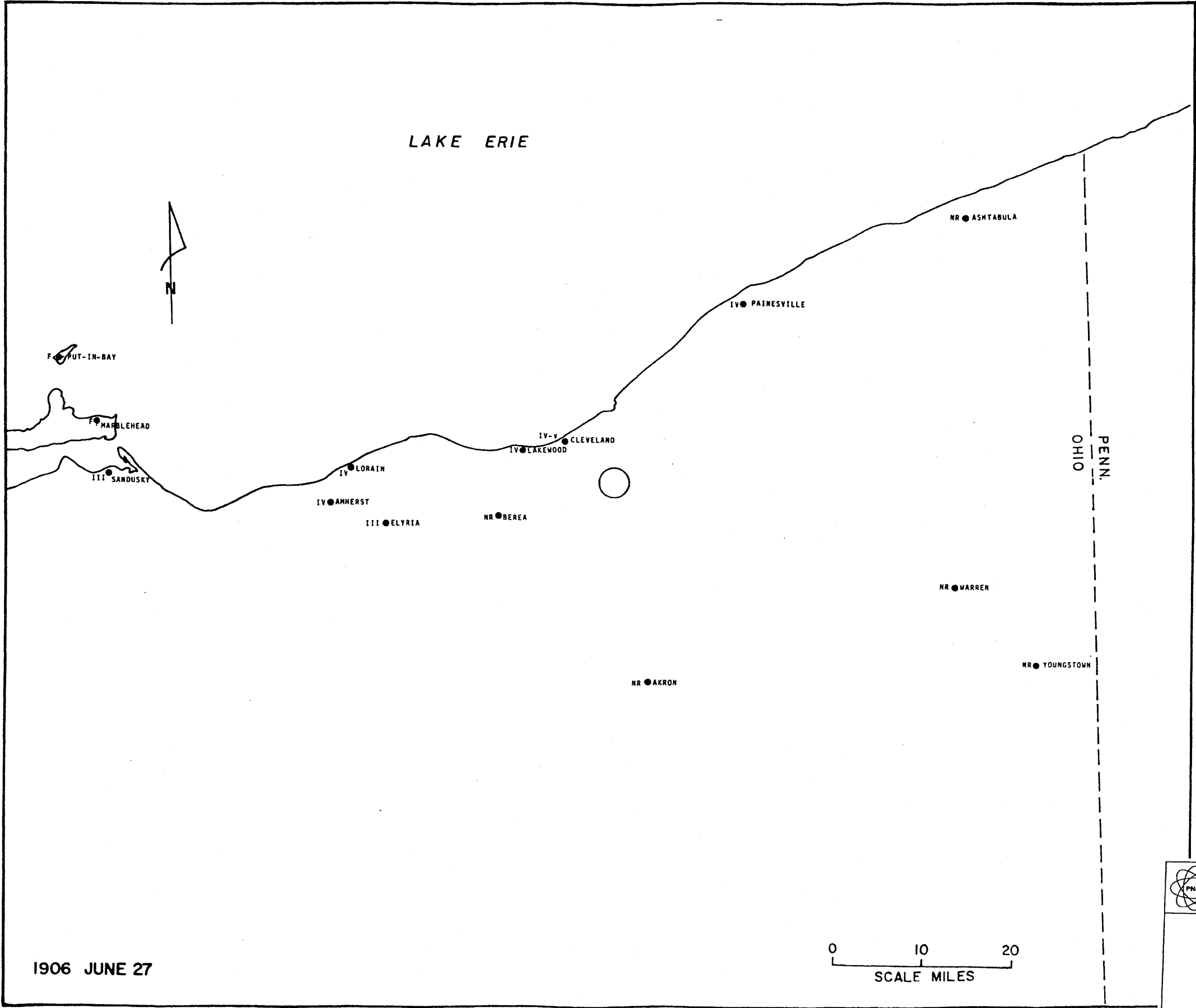
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Felt Report Map:
1885 Jan. 18

Figure 2D D-8



1906 JUNE 27

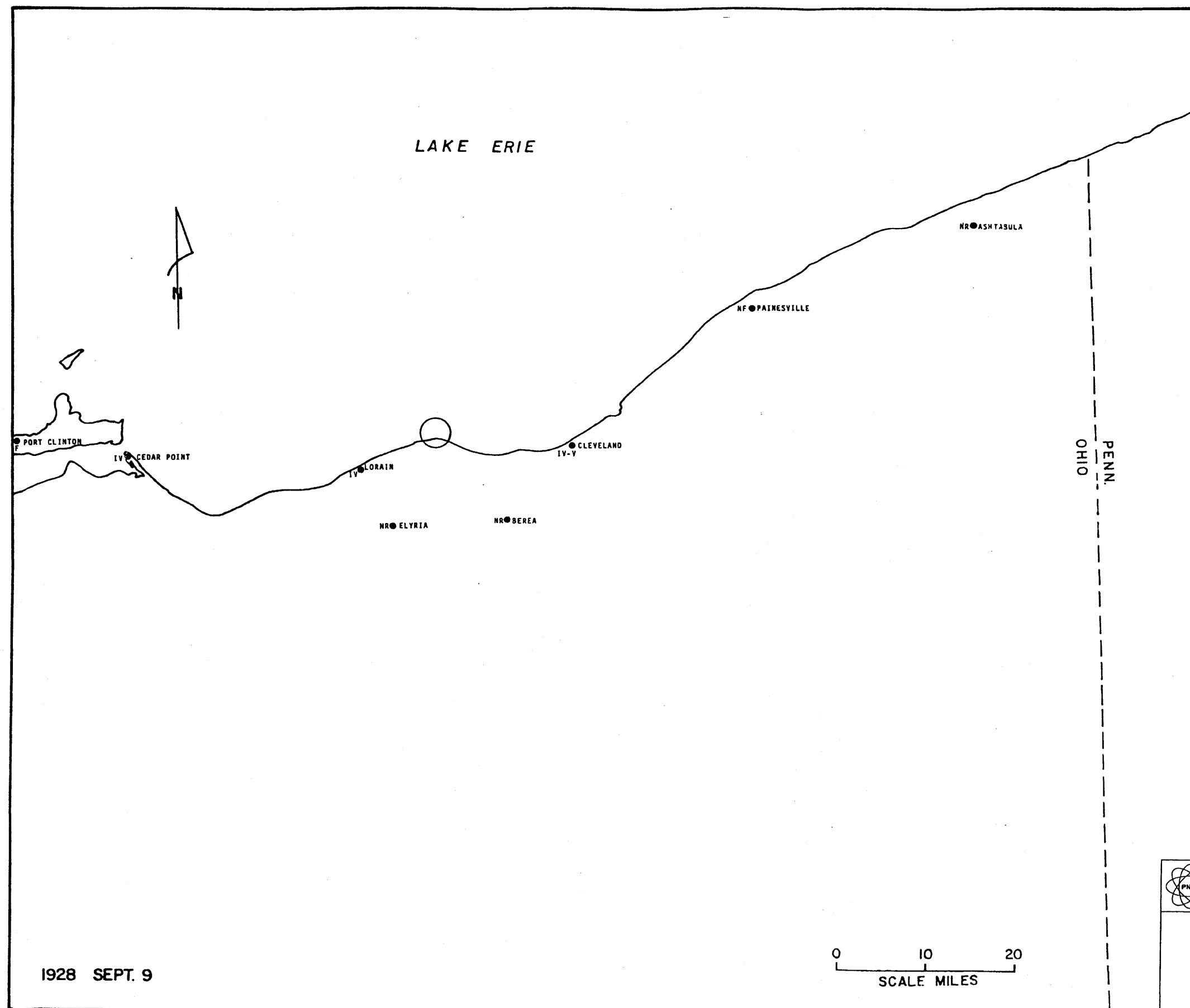
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Felt Report Map:
1906 June 27

Figure 2D D-9



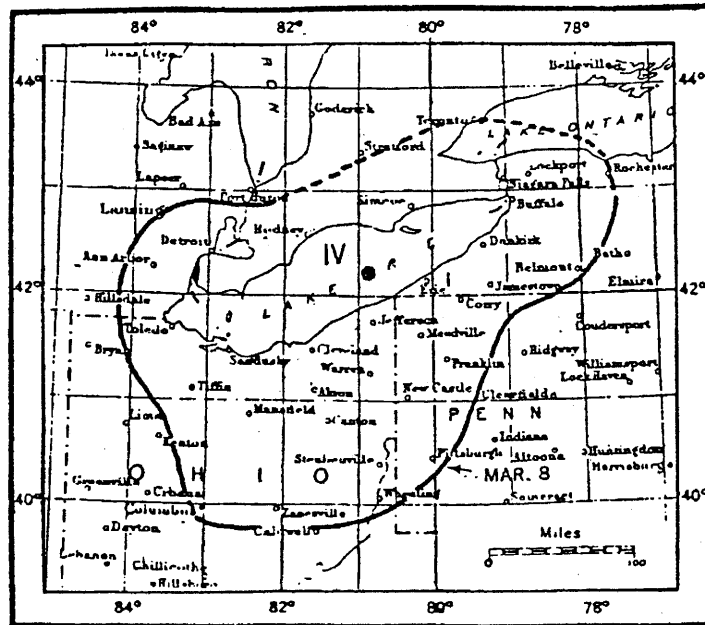
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

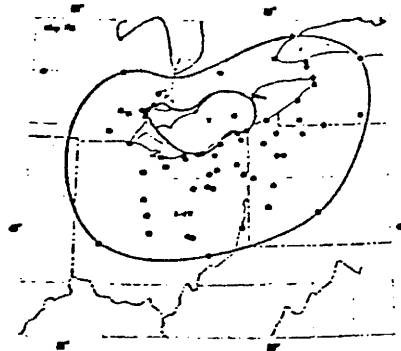
Felt Report Map:
1928 Sept. 09

Figure 2D D-10



Area affected by the Lake Erie earthquake of March 8, 1943.

Bodle, R. R., 1945, United States Earthquakes, 1943, United States Department of Commerce, Coast and Geodetic Survey, Washington, D.C., p. 7.



The Lake Erie Earthquake of March 8, 1943. A modification of Bodle (1947, fig. 4): 85,000 sq. mi.

(Rev. 12 1/03)

Docekal, J., 1971, Earthquakes of the Stable Interior with Emphasis on the Midcontinent, Ph.D. thesis, University of Nebraska

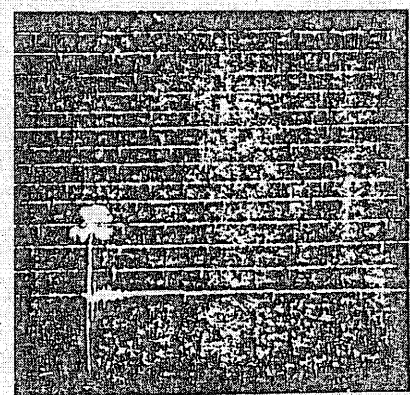
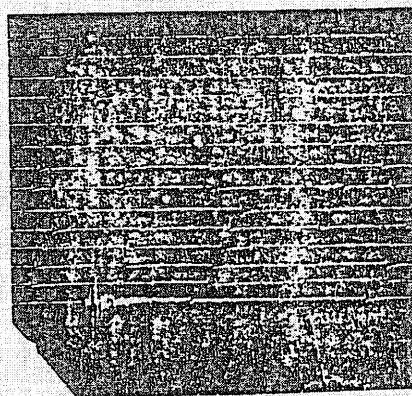


PERRY NUCLEAR POWER PLANT

Felt Report Map:
1943 Mar. 09

Figure 2D D-11

EVENT: MARCH 9, 1943
STATION: JOHN CARROLL UNIV., CLEVELAND
HORIZONTAL COMPONENTS
ESTIMATED DISTANCE: \approx 20 MILES



(Rev. 12 1/03)



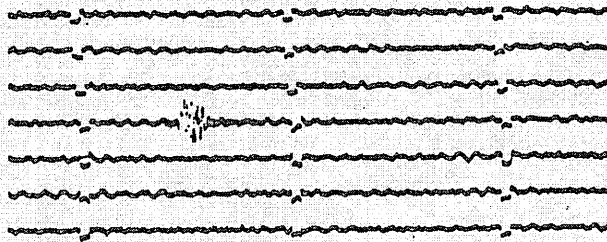
PERRY NUCLEAR POWER PLANT

John Carroll University
Seismogram: 1943 Mar. 09

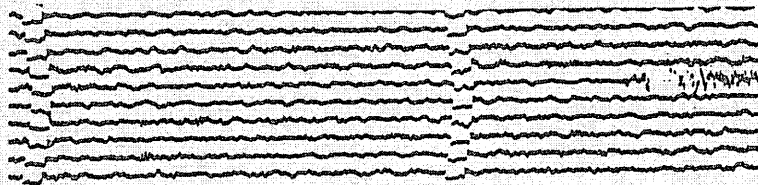
Figure 2D D-12

EVENT: DECEMBER 3, 1951
STATION: JOHN CARROLL UNIV., CLEVELAND
ESTIMATED DISTANCE: * 20 MILES

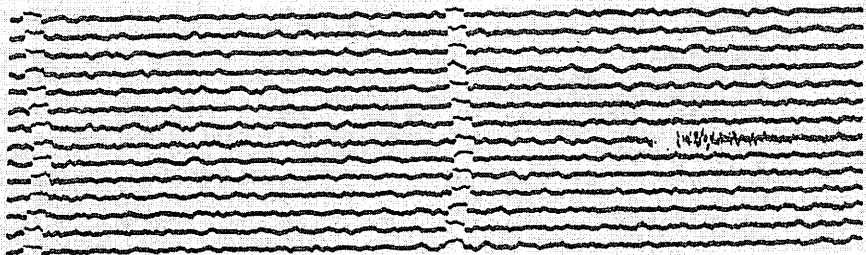
VERTICAL



NORTH-SOUTH



EAST-WEST



(Rev. 12 1/03)



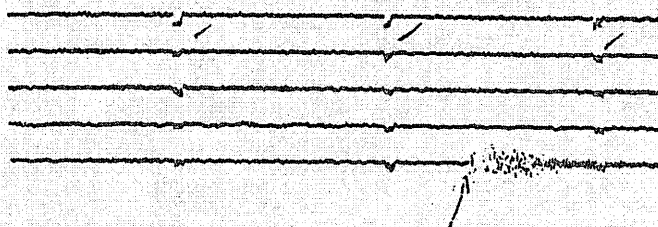
PERRY NUCLEAR POWER PLANT

John Carroll University
Seismograms: 1951 Dec. 03

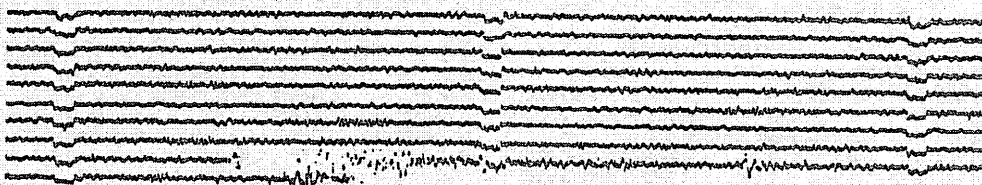
Figure 2D D-13

EVENT: MAY 26, 1955
STATION: JOHN CARROLL UNIV., CLEVELAND
ESTIMATED DISTANCE: ≈ 13 MILES (DR. E. WALTER)

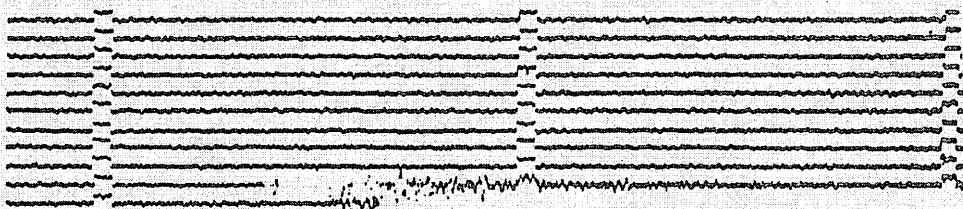
VERTICAL



NORTH-SOUTH



EAST-WEST



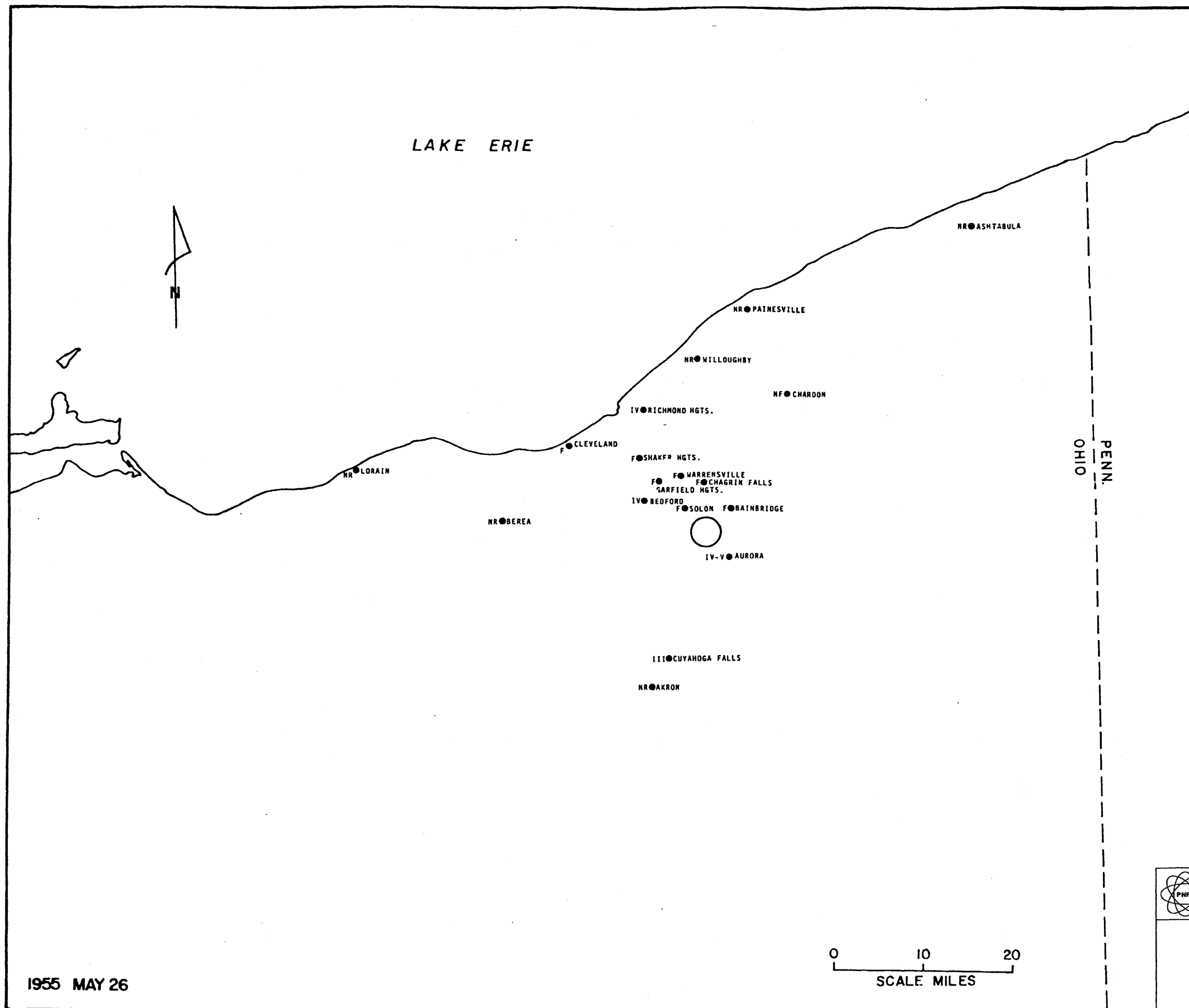
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

John Carroll University
Seismograms: 1955 May 26

Figure 2D D-14



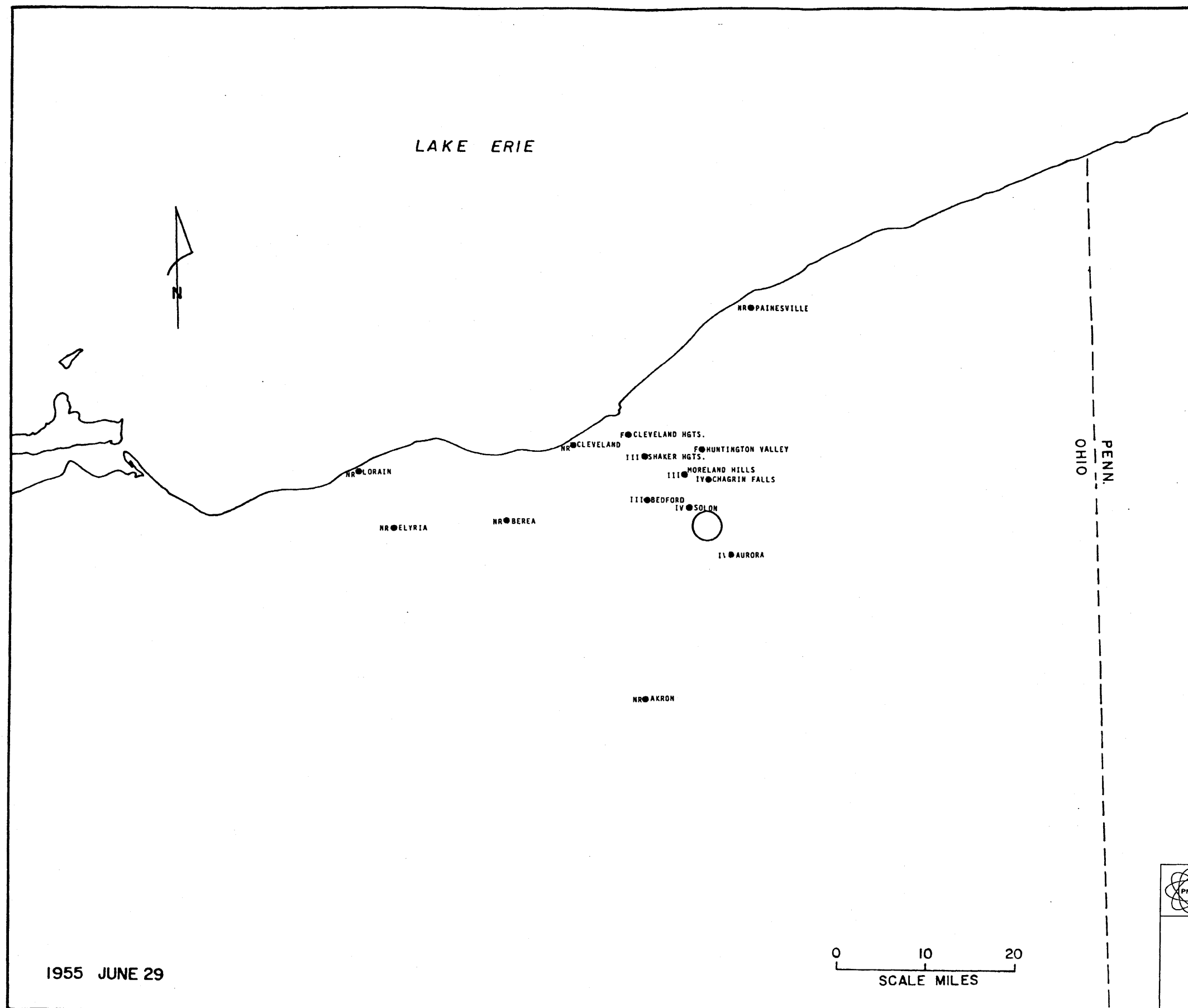
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Felt Report Map:
1955 May 26

Figure 2D D-15



1955 JUNE 29

0 10 20
SCALE MILES

(Rev. 12 1/03)



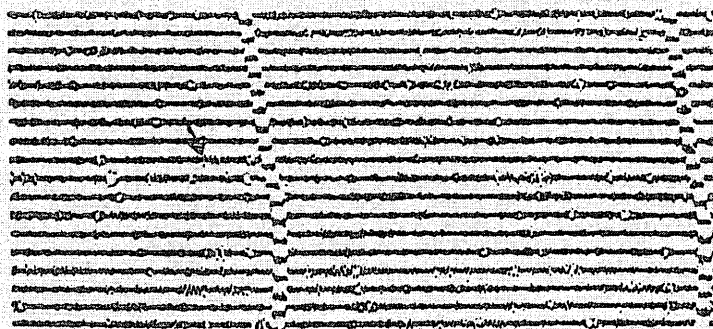
PERRY NUCLEAR POWER PLANT

Felt Report Map:
1955 June 29

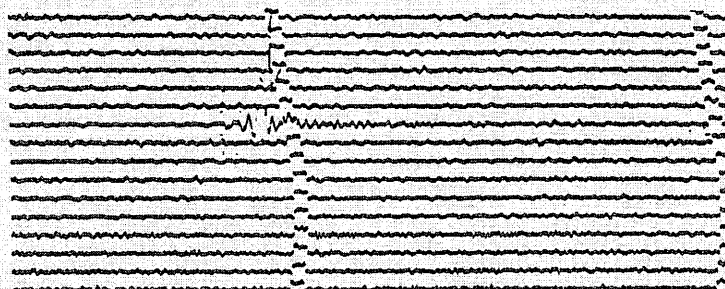
Figure 2D D-16

EVENT: MAY 1, 1958
STATION: JOHN CARROLL UNIV., CLEVELAND
ESTIMATED DISTANCE: 12 MILES (DR. E. WALTER)

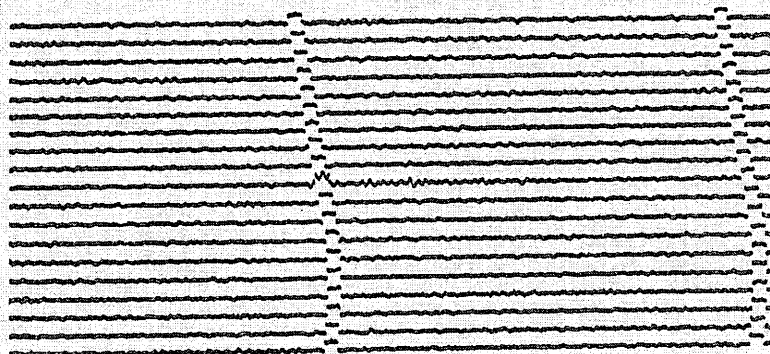
VERTICAL



NORTH-SOUTH



EAST-WEST



(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

John Carroll University
Seismograms: 1958 May 1

Figure 2D D-17

