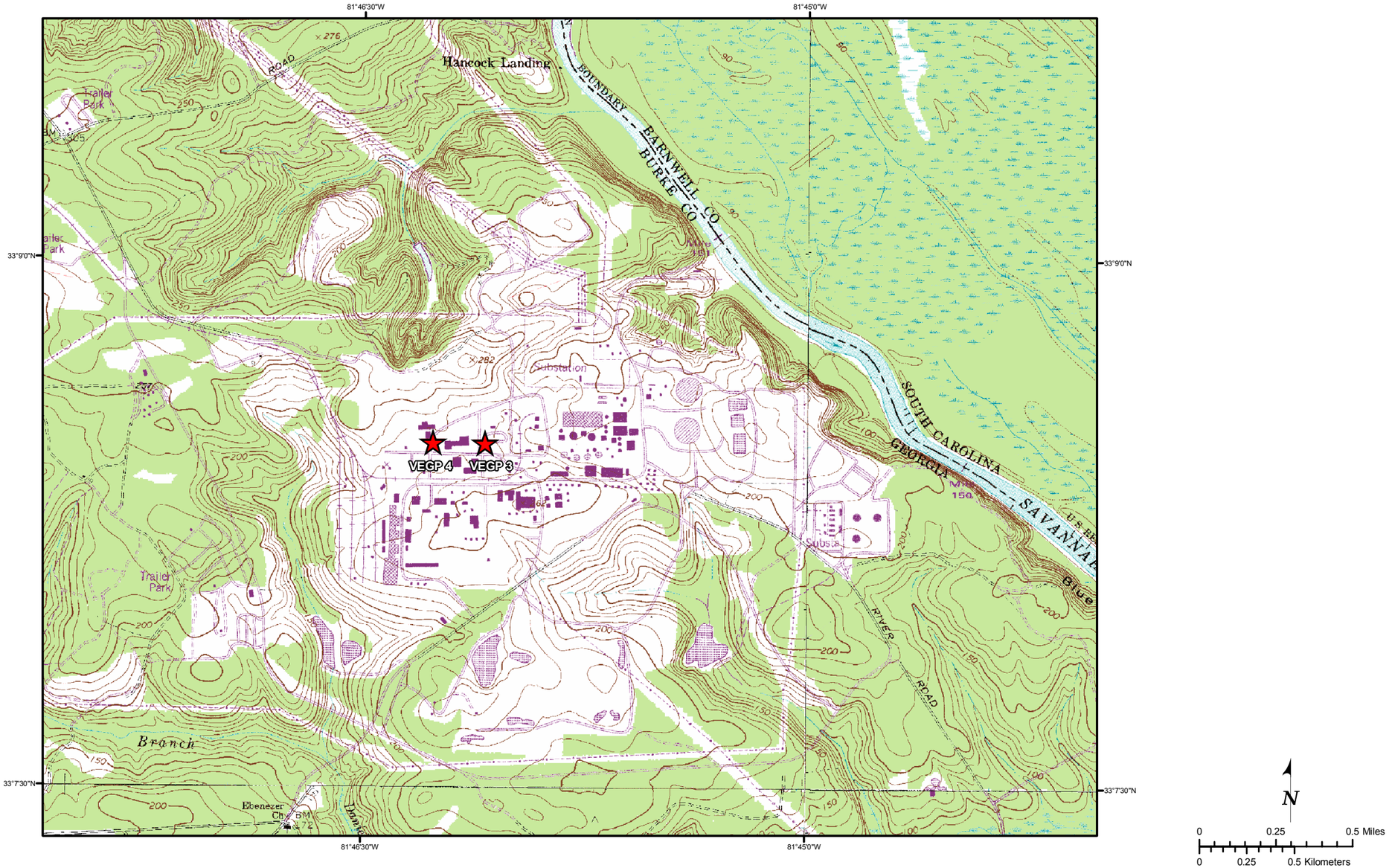

Figure 2.5.1-32 Site Topographic Map (0.6-Mile Radius)

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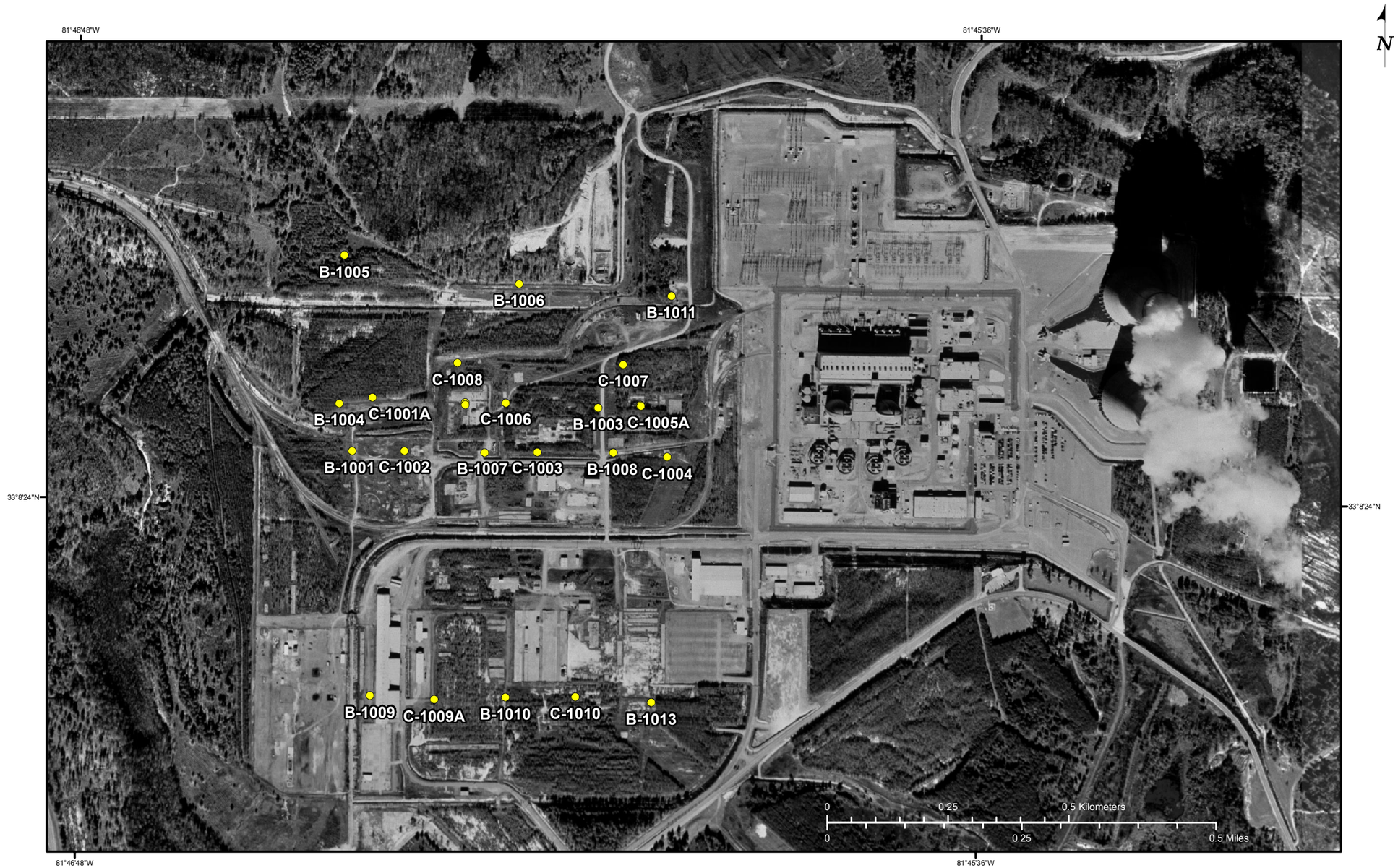

Figure 2.5.1-33 Site Borings Location Map

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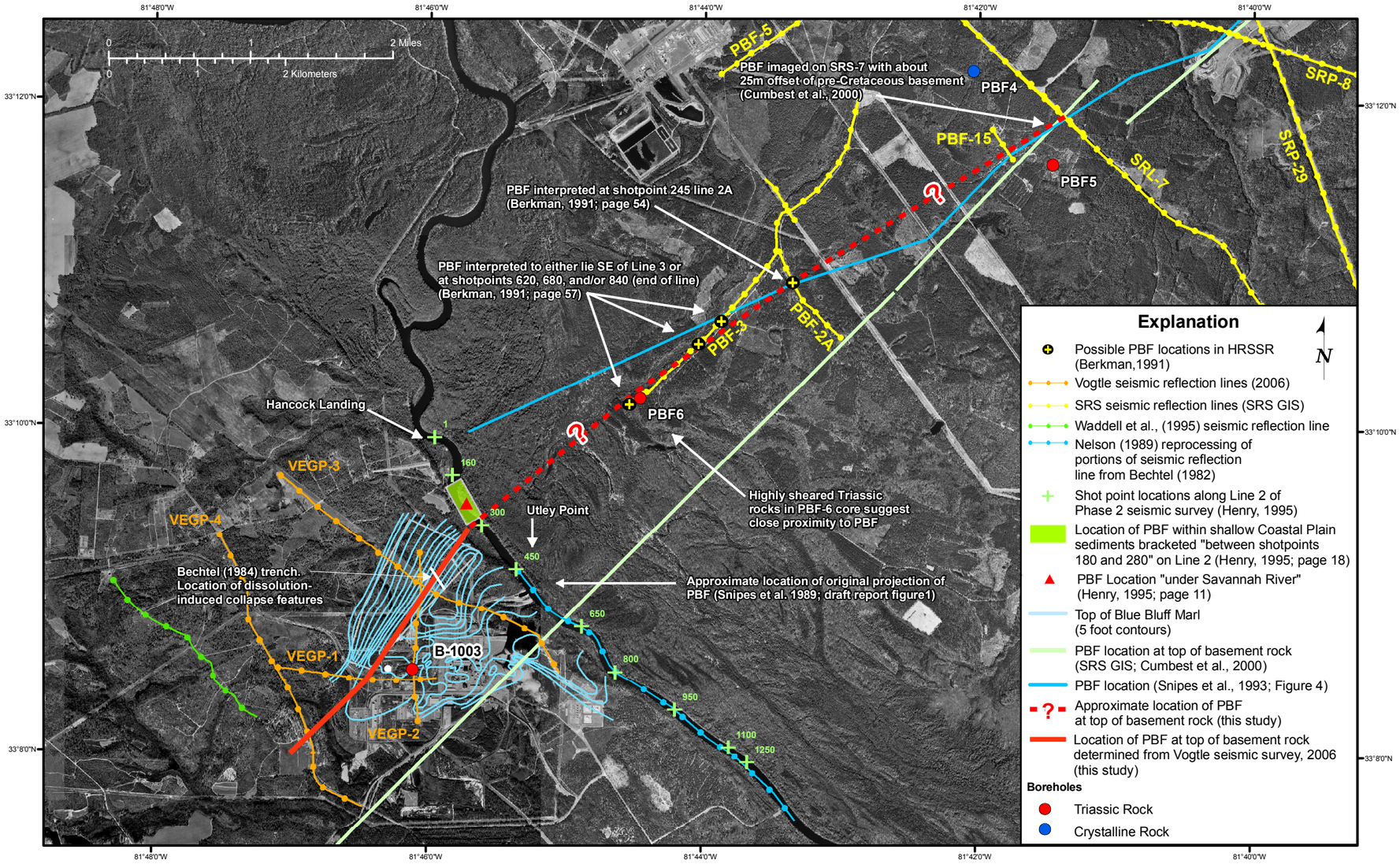

Figure 2.5.1-34 Location of Pen Branch Fault

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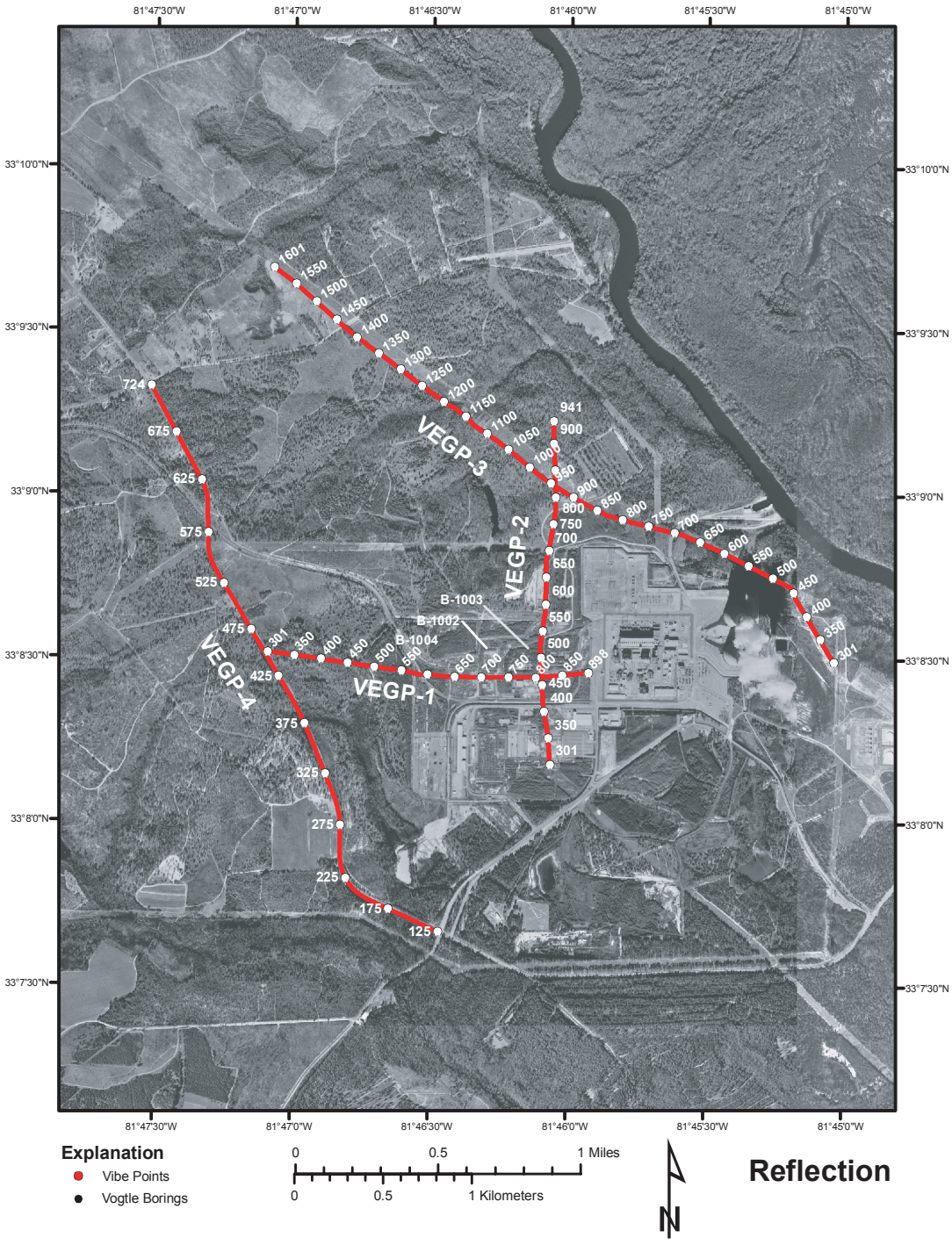

Figure 2.5.1-35 Seismic Reflection Array

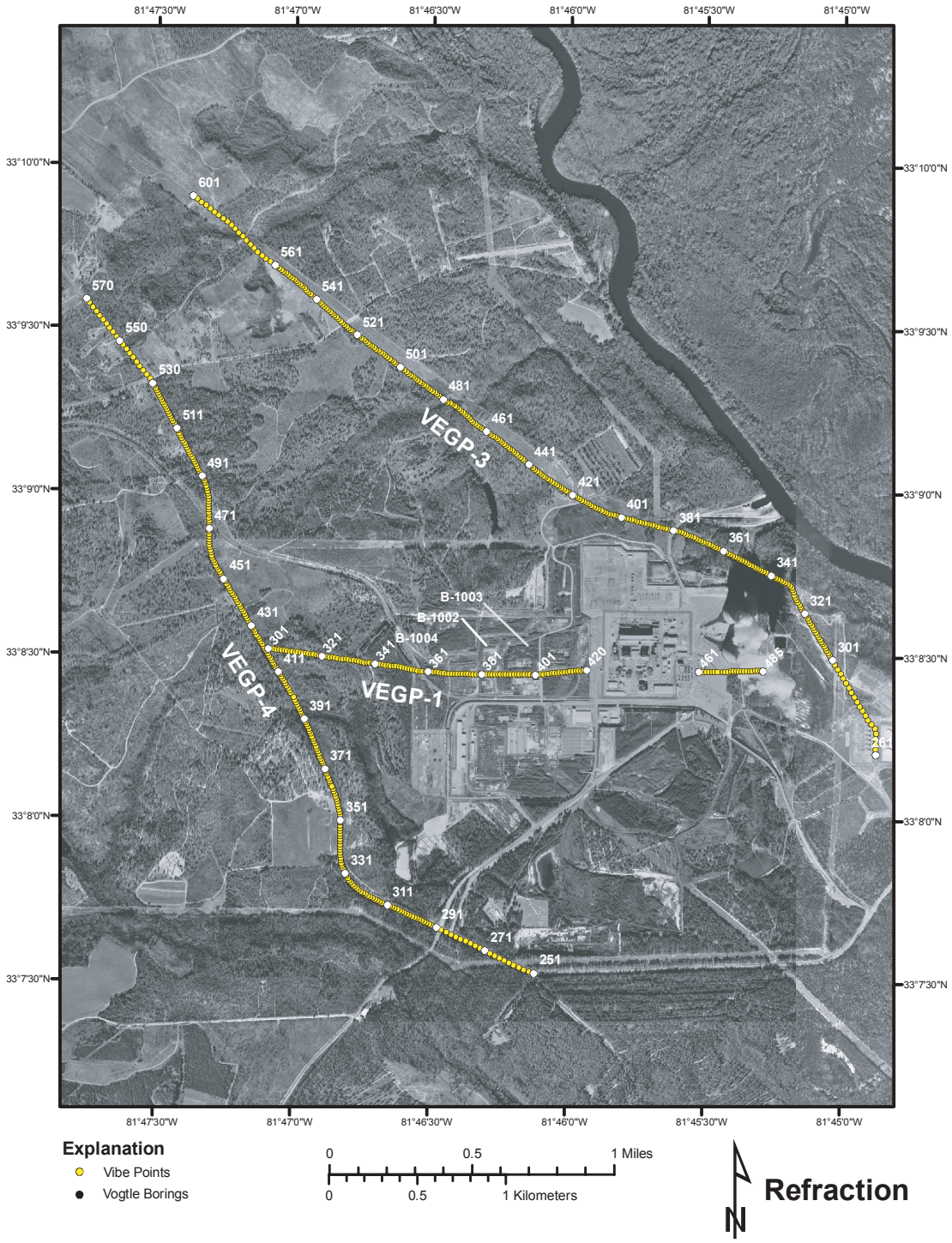

Figure 2.5.1-36 Seismic Refraction Array

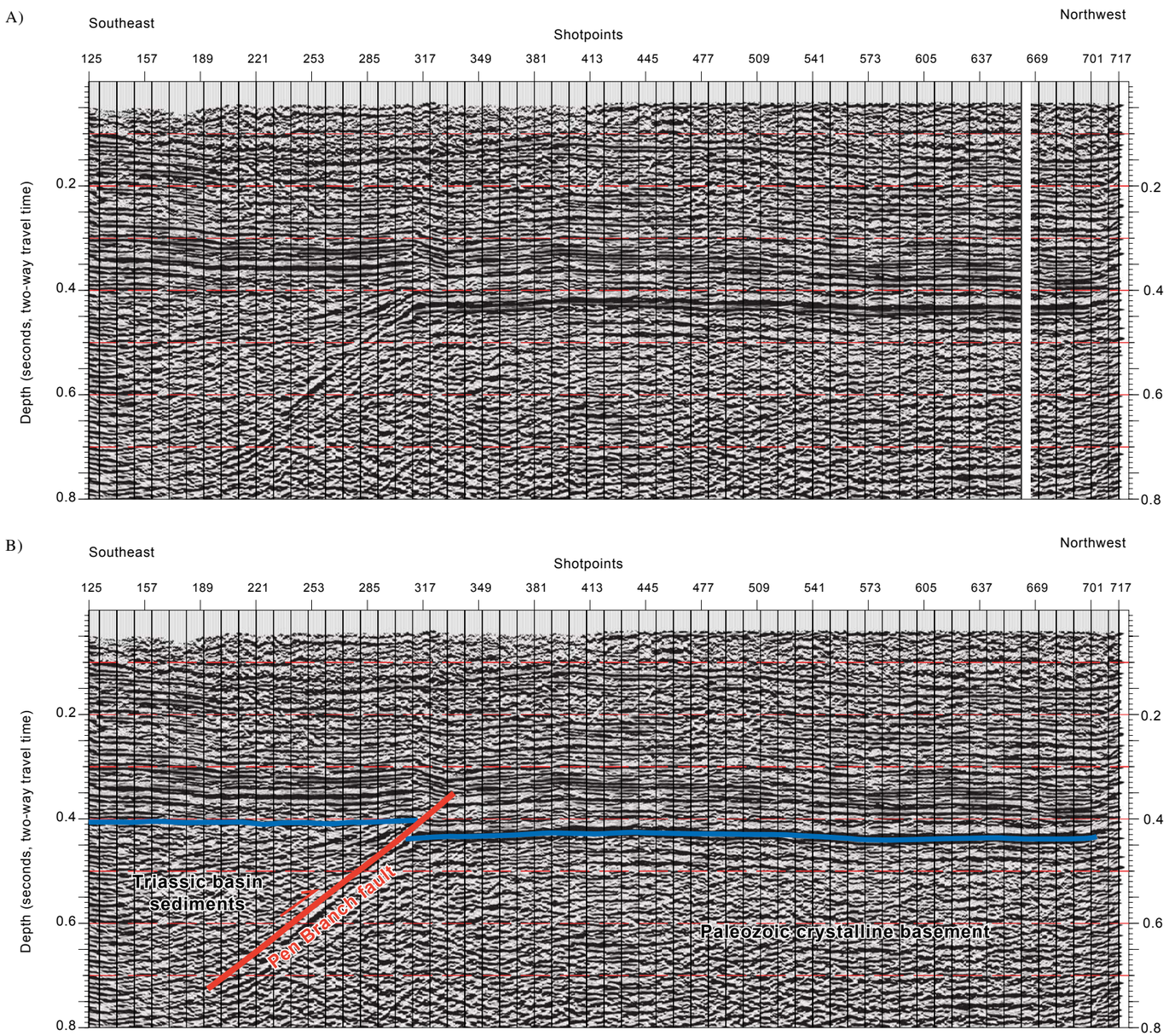

**Figure 2.5.1-37 (A) Seismic Reflection Line 4 (Time Section; Display Velocity = 12,000 fps)
(B) Interpretation (Blue Line Represents Top of Basement)**

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AGE				UNIT	DEPTH (FT)	ELEVATION (FT MSL)
Cenozoic	TerTiary	Eocene	Upper	Barnwell Group • Tobacco Road Sand • Dry Branch Formation • Clinchfield Formation o Utley Limestone Member	Ground surface 48	+223 +175
			Middle	Claiborne Group • Lisbon Formation o Blue Bluff Member / McBean Member • Still Branch Sand • Congaree Formation	86 149 216	+137 +74 +7
			Lower			
		Paleocene	Upper	• Snapp Formation • Black Mingo Formation	331 438	-108 -215
			Lower			
Mesozoic	Cretaceous	Upper		• Steel Creek Formation • Gaillard Formation/ Black Creek Formation • Pio Nono Formation / Unnamed Sand • Cape Fear Formation	477 587 798 858	-254 -364 -575 -635
	Triassic			Triassic (Dunbarton) basin	1049 Boring terminated at 1338	-826

Figure 2.5.1-38 Site Stratigraphic Column Based on Boring B-1003

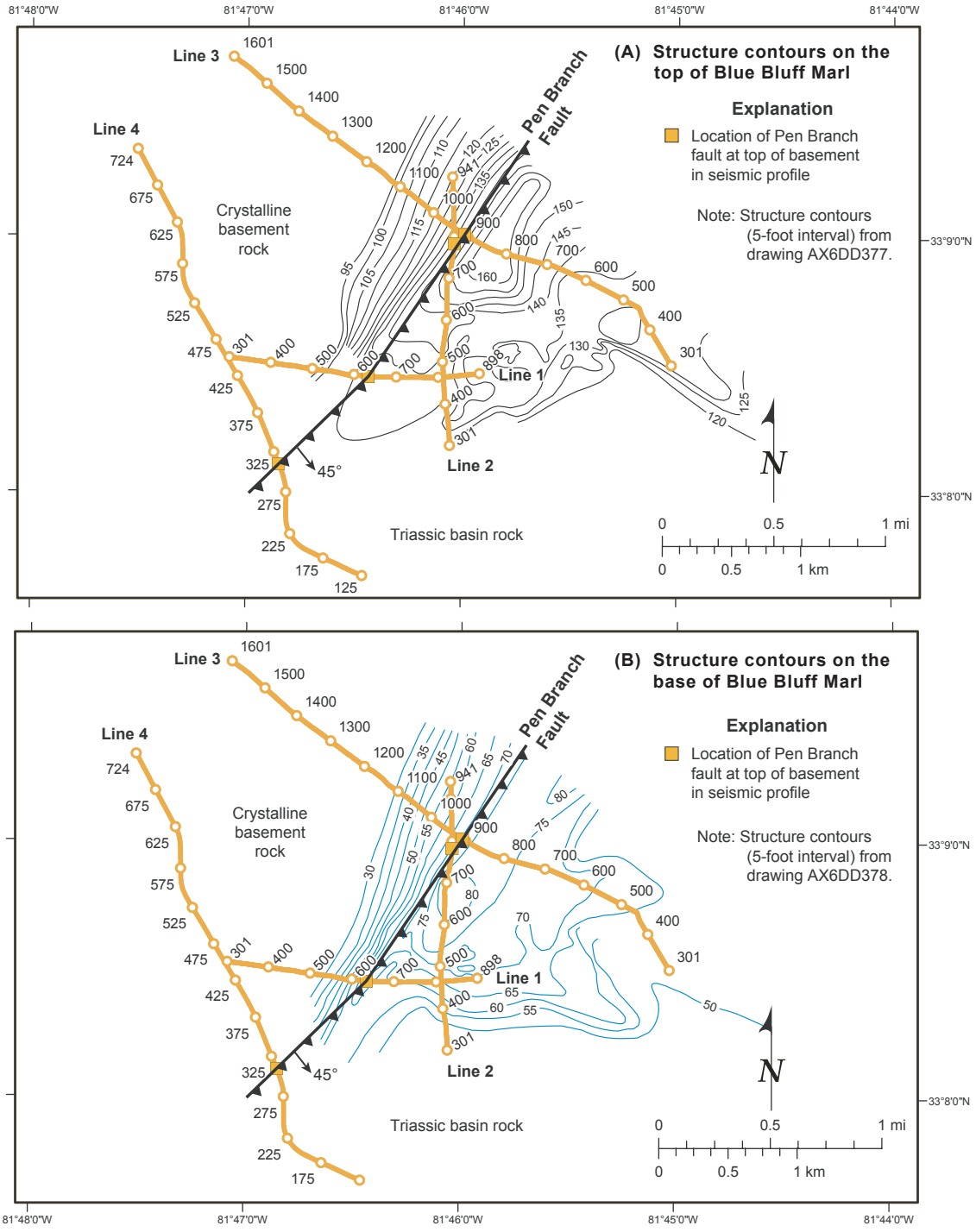

Figure 2.5.1-39 Location of the Pen Branch Fault at Top of Basement Beneath the Overlying Monocline in the Blue Bluff Marl

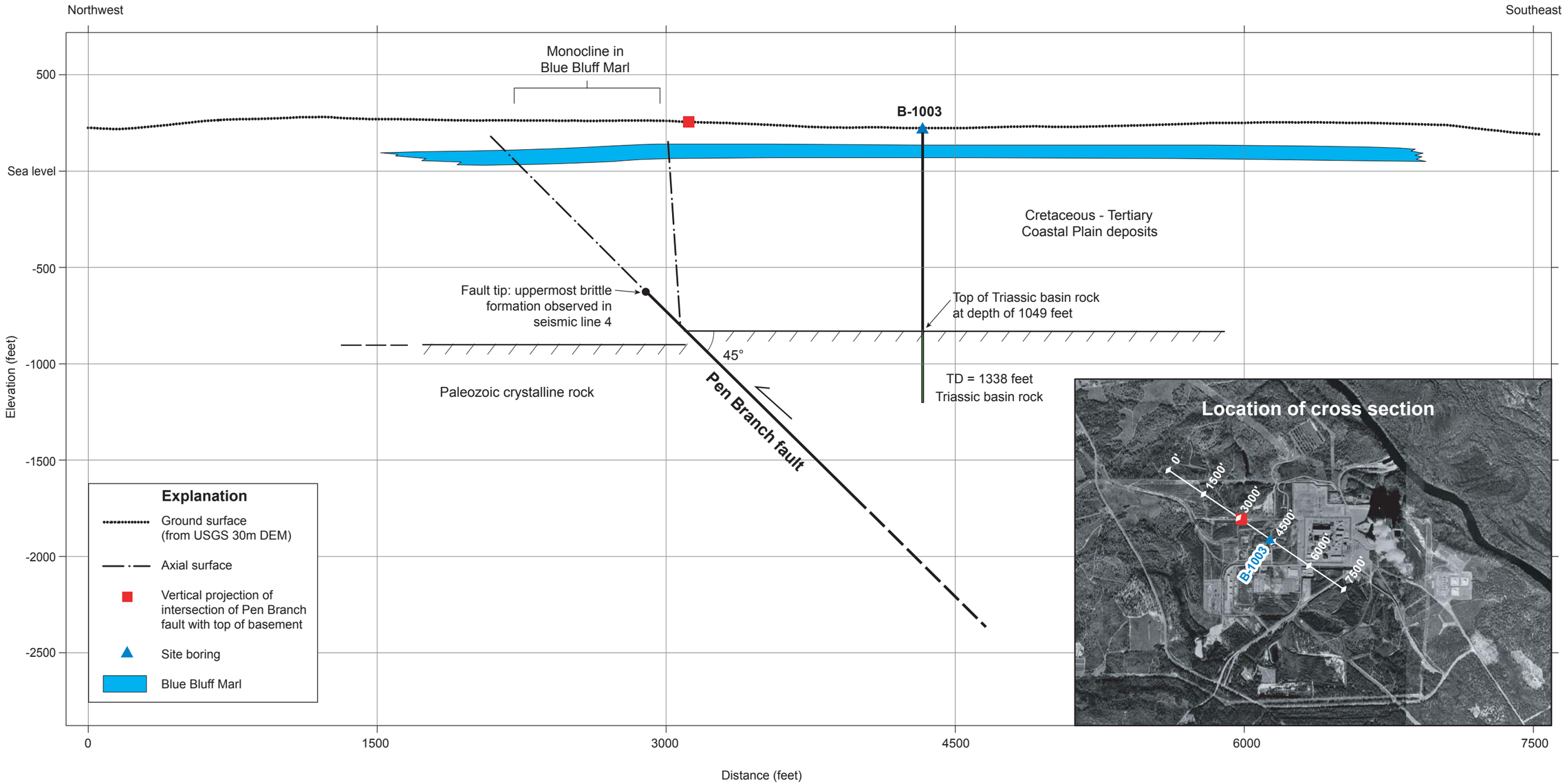

Figure 2.5.1-40 Northwest-Southwest Cross Section Showing Pen Branch Fault Beneath VEGP Site

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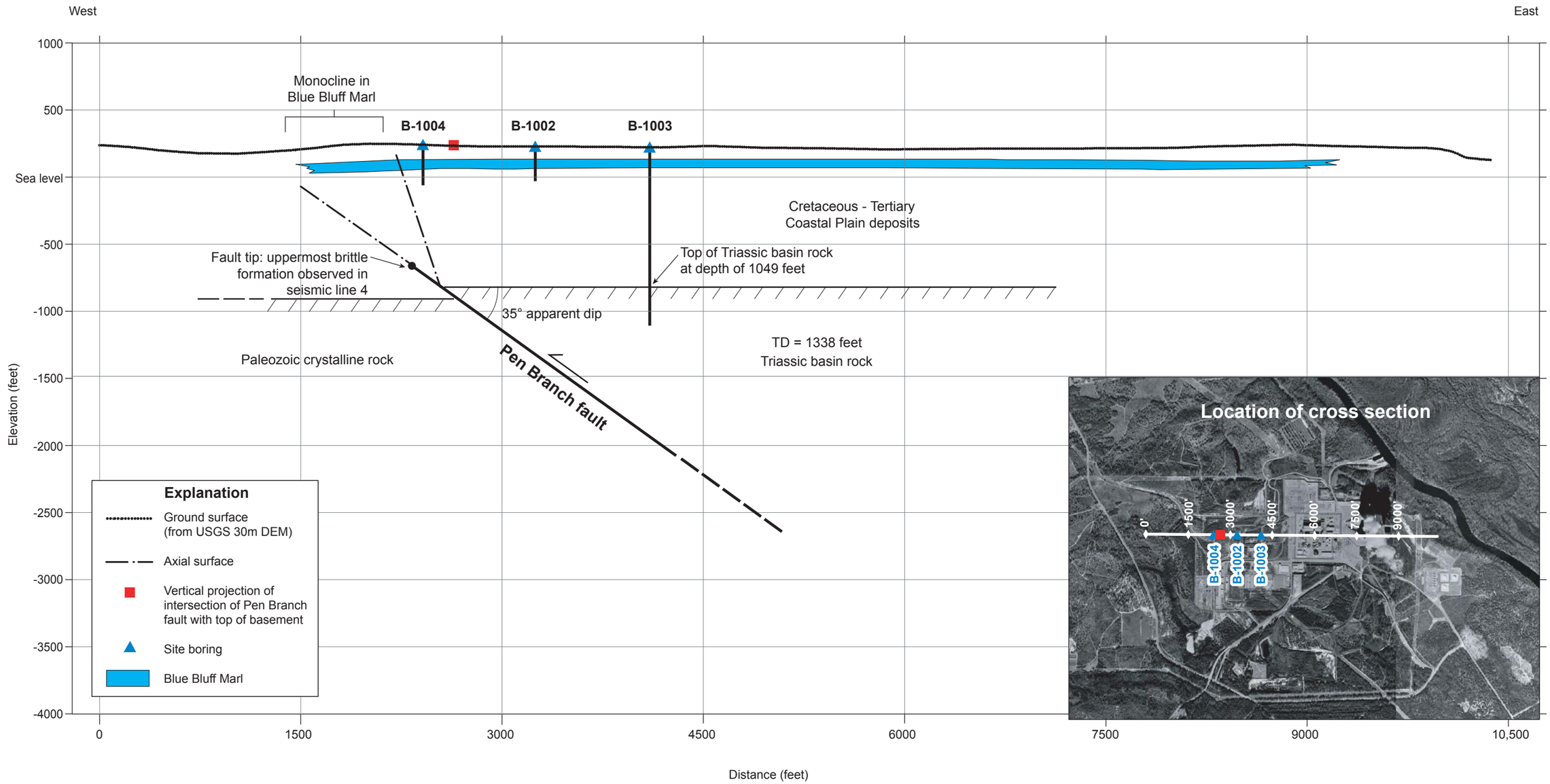

Figure 2.5.1-41 East-West Cross Section Showing Pen Branch Fault Beneath VEGP Site

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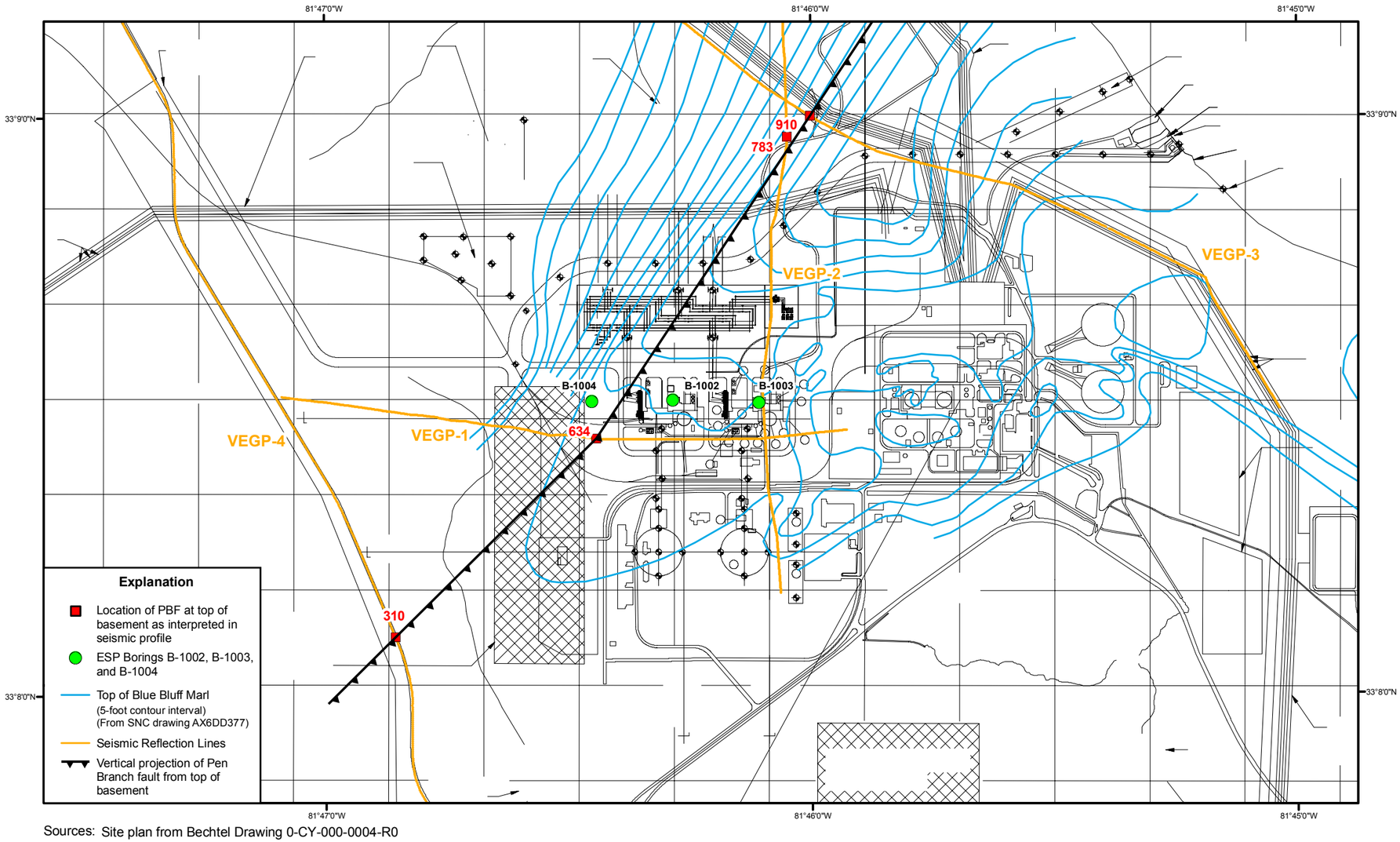

Figure 2.5.1-42 VEGP Site Plant Layout

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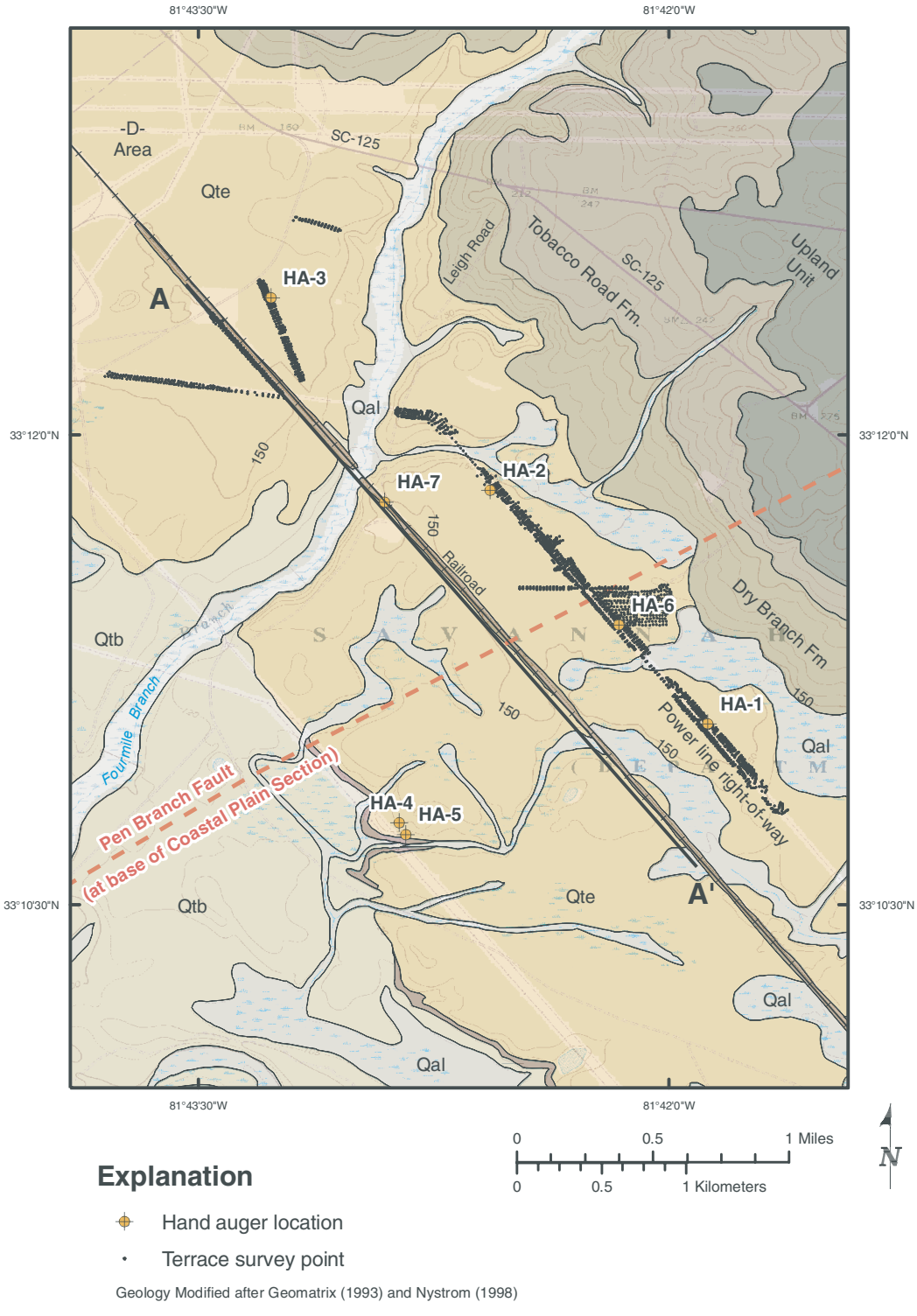

Figure 2.5.1-43 Geologic Map of Qte Terrace Study Area

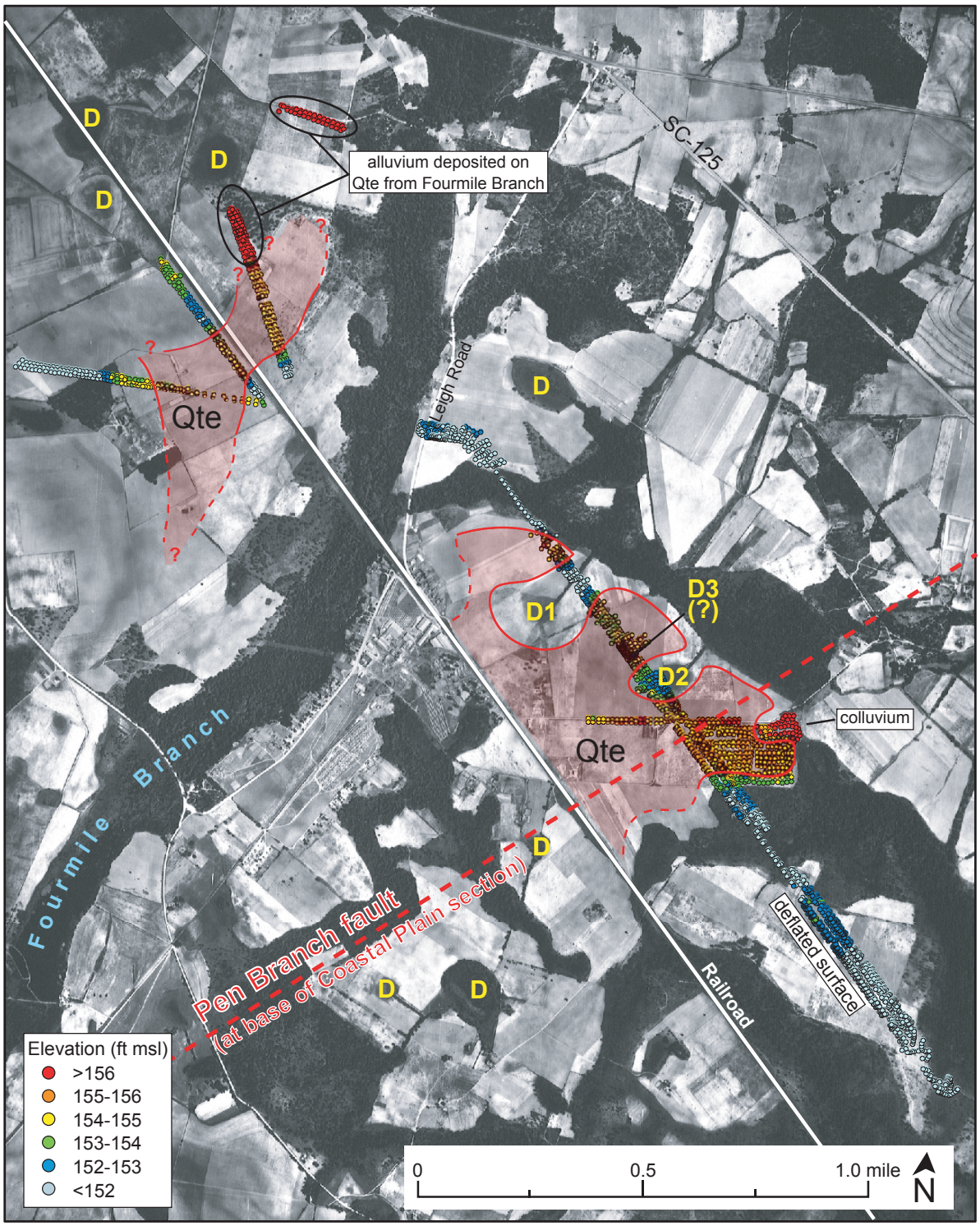

Figure 2.5.1-44 Geomorphic Map Showing Best Preserved Remnants of QTE Terrace Surface (Red Shading) in Study Area at the SRS. Yellow Ds Indicate Dissolution Collapse-Related Depressions. Base Image is 1943 Aerial Photograph

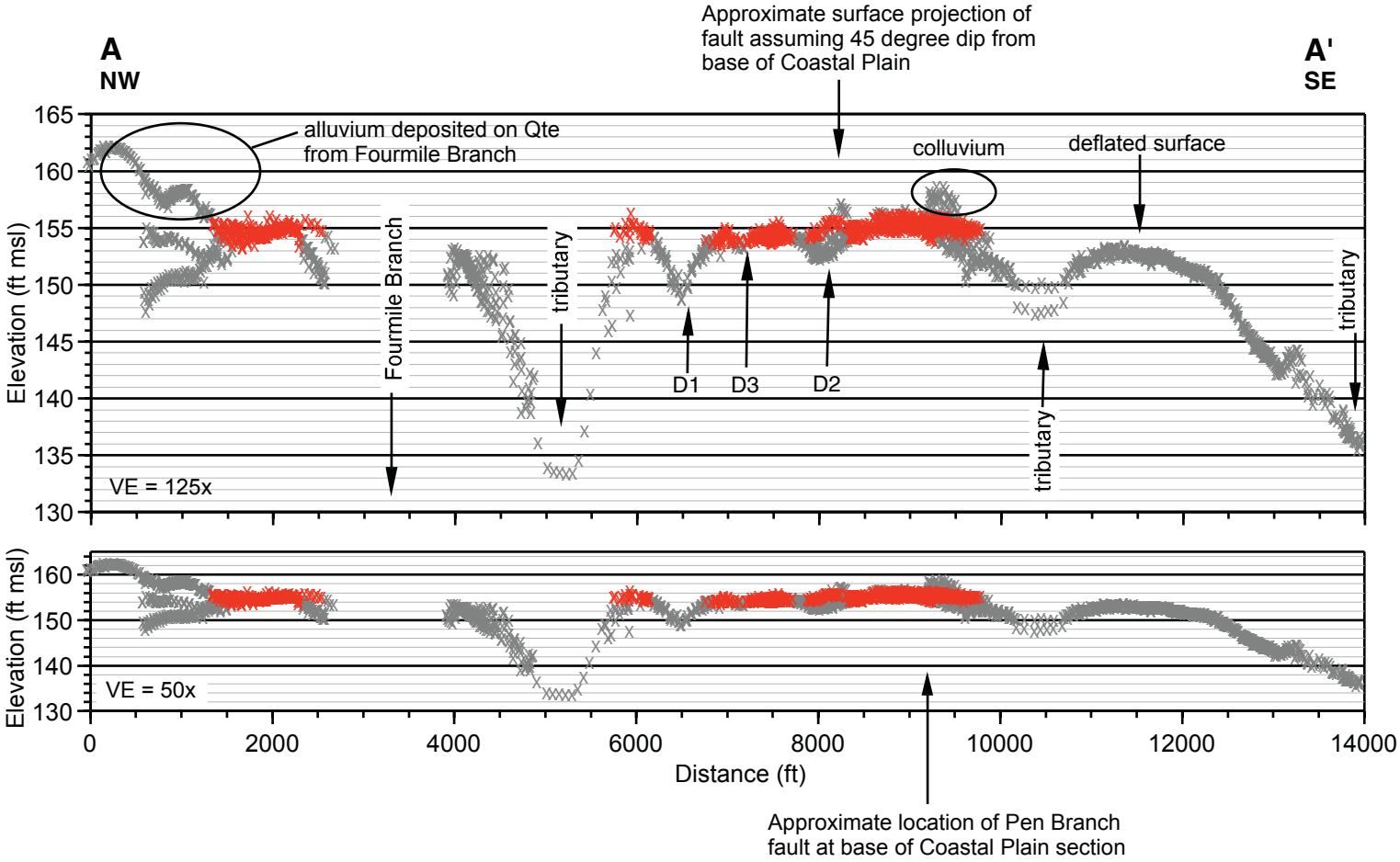

Figure 2.5.1-45 Longitudinal Profile A-A' from SRS Qte Terrace Surface. Points Interpreted as Representing the Best-preserved Remnant of the Qte Surface Are Shown in Red, all Other Points that Do Not Represent the Terrace Are Shown in Gray.

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