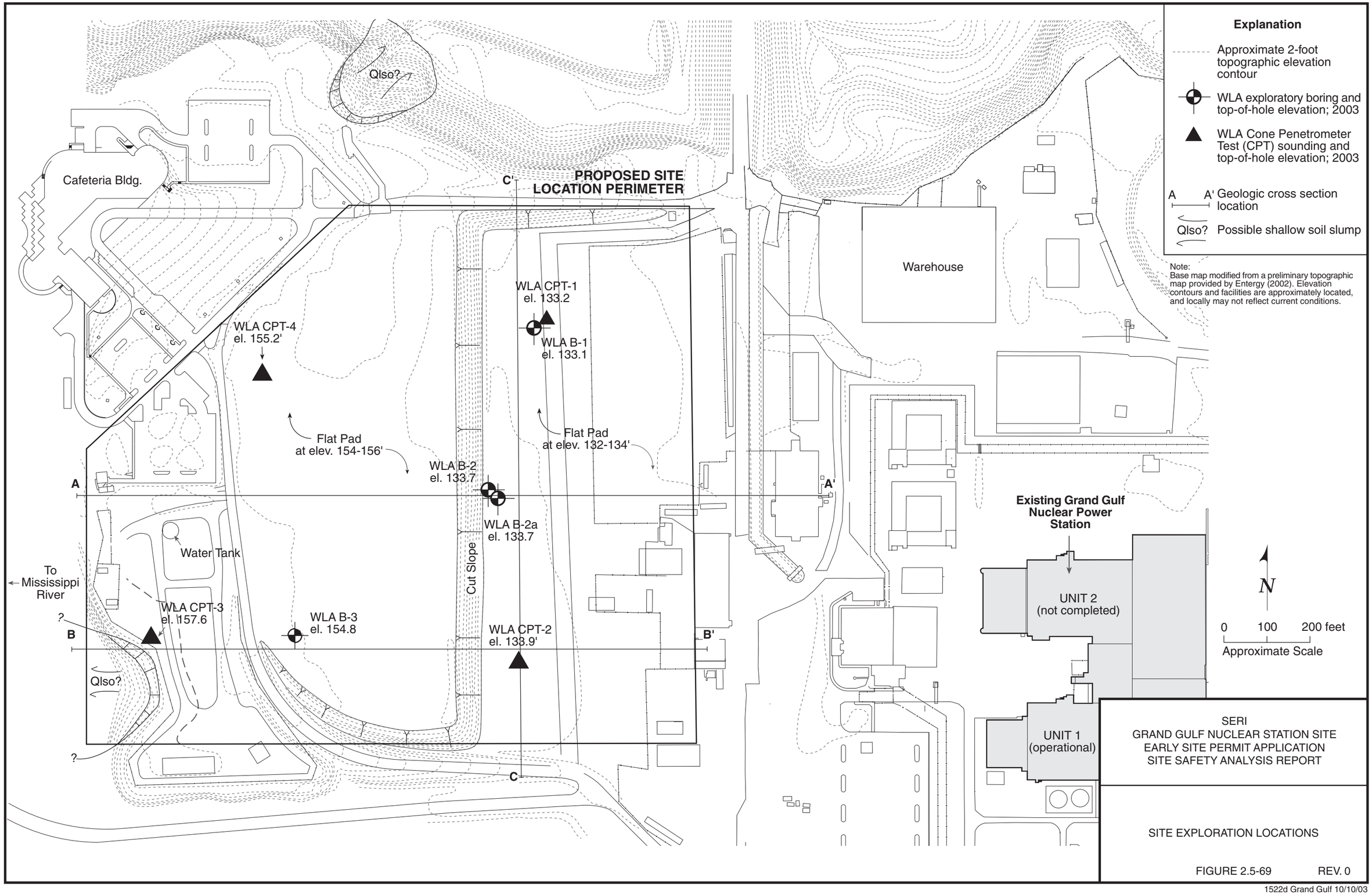
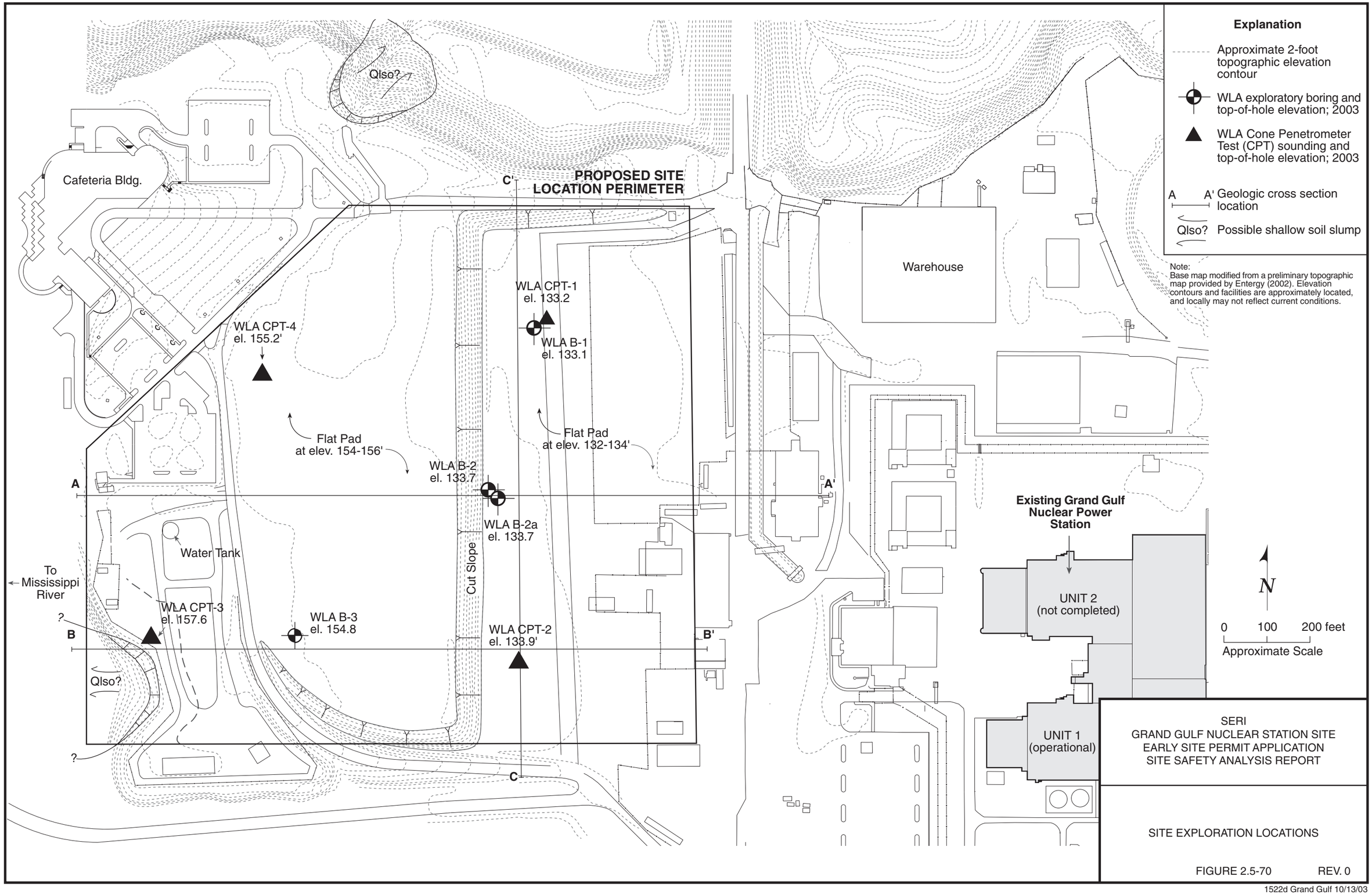
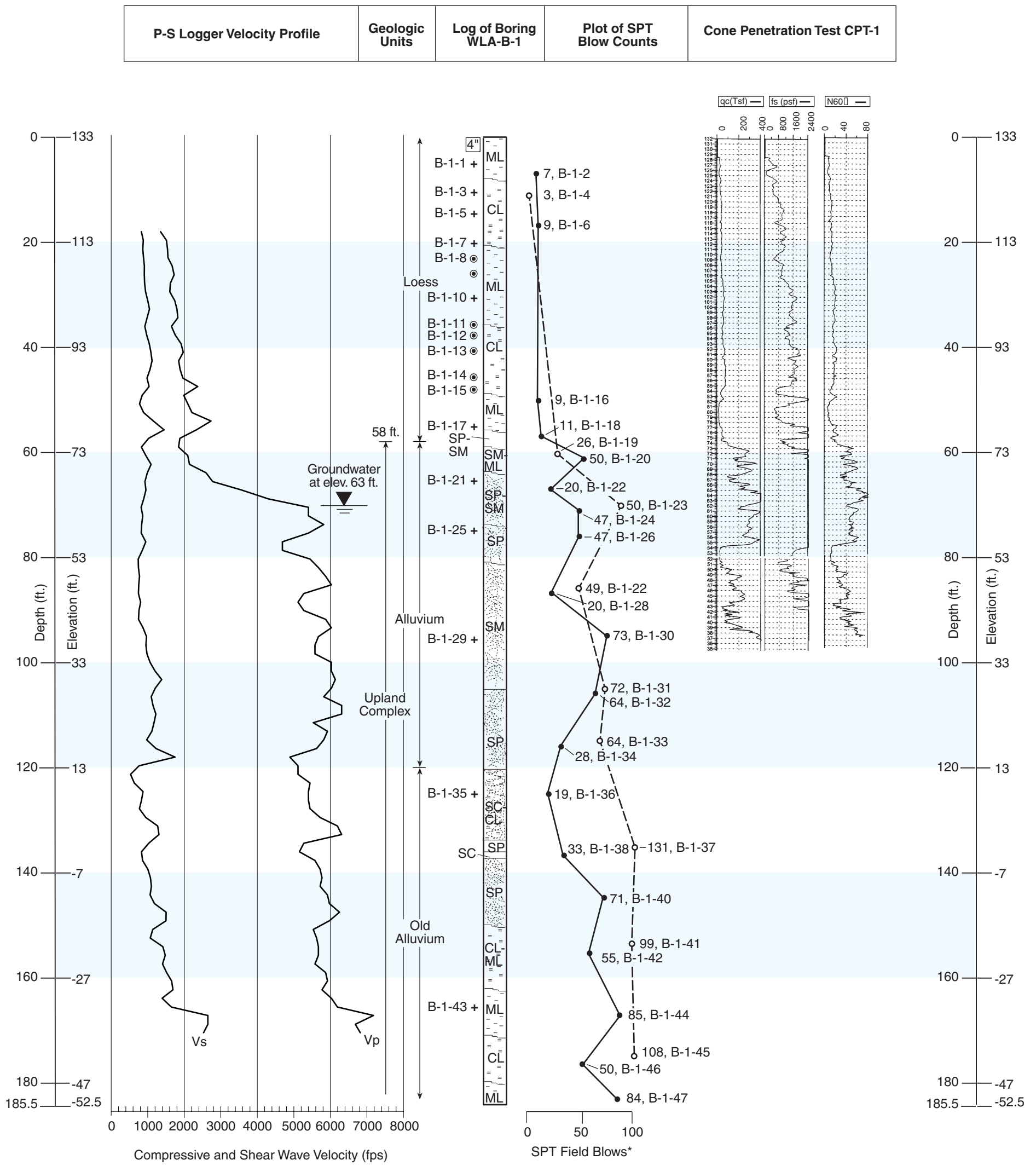


1522d Grand Gulf 10/10/03



1522d Grand Gulf 10/13/03



Notes:
1. Downhole geophysics in uncased hole performed by T. Martin of Geovision.
2. Groundwater level interpreted from geophysical log.
3. Vs = Shear Wave Velocity
   Vp = Compressional Wave Velocity
4. CPT-1 is located approximately 10 feet northeast of B-1.
5. Elevation of ground surface at boring is 133.2 feet.
6. Boring started on July 24, and completed July 30, 2002.
7. SPT field blows determined with a 140 lb. hammer, and 30" drop.

Explanation

Sampler type and number

- ● SPT sampler
- ◉ SPT sampler (pushed)
- ○ 3.0" O.D. "ModCal" sampler
- + 3.0" O.D. thin wall Shelby sampler (pushed)
- 4" Mud rotary hole diameter

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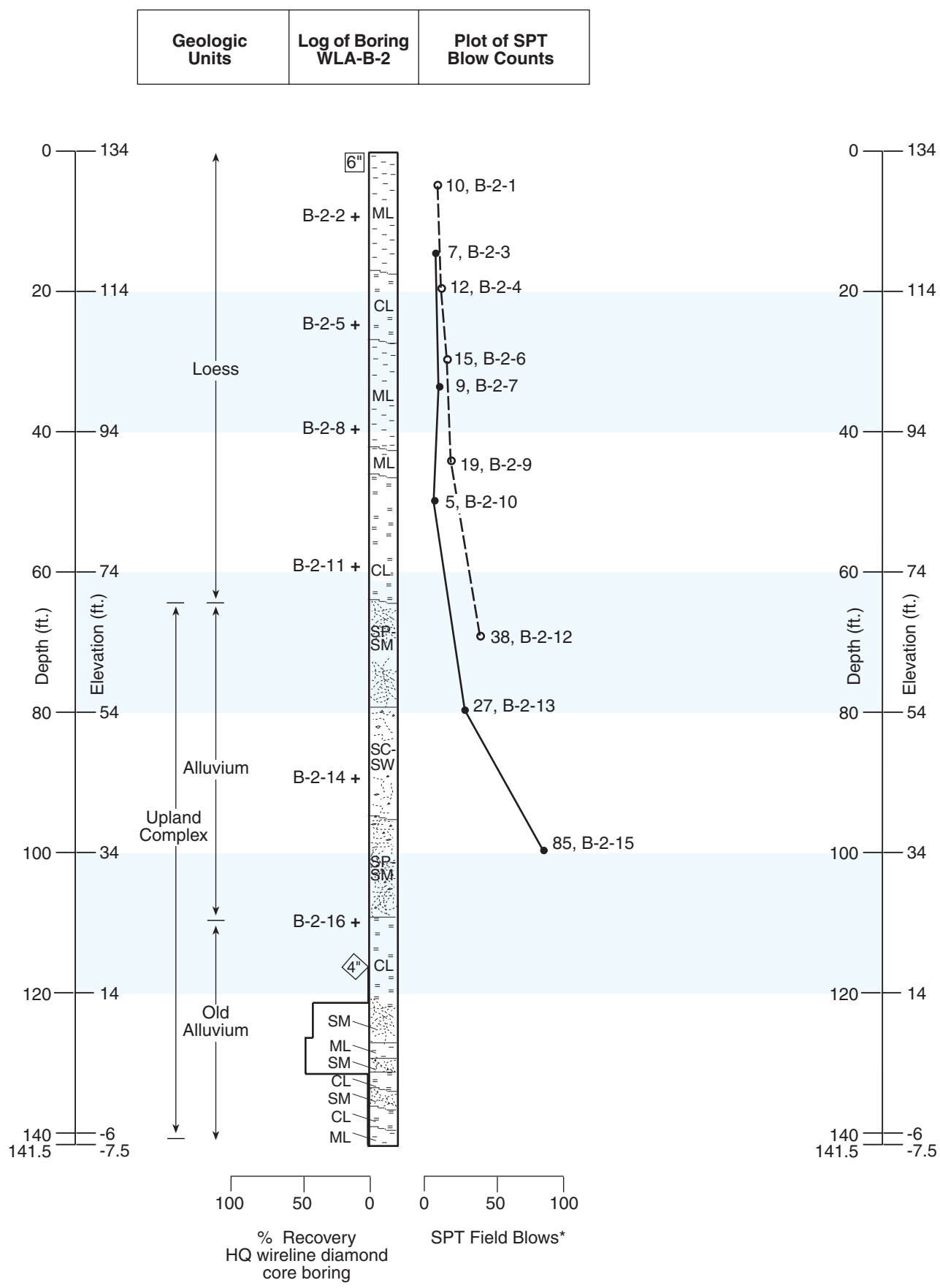
BORING SUMMARY SHEET
BORING WLA B-1

FIGURE 2.5-71 REV. 0



Notes:
1. Elevation of ground surface at boring is 133.6 feet.
2. Boring started on July 30, 2002, and completed on August 2, 2002
3. SPT field blows determined with a 140 lb. hammer, and 30" drop.

Explanation

Sampler type and number

- • SPT sampler
- ○ 3.0" O.D. "ModCal" sampler
- + 3.0" O.D. thin wall Shelby sampler (pushed)
- 6" Mud rotary hole diameter
- 4" Wireline corehole diameter

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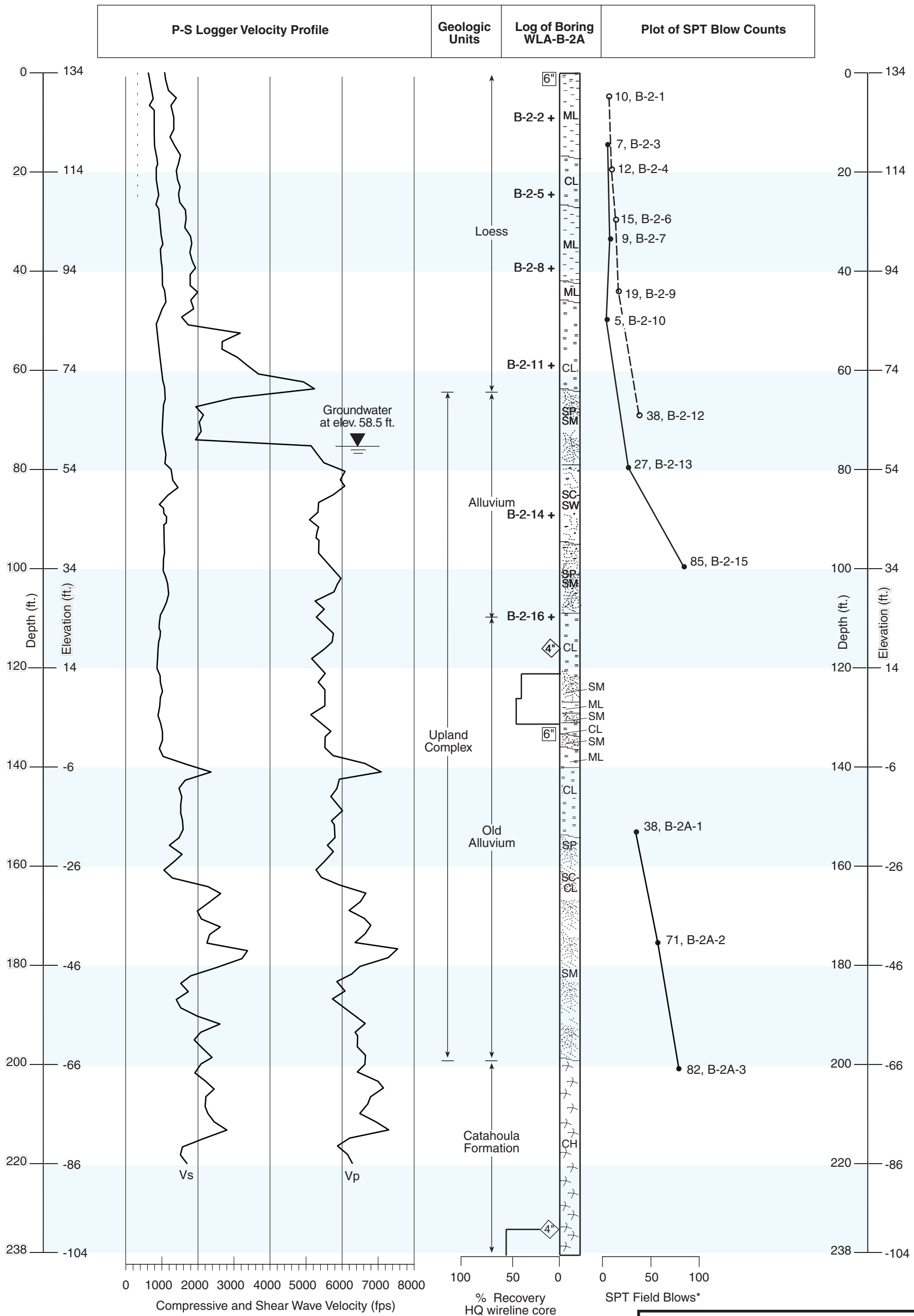
BORING SUMMARY SHEET
BORING WLA B-2

FIGURE 2.5-72 REV. 0



Notes:
1. Downhole geophysics in bald hole preformed by T. Martin of Geovision.
2. Groundwater level interpreted from geophysical log.
3. Vs = Shear Wave Velocity Vp = Compressional Wave Velocity
4. Elevation of ground surface at boring is 133.7 feet.
5. Boring started August 8, 2002, and completed on August 19, 2002.
6. SPT field blows determined with a 140 lb. hammer, and 30" drop.

Explanation

Sampler type and number

- ● SPT sampler
- ○ 3.0" O.D. "ModCal" sampler
- + 3.0" O.D. thin wall Shelby sampler (pushed)
- 6" Mud rotary hole diameter
- 4" Wireline corehole diameter

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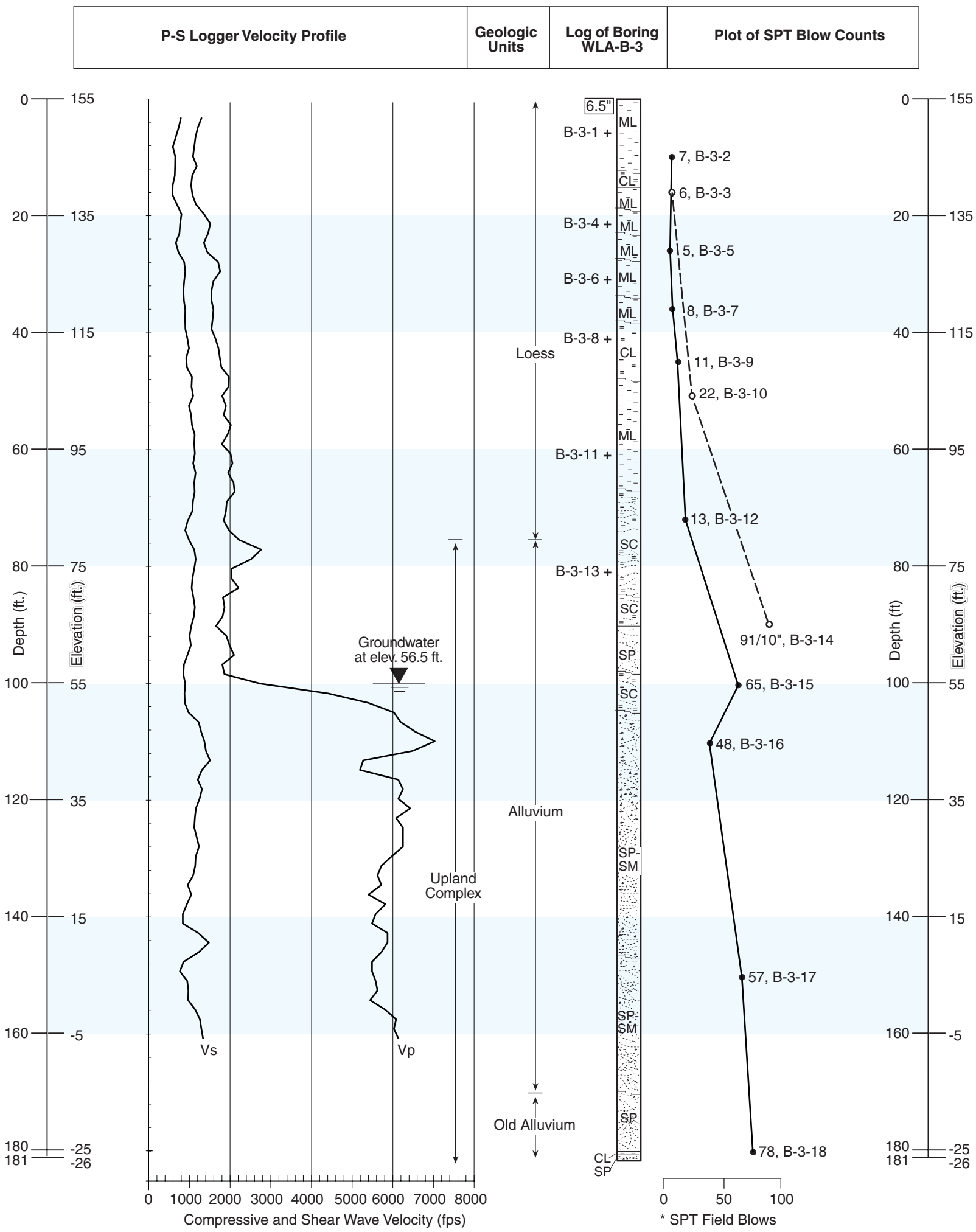
BORING SUMMARY SHEET,
BORING WLA B-2A

FIGURE 2.5-73 REV. 0



Notes:
1. Downhole geophysics in bald hole preformed by T. Martin of Geovision.
2. Groundwater level interpreted from geophysical log.
3. Vs = Shear Wave Velocity Vp = Compressional Wave Velocity
4. Elevation of ground surface at boring is 154.8 feet
5. Boring started on August 12, 2002 and completed on August 15, 2002
6. SPT field blows determined with a 140 lb. hammer, and 30" drop

* Blows determined with a 140 lb. hammer, 30" drop.

Explanation

Sampler type and number

- ● SPT sampler
- ○ 3.0" O.D. "ModCal" sampler
- \+ 3.0" O.D. thin wall Shelby sampler (pushed)
- 6.5" Mud rotary hole diameter

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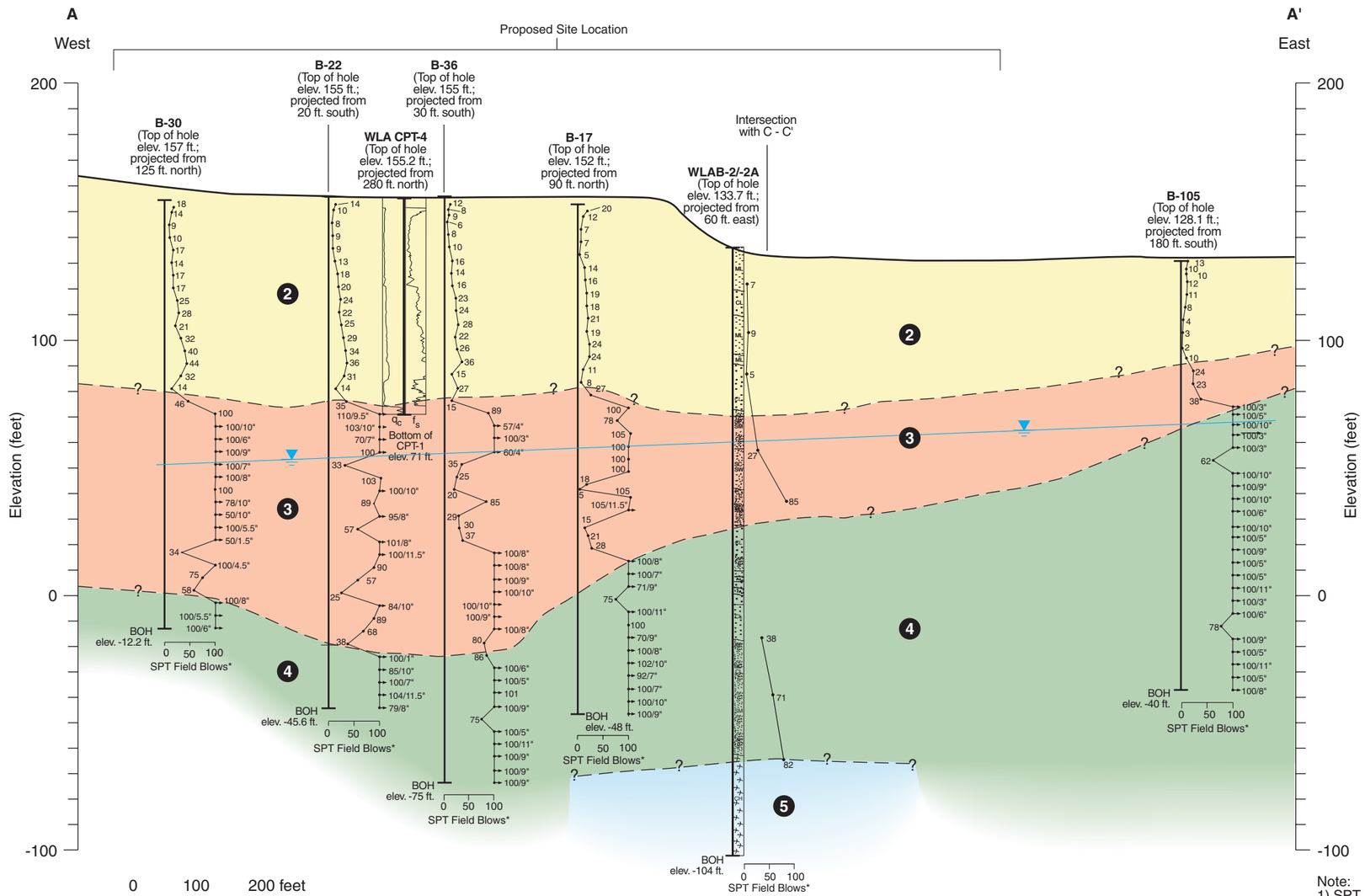
BORING SUMMARY SHEET,
BORING B-3

FIGURE 2.5-74 REV. 0



0 100 200 feet

Approximate scale
vertical exaggeration 4x

Explanation

- 2 Loess
- 3 Alluvium
- 4 Old alluvium
- Upland Complex
- 5 Catahoula Formation
- Groundwater table measured in July/August 2002 by P-S geophysical logging

Note:
1) SPT blow counts are uncorrected field blows, and WLA boring SPT data were collected with an automatic trip hammer.
2) Borings with preface "B" are from GGNS UFSAR.

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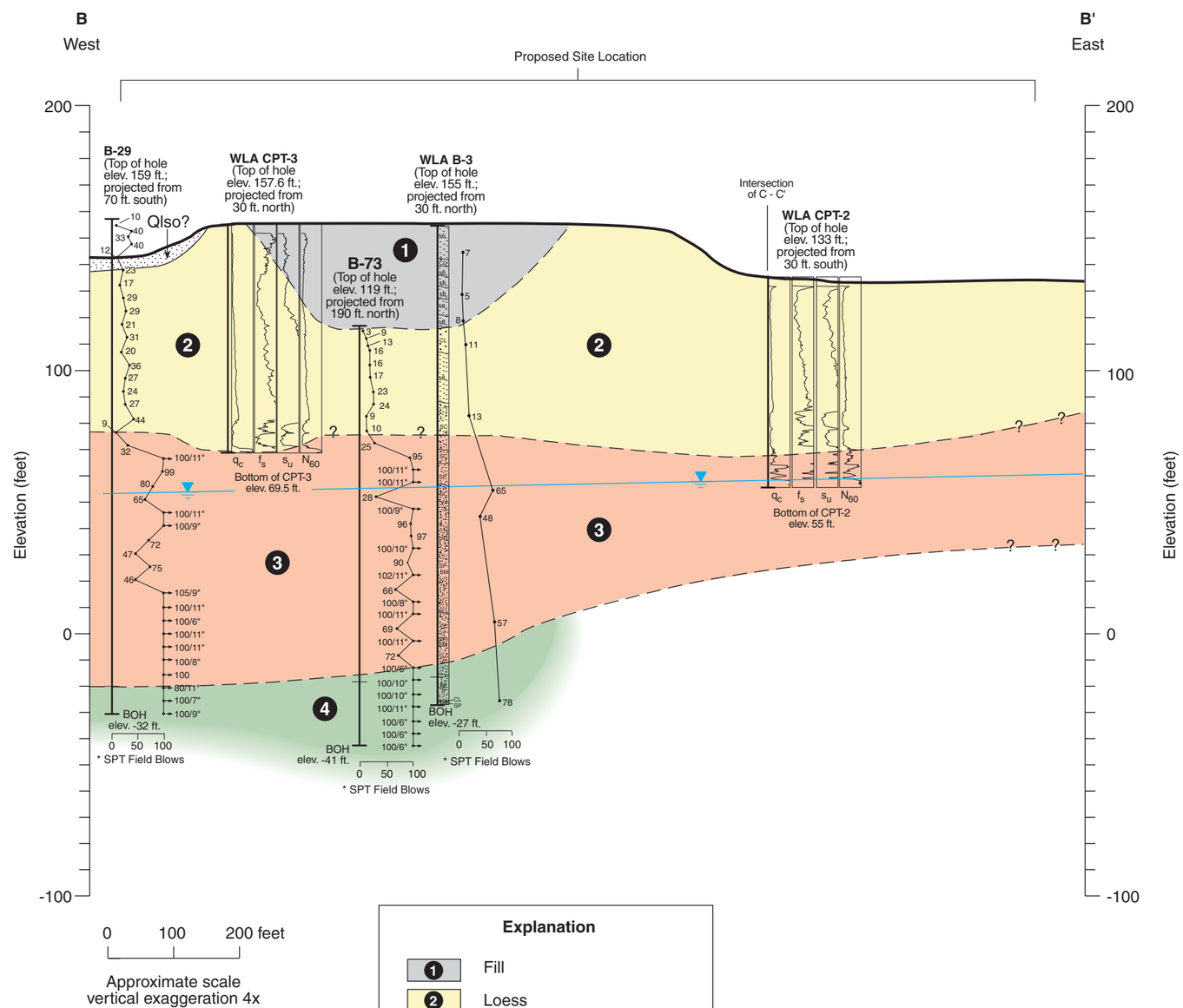
GEOLOGIC SECTION A - A'

FIGURE 2.5-75 REV. 0

1522d Grand Gulf



Explanation

1. Fill
2. Loess
3. Alluvium
4. Old alluvium

Upland Complex

Groundwater table measured in July/August 2002 by P-S geophysical logging

Note:
1) SPT blow counts are uncorrected field blows, and WLA boring SPT data were collected with an automatic trip hammer.
2) Borings with preface "B" are from GGNS UFSAR.

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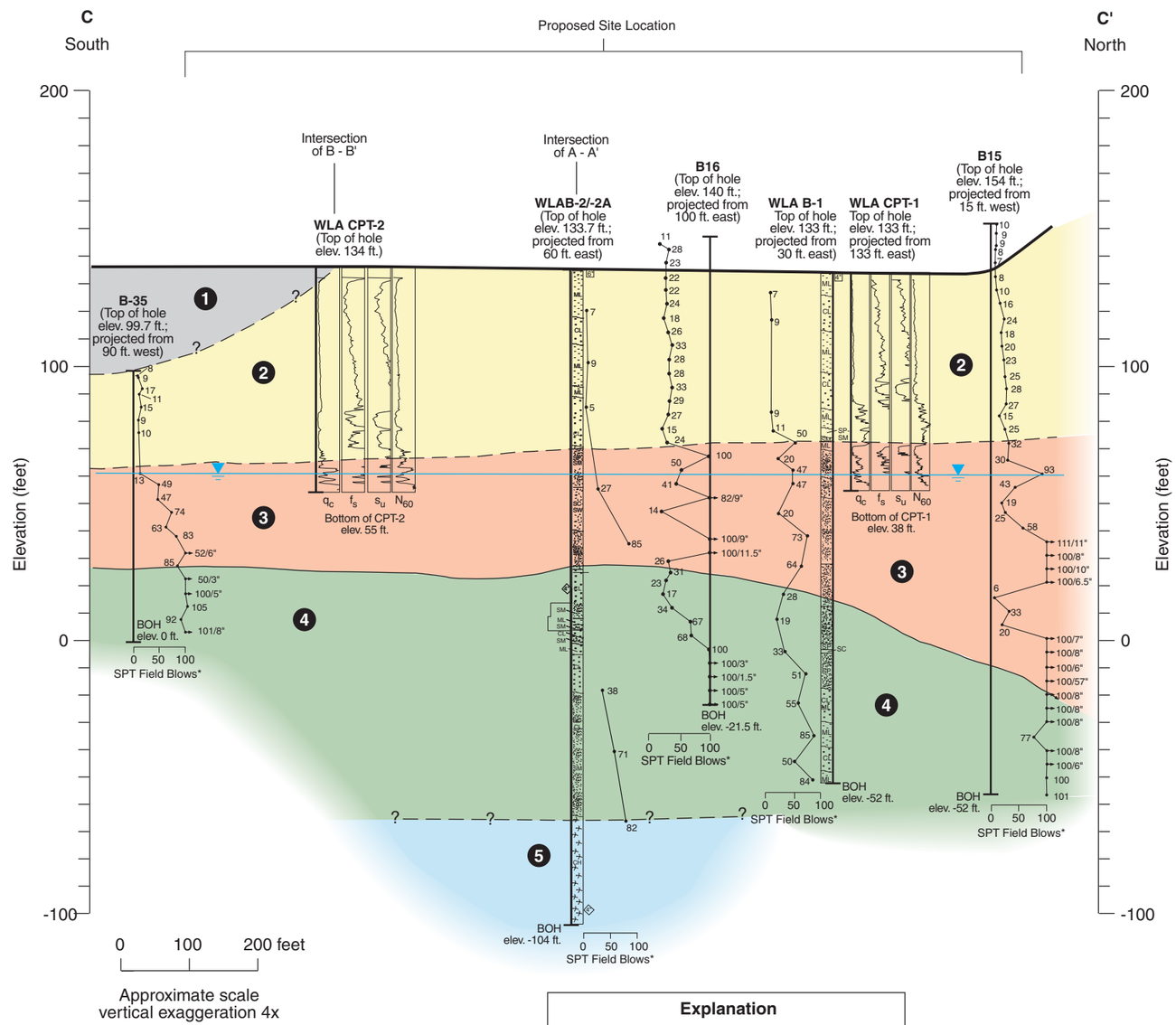
GEOLOGIC SECTION B - B'

FIGURE 2.5-76 REV. 0

1522d Grand Gulf



Explanation

1	Fill
2	Loess
3	Alluvium (Upland Complex)
4	Old alluvium (Upland Complex)
5	Catahoula Formation
▼	Groundwater table measured in July/August 2002 by P-S geophysical logging

Note:
1) SPT blow counts are uncorrected field blows, and WLA boring SPT data were collected with an automatic trip hammer.
2) Borings with preface "B" are from GGNS UFSAR.

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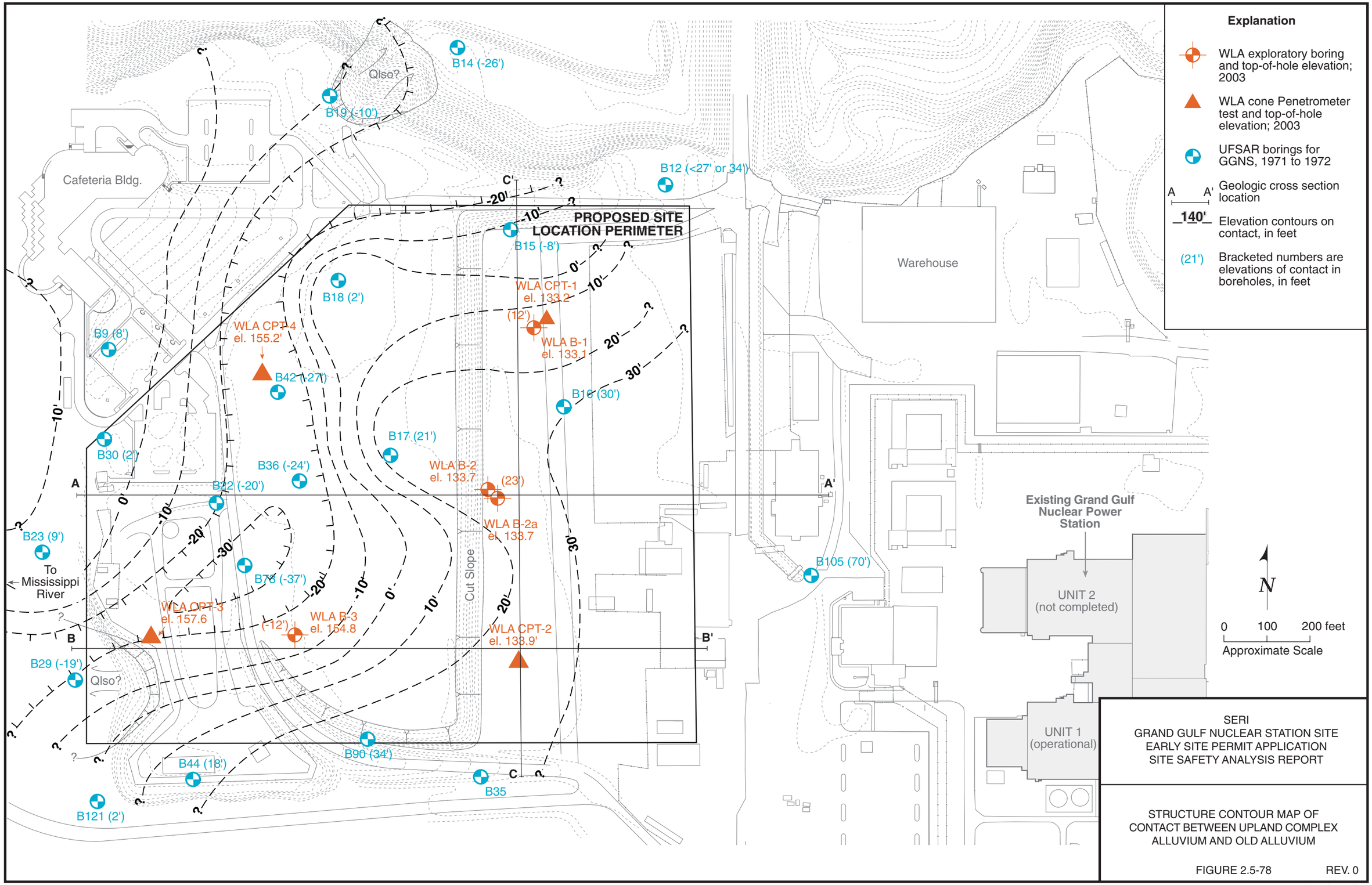
GEOLOGIC SECTION C - C'

FIGURE 2.5-77 REV. 0



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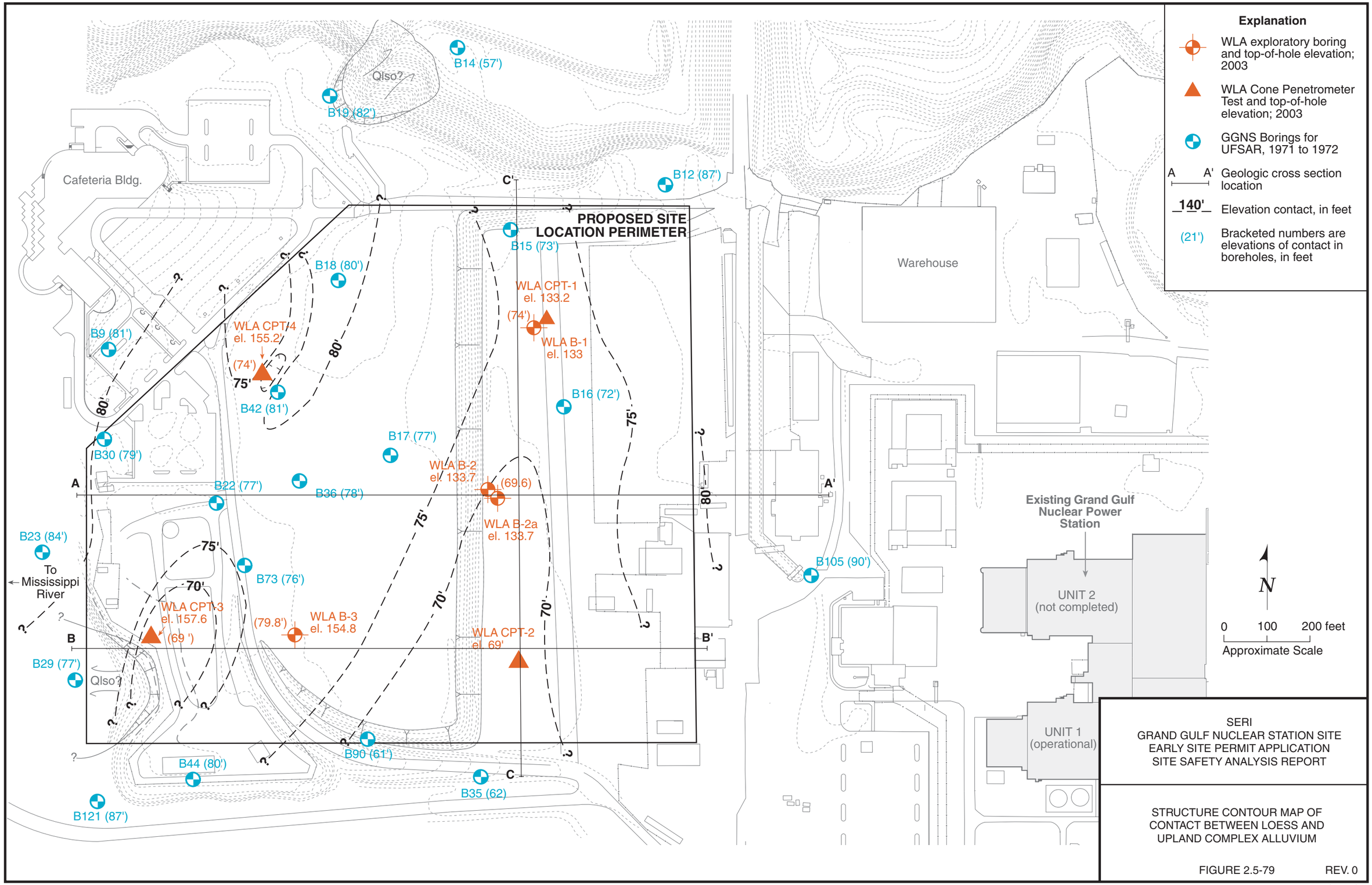
STRUCTURE CONTOUR MAP OF CONTACT BETWEEN UPLAND COMPLEX ALLUVIUM AND OLD ALLUVIUM

FIGURE 2.5-78 REV. 0

1522d Grand Gulf



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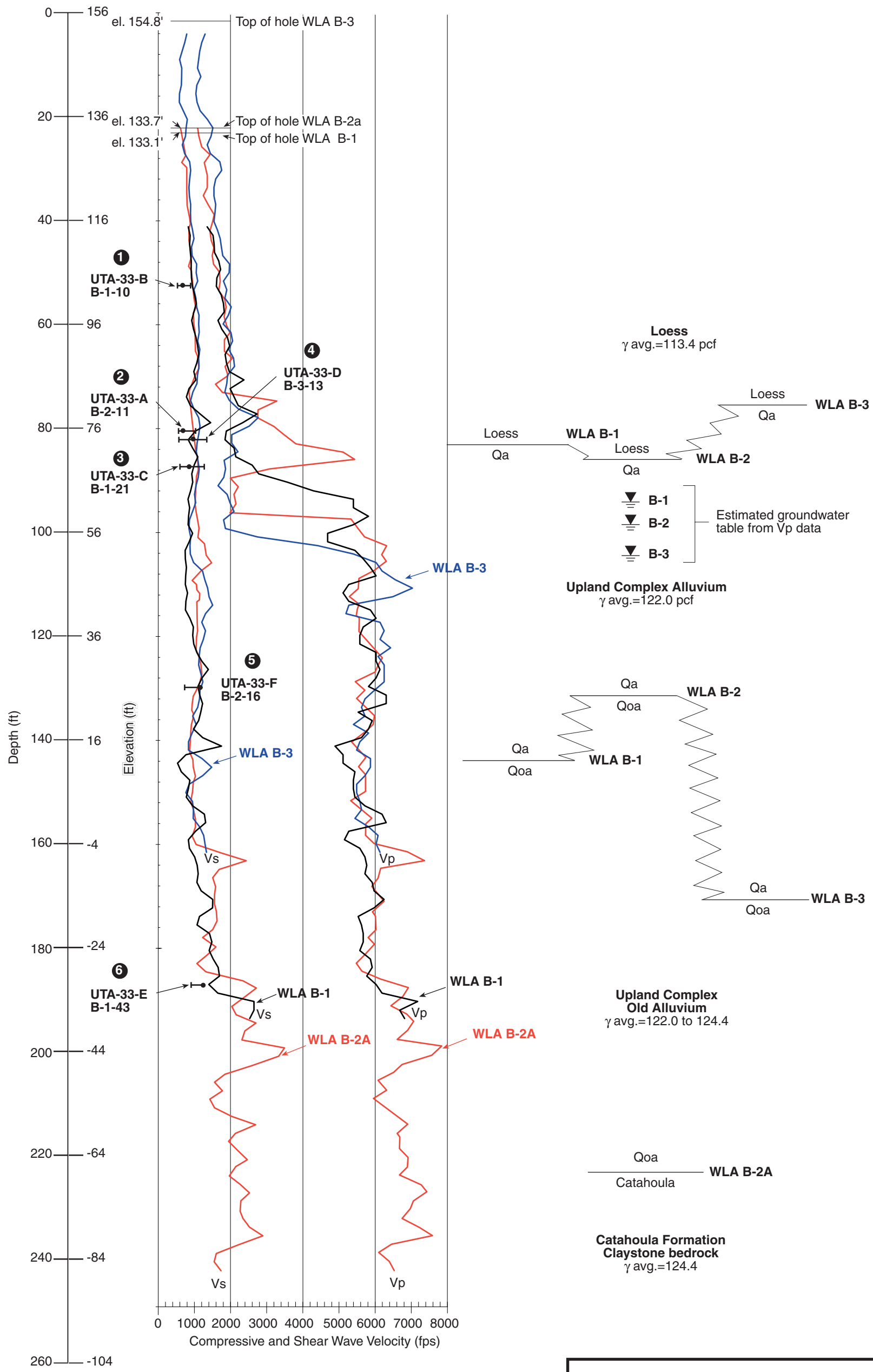
STRUCTURE CONTOUR MAP OF CONTACT BETWEEN LOESS AND UPLAND COMPLEX ALLUVIUM

FIGURE 2.5-79 REV. 0

1522d Grand Gulf



Explanation

❶ Location of UTEXAS dynamic test sample, and sample number UTA-33-B-B-1-10.

⊢● Range of laboratory determined shear wave velocity for UTEXAS test specimens. The range reflects variation in velocity under different confining pressures. Circle points indicate velocity determined at estimated in situ confining stress levels.

γ avg. Estimated average in situ unit weight for geologic layer, in pounds per cubic foot.

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SUMMARY OF P-S VELOCITY PROFILES

FIGURE 2.5-80 REV. 0