APPENDIX E

Preliminary Report
Engineering Geology and Surface Fault Rupture Hazard Evaluation
Energy Fuels Resources Corporation
Piñon Ridge Mill Site, Montrose County, Colorado

PRELIMINARY REPORT
ENGINEERING GEOLOGY AND SURFACE FAULT RUPTURE HAZARD EVALUATION
ENERGY FUELS RESOURCES CORPORATION
PIÑON RIDGE MILL
MONTROSE COUNTY, COLORADO
KLEINFELDER PROJECT NO. 83088

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DCN: 83088.1.4.2-ALB09RP001
(Updated May 27, 2009 to incorporate the revised facility footprint in Figures 2 and 3 and associated text)

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1.0 INTRODUCTION

Energy Fuels Resources Corporation (EFR) proposes to license, construct, and operate a conventional acid leach uranium and vanadium mill at the Piñon Ridge Mill site (the Site) in western Montrose County, Colorado. Site facilities will include an administration building, a 17-acre mill, tailing ponds totaling 90 acres, an 80-acre evaporation pond, a 5-acre ore storage pad, and an access road. The mill will process ore produced from mines within a reasonable truck-hauling distance. The mill will process up to 500 tons of ore per day but is designed to accommodate subsequent expanded production capacity of up to 1,000 tons per day. The expected operating life of the mill is 20 to 40 years.

The project is under the regulation of the Colorado Department of Public Health and Environment (CDPHE) and the mill license (Radioactive Source Material License) will be issued and administered by CDPHE. The geological characterization activities described in this report are required for the baseline characterization as part of the Environmental Report (ER). This report presents the results of the geologic surface mapping and surface fault rupture hazard evaluations conducted by Kleinfelder West, Inc. (Kleinfelder) for EFR.

1.1 Site Location

The Site is located in the Paradox Valley at 16910 Highway 90, approximately 14 miles southwest of Naturita, in Montrose County, Colorado. The legal description of the Site is the Southwest ¼ of the Southeast ¼ of Section 5, all of Section 8, the North ¼ of Section 17, and the Southeast ¼ of the Northwest ¼ of Section 17, Township 46 North, Range 17 West, of the New Mexico Principle Base and Meridian. The Site is located on both the Davis Mesa Quadrangle and Bull Canyon Quadrangle 1:24,000 United States Geological Survey (USGS) topographic/geologic maps. The Site location with respect to major topographic features is shown in Figure 1.

1.2 Purpose and Objectives

The purpose of this investigation was to map the geology on the Site and the adjacent property and evaluate possible fault rupture hazards from subsurface features inferred from seismic refraction and reflection surveys conducted in November 2007.

The objectives of this study were to:

- Conduct surface geologic mapping of the Site;
- Interpret the Site geologic processes and hazards; and
- Evaluate the presence or absence of active surface fault rupture hazards with respect to the 1,000 year safety design factor for the tailings impoundment.

1.3 Background

Land in the region is largely federal and managed by the Bureau of Land Management. Land-use in the area is primarily agricultural, grazing and mining. Native vegetation includes sagebrush-grass and piñon–juniper with sagebrush-grass the dominant form on Site. The Site comprises approximately 880 acres which have historically been used for cattle grazing or other non-crop agricultural purposes. As shown on Figure 2, the Site consists of a near rectangular-shaped property with maximum plan dimensions on the order of 9,150 feet in the north to south direction and 5,250 feet in the east to west direction.

Site elevation ranges between approximately 5,410 and 6,000 feet above mean sea level (amsl). The majority of the Site is relatively flat with less than 200 feet of elevation change across it. Davis Mesa rises to approximately 6,400 feet to the south-southeast of the Site.

1.3.1 Regional Geology

The Site is located in the Paradox Valley which is within the Canyonlands Section of the Colorado Plateau Physiographic Province (Cater, 1954). The Colorado Plateau Physiographic Province consists of a broad area covering parts of Utah, Colorado, New Mexico and Arizona, and is dominated by largely horizontal stratigraphy and deeply incised drainages and is characterized by mesas, plateaus, deep canyons, pediments, barren badlands and mostly arid climatic conditions (Hunt, 1967). The Paradox Valley is underlain regionally by basin sediments referred to as the Paradox Basin. The Paradox Basin is defined by the geographical limits of the Middle Pennsylvanian Paradox Formation which contains thick deposits of carbonate, halite and clastics (Nuccio and Condon, 1996). In the vicinity of the Site the Paradox Formation is overlain by basin sedimentary rocks ranging from middle Pennsylvanian to Cretaceous in age.

Structurally, the Paradox valley is a southeast to northwest trending collapsed anticline structure bounded on the northeast and southwest by normal faults named the Paradox Valley graben (Widmann, 1997). The anticline was formed though the diapiric deformation of salt at depth below the site in the Paradox Formation (Chenoweth, 1987). The anticline formed during the Pennsylvanian through Permian Systems roughly 320 to 250 million years ago, and collapse of the anticline structure is believed to have coincided with the regional uplift of the Colorado Plateau during the middle to late Tertiary, roughly 38 million to 2 million years ago (Chenoweth, 1987). Although the most recent faulting event on the Paradox Valley graben fault system is believed to have occurred during the Quaternary (the past 1.6 million years), the possibility of more recent Holocene (the past 10,000 years) movement has been suggested (Carter, 1954; Widmann, 1997).

The oldest rocks in the region are the Pennsylvanian Hermosa formation and the Permian Cutler formation (Cater, 1955). These oldest rocks are found in the middle of the valley, while younger rocks of the Triassic and Jurassic Systems bound the slopes on the southwest and northeast sides of the valley. The Triassic rocks include the Moenkopi formation and the Chinle formation. The Jurassic rocks include the Wingate Sandstone, the Kayenta formation, the Navajo Sandstone, and the Morrison formation (Cater, 1954). Uranium-vanadium deposits occur in numerous locations in the Salt Wash member of the Jurassic Morrison formation. Holocene deposits of eolian (wind-blown) material and sheet wash are widely distributed on the valley floors, along the benches, and on top of the mesas (Cater, 1954).

2.0 METHODS OF STUDY

2.1 Scope of Work

Kleinfelder's scope of work included:

- An initial office program including a review of the geologic literature, previous reports and maps, and an examination of aerial photography;
- Geologic mapping of the Site and portions of the adjacent property;
- Excavation and logging of three trenches along seismic line S2;
- Collection and analysis of organic material from the trenches for radiometric dating;
- Collection of bulk soil samples from the trenches and submission for macro-floral analysis and analysis of the macro-floral material for radiometric dating; and
- Preparation of this report.

2.1.1 Geologic Mapping

The initial stage of the geologic mapping program included a review of literature, previous reports, maps, and aerial photography. Geologic mapping was conducted from August 21 to August 24, 2007 on a topographic base map at a scale of 1-inch = 200-feet and a contour interval of 20 feet. Geological mapping was conducted according to practices generally accepted by industry and governed by practices outlined in Compton (1962) and Keaton (1984). Sedimentary rocks were classified according to Folk (1959). Soils were classified according to the Unified Soil Classification System. A detailed Site map showing Site boundaries and surficial geology is presented in Figure 2.

2.1.2 Exploration Trenching

Exploration trenching was conducted from December 17 to December 21, 2007. The trenches were excavated using a track mounted excavator and penetrated depths of 4 to 8 feet. Mr. Phillip Egidi, of the CDPHE visited the site on December 20, 2007 and observed exposures in the three trenches. The seismic survey lines and the exploration trenches excavated in conjunction with this study are presented in Figure 3. The exposures encountered in the trenches were logged at a scale of 1 inch = 5 feet from level-line elevations projected from trench walls. Trench logs are presented in Figures 4 through 27.

3.0 RESULTS

3.1 Site Geology

Site geology consists of bedrock units of Pennsylvanian and Permian age overlain by unconsolidated Quaternary deposits. Outcrops of Triassic and Jurassic age are observed on slopes on the very southwest side of the site, and are shown as siltstone (ST-Triassic Chinle Formation), sandstone (SS-Jurassic Wingate Sandstone), and sandstone and siltstone bedrock (SS/ST-Jurassic Kayenta Formation) in Figure 2.

Surface deposits and those exposed by the trenching include primarily eolian sand deposits comprised of mainly clay to sand size particles shown as E(cs)c-s in Figure 2. Areas on the site locally incised by gully erosion as much as 10 feet below the surface are shown as A(s)c-s, A(s)c-g, A(s) m-g and A(s)m-b. Areas of limited alluvial floodplain deposition adjacent to gully areas are shown as A(fp)s-c and A(fp)m-g. Alluvial fans deposited on the margins of the sloping areas southwest of the Site are shown as A(f)m-b. Colluvial soils covering bedrock controlled slopes are shown as C(sw)m-b. Residual soils formed on weathered limestone bedrock on the northeast side of the site are shown as R(w)m-b/LS (LS-Paradox Member of the Hermosa Formation). Areas of man-made fill or disruption are shown as F(u)c-s, F(u)m-g and F(u)m-k.

Faults associated with the Paradox Valley graben are shown in the southwest corner of the Site in Figure 2.

3.2 Karst Features

A sinkhole was identified just beyond the northeast Site boundary and a soil discontinuity indicative of a potential slump feature or inactive sinkhole was identified in Trench 2 near the southern edge of Tailing Cell C. These features are shown in Figure 2. The sinkhole northeast of the Site is open to the surface. No sinkhole features were identified within the Site boundaries.

The soil discontinuity had no surface expression and was overlain by the uppermost soil unit indicating no recent activity. The soil feature formed an inverted cone in the wall of Trench 2. Its lower termination was not visible in the eight-foot deep trench but it may have terminated within several feet of the bottom of the trench based on how it narrowed with depth.

3.3 Exploration Trenching and Site Soil Stratigraphy

Seismic refraction and reflection surveys were conducted by Geological Associates in November 2007 along three lines (S1, S2, and S3), on the east (S3), west (S1), and central (S3) portions of the Site as shown in Figure 3. Interpretation of the seismic surveys indicates possible fault offset of Paleozoic and Mesozoic units below the soil units. The thickness of the soil is inferred to range between 30 and 80 feet with the greatest thickness interpreted along the southern portion of line S3. The inferred faults are shown in Figure 3.

The trenches were excavated to evaluate the presence or absence of recent fault movement in the vicinity of the proposed mill tailings impoundment areas. Trench 1 and Trench 3 were excavated on the west and east sides, respectively, of the mill footprint and extended beyond the north to south dimension of the mill footprint. Trench 2 was excavated within the tailings impoundment area. The trenches were logged continuously in the field at a scale of 1 inch to 5 feet. Most of the trench was excavated to a depth of 4 feet. Where warranted by geologic conditions, the trench was excavated to a depth of 8 feet. Trench locations are shown in Figure 3.

The generalized soil stratigraphy for the three trenches is schematically presented in Figure 4 and a description of each soil unit observed in the trenches, from oldest to youngest, is presented below:

Soil Unit 1: Silt to clay, reddish-brown to light reddish-brown, very stiff, massive, upper surface cemented to stage II soil calcium carbonate accumulation (Machette, 1985). Particles fine upward in this unit. Surface of Soil Unit 1 is unconformably overlain by Soil Unit 2. Observed in Trenches 1 and 2 only at a maximum thickness of 5 feet. The bottom of this unit was not observed. Projected soil age, mid-Pleistocene. Soil Unit 1 was observed in each trench to be free of fault offset.

Soil Unit 2: Silty clay to silty fine sand, light reddish-brown, with traces of sub-rounded gravel; dry, stiff to dense, massive, upper surface cemented to stage II+ soil calcium carbonate accumulation (Machette, 1985). Particles fine upward in this unit. Surface of Soil Unit 2 is unconformably overlain by Soil Unit 3 and 4. Observed in each trench at a maximum thickness of 7.5 feet. Projected soil age, mid- to late-Pleistocene. Soil Unit 2 was observed in each trench to be free of fault offset.

Soil Unit 3: Silty fine sand, brown, with traces of angular gravel and broken carbonate soil aggregates; dry, medium-dense, massive colluvial collapse deposit. Surface of Soil Unit 3 is unconformably overlain by Soil Unit 4. Observed in Trench 2 only at a maximum thickness of 5 feet. In the north end of Trench 2, Soil Unit 3, displayed what appears to be a slump or subsidence feature. This is depicted in Figure 18.

Soil Unit 4: Clayey silty sand to fine sand, reddish-brown, with traces of sub-rounded gravel; moist, medium-stiff, massive eolian cover sand deposit. Surface of Soil Unit 4 is transposed by thin Soil A-Horizon and plant root systems. Observed in each trench at a maximum thickness of 5 feet. Based on Archaic age artifacts were found on the surface of the site, Soil Unit 4 is projected to be at least 2,000 years old and possibly as much as much as 11,000 years in age (Laramore, 2007).

Soil Unit 5: Clayey to fine sand, reddish-brown to dark brown; moist, soft, clay and sand is interbedded sheet flow deposit. Soil Unit 5 overlies the Soil A-Horizon on Soil Unit 4. Observed in trench 1 only at a maximum thickness of 1.5 feet. Because Soil Unit 5 overlies the Soil A-Horizon of Soil Unit 4, this unit is projected to be contemporary in age.

Stratigraphy in the trenches was based primarily on the identification of carbonate soil horizons observed in the trenches in Soil Units 1 and 2. The primary carbonate marker horizon for the three trenches was Soil Unit 2 which consisted of a stage II to II+ carbonate accumulation in a matrix of clay, truncated on its upper surface, becoming less cemented and texturally coarsening downward. Soil Unit 2 was observed to be overlain by Soil Unit 4 that was typically 1 to 1.5 feet in thickness consisting of silts and clays. Logs of the trenches are presented in Figures 5 through 27.

Soil samples were collected from the following trench locations:

Trench	Station	Soil Unit	Type	Type
Trench 1	326 North	Unit 2	Charcoal	Charcoal
Trench 1	326 North	Unit 2	Root Tissue	Root Tissue
Trench 1	295 North	Unit 2	Bulk Soil	Bulk Soil
Trench 1	305 North	Unit 5	Bulk Soil	Bulk Soil
Trench 1	1240 North	Unit 1	Bulk Soil	Bulk Soil
Trench 1	1240 North	Unit 4	Bulk Soil	Bulk Soil
Trench 2	540 North	Unit 4	Bulk Soil	Bulk Soil
Trench 2	540 North	Unit 2	Bulk Soil	Bulk Soil
Trench 2	560 North	Unit 3	Bulk Soil	Bulk Soil
Trench 3	170 North	Unit 2	Bulk Soil	Bulk Soil
Trench 3	990 North	Unit 2	Bulk Soil	Bulk Soil
Trench 3	990North	Unit 2	Bulk Soil	Bulk Soil
Trench 3	990 North	Unit 1	Bulk Soil	Bulk Soil

The charcoal and root tissue samples obtained from Soil Unit 2 in Trench 1 at station 326 North and 327 North (Figure 7) were submitted to Paleo Research Institute Laboratory (PRI) for radiometric age dating using accelerated mass spectrometry (AMS). Bulk soil samples from Soil Units 2, 3 and 4 in Trench 2 were also submitted to PRI for macro-floral remains search and radiometric dating of the remains by AMS.

3.4 Erosion

Several areas of active gully erosion were observed and are presented in Figure 2 as alluvial stream deposits, including A(s)c-s, A(s)c-g, A(s)m-g and A(s)m-b. The gullies were in many cases more than 10 feet in depth and showed indications of active erosion processes including active sediment deposition in stream beds and bank failures due to erosion and undercutting.

4.0 CONCLUSIONS

4.1 Seismicity and Faulting

As shown in Figure 2, the Site is located near fault traces of the Paradox Valley graben (USGS database No. 2286). The U.S. Geological Survey (2008) Quaternary fault and fold database reports the Paradox Valley graben as having movement as recent as Quaternary, however no evidence of Holocene age movement has been documented for these faults. Because these faults formed in response to the diapiric deformation of salt at depth rather than tectonic deformation, these faults are classified as "Class B" by the USGS. Other than the inferred faults interpreted by the seismic survey, no faulting has been mapped crossing the proposed locations of the mill, ore pad, tailings impoundment, evaporation pond or office.

4.2 Liquefaction Hazards

In conjunction with the ground shaking potential of large magnitude seismic events as discussed in Section 4.1, certain areas may possess a potential for liquefaction during a high magnitude event. Liquefaction is a phenomenon whereby loose, saturated, granular soil deposits lose a significant portion of their shear strength due to excess pore water pressure buildup resulting from dynamic loading, such as that caused by an earthquake. Among other effects, liquefaction can result in densification of such deposits causing settlements of overlying layers after an earthquake as excess pore water pressures are dissipated. Horizontally continuous liquefied layers may also have the potential to spread laterally where sufficient slope or free-face conditions exist. The primary factors affecting liquefaction potential of a soil deposit are: (1) level and duration of seismic ground motions; (2) soil type and consistency; and (3) depth to groundwater.

Based on our surface and subsurface observations of the existing very deep groundwater conditions, we do not anticipate the liquefaction of Site soils during an earthquake event.

4.3 Landsliding and Slope Stability

Natural slope gradients across the majority of the Site are gentle and are not expected to fail. Steeper slopes on the southwest corner of the Site appear to be bedrock controlled and are not expected to fail. According to Strauss (1982), the large landslide block to the east appears to be related to translatory block movement on weaker units at depth (i.e., Pennsylvanian Paradox Fm.).

4.4 Flooding and Debris Flows

Clear-water flood hazards may result from the small drainages on the southwest corner of the Site, where the alluvial fan deposits, A(f)m-b are present, as shown in Figure 2. However because these are small head water streams, it is unlikely the long sustained periods of flooding will occur in these streams.

Alluvial fan deposits (A(f)m-b) on the very southwest corner of the Site indicate past debris flow deposition as the stream drain from Davis Mesa. They are localized and are characterized by relatively small areally extensive headwaters. Engineering controls are readily available to mitigate any potential damage caused by debris flows and flooding associated with the alluvial fan deposits.

4.5 Gully Erosion

Several active gullies were observed on Site. If uncontrolled, future head-cutting of the gullies could impact the proposed facilities.

4.6 Karst Subsidence or Slump Feature

The lower termination of the slump feature identified in Trench 2 was not visible in the eight-foot deep trench, but it may have terminated within several feet of the bottom of the trench based on how it narrowed with depth. Because Soil Unit 2 resumes laterally both north and south of this slump feature with no indication of vertical offset or high-angle structures typical for faulted soils, this zone is interpreted to be subsidence, possibly resulting from past dissolution of underlying Paleozoic salt deposits followed by the overlying soil slumping into the solution cavity.

5.0 RECOMMENDATIONS

Because a soil discontinuity, possibly indicative of sinkhole infilling (undetectable at the surface), was observed in Trench 2, geophysical surveys and additional trenching to evaluate the presence or absence of potentially karst-sinkhole processes beneath the proposed facilities should be conducted prior to final site selection.

6.0 LIMITATIONS

The recommendations contained in this report are based on our site observations, available data, probabilities and our understanding of the proposed facilities. This report was prepared in accordance with the generally accepted standard of practice at the time the report was written. No warranty, express or implied, is made.

We also recommend that project plans and specifications be reviewed by Kleinfelder to verify compatibility with our conclusions and recommendations. Additional information concerning the scope and cost of these services can be obtained from our office.

This report may be used only by the client and only for the purposes stated within a reasonable time from its issuance. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else, unless specifically agreed to in advance by Kleinfelder in writing, will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

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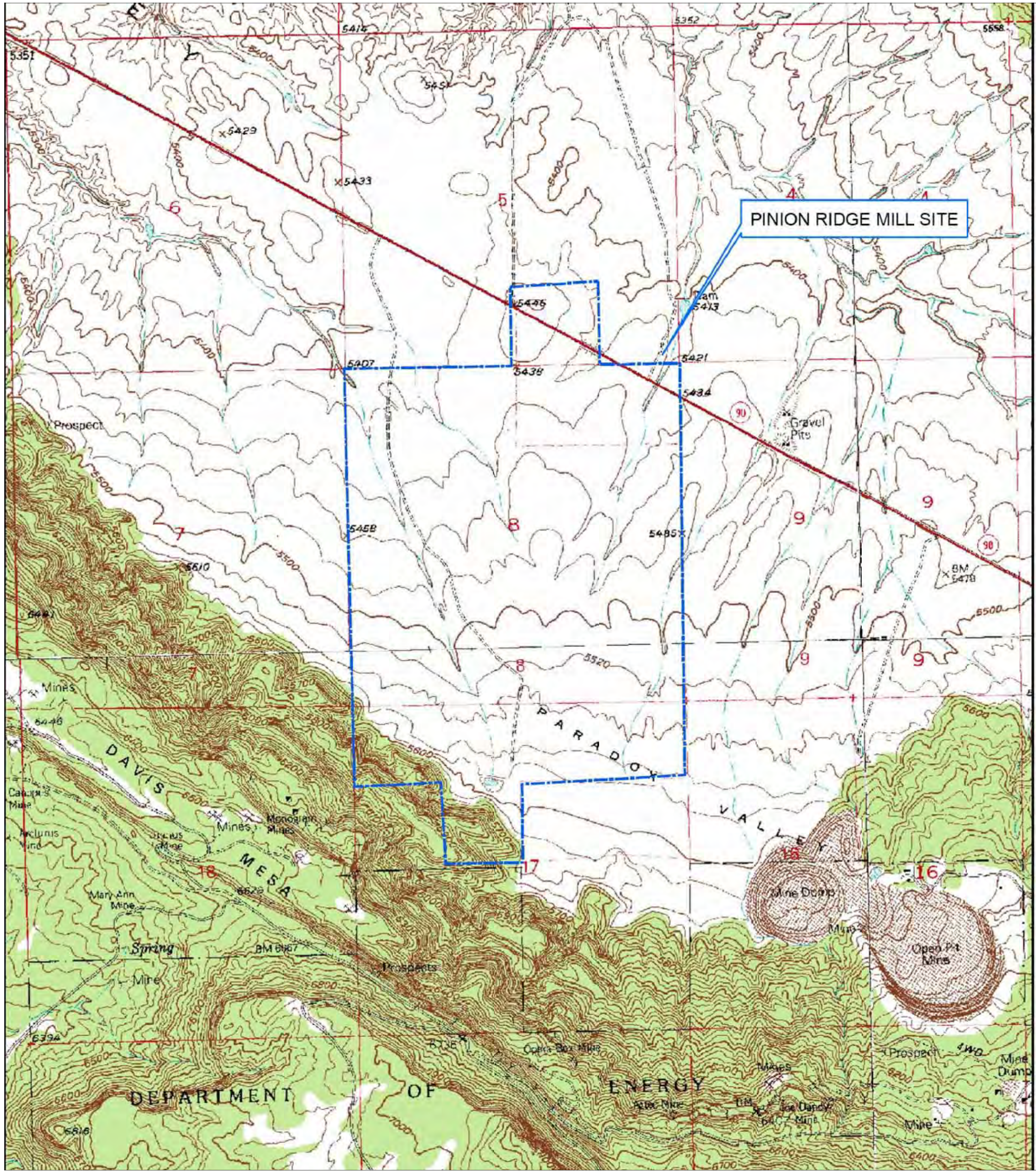
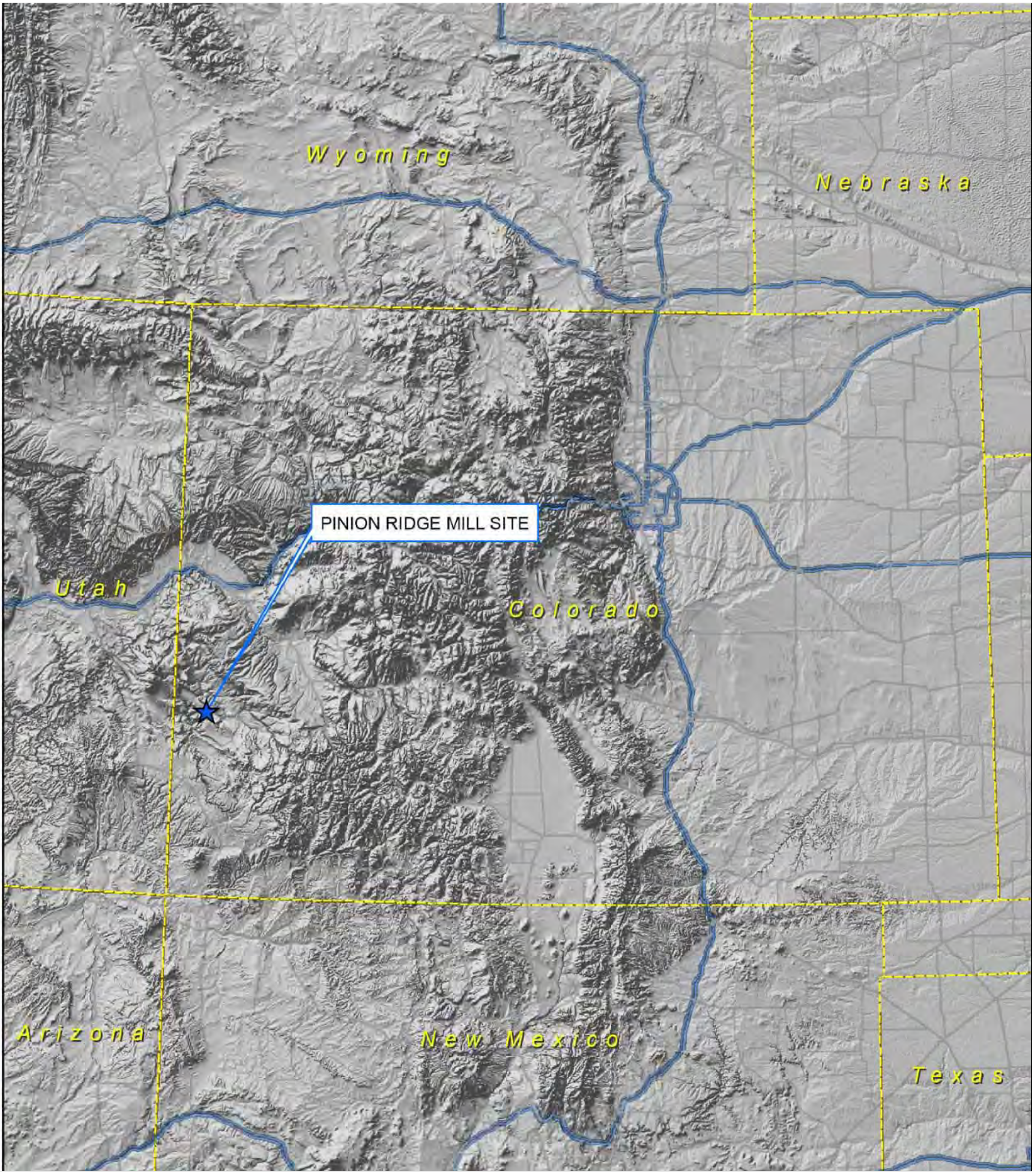
FIGURES





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SITE VICINITY AND REGIONAL MAP

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PROJ. NO.	83088
ACAD FILE:	83088_TrechLog.dwg
APPROVED BY:	AK
DRAWN BY:	PD
CHECKED BY:	RM
DATE:	FEB 2009
SCALE:	NOT TO SCALE
FIGURE	1

Explanation

Engineering Geology Classification

F(u)c-s	Fill deposits, clay to sand size particles
F(u)m-g	Fill deposits, silt to gravel size particles
F(u)m-k	Fill deposits, silt to cobble size particles
F(u)m-b	Fill deposits, silt to boulder size particles
S(ro)c-b	Rotational landslide deposit, clay to boulder size particles
A(fp)c-s	Alluvial floodplain deposits, clay to sand size particles
A(fp)m-g	Alluvial floodplain deposits, silt to gravel size particles
A(s)c-s	Alluvial stream deposits, clay to sand size particles
A(s)c-g	Alluvial stream deposits, clay to gravel size particles
A(s)m-g	Alluvial stream deposits, silt to gravel size particles
A(s)m-b	Alluvial stream deposits, silt to boulder size particles
A(f)m-b	Alluvial fan deposits, silt to boulder size particles
E(cs)c-s-GY	Eolian cover sand deposits, clay to sand size particles gravel size particles (Paradox Member of Hermosa Formation)
R(w)c-g-LS	Residual weathering profile soil over gypsum bedrock, clay to boulder size particles (Paradox Member of Hermosa Formation)
R(w)m-b-SH	Residual weathering profile soil over limestone bedrock, silt to Shale bedrock (Jurassic Morrison Formation)
SS	Sandstone bedrock (Jurassic Wingate Sandstone)
SS/CG	Sandstone and conglomerate bedrock (Cretaceous Burro Canyon Formation, predominantly sandstone)
SS/ST	Sandstone and siltstone bedrock (Jurassic Kayenta Formation, predominantly sandstone)
ST	Siltstone Bedrock (Triassic Chinle Formation)
ST/SS	Siltstone and sandstone bedrock (Entrada Sandstone and Carmel Formation Undivided, predominantly siltstone)
LS/GY	Limestone and gypsum bedrock (Paradox Member of Hermosa Formation)
Faults	Bar on downthrown side, dashed where approximate, dotted where inferred
△	Sinkhole
□	Stratigraphic Discontinuity
	Unit Contact
	Area underlain by Hermosa Formation at the surface or covered by a thin veneer of eolian deposits

SOURCES:

1) Engineering Geology map created by G. Schlenker, Kleinfelder, dated April 2009.
2) Base image, 2005 1-Meter NRSCS Color
3) NAIP Image titlled "co085_2005_12.jpg"

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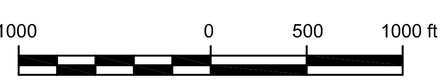

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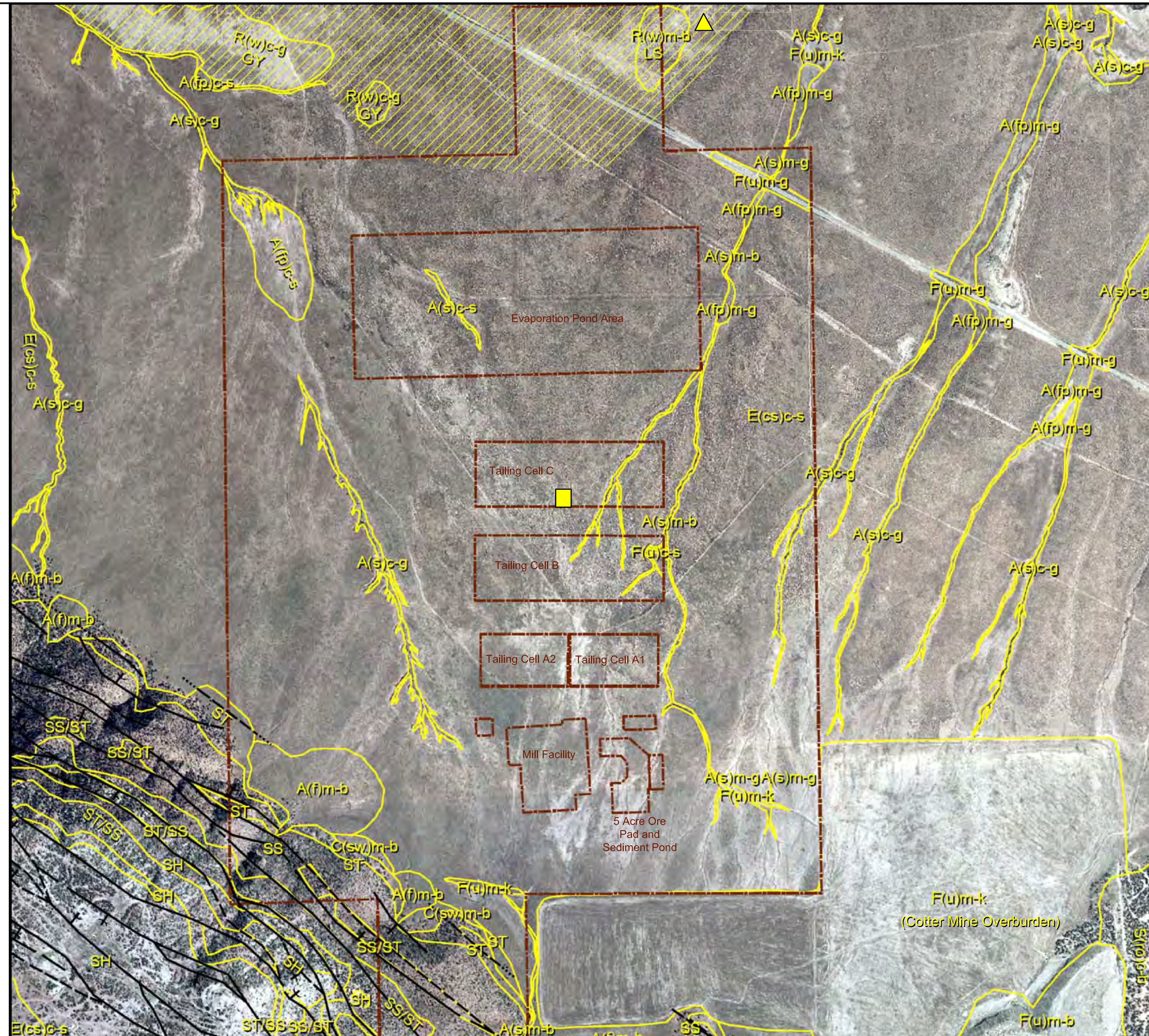

SITE GEOLOGY MAP

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PROJ. NO.	83088
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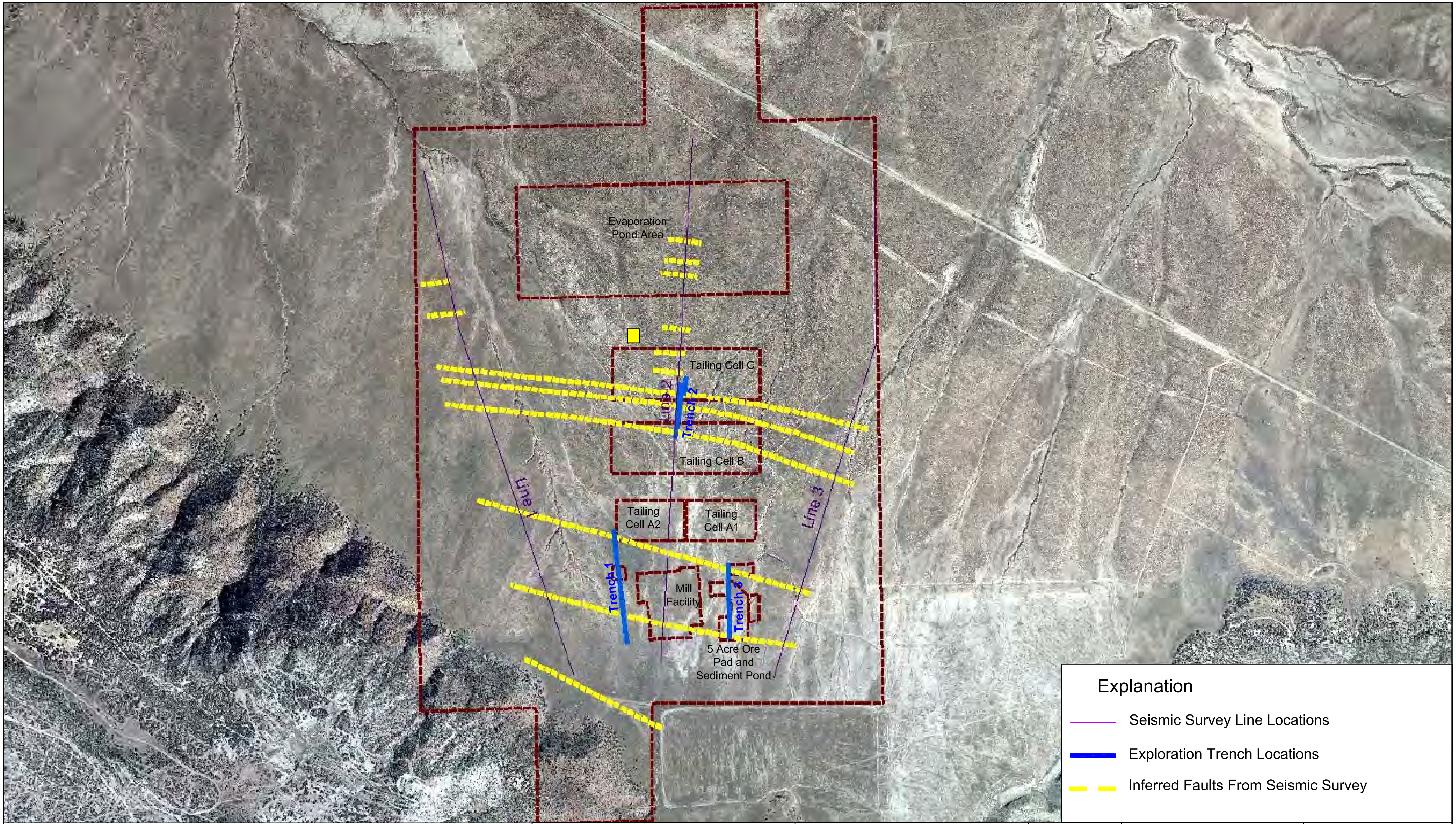
SCALE:	AS SHOWN
FIGURE	2



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SCALE: 1 inch = 1000 feet

SEISMIC SURVEY LINE AND EXPLORATION TRENCH LOCATION

PIÑON RIDGE PROJECT
MONTROSE COUNTY, COLORADO

Energy Fuels Resources

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FIGURE	3

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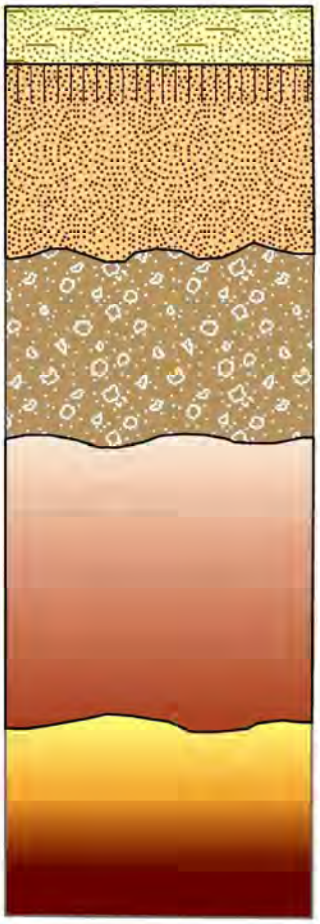
83088	83088_TrechLog.dwg

Soil Stratigraphic Units Trench1, Trench 2, and Trench 3



Maximum Observed Thickness (ft)	Description
1.5	Soil Unit 5: Clay to fine sand, reddish-brown to dark brown,; moist, soft, clay and sand is interbedded sheet flow deposit. Soil Unit 5 overlies the Soil A-Horizon on Soil Unit 4.
5.0	Soil Unit 4: Clayey silty sand to fine sand, reddish-brown, with traces of sub-rounded gravel; moist, medium-stiff, massive eolian cover sand deposit. Surface of Soil Unit 4 is transposed by thin Soil A-Horizon and plant root systems.
5.0	Soil Unit 3: Silty fine sand, brown, with traces of angular gravel and broken carbonate soil aggregates; dry, medium-dense, massive colluvial collapse deposit. Surface of Soil Unit 3 is unconformably overlain by Soil Unit 4.
7.5	Soil Unit 2: Silty clay to silty fine sand, light reddish-brown, with traces of sub-rounded gravel; dry, stiff to dense, massive, upper surface cemented to stage II+ soil calcium carbonate accumulation. Particles fine upward in this unit. Surface of Soil Unit 2 is unconformably overlain by Soil Unit 3 and 4.
5.0	Soil Unit 1: Silt to clay, reddish-brown to light reddish-brown, very stiff, massive, upper surface cemented to stage II soil calcium carbonate accumulation. Particles fine upward in this unit. Surface of Soil Unit 1 is unconformably overlain by Soil Unit 2.

SOIL STRATIGRAPHIC UNITS

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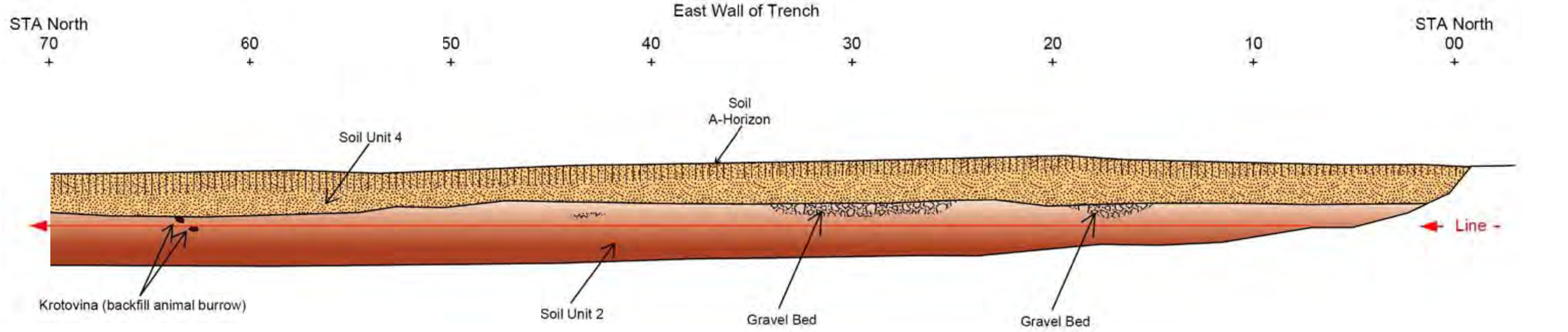
FIGURE	4



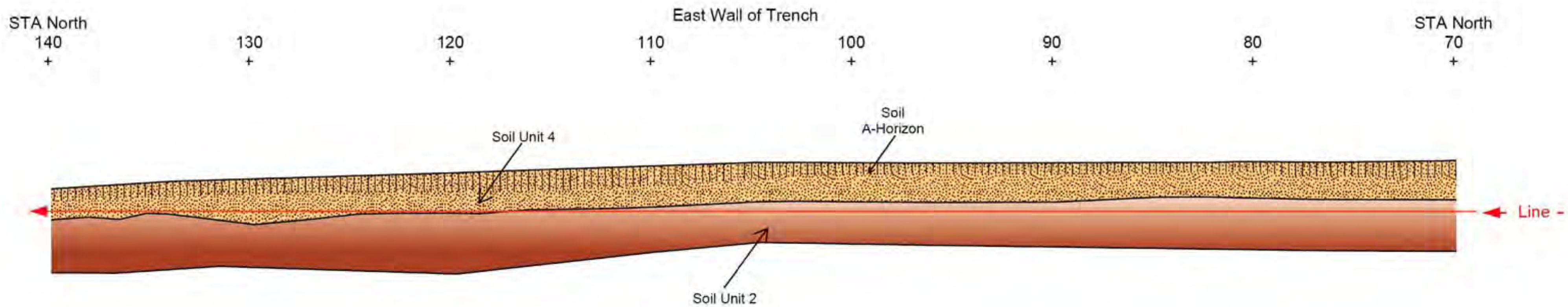


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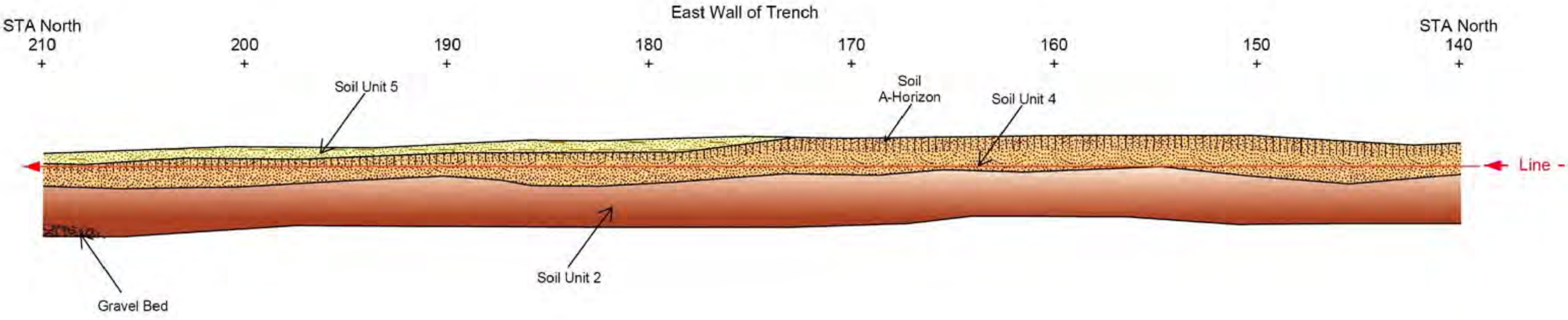
FIGURE	5



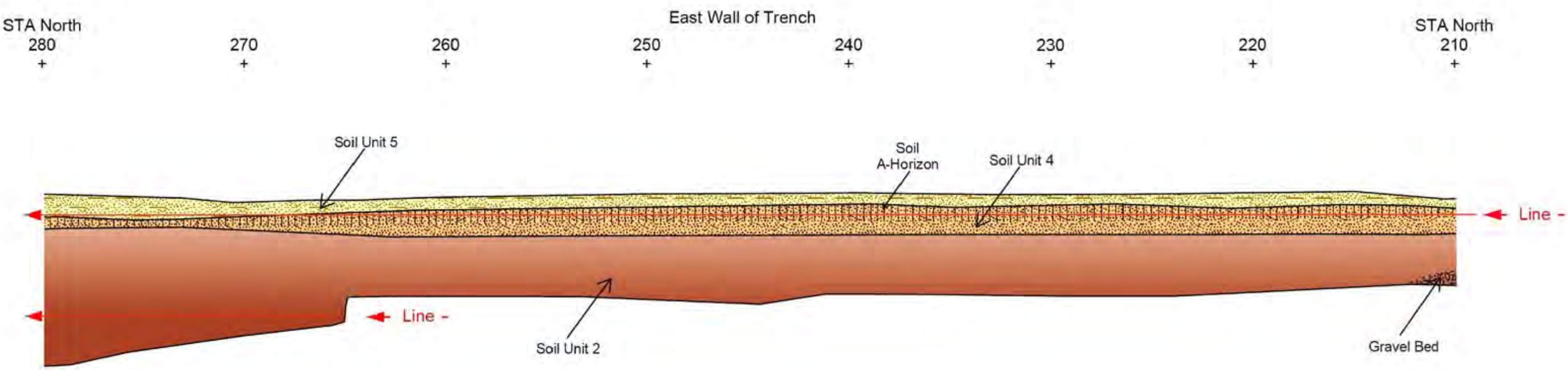


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FIGURE	6

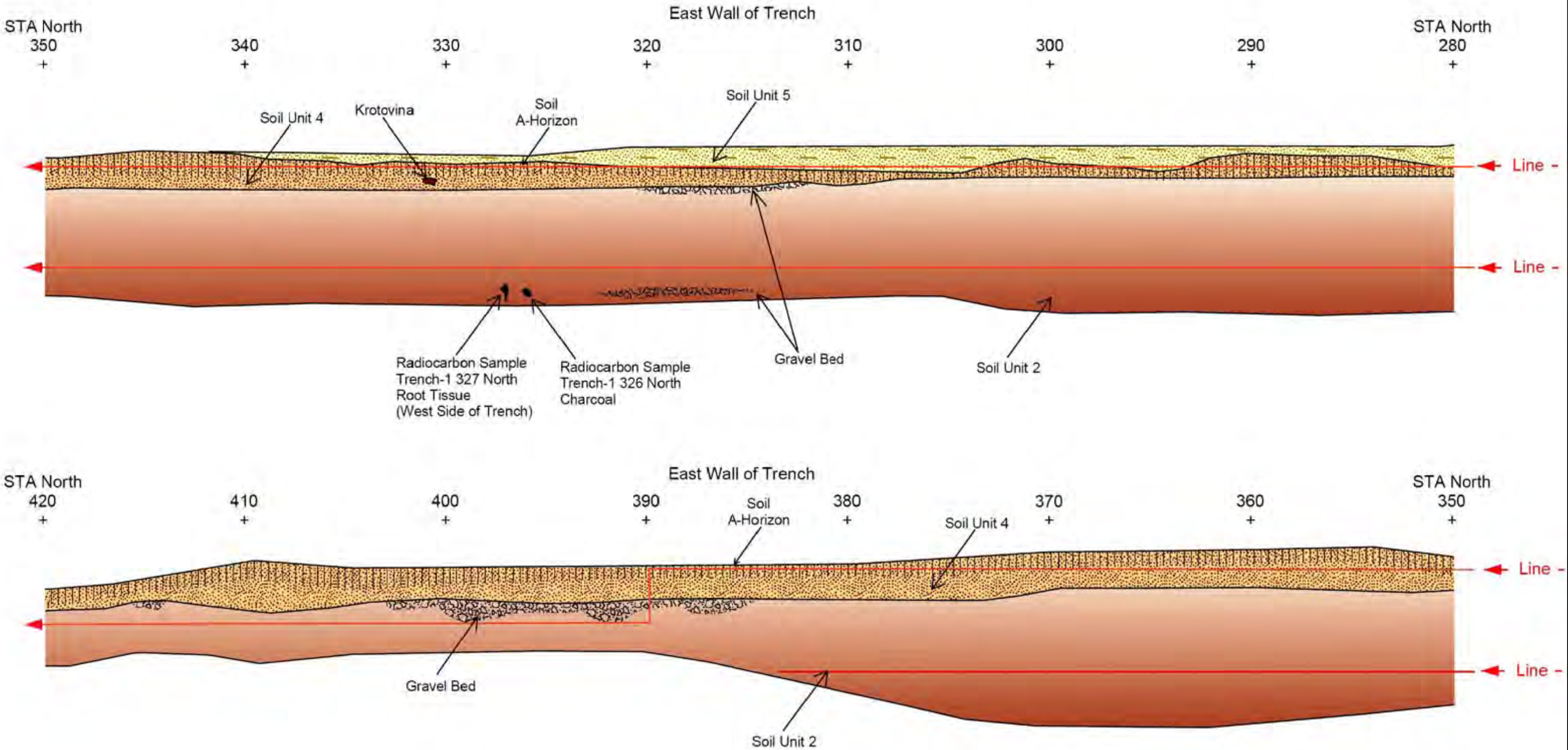

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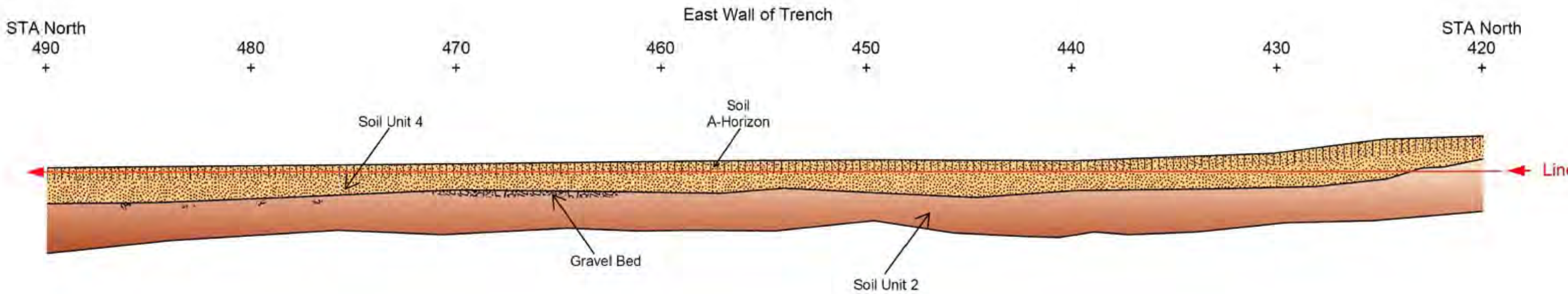
FIGURE	7



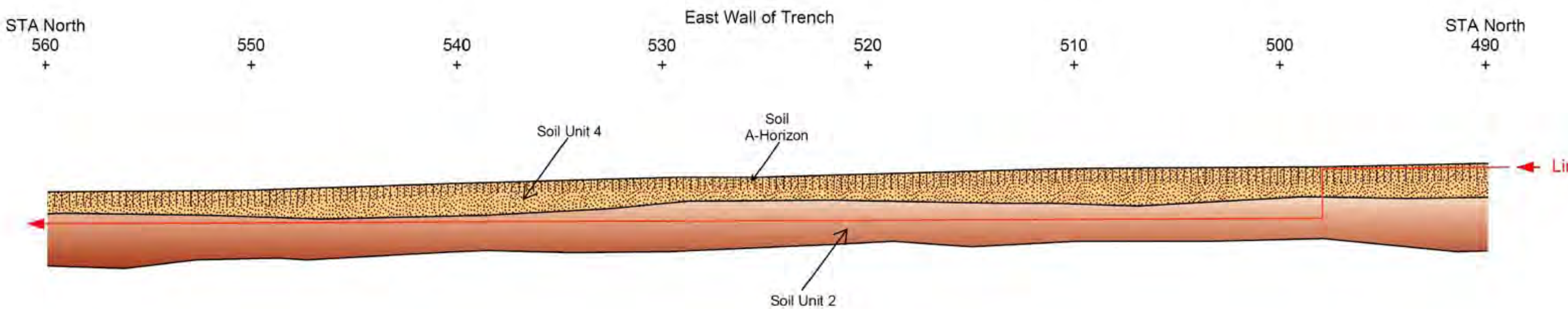


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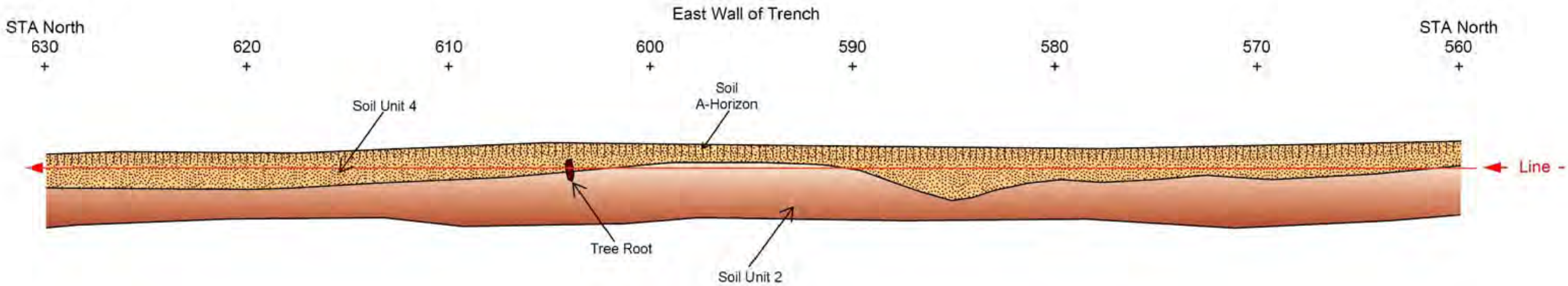
FIGURE	8



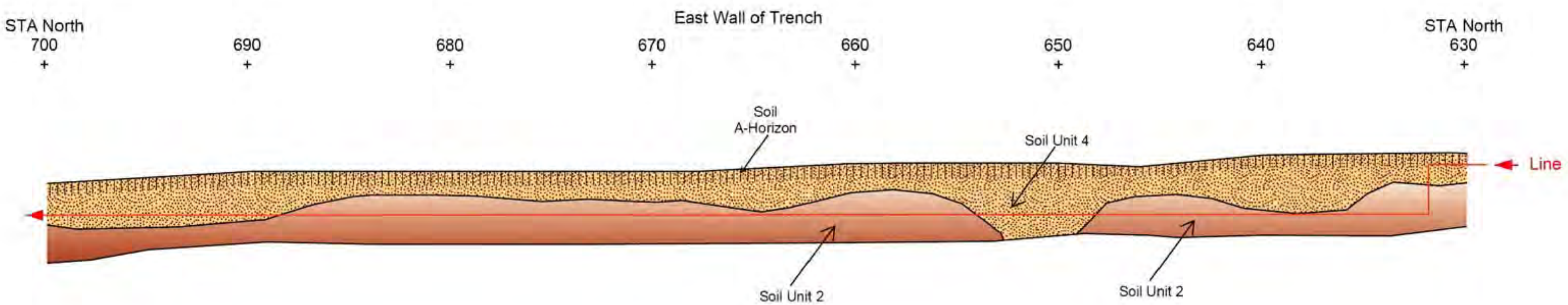


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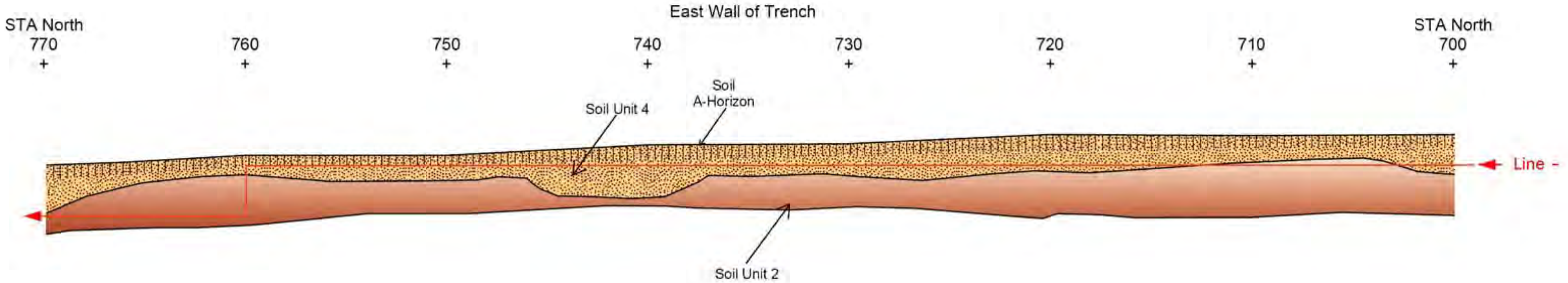
FIGURE	9



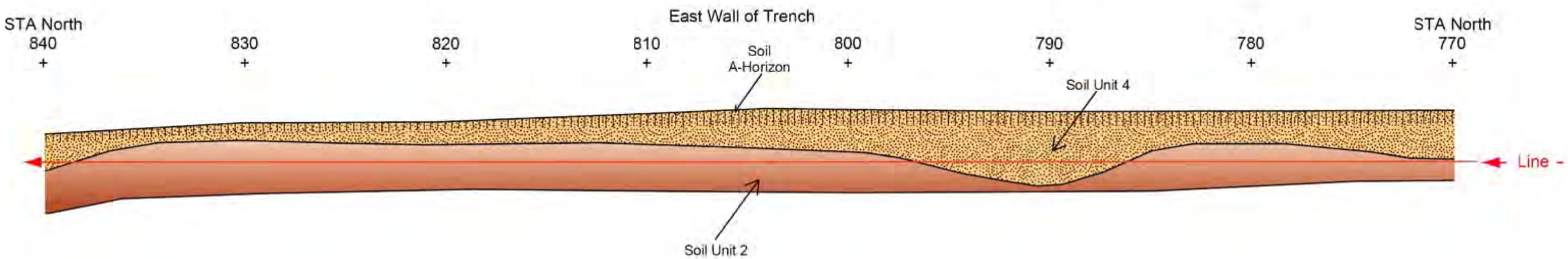


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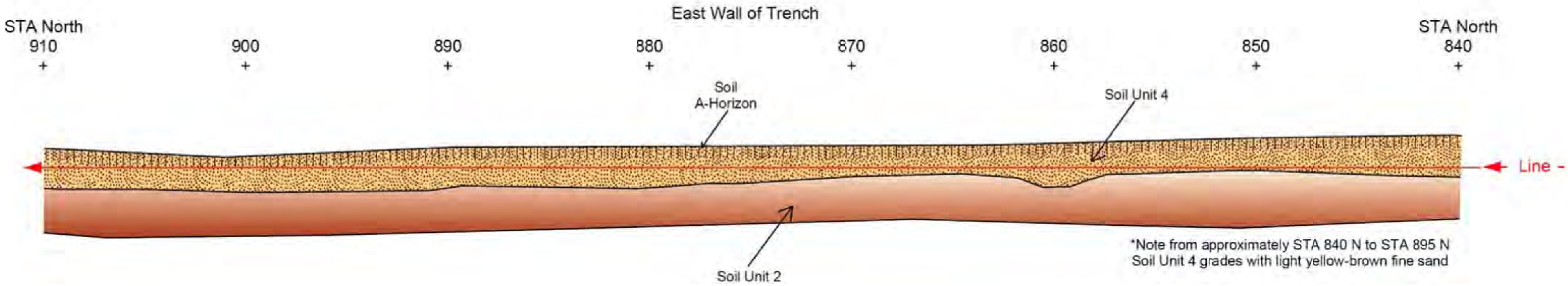
FIGURE	10



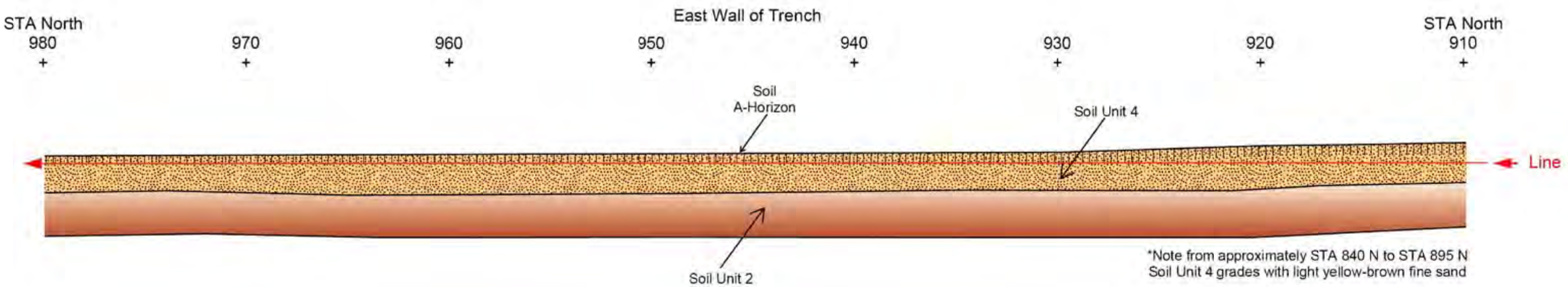


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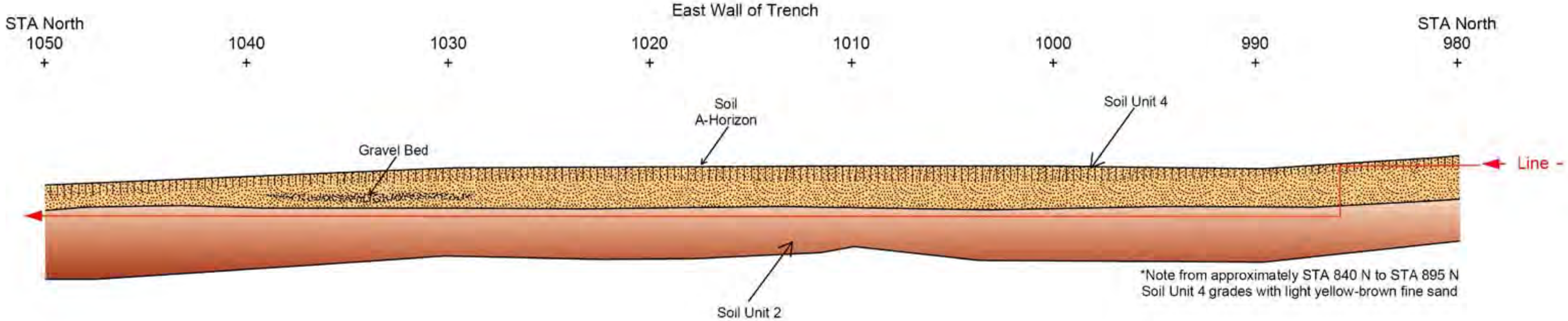
FIGURE	11



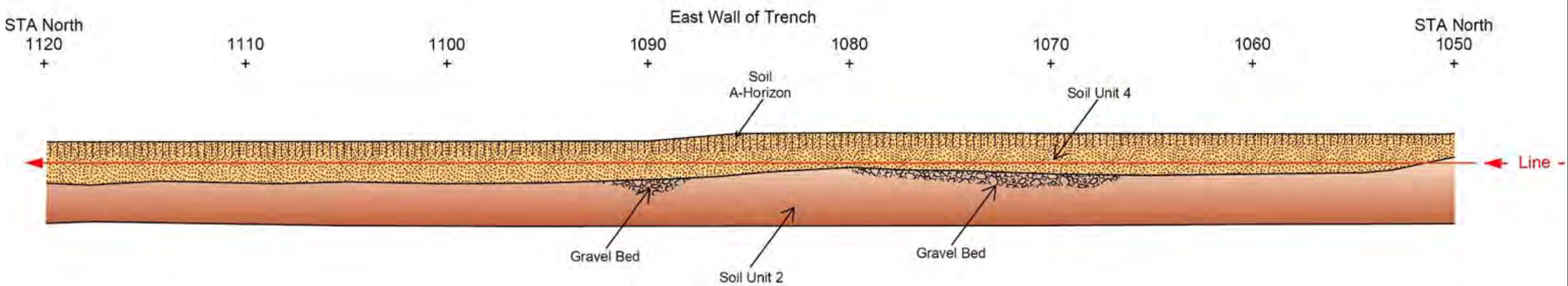


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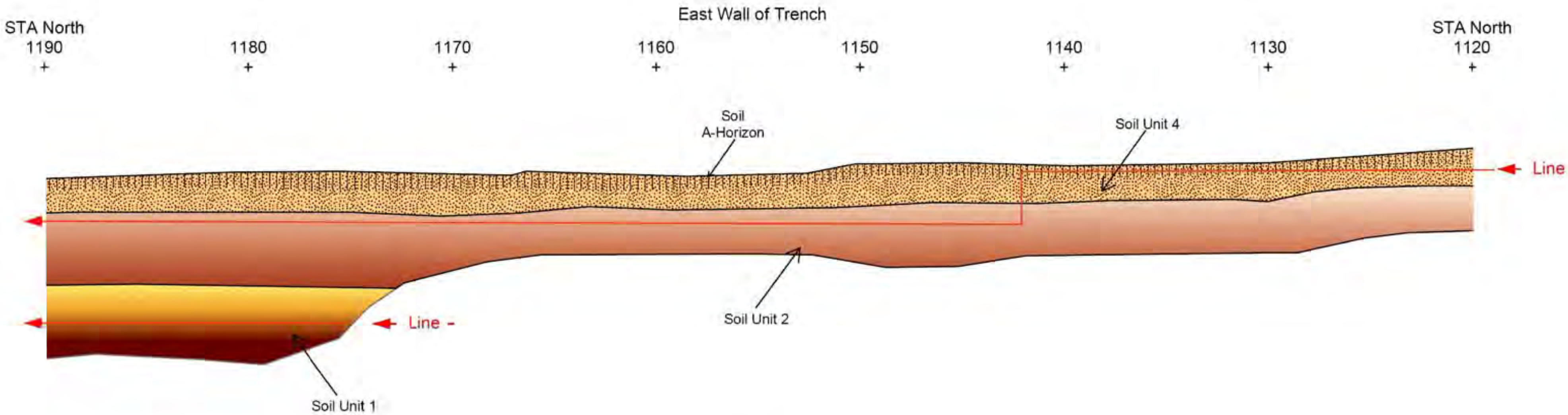
FIGURE	12



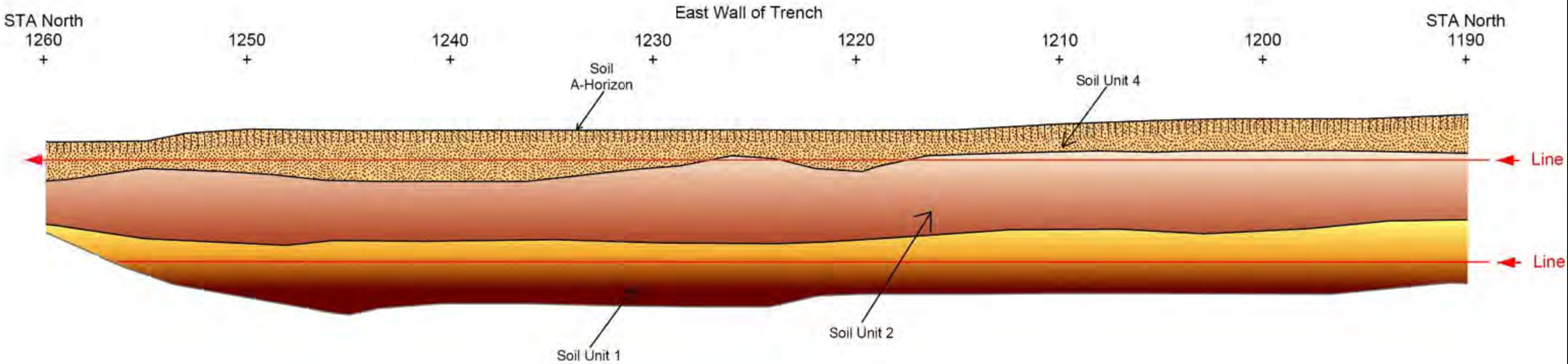


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FIGURE	13

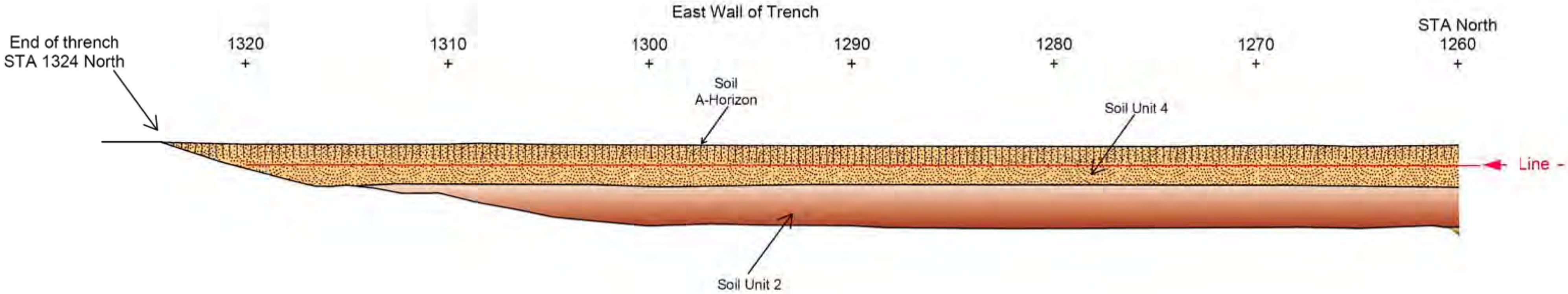

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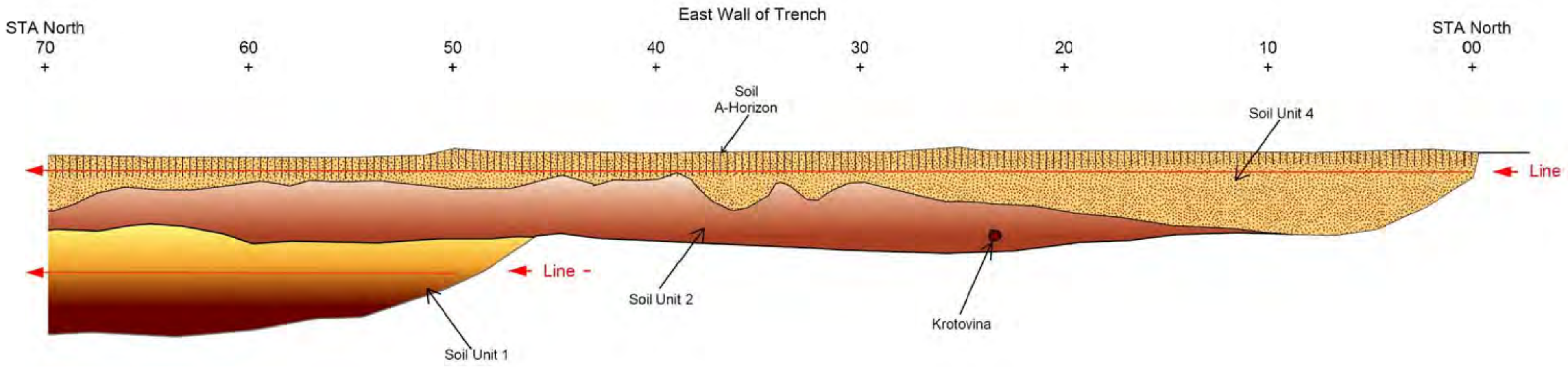
FIGURE	14



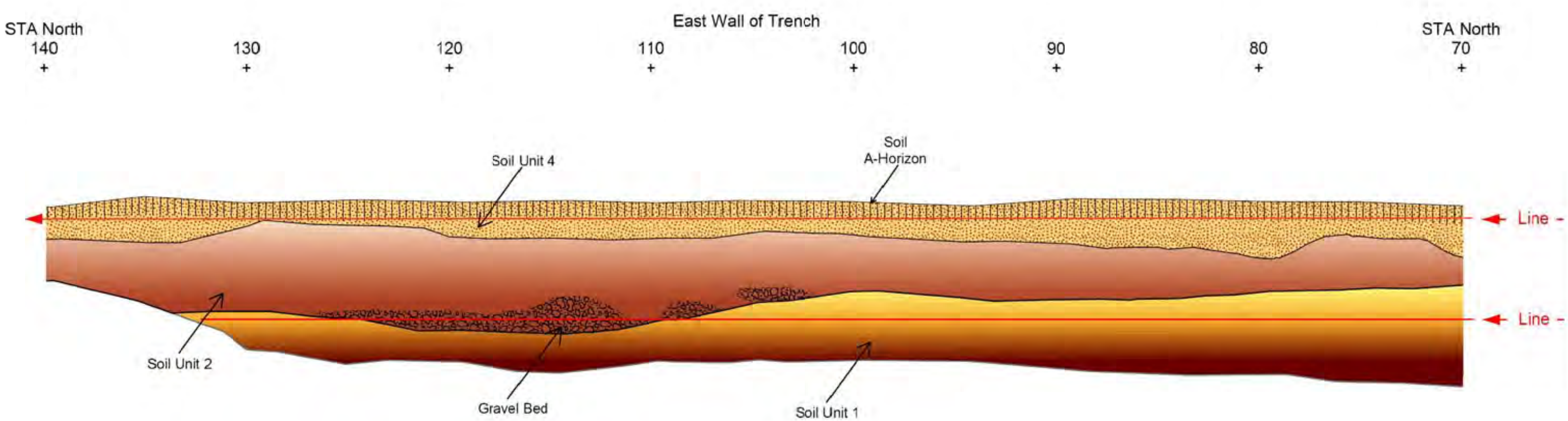


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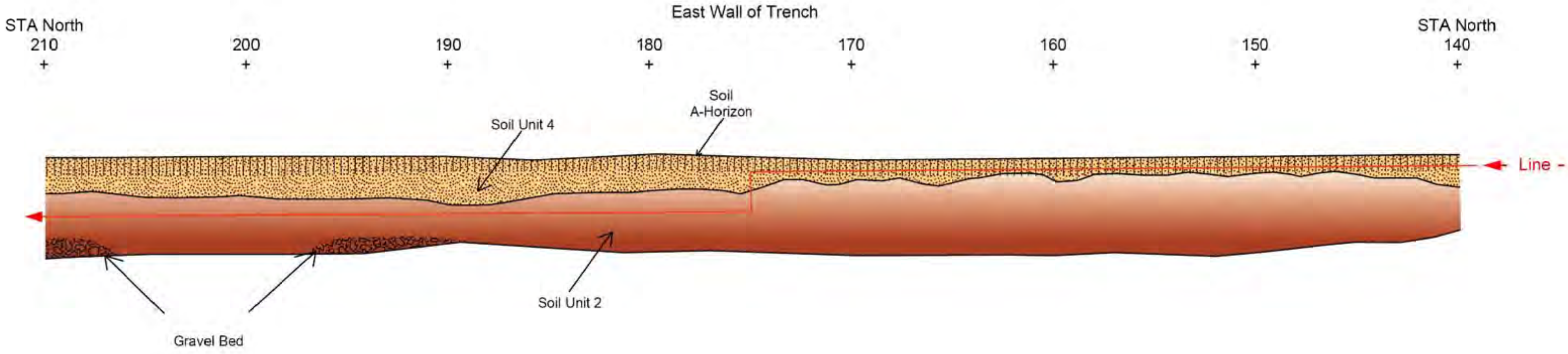
FIGURE	15



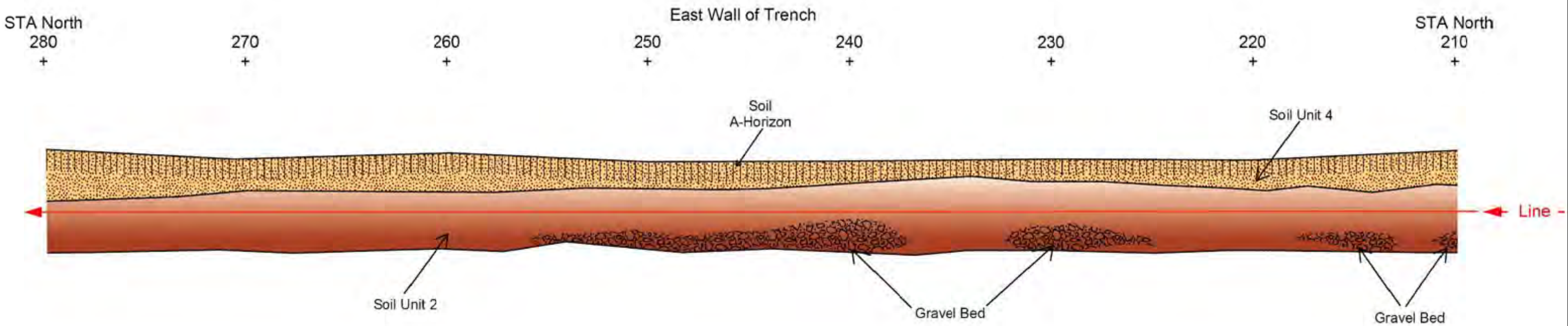


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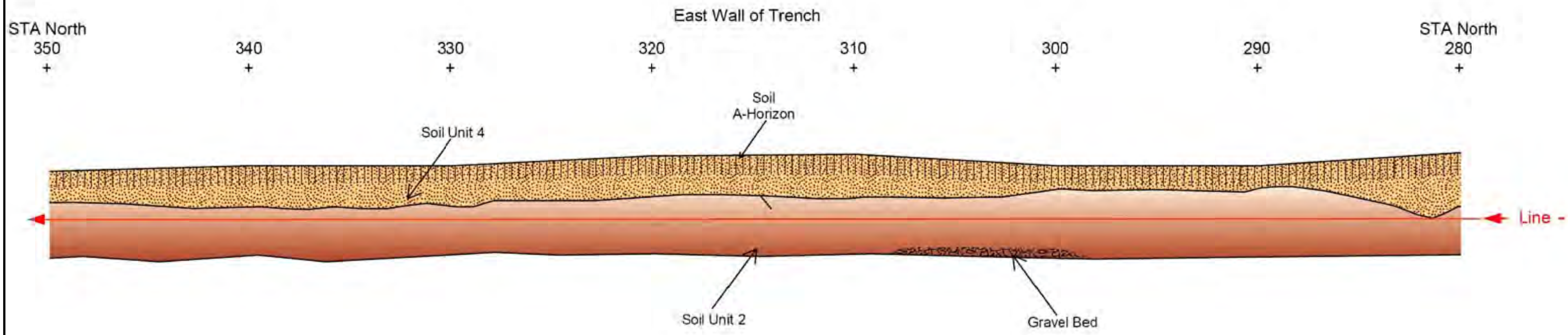
FIGURE	**16**



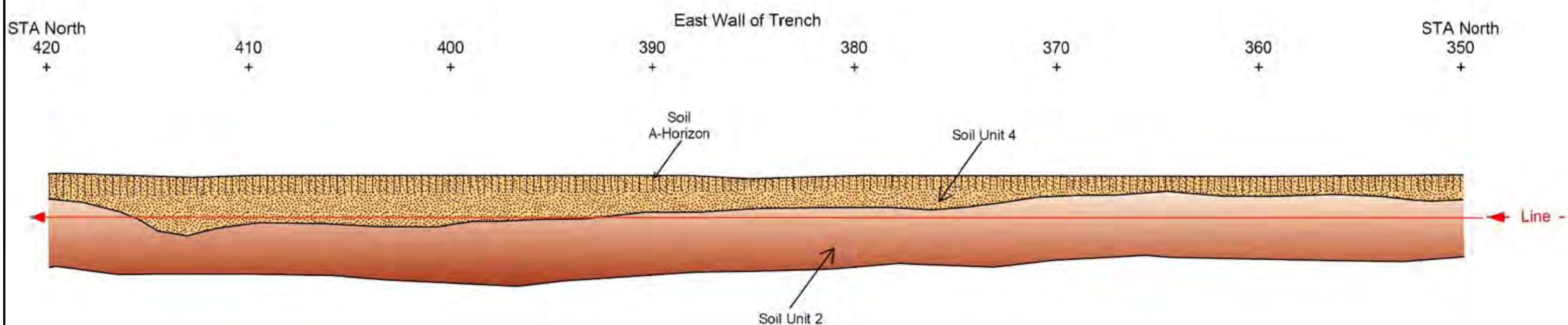


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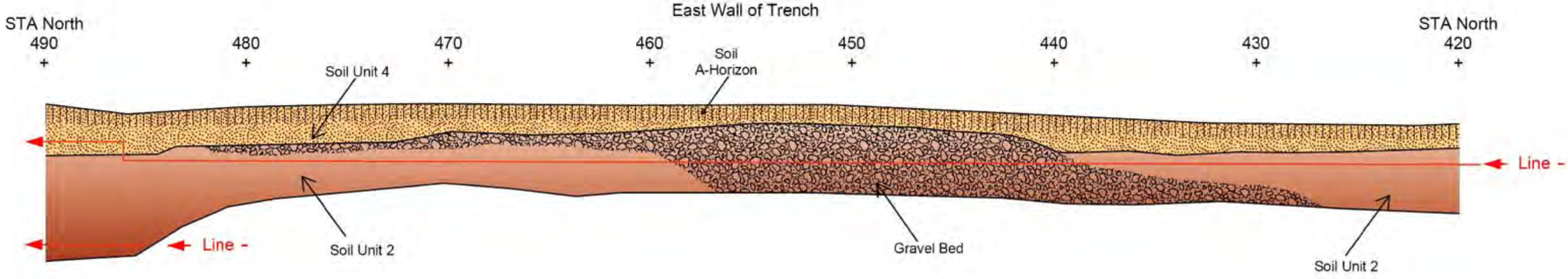
FIGURE	**17**



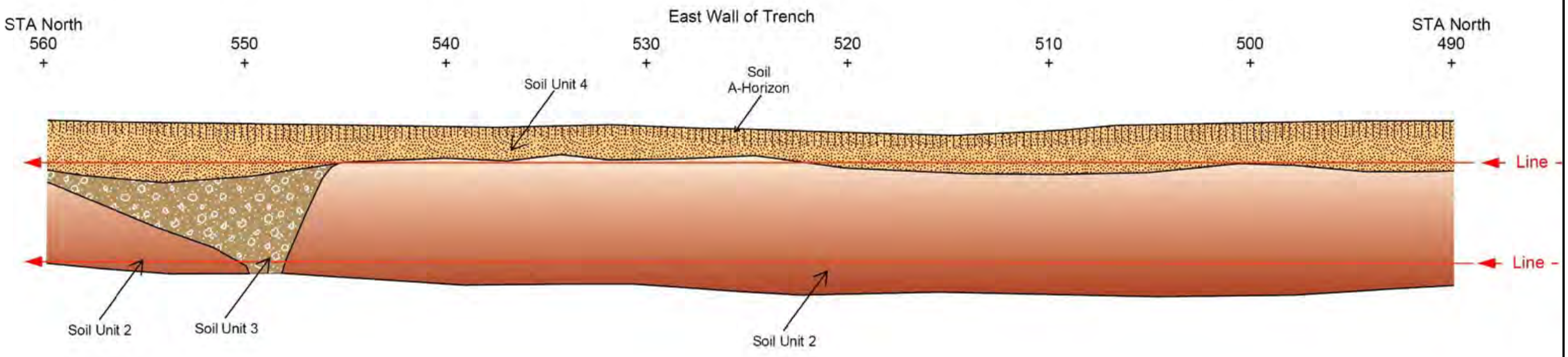


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FIGURE	**18**

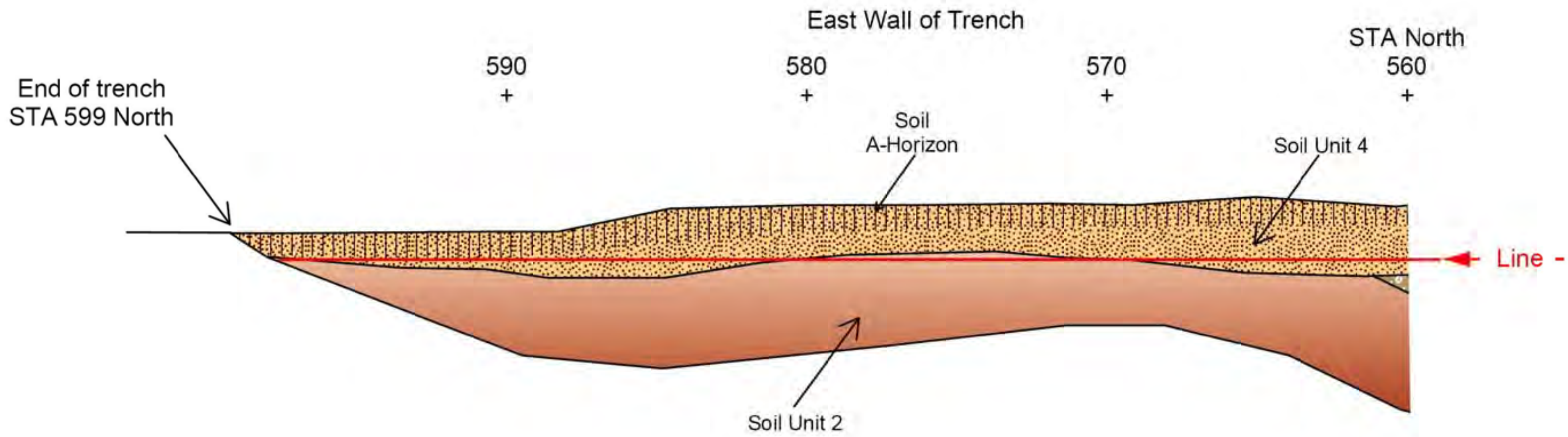

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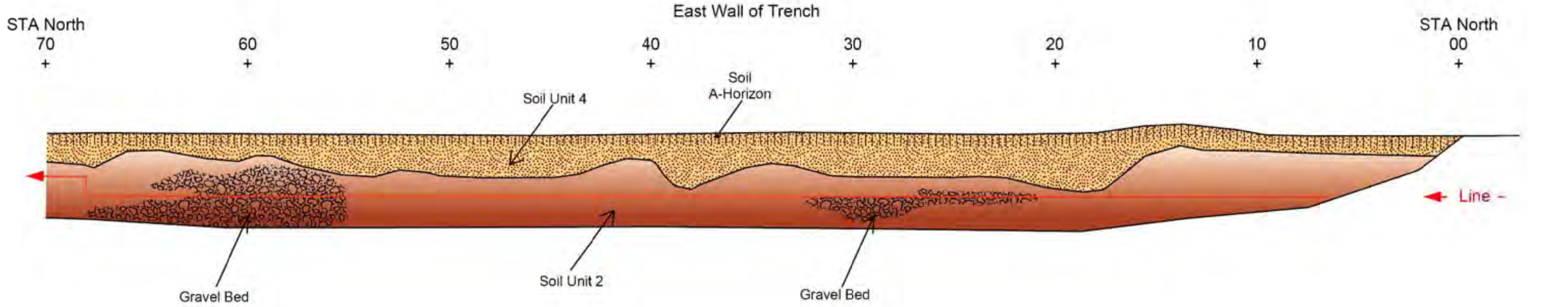
FIGURE	19



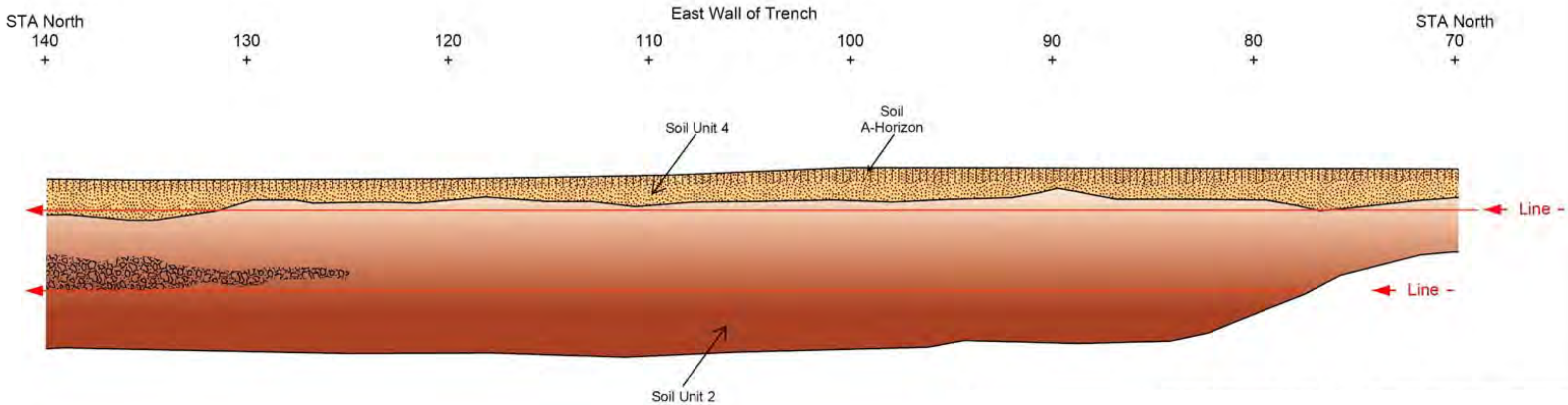


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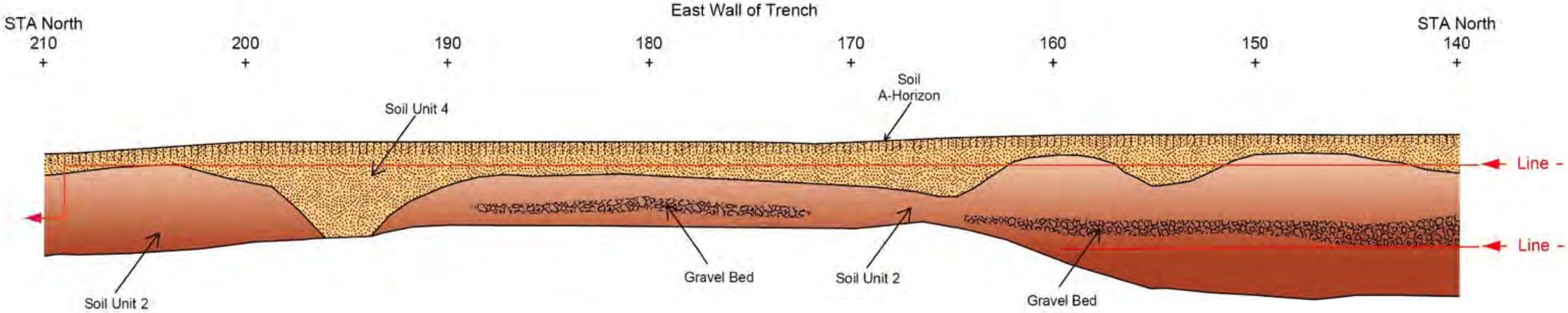
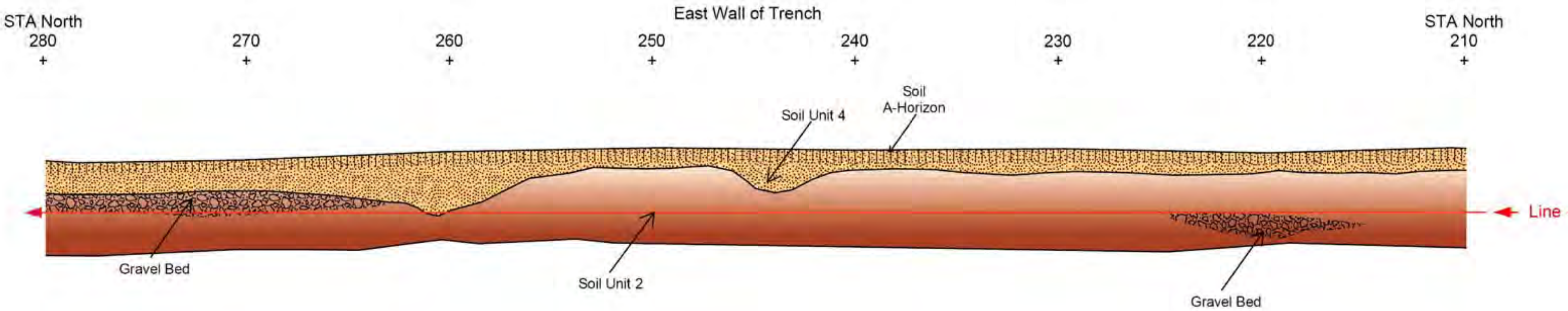
FIGURE	20





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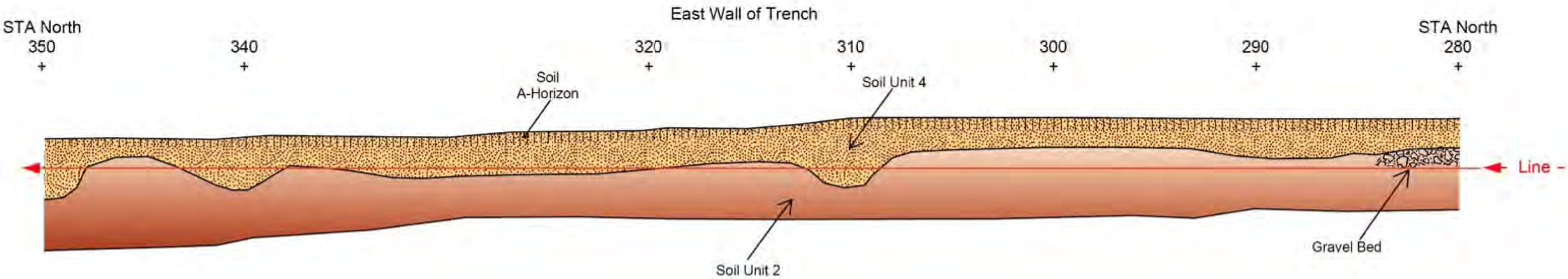
SCALE:	NOT TO SCALE
FIGURE	21



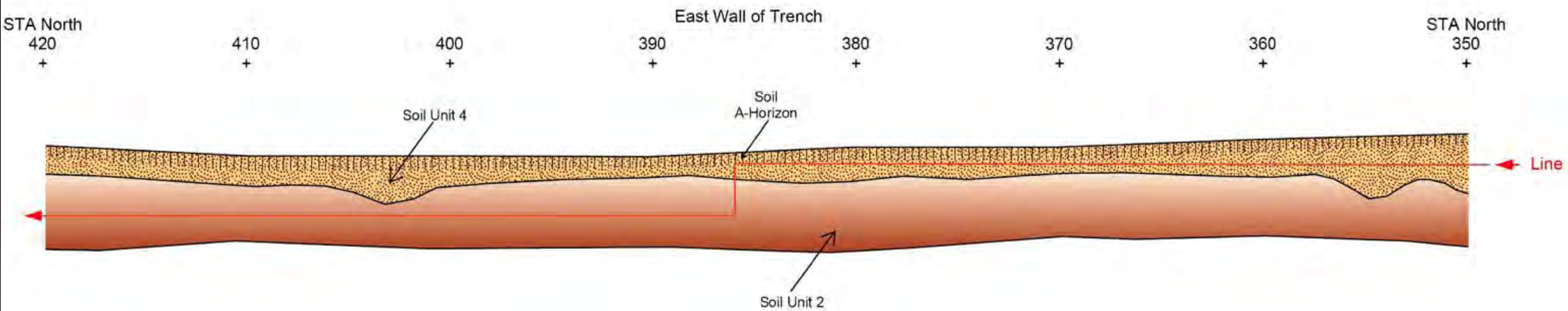


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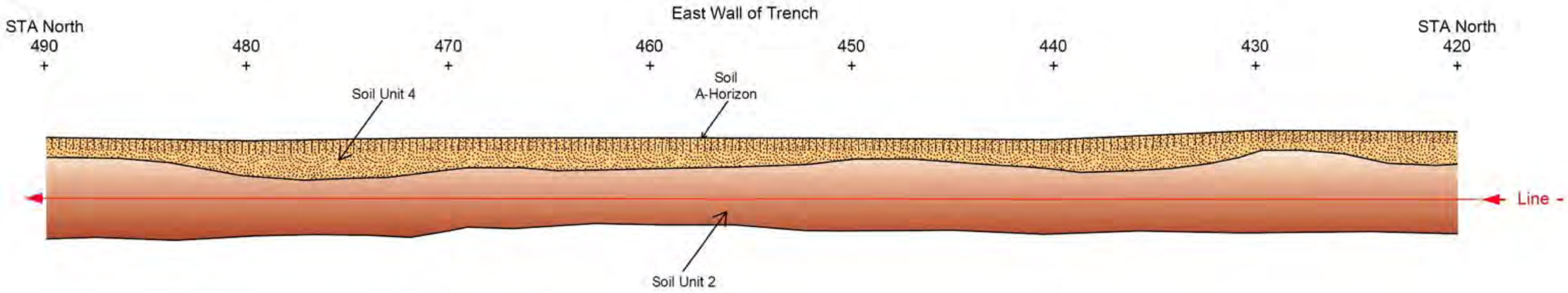
FIGURE	22



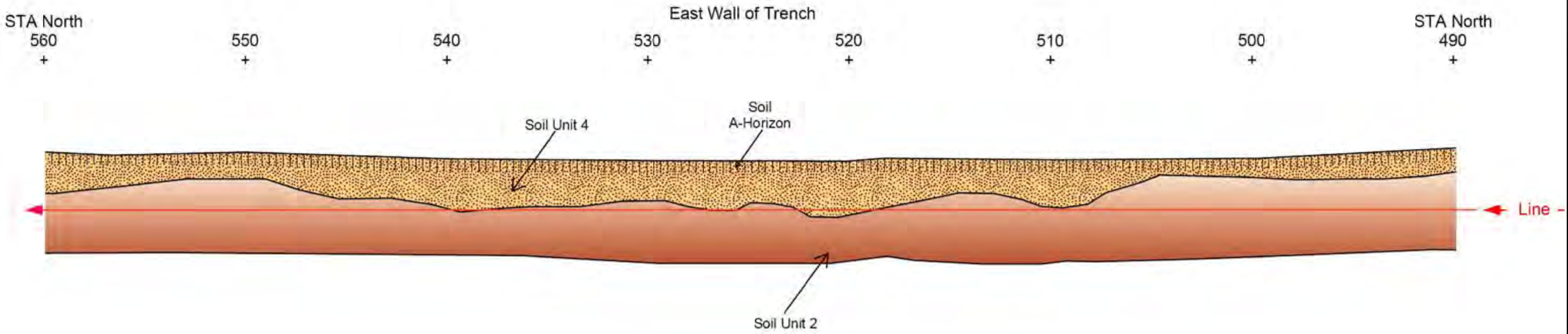


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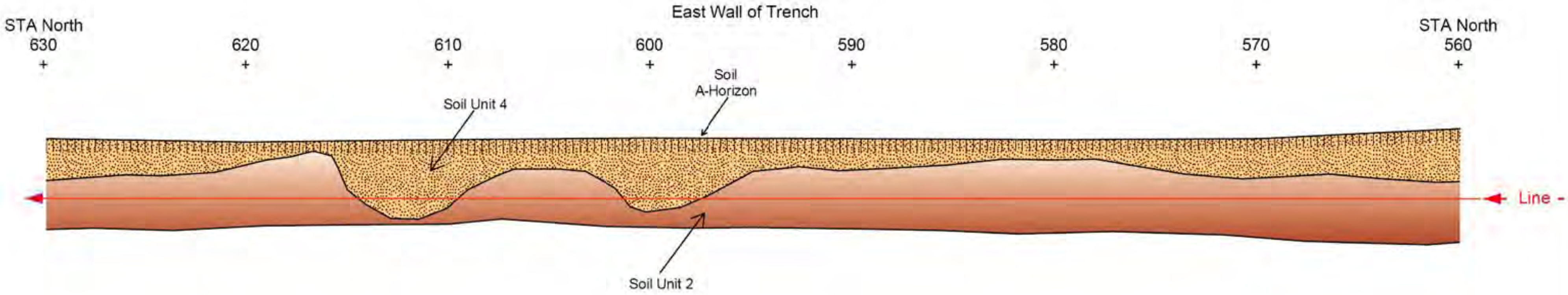
FIGURE	23



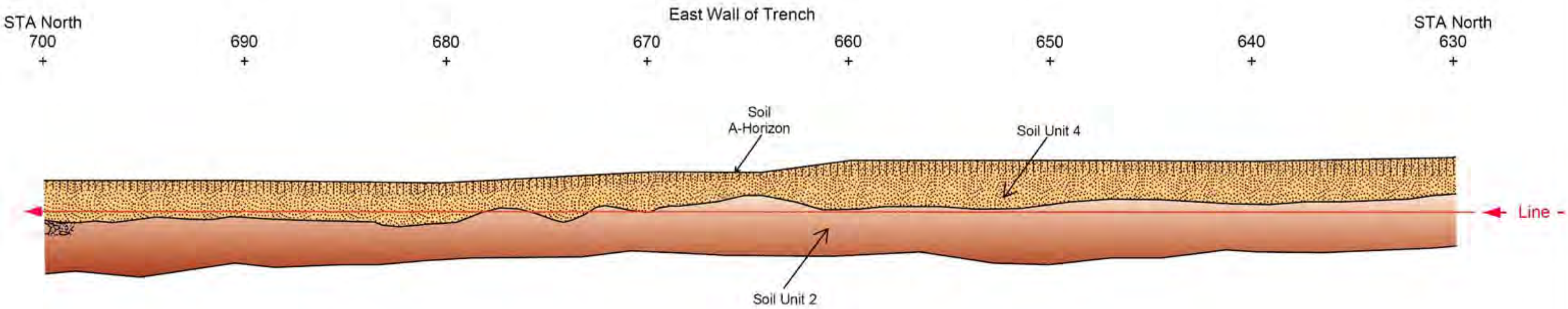


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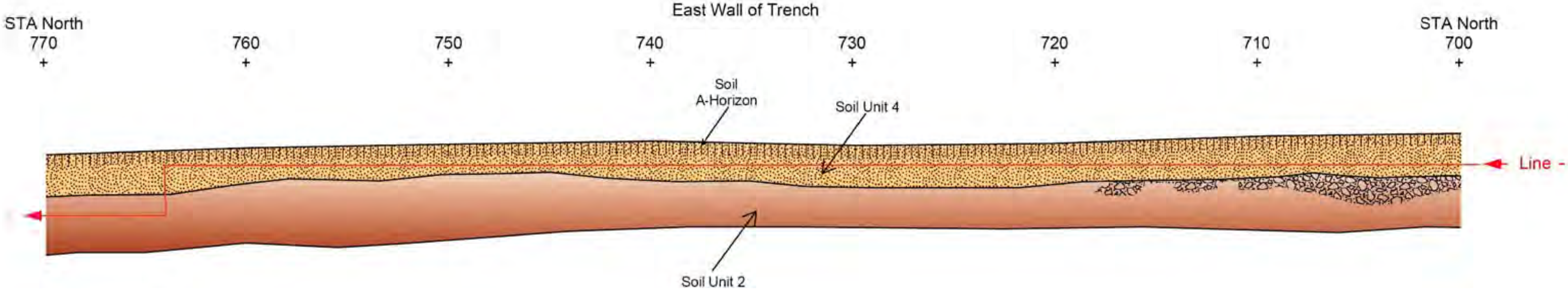
FIGURE	**24**



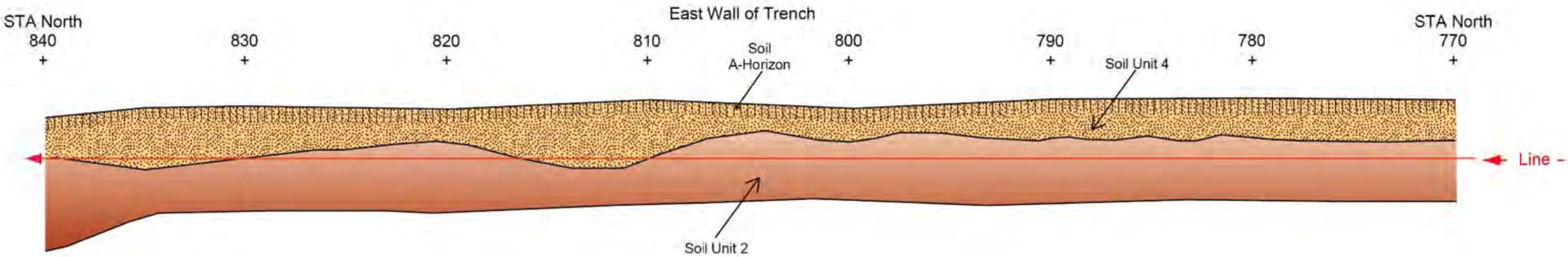


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FIGURE	25

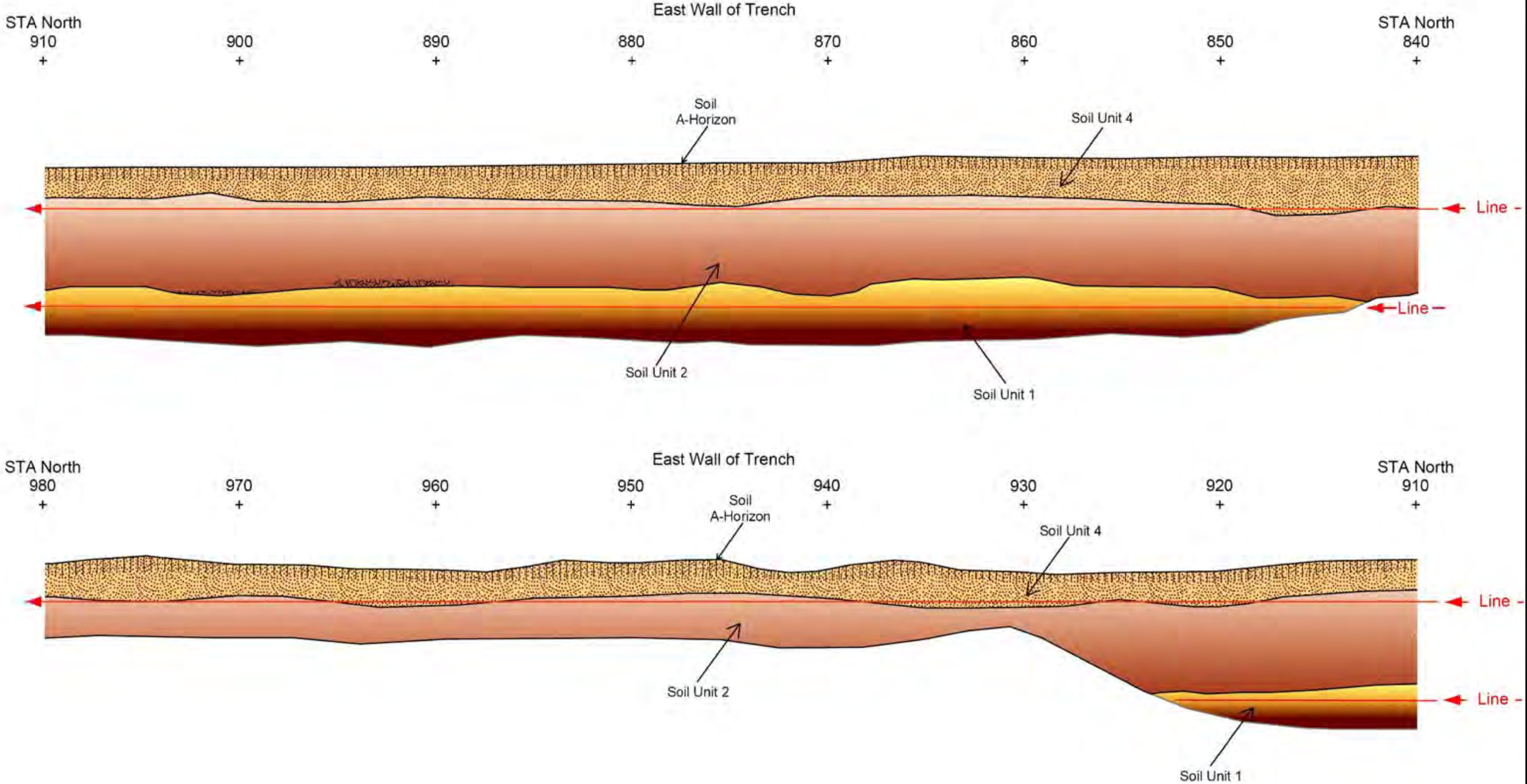

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FIGURE	26

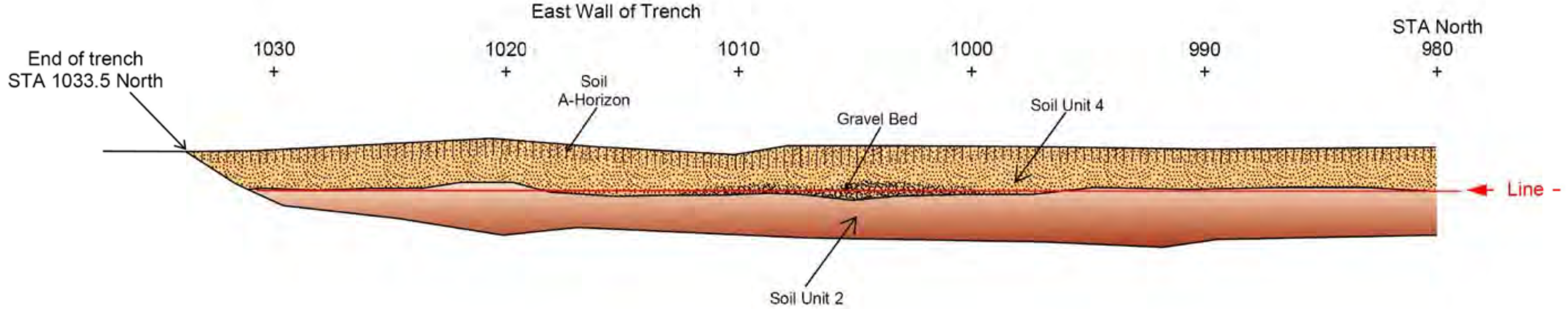

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FIGURE	27