

**CONVENTIONAL ON-SITE WASTEWATER TREATMENT SYSTEM
FINAL INSPECTION FORM**

P

On-site ID: ON0049854 Tax schedule (APN) #: 4126002011 Permit Type: New Modification Major Minor
Environmental Health Specialist: Bex Petro Final Inspection Date: 5/23/2019 Approved: YES NO

Residential Property Information:

Owner: WESLEY AND AMANDA AUSMUS Address: 16225 REATA RD., PEYTON CO, 80831 Approved No. Bedrooms: 5
Water supply: Municipal Well Cistern Date well installation verified: 5/23/2019 GPS of Well: 39° 4.13' N, 104° 31.498' W
Approval will be revoked if in the future any well is found to be within 50 feet of the septic tank and/or 100 feet of the soil treatment area.

Minimum System Requirements: Soil Type: 2A LTAR: 0.5 Limiting Layer: Groundwater Bedrock

OWTS Tank: Capacity (gallons): 1500

Soil Treatment Area (STA): Sq. Ft. (10-1): 1200 Sq. Ft. (10-2): 1200 Sq. Ft. (10-3): 840 Sq. Ft. (with Diverter Valve): N/A

Final system installation:

Licenses Installer: Tier 1 Tier 2: Homeowner: Installer: PROPERTY OWNER

OWTS Tank: Construction Material: Concrete Capacity (gallon): 1500 Existing New

GPS Location of tank: 39° 4.106' N, 104° 31.49' W

OWTS Pump Tank: YES NO Capacity (gallon): N/A Audio/visual Alarm: YES NO

Pump (Gal/dose): N/A Dose: N/A Total Dynamic Head: N/A Elevation difference: N/A

Soil Treatment Area (STA): GPS Location: 39° 4.097' N, 104° 31.486' W Total Sq. Ft installed: 900

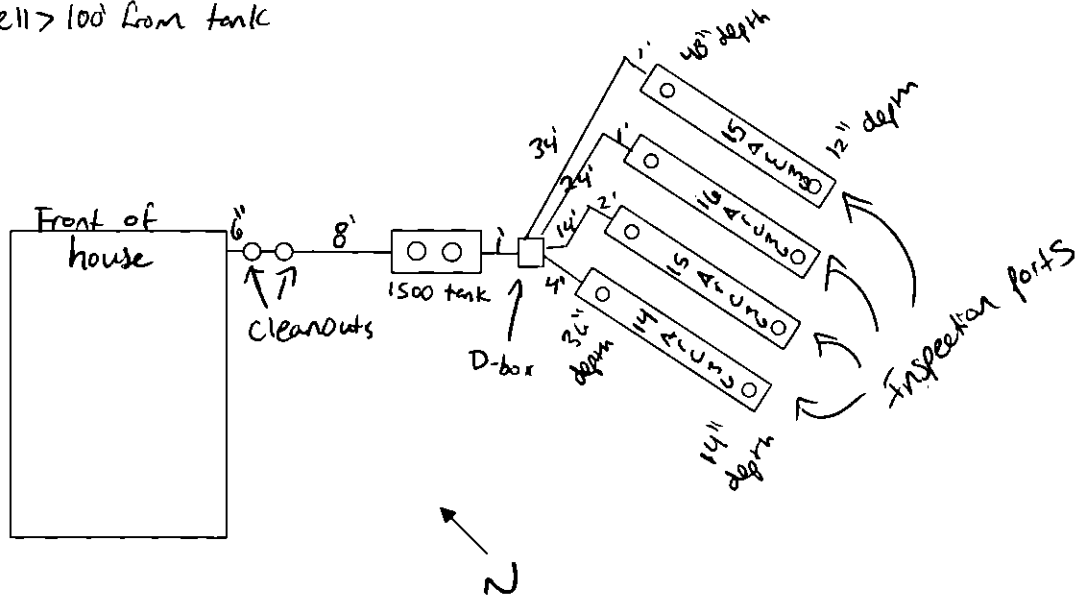
Configuration: Trench Bed Distribution: Gravity Pump to Gravity

Rock and Pipe: Width: Total Length: Installation Depth:

Depth of Rock (under pipe): Type of cover on Rock:

Chambers: Type: ARC36 Sq. Ft./chamber: 15 No. Chambers: 60 Installation Depth (range): 12"-48"

Record Drawing: 0 well > 100' from tank



Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.

Attn: WESLEY AND AMANDA AUSMUS
16225 REATA RD
PEYTON, CO 80831



**EL PASO COUNTY PUBLIC HEALTH
ENVIRONMENTAL HEALTH DIVISION**
1675 W. GARDEN OF THE GODS ROAD, SUITE 2044
COLORADO SPRINGS, CO 80907
PHONE: (719) 578-3199 FAX: (719) 578-3188
www.elpasocountyhealth.org

NEW SYSTEM PERMIT - OWTS

Valid From 11/7/2018 To 11/7/2019

PERMITEE :

WESLEY AND AMANDA AUSMUS
16225 REATA RD
PEYTON, CO 80831

Onsite ID: ON0049854

Tax Schedule # : 4126002011

Permit Issue Date: 11/07/2018

Dwelling Type: RESIDENTIAL

OWNER NAME :

WESLEY AND AMANDA AUSMUS

of Bedrooms (if Res): 5

Proposed Use (if Comm):

Designed Gallons/Day:

Water Source: PRIVATE WELL

System Installation Requirements:

- A Conventional non-engineered OWTS system to be installed on site, requiring a minimum of Tier I licensed installer to be named prior to final approval.
- System installation includes gravity fed system with d-box to chamber in trenches, max installation depth of 48". Minimum tank requirements 1500 gallon and 840 sq ft of soil treatment area (70 Q4 / 56 Arc 36 chambers required).
- The system must be installed per approved design document signed and dated 8.15.2018, changes to the approved design document must be submitted and approved by Public Health prior to installation.
- All horizontal setbacks must be maintained through system installation. In addition system must remain completely uncovered, including the tank size, for final inspection.
- The well must be installed at time of final inspection, or final approval will not be given until well installation is verified.
- Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise additional fees may be incurred.

For questions, call Bex: 352-1846

Bex Petro, L.S.

Attn: WESLEY AND AMANDA AUSMUS
16225 REATA RD
PEYTON, CO 80831

Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.



**EL PASO COUNTY PUBLIC HEALTH
ENVIRONMENTAL HEALTH DIVISION**
1675 W. GARDEN OF THE GODS ROAD, SUITE 2044
COLORADO SPRINGS, CO 80907
PHONE: (719) 578-3199 FAX: (719) 578-3188
www.elpasocountyhealth.org

This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

Inspection request line: Call (719) 575-8699 before 3:30 p.m. the business day prior to the requested inspection date.

Bep Peters, R. S.

Authorized By: Environmental Health Specialist



1675 W. Garden of the Gods Rd., Suite 2044
Colorado Springs, CO 80907
(719) 578-3199 phone
(719) 578-3188 fax
www.elpasocountyhealth.org

Prevent • Promote • Protect

53090580 A2004634 0100049854

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

Property Information:

Property Address: 110225 Reata Rd City and Zip: Peyton 80831

Legal Description: LOT 281 Reata Fl No 1

Tax Schedule #: 4126002011 Lot size: 5.3 acres

Is the property gated: Yes No Please provide a gate code if necessary: _____

Site Located Inside City Limits: Yes No Proposed Use: Residential Commercial

Water Supply: Well Cistern Municipal Potential Number of Bedrooms: 5

Has a Conditional Acceptance Document been issued for this property: Yes No Unsure

Owner Information: Primary Contact

Owner: Wesley & Amanda Ausmus Daytime Phone: 719-237-2275

Owners Mailing Address: 4920 Platinum Dr, Colo Spgs, CO 80918

Email Address: ausmus08@gmail.com Fax #: _____

General Contractor: _____ Phone/Email: _____

OWTS Installer Information: Primary Contact

System Installer: TBD Daytime Phone: _____

Email Address: _____ Licensed installer: Tier 1 Tier 2

All engineer-design systems *must* be installed by a Tier 2 licensed installer

CURRENT FEES AS APPROVED BY THE EL PASO COUNTY BOARD OF HEALTH

All payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)

- New Permit:** \$750.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$920.00
- Major Repair Permit:** \$535.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$558.00
- Minor Repair Permit:** \$245.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$268.00

Permits expire one year from date of issuance, unless otherwise noted

REQUIRED: Provide a complete written scope of work to be performed on the property.

New residential construction which will include installation of new septic tank & leach field

The following documents MUST be included with your application.

- A soils report: including at least 1 soil profile excavation pit, in accordance with section 8.5 A-F of OWTS regulations
- A clear and legible design document: including the proposed and alternate locations, as well as system layout, labeled with all setbacks to pertinent structures and features in table 7-1.
- Provide directions to property, from a main highway, on the back side of application.

Failure to provide the above listed documents may result in denial of the permit application

I certify that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the On-site Wastewater System (OWS) Regulations of the El Paso County Board of Health. I also authorize the assigned representative of El Paso County Public Health to enter onto this property in order to obtain information necessary for the issuance of a permit.

Applicant Signature: [Signature] Date: 11/1/18

Get

- Property address or lot number must be clearly marked and visible from the road.
- Profile excavation test pit and/or soil profile holes must be clearly marked
- Proposed and alternate soil treatment areas must be protected from compaction and disturbance
- Locked gates require the gate code or lock combination be provided on front of application
- Please provide directions to the property from a main highway, by text or picture, below.

East on Hwy 24 to Elbert Hwy, left on Elbert Hwy, right on Sweet, left on Resta Rd. Property is the 2nd to last property on left.

Failure to comply with the above information may result in an additional charge for a return trip.

Permit #: OW 0049854 Site Inspection date: 11/2

Date Approvals Rcvd: Development Services: _____ Floodplain/enumerations: 11/5

Design: Conventional Engineer Design Engineer: _____

Engineer Job #: _____ Engineer Date Stamped: _____

LTAR/Soil Type: 0.5/2A Groundwater: PP1 PP2 Bedrock: PP1 PP2

Minimum Requirements: Tank Capacity: 1500 Soil Treatment Area: 840

System Feed: Gravity Pump to Gravity Pressure Dosed Other: _____

System Media: Chambers Rock and Pipe Other Soil Treatment Area: Trenches Bed

Additional Comments: $600/0.5 = 1200(1) = 1200(0.7) = 840$ (70 @ 4/56. m²)

E.H. Specialist: Bess Pro, R.S. Date: 11/7/10 Approved Denied



P.O. Box 68 Franktown, Colorado 80116 • Phone: 303.688.2150 • Fax: 303.688.1295 • CoGeoDesign

E

0N0049854

APN 4126002011

5/23/2019

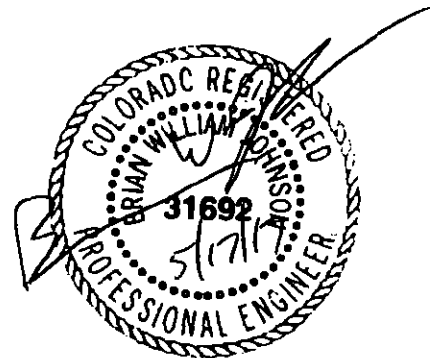
Wes Ausmus
7090 Rio Road
Peyton, CO 80831

ONSITE WASTE TREATMENT SYSTEM

FOR

**16225 REATA ROAD
EL PASO COUNTY, COLORADO**

**DESIGN NO 17-3079
REPORT NO 17-224
May 16, 2017**



**NOT VALID WITHOUT
ORIGINAL SIGNATURE**

By 11/2

Colorado Geoscience and Design, Inc.

Soil Investigation Summary Form

Job #17-224

Property address 16225 Reata Road, Peyton, CO 80831

Legal description 16225 Reata Road, El Paso County, Colorado

Property Owner/Contractor:

Name Wes Ausmus

Address 7090 Rio Road, Peyton, CO 80831

Email Address wesausmus87@gmail.com

Phone 719-491-4514

Indicate Which Soil Investigation Method You Performed: (check one)

1. Visual and tactile evaluation from two or more soil profile test pit excavations.
 2. Percolation test plus one or more soil profile test pit excavations.
 3. Percolation test plus one or more soil profile holes (Note: Not allowed after 7/01/2016)

If you checked 1: Complete Soil Profile Test Pit Log for **each** profile test pit.

If you checked 2: Complete Percolation Test Summary and Result Form and Soil Profile Log for **each** profile test pit.

If you checked 3: Complete Soil Percolation Test Summary and Result Form.

Soil Investigation Results Summary

Is there a limiting condition with low permeability, bedrock, ground water or other condition that restricts the treatment capability of the soil? Yes No

If yes, design document must explain how the limiting condition is addressed. Non-Engineered OWTS

Recommended Infiltrative Surface Elevation or Depth: 36 to 48 inches

Recommended Long Term Acceptance Rate (LTAR), From Table 9: 0.50

(Note: If method 2 is used, and the average percolation rate and soil class fall into different rows in Table 9, the lesser LTAR shall be used.)

SOIL PROFILE TEST PIT LOG
(A SEPARATE LOG SHALL BE COMPLETED FOR EACH SOIL PROFILE TEST PIT)

Address: 16225 Reata Road, El Paso County, Colorado

Job Number: 17-224

Test Pit Number: 1

Date of Logging: 04/24/16

Range of Depth of Soil Horizon, Relative to Ground Water Surface	USDA Soil Texture	USDA Soil Shape	USDA Soil Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9, In O-14)
0 to 2 ft.	Sandy loam	Granular	Weak	No	2A
2 to 4 ft.	Sandy loam	Blocky	Strong	No	2
4 to 9 ft.	Sand	Granular	Single-grained	No	1

Notes: _____

Is there a limiting condition with low permeability, ground water, bedrock, or other condition that restricts the treatment capability of the soil? Yes: _____ No: x

If yes, design document must explain how the limiting condition is addressed. Non-Engineered OWTS

Evidence of past groundwater (Redoximorphic Features): Yes: _____ No: x

Excavation Equipment Used: Bobcat 341 mini-excavator

Recommended LTAR: 0.50

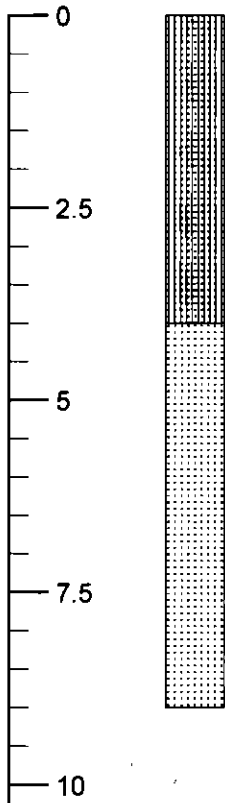
Bf 11/7

Soil Profile Test Pit Log

Job No: 17-224-1

Client: Wes Ausmus

Location: 16225 Reata Road, El Paso County, Colorado



Soil Type - 2A
 Soil Texture - Sandy loam
 Soil Shape - Granular
 Soil Grade - Weak
 Redoximorphic Features - None

Soil Type - 2
 Soil Texture - Sandy loam
 Soil Shape - Blocky
 Soil Grade - Strong
 Redoximorphic Features - None

Soil Type - 1
 Soil Texture - Sand
 Soil Shape - Granular
 Soil Grade - Single-grained
 Redoximorphic Features - None

Type of Equipment Used - Bobcat 341 mini excavator

Certification

I certify the information on this form is correct and complete to the best of my knowledge and that I performed all tests in accordance with the On-Site Wastewater Treatment System Regulation 5 CCR 1002-43.5. I certify that I have the competencies needed in accordance with the Department of Public Health and Environment Regulations.

Michael W. Klausner
Original Signature

Colorado Geoscience and Design, Inc.
Company Name

Michael W. Klausner
Print Name

P.O. Box 68, Franktown, CO 80116
Address

5/17/17
Date

(303) 688-2150
Phone

mike@cogodesign.com
Email

Bp 11/2

SOIL PROFILE TEST PIT LOG
(A SEPARATE LOG SHALL BE COMPLETED FOR EACH SOIL PROFILE TEST PIT)

Address: 16225 Reata Road, El Paso County, Colorado

Job Number: 17-224

Test Pit Number: 2

Date of Logging: 04/24/16

Range of Depth of Soil Horizon, Relative to Ground Water Surface	USDA Soil Texture	USDA Soil Shape	USDA Soil Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9, In O-14)
0 to 3 ft.	Sandy loam	Blocky	Weak	No	2A
3 to 5 ft.	Sandy loam	Blocky	Moderate	No	2
5 to 9 ft.	Sand	Granular	Single-grained	No	1

Notes: _____

Is there a limiting condition with low permeability, ground water, bedrock, or other condition that restricts the treatment capability of the soil? Yes: _____ No: x

If yes, design document must explain how the limiting condition is addressed. Non-Engineered OWTS

Evidence of past groundwater (Redoximorphic Features): Yes: _____ No: x

Excavation Equipment Used: Bobcat 341 mini-excavator

Recommended LTAR: 0.50

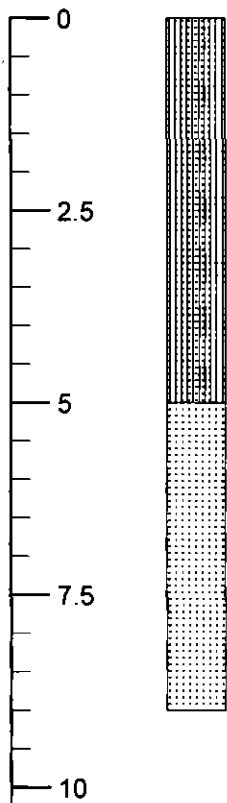
BP 11/7

Soil Profile Test Pit Log

Job No: 17-224-2

Client: Wes Ausmus

Location: 16225 Reata Road, El Paso County, Colorado



Soil Type - 2A
Soil Texture - Sandy loam
Soil Shape - Blocky
Soil Grade - Weak
Redoximorphic Features - None

Soil Type - 2
Soil Texture - Sandy loam
Soil Shape - Blocky
Soil Grade - Moderate
Redoximorphic Features - None

Soil Type - 1
Soil Texture - Sand
Soil Shape - Granular
Soil Grade - Single-grained
Redoximorphic Features - None

Type of Equipment Used - Bobcat 341 mini excavator

Certification

I certify the information on this form is correct and complete to the best of my knowledge and that I performed all tests in accordance with the On-Site Wastewater Treatment System Regulation 5 CCR 1002-43.5. I certify that I have the competencies needed in accordance with the Department of Public Health and Environment Regulations.

Michael W Klausner
Original Signature

Colorado Geoscience and Design, Inc.
Company Name

Michael W. Klausner
Print Name

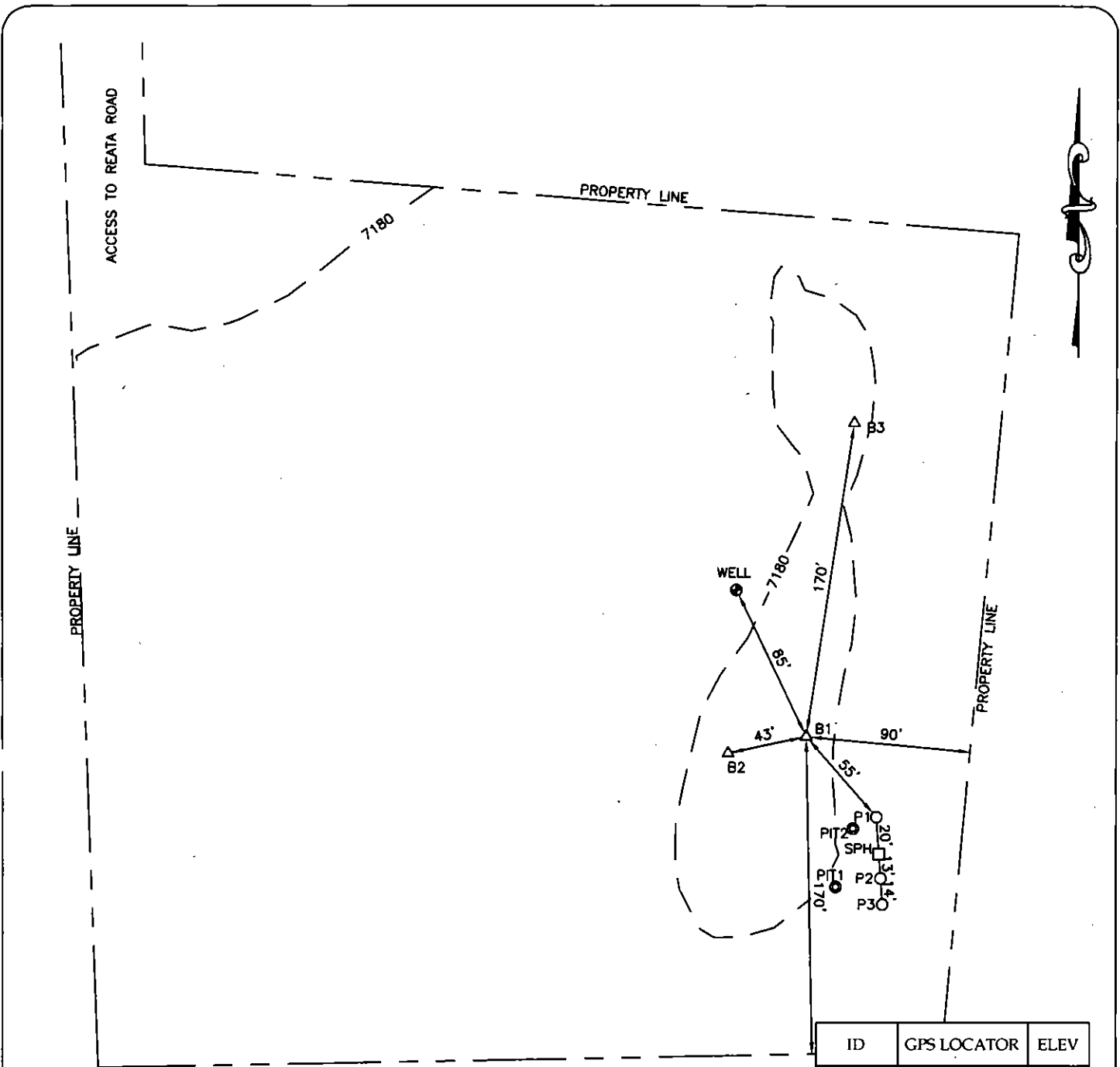
P.O. Box 68, Franktown, CO 80116
Address

5/17/17
Date

(303) 688-2150
Phone

mike@cogedesign.com
Email

bp 11/7



LEGEND

- SOIL PROFILE TEST PIT
- FOUNDATION SOIL TEST BORINGS
- PERCOLATION TEST HOLES
- SOIL PROFILE HOLE
- UNSUITABLE SOIL PROFILE HOLE

ID	GPS LOCATOR	ELEV
SPH	39°04.100' N 104°31.474' W	7179
PIT1	39°04.097' N 104°31.479' W	7180
PIT2	39°04.102' N 104°31.477' W	7180
B1	39°04.111' N 104°31.482' W	7181
B3	39°04.138' N 104°31.476' W	7181



SITE MAP

ALL LOCATIONS SHOWN ARE BASED ON SPECIFIC INFORMATION FURNISHED BY OTHERS OR ESTIMATES MADE IN THE FIELD BY COLORADO GEOSCIENCE PERSONNEL. THE LOCATIONS, DISTANCES, DIRECTIONS, ETC. ARE NOT THE RESULT OF A PROPERTY SURVEY BUT ARE APPROXIMATIONS AND ARE NOT WARRANTED TO BE EXACT. IT IS THE OWNER/BUILDER'S RESPONSIBILITY TO DEFINE PROPERTY BOUNDARIES AND ENSURE ALL ON-SITE IMPROVEMENTS ARE LOCATED WITHIN THE PLATTED SITE AND OUT OF INAPPROPRIATE EASEMENTS. ALL DISTANCES ARE TO BE VERIFIED PRIOR TO EXCAVATION.

WES AUSMUS

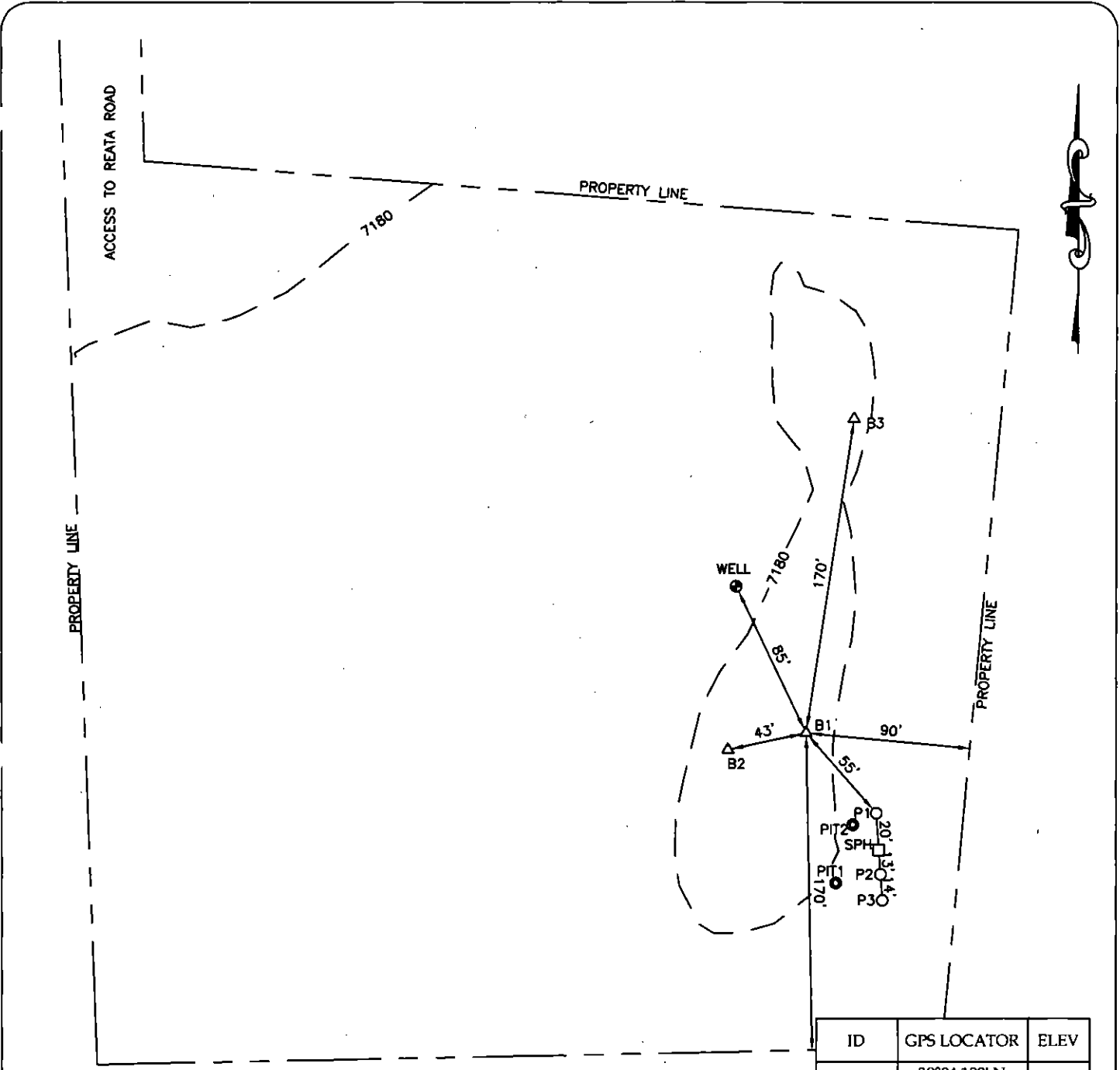
SITE LOCATION
16225 REATA ROAD
EL PASO COUNTY,
COLORADO

SCALE
1" = 80'

JOB NO.
17-224

FIG. 1

Handwritten signature/initials



LEGEND

- ⊙ SOIL PROFILE TEST PIT
- △ FOUNDATION SOIL TEST BORINGS
- PERCOLATION TEST HOLES
- SOIL PROFILE HOLE
- ⊗ UNSUITABLE SOIL PROFILE HOLE

ID	GPS LOCATOR	ELEV
SPH	39°04.100' N 104°31.474' W	7179
PIT1	39°04.097' N 104°31.479' W	7180
PIT2	39°04.102' N 104°31.477' W	7180
B1	39°04.111' N 104°31.482' W	7181
B3	39°04.138' N 104°31.476' W	7181



SITE MAP

ALL LOCATIONS SHOWN ARE BASED ON SPECIFIC INFORMATION FURNISHED BY OTHERS OR ESTIMATES MADE IN THE FIELD BY COLORADO GEOSCIENCE PERSONNEL. THE LOCATIONS, DISTANCES, DIRECTIONS, ETC. ARE NOT THE RESULT OF A PROPERTY SURVEY BUT ARE APPROXIMATIONS AND ARE NOT WARRANTED TO BE EXACT. IT IS THE OWNER/BUILDER'S RESPONSIBILITY TO DEFINE PROPERTY BOUNDARIES AND ENSURE ALL ON-SITE IMPROVEMENTS ARE LOCATED WITHIN THE PLATTED SITE AND OUT OF INAPPROPRIATE EASEMENTS. ALL DISTANCES ARE TO BE VERIFIED PRIOR TO EXCAVATION.

WES AUSMUS

SITE LOCATION
16225 REATA ROAD
EL PASO COUNTY,
COLORADO

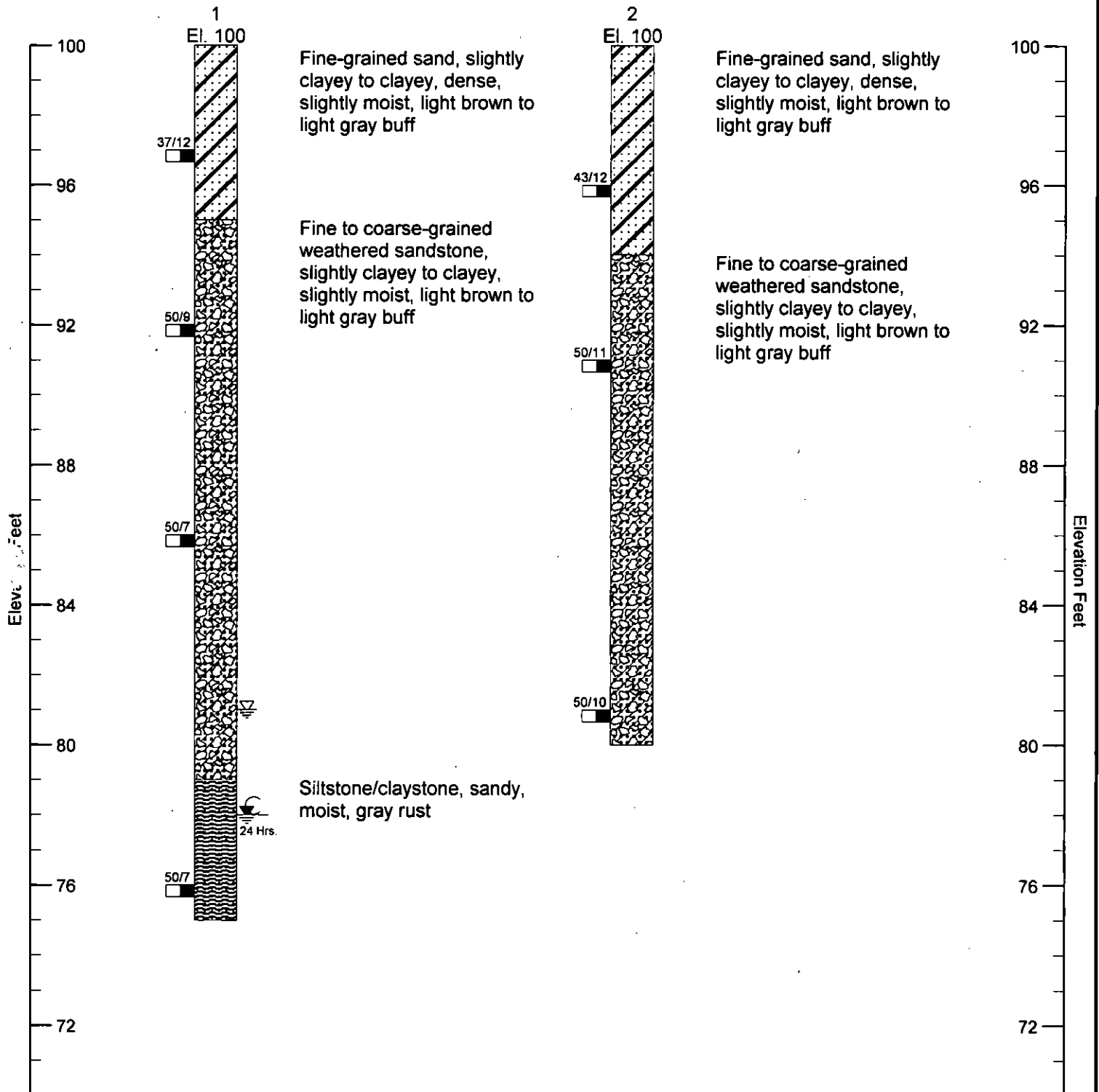
SCALE
1" = 80'

JOB NO.
17-224

FIG. 1

B8 11/7

Log of Test Holes



Notes:

x/y indicates that "x" number of blows of a 140-pound hammer falling 30 inches are required to drive a 2-inch diameter sampler "y" number of inches.

2. [Symbol] Indicates depth at which soil samples were taken.

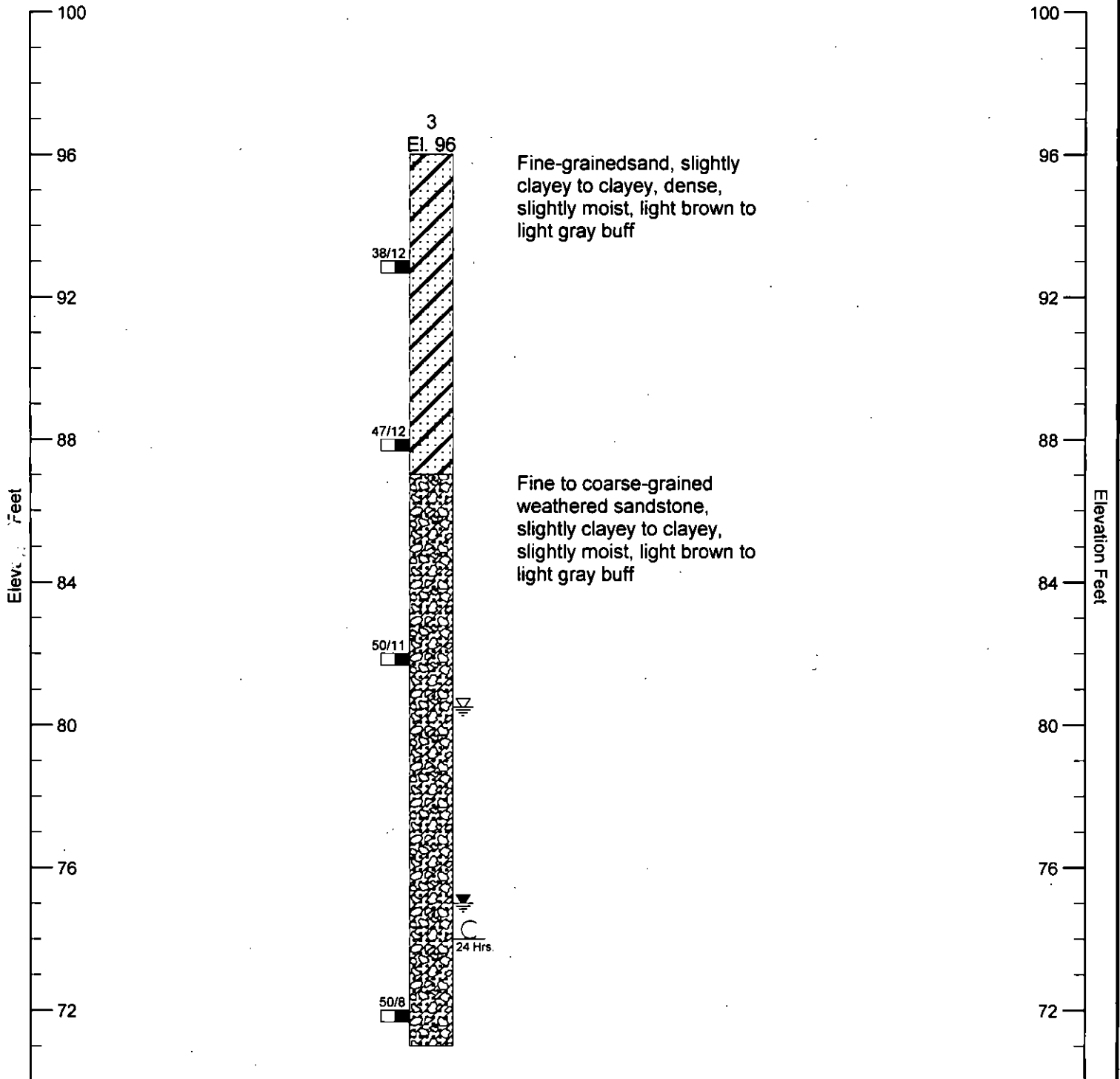
Where Applicable—

- a: [Symbol] Indicates ground water encountered during the drilling operation.
- b: [Symbol] Indicates ground water encountered after 24 hours.
- c: [Symbol] Indicates auger refusal.
- d: [Symbol] Indicates caving.

Figure 2

Bl 1110

Log of Test Holes



Notes:

x/y indicates that "x" number of blows of a 140-pound hammer falling 30 inches are required to drive a 2-inch diameter sampler "y" number of inches.

2. [Symbol] Indicates depth at which soil samples were taken.

Where Applicable—

a: [Symbol] Indicates ground water encountered during the drilling operation.

b: [Symbol] Indicates ground water encountered after 24 hours.

c: [Symbol] Indicates auger refusal.

d: [Symbol] Indicates caving.

BO 467

Figure 2

GENERAL

As requested, Colorado Geoscience and Design, Inc. has investigated the subsurface conditions at the subject site. The purpose of our investigation was to evaluate subsurface conditions presented in Colorado Geoscience and Design, Inc.'s report and design an Onsite Waste Treatment System (OWTS).

The Percolation Test and/or Soil Profile Pit Observation and the Onsite Waste Treatment System design shall be submitted to the appropriate county for permits.

SITE CONDITIONS

The site is located at **16225 REATA ROAD, EL PASO COUNTY, COLORADO**. The location of the site, percolation tests and proposed OWTS are presented in Figure 1.

The general topography of the site slopes approximately 7% to the east. The vegetation at the site consists of native trees, grass and weeds. The weather was cool and sunny at the time of the investigation.

- The soil treatment area shall be at least 100 feet from all onsite and off-site domestic water wells.
- There are no anticipated construction-related issues, nor were there difficulties encountered during the site evaluation.
- There are no current public records available from the health department.
- The proposed soil treatment area is not located in a flood plain.

PROPOSED CONSTRUCTION

At the present time the site is vacant. A 5-bedroom single-family residence is proposed at the site as indicated on Figure 1. The design flow for a 5-bedroom dwelling in El Paso County is 600 gallons per day. We do not anticipate any proposed land use changes in the near future that may impact the new system.

SUBSURFACE CONDITIONS

Subsurface conditions were investigated by excavating two soil profile test pits, as indicated on Figure 1. Subsurface conditions encountered in soil profile test pit 1 consisted of sandy loam to 4 ft., overlaying sand to 9 ft., and the soil in soil profile test pit 2 consists of sandy loam 5 ft., overlaying sand to 9 ft. Groundwater was not encountered at the time of the field investigation. The soil type used for the soil treatment area is Soil Type 2A

RECOMMENDATIONS

A non-engineered infiltrator chamber trench system shall be installed in the sandy loam. The OWTS is based on a Long Term Acceptance Rate (LTAR) of 0.50 gallons/sq. ft./day, a design flow of 600 GPD plus appropriate design factors. Based on these design parameters, the soil treatment area utilizing Quick 4 infiltrator chambers shall consist of the following:

- Seventy five (75) chambers in 3 trenches are required; (See Figures 1 through 4 and Calculations Work Sheet).
- Three inch (3") diameter perforated PVC pipe shall be suspended from the top of the chambers and shall run the full length of each row. The pipe shall have two rows of 1/2" diameter holes drilled at 1 ft. on center with a 60° offset or similar.
- The maximum depth of the chambers shall be 4 feet with a minimum of 12 inches of cover over the top of the chambers.

- Effluent to the distribution laterals shall be uniformly allocated.

The system requires 1-1,500 gallon two-compartment pre-cast concrete tank. **The top of the septic tanks to final grade shall be a maximum of 4 feet. If the distance is greater than 4 feet an engineered tank is required.**

NOTE: All tanks shall be approved by the Colorado Department of Public Health and Environment (CDPHE). Please refer to the following web site for CDPHE approved On-Site Wastewater Treatment System (OWTS) septic tank manufacturers: <https://www.colorado.gov/pacific/cdphe/septicapproval>

Observation pipes shall be installed at the end each row of the field and a drainage berm to divert surface water away from the surface of the OWTS. We recommend the individual sewage disposal system be installed as indicated on Figures 2 through 5.

Effluent lines placed beneath roadways shall be encased in larger pipe to prevent damaging them. The pipe sleeve shall be Schedule 40, PVC that is 2 inches larger in diameter than the effluent line. The encasement shall extend 10 feet beyond the edge of the road in both directions.

LIMITATIONS

This study and OWTS design was based on accepted industry standards and state and county guidelines. Subsurface conditions were based on observation at the time of the field investigation.

In any soil investigation it is necessary to assume that the subsurface soil conditions beneath the drain field do not vary greatly from the conditions encountered in our field and laboratory testing. Our experience has been that at times soil conditions do change and variations do occur and may become apparent during the installation of the OWTS. Groundwater levels can be expected to fluctuate with varying seasonal weather conditions irrigation usage for lawns and other circumstances.

Our investigation, layout, and recommendations are based on data submitted. Site soil conditions encountered may appear different from the test borings as presented in this report. Colorado Geoscience and Design, Inc. should be notified if the subsurface conditions observed during the time of construction differ from the descriptions in this report to evaluate the effect of the changes on the proposed OWTS or if there are any changes in the location of the OWTS. Due to the variables such as individual usage, maintenance practices, soil conditions, groundwater fluctuations and climate no warranty express or implied is given to the life and performance of the OWTS.

The owner/builder is responsible for all regulations and requirements regarding OWTS installations. This office must approve the OWTS installer before work begins on this system. Failure to utilize an installer approved by this office may nullify this design.



Prevent • Promote • Protect

Environmental Health Division

1675 W. Garden of the Gods Rd., Suite 2044
Colorado Springs, CO 80907
(719) 578-3199 *Phone*
(719) 575-3188 *fax*
www.elpasocountyhealth.org

**CONVENTIONAL (NON-ENGINEERED)
ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) DESIGN WORKSHEET
(MUST BE COMPLETED FOR ALL CONVENTIONAL DESIGNS)**

Wastewater Flow

Total number of bedrooms:	<u>5</u>
Design wastewater flow (gallons/day) from Table 6-1:	<u>600</u>

Septic Tank

Septic tank size (in gallons) from Table 9-1:	<u>1,500</u>
Tank burial depth (from top of tank, in inches) <i>(NOTE: Shall not exceed 48 inch depth by regulation)</i>	<u>48"</u>
Will groundwater affect tank?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Will an effluent screen be installed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

(Note: Effluent screens are required for all new systems or replacement of the septic tank)

Soil Treatment Area (STA)

Long Term Acceptance Rate (LTAR) From Table 10-1:	<u>0.50</u>
Unadjusted STA size (see 8.10.C.4) – show calculation: Design flow (gallons per day) LTAR (gallons/day/sq.ft.) =	<u>600</u> <u>.5</u> <hr/> <u>= 1,200</u>
Depth of STA (cannot exceed 48"):	<u>36" - 48"</u>
Trenches are preferred. If bed system is selected, the selection reason must be specified: _____	
Type of STA (check which applies): <input checked="" type="checkbox"/> Trench <input type="checkbox"/> Bed	FOR REPAIRS ONLY (check which applies): <input type="checkbox"/> Wide Bed (more than 12 feet wide) <input type="checkbox"/> Deep Gravel Trenches <input type="checkbox"/> Seepage Pit <input type="checkbox"/> None of the Above

Bp 11/7

Method of Septic Tank Effluent Application (check which applies):

<input checked="" type="checkbox"/> Gravity <input type="checkbox"/> Pump to gravity <input type="checkbox"/> Dispersed by siphon

Type of Distribution Media (check which applies):

<input type="checkbox"/> Rock <input type="checkbox"/> Tire chips <input checked="" type="checkbox"/> Chambers <input type="checkbox"/> Other _____ Other type _____

Adjusted STA size, using factors from Table 10-2 & 10-3 (show calculation, with adjustment factors utilized):

1,200 x 1 = 1,200 x .7 = 840 OR Engineers Design

A scale drawing *shall* be provided with each design document (see attached example design documents), showing:

- Layout of entire OWTS, including the STA configuration (trench, bed, etc.)
- Dimensions of the trench(s) or the bed(s)
- Location of all OWTS components and distances to all applicable physical features in Table 7-1
- Depths of all components (or elevations relative to a designated benchmark)
- Location of the soil profile test pit excavation(s), or percolation test holes, if required
- Location of the alternate STA site
- North direction arrow
- Graphic scale (1" = 20', 1" = 30', etc.)
- Contours, OR slope direction and % slope

Note: It is recommended that the design document is completed by a professional in the OWTS industry. EPCPH does not complete, or alter design documents. Contact EPCPH with any questions.

The proposed STA sites must be protected from disturbance, compaction, or other damage by staking, fencing, posting or other effective methods.

Certification

Wesley
Signature

Company Name

Wesley Jusmus
Print Name

Address

11/1/18
Date

Phone

Property Address

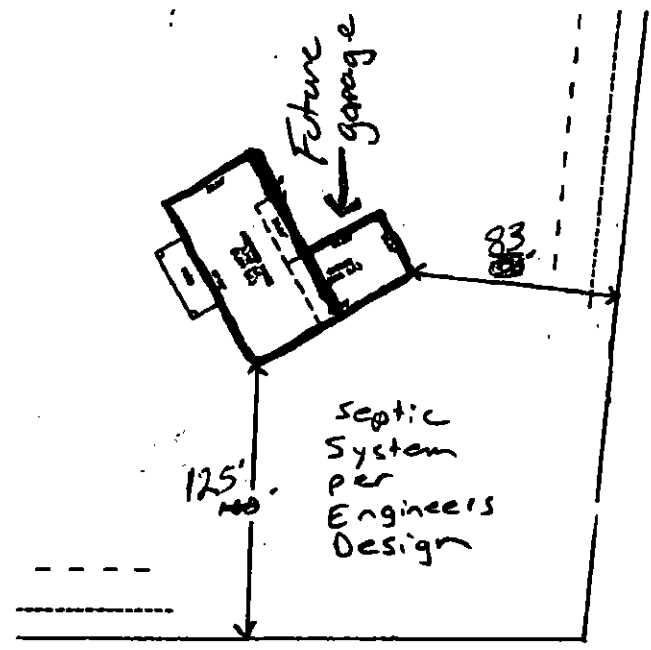
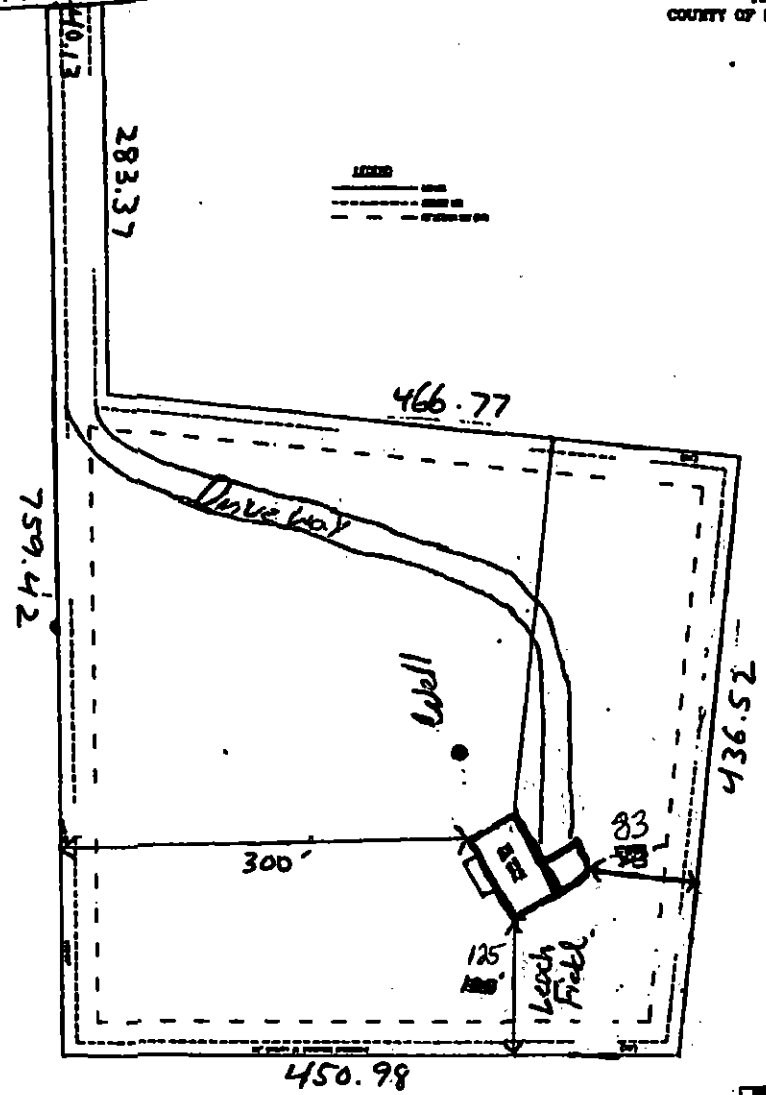
Email

(See attached Tables and Design Document examples)

By 11/7

REATA ROAD

PLOT PLAN
 LOT 281, REATA FILING NO. 1
 10220 REATA ROAD
 COUNTY OF EL PASO, STATE OF COLORADO



By 11/17

LAND RESERVATIONS

All rights reserved except those reserved to the State of Colorado and the County of El Paso, State of Colorado.

THIS PLAN IS SUBJECT TO THE RECORDS OF THE COUNTY OF EL PASO, STATE OF COLORADO, AND TO ANY OTHER RECORDS OF THE COUNTY OF EL PASO, STATE OF COLORADO, WHICH MAY AFFECT THE RIGHTS OF THE PARTIES TO THIS PLAN.

DATE: 11/17/17
 TIME: 10:00 AM

BY: [Signature]

FOR: [Signature]



PINNACLE LAND SURVEYING, INC.			
DATE	BY	FOR	PROJECT
11/17/17	[Signature]	[Signature]	LOT 281, REATA FILING NO. 1
10220 REATA ROAD	EL PASO, CO	10220 REATA ROAD	EL PASO, CO
954-222-2727	www.pinnacleland.com	10220 REATA ROAD	EL PASO, CO