

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

**P**

On-site ID: 0N0031220 Tax schedule (APN) #: 6130002011 Permit Type: New ☐ Major ☒ Minor ☐  
Environmental Health Specialist: m. Bondi Final Inspection Date: 11/5/18 Approved: YES ☒ NO ☐

**Residential Property Information:**

Owner: Howard Danzik Address: 15790 Kingswood Dr Approved No. Bedrooms: 87  
Water supply: Municipal ☐ Well ☒ Cistern ☐ Date well installation verified: \_\_\_\_\_ GPS of Well: \_\_\_\_\_

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: .5 Limiting Layer: ☐ Groundwater ☐ Bedrock ☐

**OWTS Tank:** Capacity (gallons): 2250

**Soil Treatment Area (STA):** Sq. Ft. (10-1): 1500 Sq. Ft. (10-2): 1500 Sq. Ft. (10-3): 1050 Sq. Ft. (with Diverter Valve): \_\_\_\_\_

**Final system installation:**

Licenses Installer: Tier 1 ☐ Tier 2: ☒ Homeowner: ☐ Installer: Murray EKL

**OWTS Tank:** Construction Material: concrete Capacity (gallon): 2250 Existing ☒ New ☐

GPS Location of tank: \_\_\_\_\_

**OWTS Pump Tank:** YES ☐ NO ☐ Capacity (gallon): \_\_\_\_\_ Audio/visual Alarm: YES ☐ NO ☐

Pump (Gal/dose): \_\_\_\_\_ Dose: \_\_\_\_\_ Total Dynamic Head: \_\_\_\_\_ Elevation difference: \_\_\_\_\_

**Soil Treatment Area (STA):** GPS Location: 39.06069 -104.81662 Total Sq. Ft installed: 1056

Configuration: Trench ☒ Bed ☐ Distribution: Gravity ☒ Pump to Gravity ☐

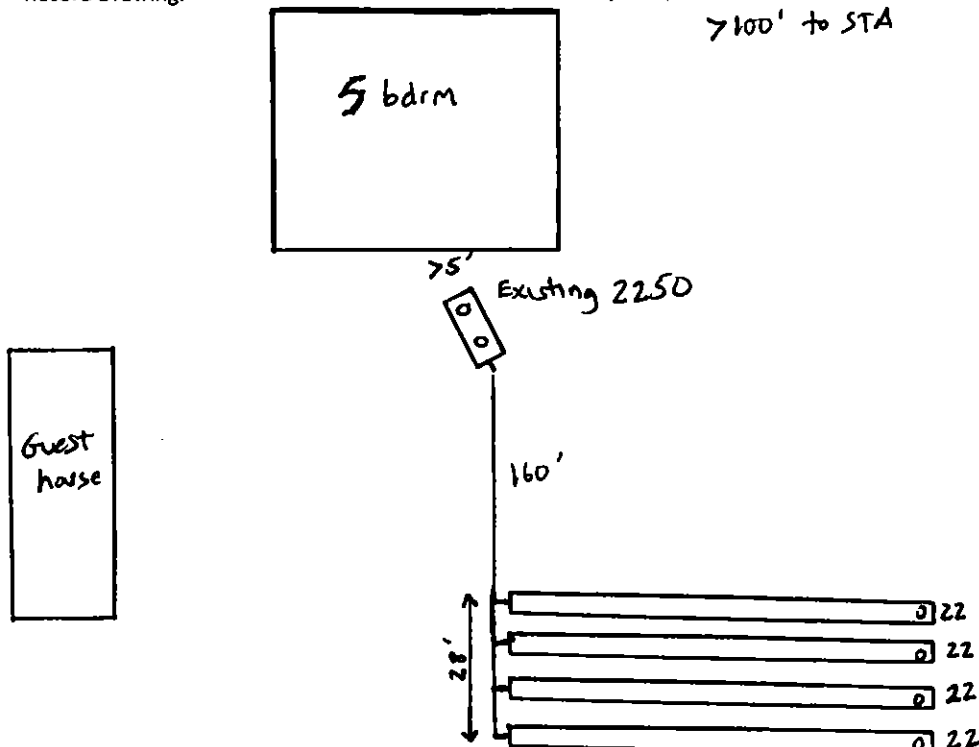
☐ Rock and Pipe: Width: \_\_\_\_\_ Total Length: \_\_\_\_\_ Installation Depth: \_\_\_\_\_

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

☒ Chambers: Type: Quick 4 Sq. Ft./chamber: 12 No. Chambers: 88 Installation Depth (range): 12-30"

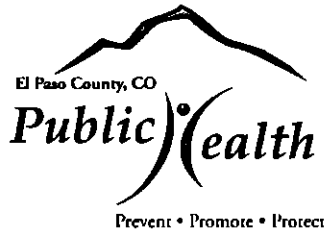
Record Drawing:

→ well  
→ >50' to tank  
→ >100' to STA



Attn: HOWARD DANZIK  
15790 KINGSWOOD DR  
COLORADO SPRINGS, CO 80921

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](http://www.elpasocountyhealth.org)

## MAJOR REPAIR PERMIT - OWTS

Valid From 11/2/2018 To 11/2/2019

PERMITEE :

HOWARD DANZIK  
15790 KINGSWOOD DR  
COLORADO SPRINGS, CO 80921

OWNER NAME :

DANZIK HOWARD L

Onsite ID: ON0031220

Tax Schedule # : 6130002011

Permit Issue Date: 11/02/2018

Dwelling Type: RESIDENTIAL

# 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 or homeowner for installation.
- System installation includes gravity fed system chamber in trenches, max installation depth of 48". Existing 2250 tank to remain and 1050 square feet of soil treatment area (88 Q4 / 70 Arc 36 chambers required).
- The system must be installed per approved design document signed and dated 11/2/18, 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.

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15790 KINGSWOOD DR  
COLORADO SPRINGS, CO 80921

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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.**



Authorized By: Environmental Health Specialist

530010497 AB0014563 ON0031220

### APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

#### Property Information:

Property Address: 15790 KINGSWOOD DR City and Zip: CS 80921

Legal Description: LOT 21 KINGSWOOD

Tax Schedule #: 6130002011 Lot size: 5.21 ACRE

Is the property gated: ☐ Yes ☒ No Please provide a gate code if necessary: N/A

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

Water Supply: ☒ Well ☐ Cistern ☐ Municipal Potential Number of Bedrooms: 7

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

#### Owner Information: ☐ Primary Contact

Owner: HOWARD DANZIK Daytime Phone: 338-1119

Owners Mailing Address: SAME

Email Address: — Fax #: —

General Contractor: — Phone/Email: —

#### OWTS Installer Information: ☒ Primary Contact

System Installer: MURRAY EXCAVATING INC Daytime Phone: 719-683-2442

Email Address: MIKE@MURRAYEXCAVATING.COM 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.

INSTALL NEW STA & DIVERTER VALVE

#### 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: 10-23-18

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Reviewed 2018 approved fee (12/04/2017)



6825 Silver Ponds Heights #101  
Colorado Springs, CO 80908  
(719) 481-4560

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**PROFILE PIT EVALUATION**

**FOR**

**MURRAY EXCAVATING**

**JOB #18-0892**

Lot #21,  
Kingswood Subdivision,  
15790 Kingswood Drive,  
El Paso County,  
Colorado

Sincerely,

  
Charles E. Milligan, P.E.  
Civil Engineer



## **PROFILE PIT FINDINGS**

Enclosed are the results of the profile pit for the septic system to be installed at **Lot #21, Kingswood Subdivision, 15790 Kingswood Drive, El Paso County, Colorado**. The location of the test pit was determined by Murray Excavating. The residence will not be on a public water system. The number of bedrooms in the design for the residence is unknown. Due to the natural slope of the property, the entire system will feed to the west at approximately 4% at least 20 feet. All applicable portions of the El Paso County Health Department Onsite Wastewater Treatment System Regulations (OWTS) must be complied with for the installation of the treatment system.

The inspection was performed on September 17, 2018, in accordance with Table 10-1 of the **E.P.C.P.H. OWTS Regulations**.

### **Soil Profile #1:**

**0 to 8"** - Topsoil- loam, organic composition.

**8" to 55"** - USDA soil texture loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, very dark brown in color, 10 YR 2/2.

**55" to 8'** - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, dark yellowish brown in color, 10 YR 4/4.

### **Soil Profile #2:**

**0 to 8"** - Topsoil- loam, organic composition.

**8" to 21"** - USDA soil texture loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, brown in color, 10 YR 4/3.

**21" to 8'** - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, yellowish brown in color, 10 YR 5/4.

No water was encountered during the inspection. Bedrock was not encountered during the inspection. No known wells were observed within 100 feet of the proposed system. **All setbacks shall conform to county regulations.**

**Due to encountering USDA soil type 2A, the septic system to be installed on this site need not be designed by a Colorado Licensed Engineer. A conventional septic system is approved for this site. Based on the observed conditions, we feel a design based on an LTAR of 0.50, GPD/SF (USDA 2A, treatment soil, treatment level 1) is reasonable. Maximum depth of the installation shall be not deeper than 4 feet below the existing grade.**

If during construction of the field itself, subsurface conditions change considerably or if the location of the proposed field changes, this office shall be notified to determine whether the conditions are adequate for the system as designed or whether a new system needs to be designed.

Weather conditions at the time of the test consisted of clear skies with hot temperatures.

# PROFILE PIT LOG - Profile Pit #1

JOB#: 18-0892  
DATE EVALUATED: 17 Sep 2018  
EQUIPMENT USED: MINI-EXCAVATOR

## 0"-8" TOPSOIL

Loam  
Organic Composition

## 8"- 55" Sand

Fine-medium Grained  
Moderate Density  
Moderate Moisture Content  
Low-moderate Clay Content  
Low Cohesion  
Low Plasticity  
Very Dark Brown Color  
10YR 2/2

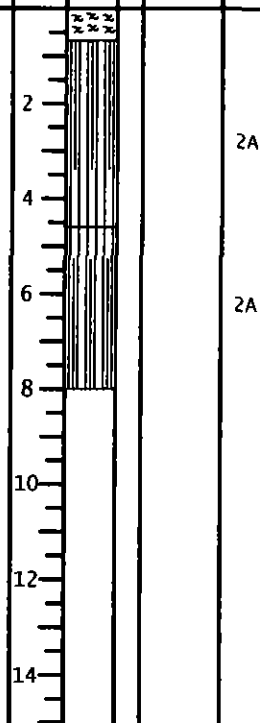
USDA Soil Texture: Loam  
USDA Soil Type: 2A  
USDA Structure Shape: Granular  
USDA Structure Grade: 1  
Cementation Class: Non-cemented  
Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50

## 55"- 8' Sand

Fine-coarse Grained  
Moderate Density  
Low-moderate Moisture Content  
Low-moderate Clay Content  
Low Cohesion  
Low Plasticity  
Dark Yellowish Brown Color  
10YR 4/4

USDA Soil Texture: Sandy Loam  
USDA Soil Type: 2A  
USDA Structure Shape: Granular  
USDA Structure Grade: 1  
Cementation Class: Non-cemented  
Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50

DEPTH (in ft.)  
SYMBOL  
SAMPLES  
WATER %  
SOIL TYPE



LTAR to be Used for OWTS Sizing: **0.50GPD/SF (USDA Type 2A, Treatment soil, Treatment Level 1)**  
Depth to Groundwater (Permanent or Seasonal): Not Encountered  
Depth to Bedrock and Type: Not Encountered  
Depth to Proposed Infiltrative Surface from Ground Surface: Unknown (Maximum 4 ft Below Existing Ground Surface)  
Soil Treatment Area Slope and Direction: West @ 4%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 18-0892

Sheet: 1 of 2

Date: 24 Sep 2018

Scale: 1/4" = 1'

Drawn by: tjh

Checked by: cem

## Project Name and Address

### Murray Excavating

15790 Kingswood Dr  
Lot 21  
Kingswood Subdivision  
Sch. No. 6130002011  
El Paso County, Colorado

## GEOQUEST, LLC.

6825 SILVER PONDS HEIGHTS  
SUITE 101  
COLORADO SPRINGS, CO  
80908

OFFICE: (719) 481-4560  
FAX: (719) 481-9204



# PROFILE PIT LOG - Profile Pit #2

JOB#: 18-0892  
DATE EVALUATED: 17 Sep 2018  
EQUIPMENT USED: MINI-EXCAVATOR

## 0"-8" TOPSOIL

Loam  
Organic Composition

## 8"- 21" Sand

Fine-medium Grained  
Moderate Density  
Moderate Moisture Content  
Low-moderate Clay Content  
Low Cohesion  
Low Plasticity  
Brown Color  
10YR 4/3

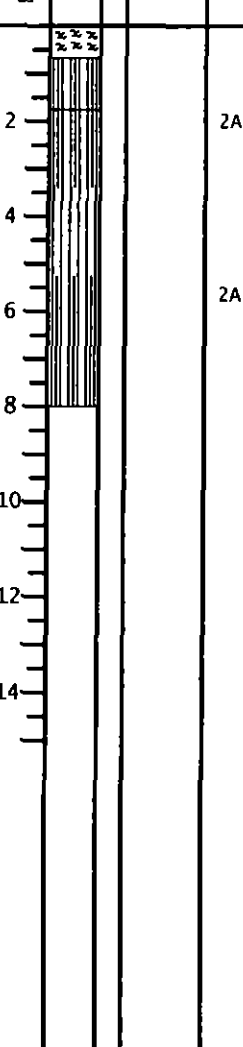
USDA Soil Texture: Loam  
USDA Soil Type: 2A  
USDA Structure Shape: Granular  
USDA Structure Grade: 1  
Cementation Class: Non-cemented  
Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50

## 21"- 8' Sand

Fine-coarse Grained  
Moderate Density  
Low-moderate Moisture Content  
Low-moderate Clay Content  
Low Cohesion  
Low Plasticity  
Yellowish Brown Color  
10YR 5/4

USDA Soil Texture: Sandy Loam  
USDA Soil Type: 2A  
USDA Structure Shape: Granular  
USDA Structure Grade: 1  
Cementation Class: Non-cemented  
Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50

DEPTH (in ft.)  
SYMBOL  
SAMPLES  
WATER %  
SOIL TYPE



LTAR to be Used for OWTS Sizing: 0.50GPD/SF (USDA Type 2A, Treatment soil, Treatment Level 1)  
Depth to Groundwater (Permanent or Seasonal): Not Encountered  
Depth to Bedrock and Type: Not Encountered  
Depth to Proposed Infiltrative Surface from Ground Surface: Unknown (Maximum 4 ft Below Existing Ground Surface)  
Soil Treatment Area Slope and Direction: West @ 4%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 18-0892

Sheet: 2 of 2

Date: 24 Sep 2018

Scale: 1/4" = 1'

Drawn by: tjh

Checked by: cem

## Project Name and Address

### Murray Excavating

15790 Kingswood Dr  
Lot 21  
Kingswood Subdivision  
Sch. No. 6130002011  
El Paso County, Colorado

## GEOQUEST, LLC.

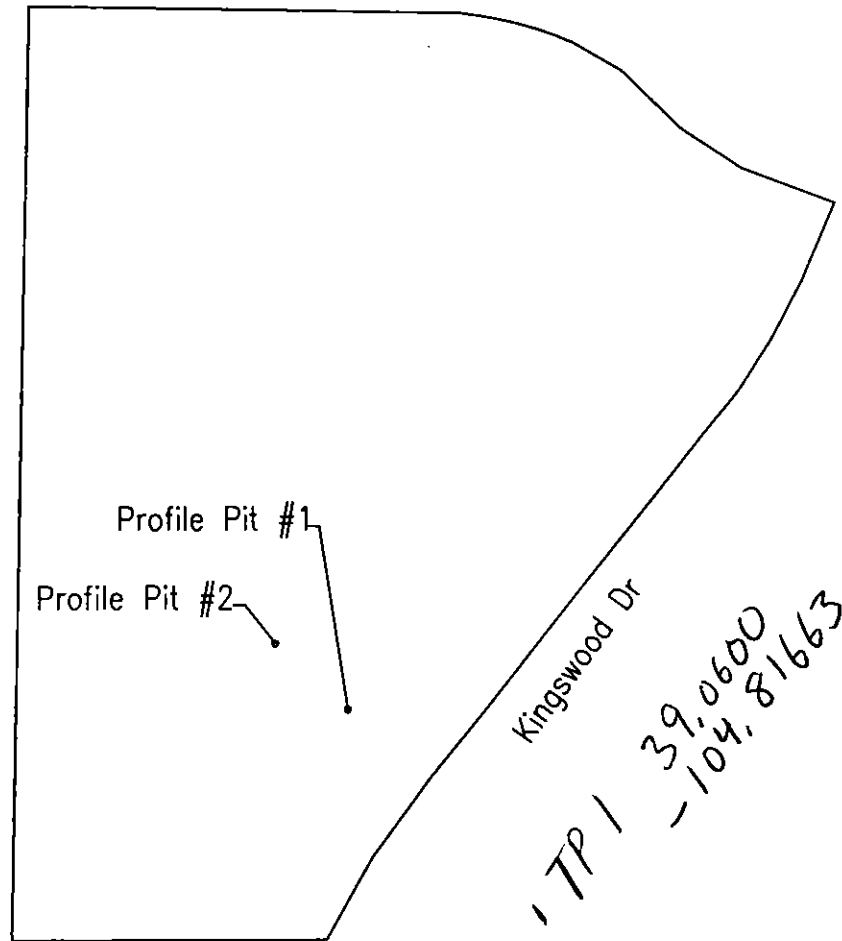
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80908

OFFICE: (719) 481-4560  
FAX: (719) 481-9204

GEOQUEST LLC

**SITE MAP**

Lot 21  
Kingswood  
15790 Kingswood Dr  
El Paso County  
Colorado  
Job #18-0892



Location from Southeast Lot Corner to Profile Pit #1:

N. 5° E. - 148'

Location from Profile Pit #1 to Profile Pit #2:

N. 47° W. - 63'

GPS Coordinates:

Pit 1; N. 39° 03' 38.12" W. 104° 48' 59.72"

Pit 2; N. 39° 03' 38.55" W. 104° 49' 00.33"



0 25 50 75 100 125  
GRAPHIC SCALE IN FEET  
SCALE: 1" = 125'

HOUSE

E

WELL

ON 0031220  
6130002011  
Final 11/5/8

DRIVE

↑  
NORTH

EXISTING  
2250 TANK  
PERMIT  
8-9-13

6.0'

67'

20'

20'  
SEN 40

DRIVE

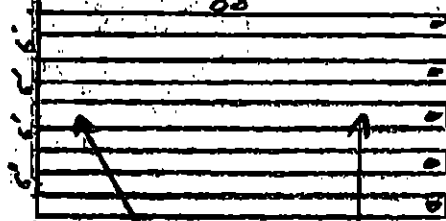
15790 KINGSWOOD DR

MURRAY EXCAVATING, INC.  
6050 N. ELLICOTT HWY.  
CALHAN, CO 80808  
719-683-2442

15790 KINGSWOOD DR

120'

88'



SOIL PROFILE

NEW STA

4 ROWS 22 Q4+ = 88 Q4+

$$\frac{750}{.50} = 1500 \times .7 = 1050 \div .2 = 88 Q4+$$

SCALE 1" = 40'

Revised

MB

11/2/18