

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION FORM

ON-SITE ID: ON0039950 P

APN # 4402000011

DATE: 11/1/2017

APPROVED YES ☒ NO ☐

Environmental Health Specialist: Neil Mayes

Address: 2350 Slocum Rd

Owner: Rafael Liviano

Residence: ☒ #Bedrooms: 3 Commercial: ☐ System Installer: Murray Excavating, Inc

SEPTIC TANK: Construction Material Concrete Capacity Gallon 1000

SOIL TREATMENT AREA:

Trench: Depth (Range): _____ Width: _____ Total Length: _____ Sq. Ft.: _____

Bed: Depth (Range): _____ Width: _____ Total Length: _____ Sq. Ft.: _____

Depth of Rock: _____ Under PVC: _____ Type of cover on Rock: _____

SEEPAGE PITS: # of Pits: _____ Working Depth #1: _____ #2: _____ Size (L x W) #1 _____ #2 _____ Total Sq. Ft. _____

CHAMBER SYSTEMS:

Type of Chamber: Quick 4' 90 #Chambers: 44 Sq. Ft./Chamber: 12 Bed: ☐ Trench: ☒ Depth (Range): 31"-36"

Sq. Ft. Required (10-1): 750 Sq. Ft. Required (10-2): 750 Sq. Ft. Required (10-3): 525 Sq. Ft. Required for Diverter Valve: _____

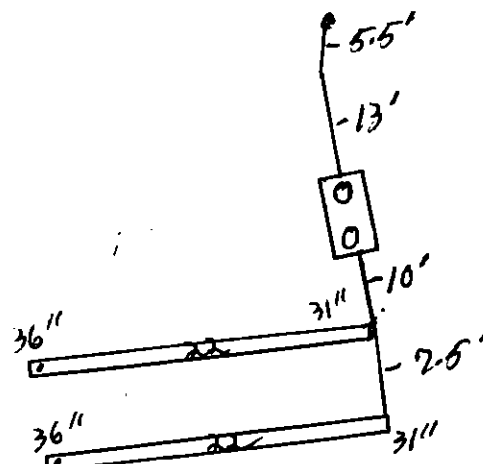
Sq. Ft. Installed: 528 Gravity Fed

Engineer Design: Y ☐ N ☒ Engineering Firm: _____ Approval Letter Provided: Y ☐ N ☐

Well installed at time of OWTS inspection: Y ☒ N ☐ Public Water: Y ☐ N ☐

*Approval will be revoked if in the future the well is found to be within 50 feet of the septic tank and/or 100 feet of the soil treatment area.

Notes:



Slocum Rd

Attn: RAFAEL LIRVANO
2350 SLOCUM RD
COLORADO SPRINGS, CO
80908-3341

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

MAJOR REPAIR PERMIT - OWTS

Valid From 8/30/2017 To 8/30/2018

PERMITEE :

RAFAEL LIRVANO
2350 SLOCUM RD
COLORADO SPRINGS, CO 80908-3341

Onsite ID: ON0039950

Tax Schedule #: 4402000011

Permit Issue Date: 08/30/2017

Dwelling Type: RESIDENTIAL

of Bedrooms (if Res): 3

Proposed Use (if Comm):

Designed Gallons/Day:

Water Source: PRIVATE WELL

OWNER NAME :

RAFAEL LIRVANO

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 chamber in trenches. Minimum tank requirements 1000 gallon and 525 sq ft of soil treatment area (44 Q4 / 35 Arc 36 chambers required).
 - The system must be installed per approved signed and dated 8.28.17, changes to the approved design document must be submitted and approved by Public Health prior to installation.
 - All horizontal setbacks must be maintained throughout system installation
 - System must remain completely uncovered, including the tank size, for final inspection.
 - 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

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 8:30 a.m. of the day that the inspection is requested
Weekends & Holidays excluded.

Bex Peters, R.S.

El Paso County, CO

Public Health

Prevent • Promote • Protect

Environmental Health Division

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

57000 7694 AR001930 ON0039950

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT**Property Information:**Property Address: 2350 SLOCUM RD City and Zip: PEYTON 80831Legal Description: S2, S2, NE4, NE4 EXC G72.85 FT S2-14-64Tax Schedule #: 4402000011 Lot size: 5.124Is the property gated: ☐ Yes ☒ No Please provide a gate code if necessary: Site Located Inside City Limits: ☐ Yes ☒ No Proposed Use: ☒ Residential ☐ CommercialWater Supply: ☒ Well ☐ Cistern ☐ Municipal Potential Number of Bedrooms: 3Has a Conditional Acceptance Document been issued for this property: ☐ Yes ☐ No ☒ Unsure**Owner Information:** ☐ Primary ContactOwner: RAFAEL LIRIANO Daytime Phone: 970 376-2000Owners Mailing Address: 315 S. RACE ST FOUNTAIN CO 80817Email Address: Fax #: General Contractor: Phone/Email: **OWTS Installer Information:** ☒ Primary ContactSystem Installer: MURRAY EXCAVATING INC Daytime Phone: 719-683-2442Email Address: MIKE@MURRAYEXCAVATING.COM Licensed installer: ☐ Tier 1 ☒ Tier 2All engineer-design system 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: \$685.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$855.00☒ Major Repair Permit: \$525.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$548.00☐ Minor Repair Permit: \$240.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$263.00

Permits expire one year from date of issuance

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

REPLACE EXISTING SEPTIC SYSTEM**Please include the following documents 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.

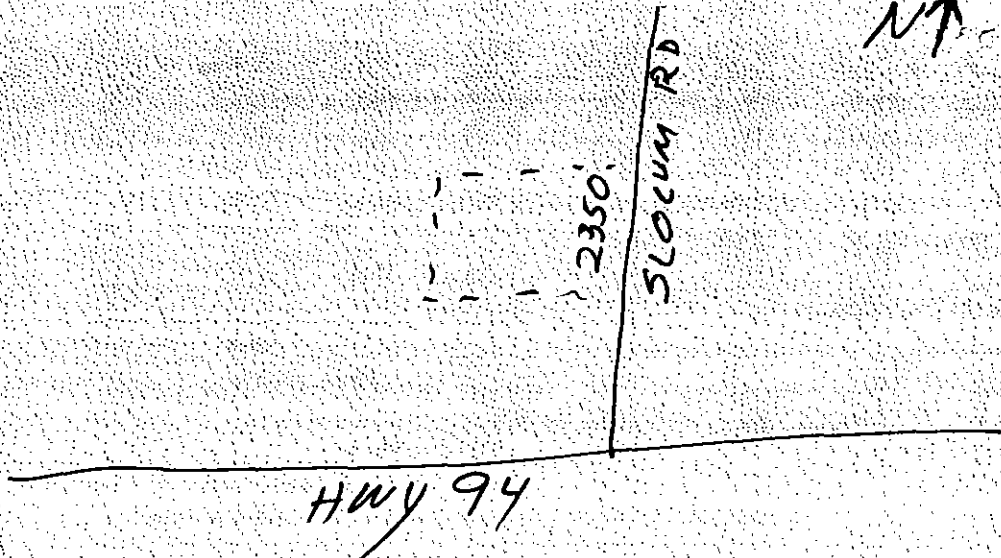
I certify that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the Onsite Wastewater System (OWS) Regulations of the El Paso County Board of Health. I also authorize the assigned representative of El Paso County Public Health to enter onto this property in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

Applicants Signature: *[Signature]*Date: 8-16-17

Reviewed 2016 approved fee (12/30/2015)

Malt

- 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
- Please provide directions to the property from a main highway, by text or picture, below

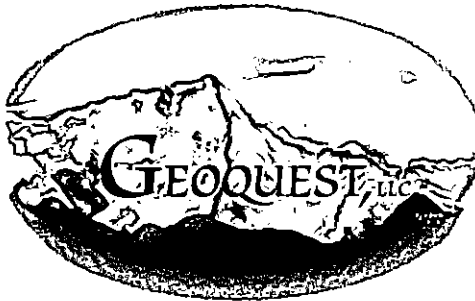


Failure to comply with the above information may result in an additional charge for a return trip.

Permit #: <u>ON0039950</u>	Site Inspection date: <u>8/17/17</u>
Date Approvals Rcvd: Development Services: <u>NA</u>	Floodplain/enumerations: <u>NA</u>
Design: <input checked="" type="checkbox"/> Conventional <input type="checkbox"/> Engineer	Design Engineer: <u>N/A</u>
Engineer Job #: <u>N/A</u>	Engineer Date Stamped: <u>8/28/17</u>
LTAR/Soil Type: <u>0.6e 1st type 2</u>	Groundwater: <u>N/A</u> Bedrock: <u>N/A</u>
Minimum Requirements: Tank Capacity: <u>1000</u>	Soil Treatment area: <u>525</u>
System Feed: <input checked="" type="checkbox"/> Gravity <input type="checkbox"/> Pump to Gravity <input type="checkbox"/> Pressure Dosed <input type="checkbox"/> Other:	
System Media: <input checked="" type="checkbox"/> Chambers <input type="checkbox"/> Rock and Pipe <input type="checkbox"/> Other	System Layout: <input checked="" type="checkbox"/> Trenches <input type="checkbox"/> Bed
Additional Comments: <u>450/0.60 = 750(1.0) = 750(0.7) = 525 (44 24/35)</u> <u>ARC 36</u>	
E.H. Specialist: <u>Bepo Rtn</u>	Date: <u>8/28/17</u> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied

8/29/17

Reviewed 2016 approved fee (12/30/2015)



E ON0039950
4402000011
11/1/2017

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

PROFILE PIT EVALUATION

FOR

MURRAY EXCAVATING

JOB #17-0616

2350 Slocum Road,
El Paso County,
Colorado

Respectfully submitted,

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 **2350 Slocum Road, 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 east 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 July 12, 2017, in accordance with Table 10-1 of the **E.P.C.P.H. OWTS Regulations**.

Soil Profile #1:

- 0 to 6" - Topsoil- loam, organic composition.
- 6" to 8' - USDA soil texture sandy loam, soil type 2, structure shape granular, structure grade 2, non-cemented, LTAR 0.60, yellowish brown in color, 10 YR 5/4.

Soil Profile #2:

- 0 to 6" - Topsoil- loam, organic composition.
- 6" to 8' - USDA soil texture sandy loam, soil type 2, structure shape granular, structure grade 2, non-cemented, LTAR 0.60, dark yellowish brown in color, 10 YR 4/4.

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 2, 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 0.60, GPD/SF (USDA 2, treatment soil, treatment level 1) is reasonable. Maximum depth of the installation shall be not deeper than 4 feet below 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 partly cloudy skies with hot temperatures.

[Handwritten signature]
[Handwritten initials]
8/28/17

PROFILE PIT LOG - Profile Pit #1

JOB#: 17-0616
DATE EVALUATED: 12 Jul 2017
EQUIPMENT USED: MINI-EXCAVATOR

0"-6" TOPSOIL

Loam
Organic Composition

6"- 8' Sand

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

USDA Soil Texture: Sandy Loam
USDA Soil Type: 2
USDA Structure Shape: Granular
USDA Structure Grade: 2
Cementation Class: Non-Cemented
Long Term Acceptance Rate (LTAR, Treatment Level 1):0.60

DEPTH (in ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
0	2 2 2			
2				
4				2
6				
8				
10				
12				
14				

LTAR to be Used for OWTS Sizing: 0.60GPD/SF (USDA Type 2, 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: East @ 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: 17-0616

Sheet: 1 of 2

Date: 19 Jul 2017

Scale: 1/4" = 1'

Drawn by: mtj

Checked by: cem

Project Name and Address

Murray Excavating

2350 Slocum Rd
Sch. No. 4402000011
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#: 17-0616
DATE EVALUATED: 12 Jul 2017
EQUIPMENT USED: MINI-EXCAVATOR

0"-6" TOPSOIL

Loam
Organic Composition

6"- 8' Sand

Fine-coarse Grained
Low-moderate Density
Low 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: 2
USDA Structure Shape: Granular
USDA Structure Grade: 2
Cementation Class: Non-Cemented
Long Term Acceptance Rate (LTAR, Treatment Level 1):0.60

DEPTH (in ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
0				
2				
4				2
6				
8				
10				
12				
14				

LTAR to be Used for OWTS Sizing: 0.60GPD/SF (USDA Type 2, 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: East @ 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: 17-0616	Project Name and Address
Sheet: 2 of 2	
Date: 19 Jul 2017	Murray Excavating
	2350 Slocum Rd
	Sch. No. 4402000011
Scale: 1/4" = 1'	El Paso County, Colorado
Drawn by: mtj	
Checked by: cem	

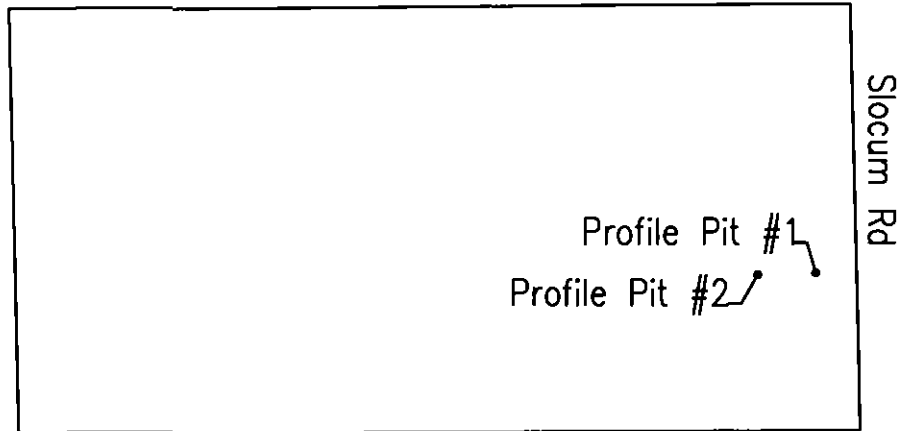
GEOQUEST, LLC.

6825 SILVER PONDS HEIGHTS
SUITE 101
COLORADO SPRINGS, CO
80908

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

GEOQUEST LLC
SITE MAP

2350 Slocum Rd
El Paso County,
Colorado,
Job #17-0616



Location from Southeast Lot Corner to Profile Pit #1:

N. 16° W. ~ 126'

Location From Profile Pit #2 to Profile Pit #2;

S. 88° W. ~ 45'

GPS Coordinates:

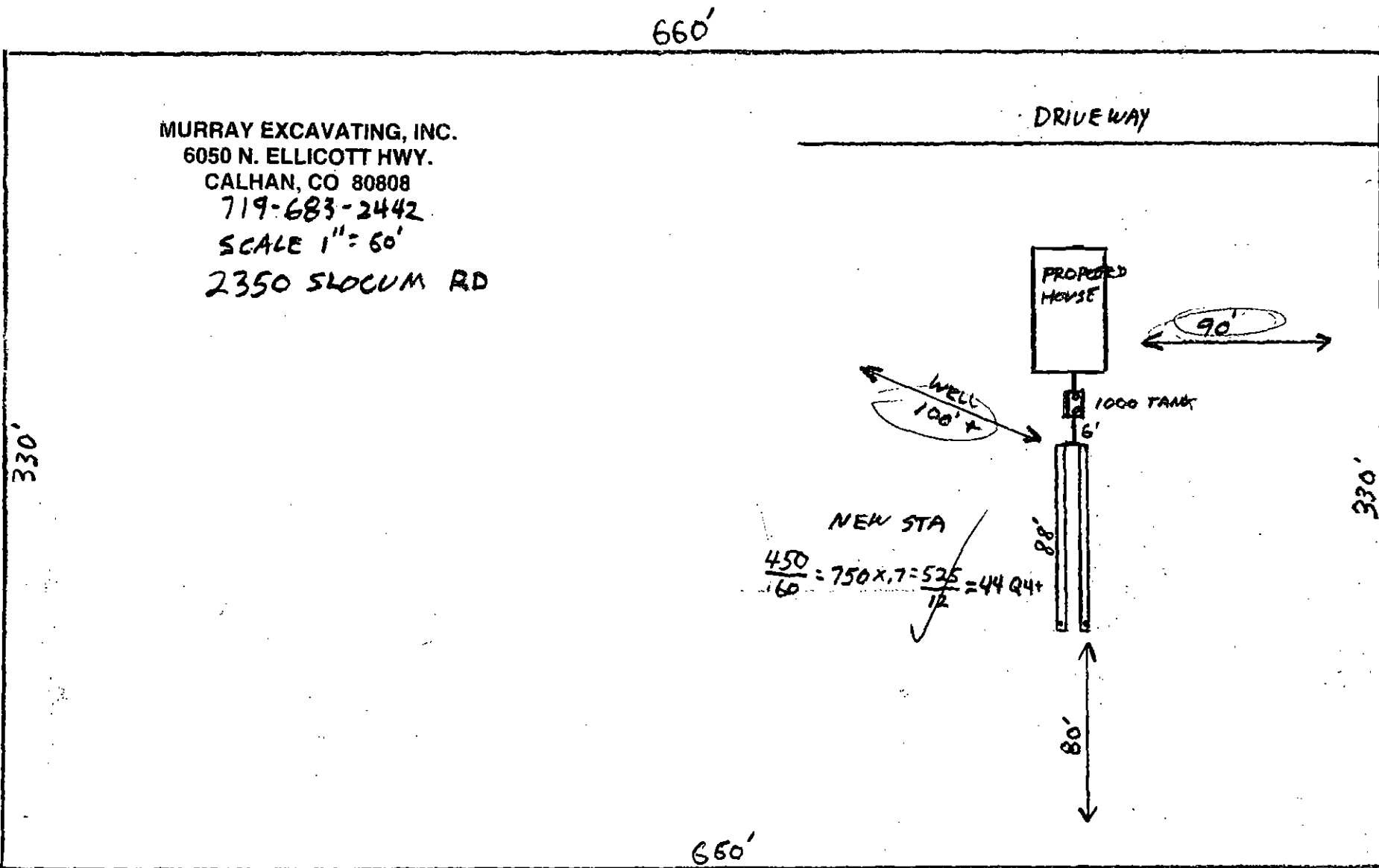
Pit 1; N. 38° 51' 51.41" W. 104° 31' 02.16"

Pit 1; N. 38° 51' 51.45" W. 104° 31' 02.10"



0 50 100 150
GRAPHIC SCALE IN FEET
SCALE: 1" = 150'

MURRAY EXCAVATING, INC.
 6050 N. ELLICOTT HWY.
 CALHAN, CO 80808
 719-683-2442
 SCALE 1" = 60'
 2350 SLOCUM RD



PL 09/17
 by B/28/17

2350 SLOCUM RD