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1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 575-8664 fax www.elpasocountyhealth.org

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

On-site ID: 0N0020008

Tax schedule(APN) #: 4207004013

Permit Type: Major repair

Environmental Health Specialist: Kevin Bolinsky (BEX Petro) Final Inspection Date: 06.14.2018

Approved: Yes

Residential Property Information:

Owner: Thornton Jeffrey N SR

Address: 12730 Halleluiah Trl Elbert, CO 80106

Approved No. Bedrooms: 4

Water supply: Well

Well Installation verified: Yes

Well Location GPS: Over 50' to Tank

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 (in-situ) Type: 1

LTAR (In-situ soil): 0.8

Limiting Layer:

Groundwater: None

Bedrock: 78"

OWTS Tank:

Capacity (gallons): 1250

OWTS Pump Tank: Capacity (gallons): N/A

Soil Treatment Area (STA): Sq. Ft. (10-1): 656

Sq. Ft. (10-2): 656

Sq. Ft. (10-3): 460

Sq. Ft. (with Diverter Valve): NA

Final system installation:

Licensesd Installer: Tier II

Installer: Bugenhagen Excavating

Treatment Level: 1

OWTS Tank: GPS Location: N/A

Tank Type: Existing Concrete

Capacity (gallon): 1250

OWTS Pump Tank:

Tank Type: NA

Capacity (gallon): N/A

Audio/Visual Alarm: NA

OWTS Pump: N/A

Soil Treatment Area (STA):

GPS Location: 39° 1' 4" N, 104° 35' 28" W

Configuration: Trench Distribution Media: Chambers Distribution Area Length: 70'

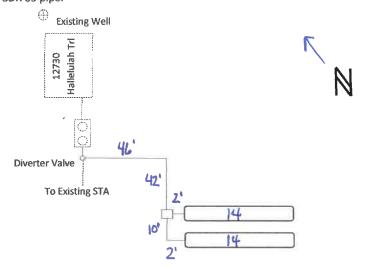
Media Type: Arc 36 Chambers (15 sq/ft)

Total Sq. Ft installed: 420 **Distribution:** Gravity

Inflitrative Surface Depth: 24" Distribution Area Width: N/A

Total installed: 28

Notes: Not to scale, SDR 35 pipe.



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: THORNTON JEFFREY N SR 12730 HALLELUIAH TRL ELBERT, CO 80106-9015



EL PASO COUNTY PUBLIC HEALTH ENVIRONMENTAL HEALTH DIVISION

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MAJOR REPAIR PERMIT - OWTS

Valid From 6/7/2018 To 6/7/2019

PERMITEE:

THORNTON JEFFREY N SR 12730 HALLELUIAH TRL ELBERT, CO 80106-9015

OWNER NAME:

THORNTON JEFFREY N SR

Onsite ID: ON0020008
Tax Schedule #: 4207004013

Permit Issue Date: 06/07/2018

Dwelling Type: RESIDENTIAL

of Bedrooms (if Res): 4
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.
- New STA is sized as a stand alone system, but a diverter valve might be installed.
- System installation includes gravity fed system with (possible) diverter valve to chambers in trenches, max installation depth of 2' 6" due to type 4 soil at 6' 6".
- Minimum tank requirement of 1250 gallons and 460 sq ft of soil treatment area (39 Q4 / 31 Arc 36 chambers required).
- The system must be installed per approved design document signed and dated 6.6.2018, 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.

Contreas

Attn: THORNTON JEFFREY N SR 12730 HALLELUIAH TRL ELBERT, CO 80106-9015 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.



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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





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APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

Property Information:	~./ /
Property Address: 12730 Hallelich tool.	City and Zip: Ekelt 801-6
Legal Description:	
	Lot size: 5 Acres
Is the property gated: Yes No Please provide a gate code	e if necessary:
Site Located Inside City Limits: Yes No Proposed U	se: ⊠Residential □Commercial
Water Supply: Well Cistern Municipal Potential N	
Has a Conditional Acceptance Document been issued for this proper	ty: 🗆 Yes 🖾 No 🗀 Unsure
Owner Information: Primary Contact	
Owner: Jeff Thornton Daytime Phon	ne:
Owners Mailing Address:	
Email Address:	Fax #:
	one/Email:
OWTS Installer Information: Primary Contact	2-
System Installer: Bugerhore Excavative Daytime Phon	e: 719 355-0082
System Installer: Bigerhoje Excavating Daytime Phone Email Address: The Septics Pecial Sto Gmail. Com Li	censed installer: 🔲 Tier 1 🔀 Tier 2
All engineer-design systems must be installed by a l	Fier 2 licensed installer
All payments are due at the time of application submittal; by cash, checonomic New Permit: \$750.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) Major Repair Permit: \$535.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = 100 (Minor Repair Permit) \$245.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = 100 (CDPHE	e) + \$23.00 (CDPHE Surcharge) = \$ 920.00 \$ 558.00 \$ 268.00
REQUIRED: Provide a complete written scope of work to be Install new STA with Overler to ald field designed to be stand alone system. Add 372 at 16 in each low. next install depth is 7	I POSSILE, NEW STA
 The following documents MUST be included with your accordance. A soils report: including at least 1 soil profile excavation pit, in accordance. A clear and legible design document: including the proposed and alternate least setbacks to pertinent structures and features in table 7-1. Provide directions to property, from a main highway, on the back side of appropriate to provide the above listed documents may result in denice. 	with section 8.5 A-F of OWTS regulations occations, as well as system layout, labeled with plication.
I certify that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the Paso County Board of Health. I also authorize the assigned approximative of El Paso County Public Health to necessary for the issuance of a permit. Applicant Signature:	On-site Wastewater System (OWS) Regulations of the El o enter onto this property in order to obtain information Date:

 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 Wasdner Rd. North on Mesidian East on Latino Blvd.
Failure to comply with the above information may result in an additional charge for a return trip.
Permit #: Site Inspection date:
Date Approvals Rcvd: Development Services: Floodplain/enumerations:
Design: Conventional
Additional Comments: System Specials Stand along Druste value might be metalled \$25/0.8=656(10)=656(0.7)=460, 460/17=39 Gy or 460/15=31 Az 36 Type 4 soul (agree of G'(e'') Max mstall death of 21(e'') E.H. Specialist: Like Glex Date: 6-10-18 Approved Denied



PARR ENGINEERING & CONSULTING, INC.

Christopher L. Parr, P.E. Principal

11590 Black Forest Road, Suite 10, Colorado Springs, CO 80908

Office: 719-494-0404 Cell: 719-659-1313

STA SOIL EVALUATION

Date:

May 31, 2018

Job:

JN: 18,233

Site

12730 Halleluiah Trail

Location:

Elbert, CO 80106

Purpose of Investigation: To determine general subsurface soil conditions at the site location & to formulate design criteria for the proposed Oπ-Site Wastewater Treatment

system (OWTS)

<u>Field</u>

The materials in the various strata of the soil profile pit were visually classified in accordance with the U.S. Department of Agriculture (USDA)

Procedure:

standards.

270 E 21 A 2	Yes	

Date: (Profile Eval)

May 25, 2018

Excavator Evaluator

P.Bugenhagen S.Dunfee

Depth to Groundwater (permanent or seasonal) Pit #1:

Not Reached

Depth to Groundwater (permanent or seasonal) Pit #2:

Not Reached

Depth to Bedrock - Pit #1: Depth to Bedrock - Pit #2: Not Reached Not Reached

Other Terrain Features or Soil Conditions: See Attached Site Map

Endorsement:

Daniel J. Mizicko P.E.

6'-6" - 8'-6"	Type 4 (0.20)
0'-6" - 6'-6"	Type 1 (0.80)
0 - 0'-6"	Topsoil
	March Control of the
	AND STATE OF THE S
Selling States	According to November 1970

0 - 0'-6"	Z AFET NA:
0'-6" - 6'-6"	Type 1 (0.80)
6'-6" - 8'	Type 4 (0.20)
	-

	Average:	N/A	Min./In.		
Perc #3	N/A		Min./In.		
Perc #2	N/A		Min./ln.		
Perc #1	N/A		Min./ln.	-	-

Recommendations:

(1) An Engineered On-Site Wastewater Treatment system (OWTS) is required for this location due to: (a) Soil Type 4 identified in the treatment zones of Profile Plt #1 & Profile Pit #2.

		L
Ex	cavat	0
	aaod	D

Parr Engineering & Consulting, Inc. 11590 Black Forest Road, Suite 10 Colorado Springs, Colorado 80908 Phone: 719-494-0404

Profile Pit - Log	
Job Number:	18.233
Date Evaluated:	05/25/18
Profile Pit#:	Pit #1

	1110	110. 717 474 010			Total Tital			
Excava		P.Buge	nhagen		Total Depth:			8'-6"
Logged	By:	S.Du	unfee		STA Slope & Direct	tion:	Ge	nerally Flat
Metho		Prof	ile Pit		Latitude:		3	9° 1'4.37"N
Equipn		Bac	khoe		Longitude:		104°3	35'27.66"W
-4								
	ŕval			12730	Halleluiah Trail, 8	0106		
Depth (ft.)	Sample Interval	USDA Soil Texture	USDA Soil Structure - Shape	Soil Structure Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9 in O-14)	% Rock Frag.	Color
					Topsoil			
					ТОРЗОП			
4		Sand		Single Grain	No	Type 1 (LTAR = 0.80) Treatment Level 1	<35%	10YR 5/3 (MOIST)
8		Sandy Clay	Granular	Strong	No	Type 4 (LTAR = 0.20) Treatment Level 1	<35%	2.5Y 5/4 (MOIST)
		Total Depth :	= 8'-6"					
10								
	ice of G	roundwater:		Not Reache	d			
Depth to Bedrock:				Not Reacher				
Тори								
Additio	onal Not	es:						

Logged Metho	11590 Black Forest Road, Suite 10 Date Evaluated: 05/ Profile Pit#:				18.23: 05/25/1: Pit #: 8'-0 enerally Fla 9° 1'3.96"r 35'27.17"W			
	rval			12730	Halleluiah Trail, 8	0106		
Depth (ft.)	Sample Interval	USDA Soil Texture	USDA Soil Structure - Shape	Soil Structure Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9 in O-14)	% Rock Frag.	Color
	Topsoil							
4		Sand		Single Grain	No	Type 1 (LTAR = 0.80) Treatment Level 1	<35%	10YR 5/3 (MOIST)
8		Sandy Clay Total Depth =	Granular = 8'-0"	Strong	No	Type 4 (LTAR = 0.20)	<35%	2.5Y 5/4 (MOIST)
10								
	100000	roundwater:		Not Reache				
Depth	to Bedre	ock:		Not Reache	d			

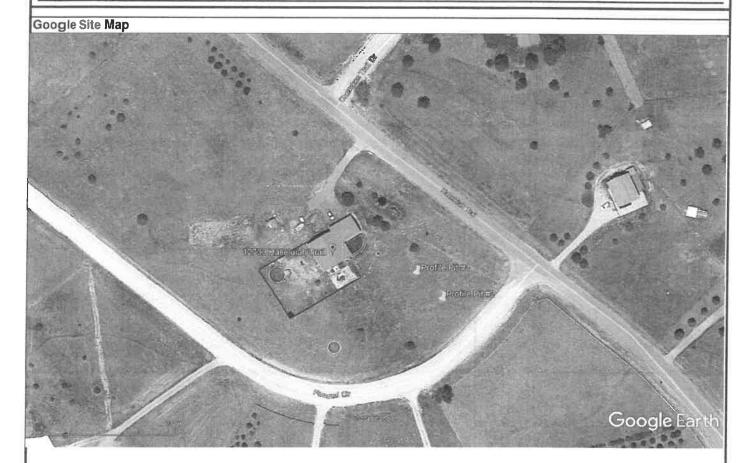
Additional Notes:

6-6-18

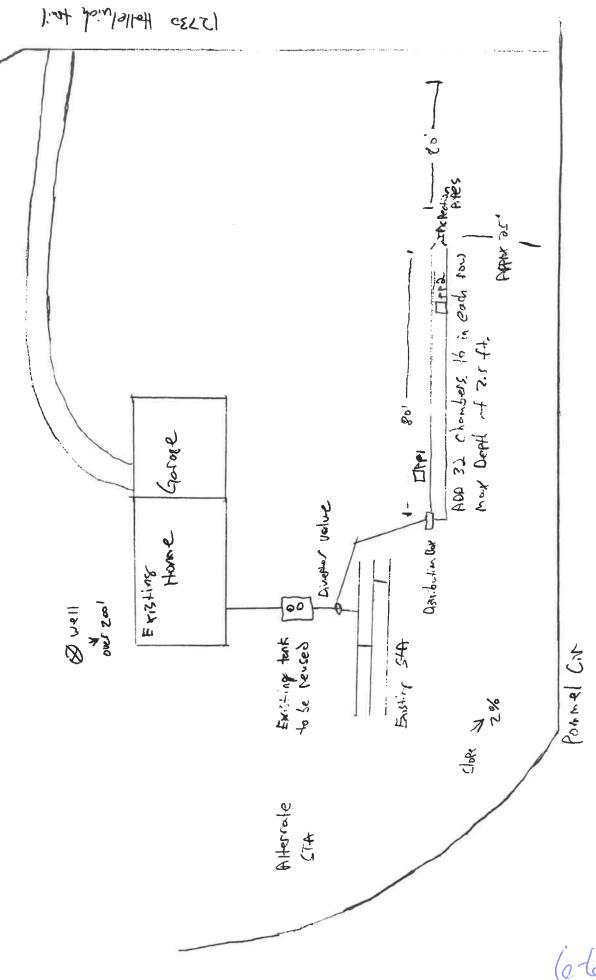
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CONVENTIONAL (NON-ENGINEERED) ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) DESIGN WORKSHEET (MUST BE COMPLETED FOR ALL CONVENTIONAL DESIGNS)

Wastewater Flow	
Total number of bedrooms:	_4
Design wastewater flow (gallons/day) from Table 6-1:	575
Septic Tank	
Septic tank size (in gallons) from Table 9-1:	1250 Existing
Tank burial depth (from top of tank, in inches) (NOTE: Shall not exceed 48 inch depth by regulation)	Yes No
Will groundwater affect tank?	
Will an effluent screen be installed? (Note: Effluent screens are required for all new systems or rep	Yes No Cl & Clacement of the septic tank)
Soil Treatment Area (STA)	0
Long Term Acceptance Rate (LTAR) From Table 10-1: Unadjusted STA size (see 8.10.C.4) – show calculation: Design flow (gallons per day) LTAR (gallons/day/sq.ft.) =	525÷.8 = 656.25 656.25 59 FA
Depth of STA (cannot exceed 48"):	
	hes are preferred. If bed system is selected,
the selection reason must be specified:	
Type of STA (check which applies): Trench D Bed	FOR REPAIRS ONLY (check which applies): Wide Bed (more than 12 feet wide) Deep Gravel Trenches Seepage Pit None of the Above

Other type
v calculation, with adjustment factors utilized): (chambers)= 459.375 460÷15=30.6=32
of 16 each
ent (see attached example design documents), showing: e STA configuration (trench, bed, etc.) ped(s) and distances to all applicable physical features in Table 7-1 aions relative to a designated benchmark) accavation(s), or percolation test holes, if required slope leted by a professional in the OWTS industry. EPCPH does not any questions.
e, compaction, or other damage by staking, fencing, posting or
Regenoper Excavating Company Name 11555 oil well RD. Collar Borok Address 719 355-0082 Phone Heseptic Degial, Ste Gmail. Com

(See attached Tables and Design Document examples)