



100223000-2021



Becker County Planning & Zoning  
 915 Lake Ave  
 Detroit Lakes, MN 56501  
 (218) 846-7314  
 www.co.becker.mn.us

## Certificate of Compliance

### Inspection Report - Permit #: SS2021-1265

#### Owner & Property Information

<b>Owner Name:</b>	RACHEL L & CHRISTOPHER M LERUM	<b>Site Address:</b>	20702 CO HWY 29
<b>Mailing Address:</b>	RACHEL L & CHRISTOPHER M LERUM 125 IRONWOOD DR HORACE ND 58047	<b>Township - Sec/Twp/Rng:</b>	ERIE - 12/139/040
<b>Parcel #:</b>	100223000	<b>Legal Description:</b>	PT LOT 4 BEG 335' S OF NE COR TH S AL RD 48' TO BEG TH NW 182' TO LK SW 150' AL LK SE 182' TO RD & NE 150' AL RD TO BEG
<b>Secondary Parcel #:</b>		<b>Designer:</b>	Dewey's Septic Service LLC, L2884 (Timothy Smith)
		<b>Installer:</b>	Dewey's Septic Service LLC, L2884 (Timothy Smith)

#### Inspector Verified Specifications

<b>Insp- Effluent Screen Installed:</b>	Yes	<b>Insp- Tank Nbr/Size:</b>	2/1600 & 1600/2
<b>Insp- Alarm Required:</b>	Yes	<b>Insp- Drainfield Type:</b>	Pressure Bed
<b>Insp- Lift Pump in System:</b>	Yes	<b>Insp- Drainfield Size:</b>	21' X 25' =525 square feet
<b>Insp- Number of Bedrooms:</b>	4	<b>Insp- Soil Verification:</b>	#1:attached #2:N/A #3:N/A

#### Inspector Verified Setbacks

<b>Insp- Tank Dist to Road</b>	50+	<b>Insp- Drainfield Dist to Road</b>	10+
<b>Insp- Tank Dist to Nearest Prop Line</b>	10	<b>Insp- Drainfield Dist to Nearest Prop Line</b>	20+
<b>Insp- Tank Dist to Nearest Structure</b>	10	<b>Insp- Drainfield Dist to Nearest Structure</b>	15 - best location
<b>Insp- Tank Dist to Well</b>	70+	<b>Insp- Drainfield Dist to Well</b>	70+
<b>Insp- Tank Dist to OHW</b>	100+	<b>Insp- Drainfield Dist to OHW</b>	100+
<b>Insp- Tank Dist to Pond/Wetland</b>		<b>Insp- Drainfield Dist to Pond/Wetland</b>	
<b>Insp- Tank Dist to Pressure Line</b>		<b>Insp- Drainfield Dist to Pressure Line</b>	

#### Certificate of Compliance

(Yes) Certificate is hereby granted based upon the application, addendum from, plans, specifications and all other supporting data. With proper maintenance, this system can be expected to function satisfactory, however this is not a guarantee.  
 Certification Date: 11/3/2021

Zoning Office Signature:

Denise Gubrud - ISTS Inspector

\* Certificate of Compliance is not valid unless signed by a Registered Qualified Employee \*

# Field Review Form

Permit # SS2021-1265

## Property and Owner

Owner: RACHEL L & CHRISTOPHER M LERUM	Parcel Number: 100223000
Site Address: 20702 CO HWY 29	Secondary Parcel:

## Home Information

Does the structure contain any of the following elements?	Designer submitted	Inspector verified
	Garbage disposal: Yes	Garbage disposal? Y <input checked="" type="radio"/> N <input type="radio"/>
	Dishwasher: Invalid Field	Dishwasher? <input checked="" type="radio"/> N <input type="radio"/>
	Grinder pump: Invalid Field	Grinder pump? Y <input checked="" type="radio"/> N <input type="radio"/>
	Lift pump in bsmt: Invalid Field	Lift pump in basement? <input checked="" type="radio"/> Y <input type="radio"/> N
Number of bedrooms: 4	Review - Number of bedrooms: 4	
Effluent screen	Effluent screen installed? <input checked="" type="radio"/> N <input type="radio"/> Mfr: Polylox 125	
Alarm: Yes Type: elect	Review - Alarm? <input checked="" type="radio"/> N <input type="radio"/> Type & Mfr: Alderson	
Lift pump in system: Yes	Review - Lift pump in system? <input checked="" type="radio"/> N <input type="radio"/> Mfr: Weo 311	

## Component Information

Tank size: 1600 X 2	Review - Tank nbr: 2 size: 1600/1600 Mfr: Low Profile Brown
Drainfield type: Pressure Bed	Review - Drainfield type: Pressure bed
Drainfield size: Full size - 525 Reduced/warr. size -	Review - Drainfield status: none (installed) next spring Review - Drainfield size: 21' X 25'
Absorption area size: ezflow	Review - Absorption area size: 525 sq ft
Chamber type/num: Trench sqft/chamber -	Review - Chamber type: <input checked="" type="checkbox"/> X Num: Review - Trench sqft/chamber:
Drainfield rock depth: ezflow	Review - Rock depth: EZ FLOW 12"

## Soil Verification

Vertical separation verified	Boring #1: Boring #2: attached Boring #3:
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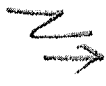
## Setback Verification

Distance to...	Designer submitted		Inspector verified	
	Tank	Drainfield	Tank	Drainfield
Road	10+	10	50+	10+
Nearest prop line	10+	25	10+	25+
Nearest structure	10	15	10	15' * OK Dg
Well	50+	50+	70+	70'
OHW	100+	100+	100+	100'
Pond/Wetland				
Pressure line	20	20		

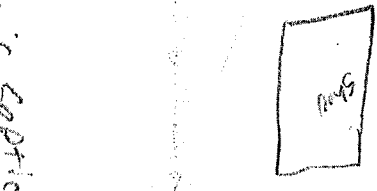
Date System Installed: 11/3/2021 Installer: Deweys Inspector: Denise Gubrud

1265

Cotton Lake



Davis's Septic Service LLC  
2884

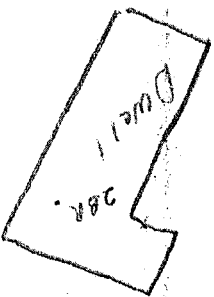


861233

Deep Well

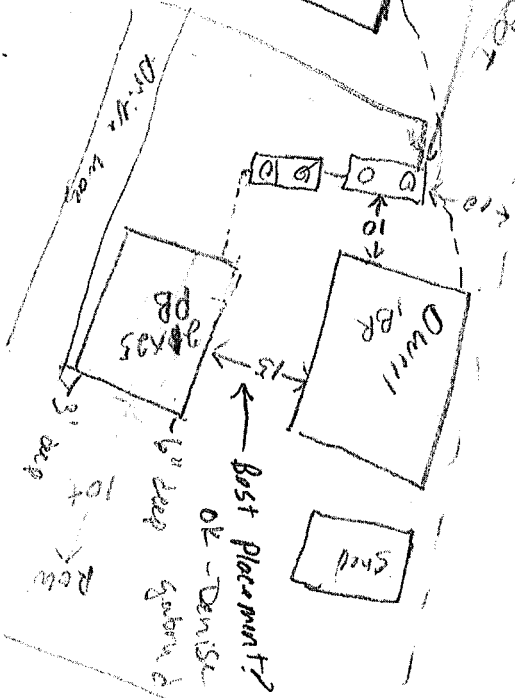
Pump Tank

Bond Line



100'

80'



PID 100223000  
4 BR Pump to Tank  
1600 Brown 1500 2x Brown  
21x25 Press Dog Flow  
PL 305 Filter 125  
Caulds 100021  
Elect 610111

60 GPH 4" and

JW

7 labels  
At Dixon Planning

Brown 1600  
1000 1500/2  
proj 12

## Becker County Restrictive Layer Verification

Client: <i>Chris Lerum</i>	Parcel: <i>100223000</i>	Date: <i>11-3-2021</i>
Address: <i>20702 Co Hwy 29</i>		
Vegetation: <i>Lawn</i>		
Weather Conditions/Time of Day: <i>2:00 Sunny</i>		
Observation#/Location/Method: <i>P, F</i>		
Depth (in)	Matrix Color(s)	Mottle Color(s)
<i>84"</i>	<i>MS</i>	<i>10 yr 5/4</i>
Mottle Color(s) <i>none</i>		
Comments/Notes:		
<i>84" - no restrictive layer</i>		
Certified Statement: I hereby certify that I have completed this work in accordance with all applicable ordinance, rules and laws.		
(Designer) <i>Tim Smith</i>	(Inspector) <i>Denise Gwond</i>	(License #) <i>PS952</i>
		(Date) <i>11-3-2021</i>

# Pressure Bed Design

Property Owner: Christopher LerumDate: 10/30/2021Site Address: 20702 Co Hwy 29PID: 100223000

Comments: \_\_\_\_\_

Instructions:  = enter data     = adjust if desired     = computer calculated - DO NOT CHANGE!

- 1)  bedroom    Type  Residential    System
- 2)  GPD design flow
- 3)  Garbage disposal or pumped to septic    50% larger tank with multiple comp/tanks
- 4)  Gal Septic tank (code minimum)     Gal Septic tank (design size / LUG req'd)  
Tank options:    none
- 5)  GPD/ft<sup>2</sup> Soil Loading Rate     ft<sup>2</sup> bed (code minimum)     ft<sup>2</sup> (design size / LUG req'd)  
(must match soil boring log)
- 6)  ft desired bed width,    leads to a  ft bed length  
(25' maximum)
- 7)  ft lateral spacing     ft perforation spacing    (maximum 3 for both)  
 manifold connection
- 8)  laterals     feet long     perfs / lateral     perfs total  
(1/2 perf means the first perf starts at the middle feed manifold)
- 9)  inch perfs at  feet residual head    gives  gpm flow rate per perforation  
( If bed has > 1' of cover, increase residual head for cleanout req's)  
for this perf size & spacing, & pipe size on line 12, max perfs/lateral =  , line #8 must be less -->    OK
- 10)  doses per day    ( 4 minimum)
- 11)  gallons per dose    (treatment volume)
- 12)  inch diameter laterals must be used to meet "4x pipe volume" requirement
- 13)  feet of  inch supply line    leads to  gallons of drainback volume  
(Tip: "top feed" manifold to control the drainback)
- 14)  gallons TOTAL pump out volume (treatment + drainback)
- 15)  feet vertical lift from pump to drainfield laterals, leads to a
- 16)  GPM @  feet of head, Pump requirement  
( >50 gpm may require additional 3-6' head allowance for discharge assembly)

17)  gal Dose tank (code minimum)       gal Dose tank (design size / LUG req'd)      at  gpi

leads to a:

**Optional Time dosing of:**

18)  inch swing on Demand float,      (this delivers Average flow, =70% of Peak design flow)  
19)  inches from bottom of tank to "pump OFF" float       min ON  
20)  inches from bottom of tank to "pump ON" float       hrs OFF  
21)  inches from bottom of tank to "Hi Level" float       inches to "timer ON" float  
22)  gallons reserve capacity (after HLA activation-demand dosed)       inches to "Hi Level" float

23)  inches, or  ft. to Redox or other limiting condition      (This must match the soil boring log)  
Treatment zone contains  inches of 0% soil credit, and  inches of 50% soil credit

24)  inches, or  ft. of vertical separation required

leads to bottom of rock no more than:

25)  inches, or  ft. Below existing grade      **CRITICAL FOR FUTURE CERTIFICATIONS!!!**

26)  inches of rock below the pipe  
 inches of rock to cover the pipe

27) Overall Dimensions:       ft. wide by  ft. long Pressure Bed

28) Rock Bed materials:  
 ft. by  ft. by  inches total, plus 20% gives       yd<sup>3</sup> or \*1.4=  ton

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

  
Designer Signature

Dewey's Septic Service LLC  
Company

2884  
License#

10/30/2021  
Date



Becker County Planning & Zoning  
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2:00

# Septic Permit

Permit #: SS2021-1265

## Owner & Property Information

Owner Name:	RACHEL L & CHRISTOPHER M LERUM	Parcel #:	100223000
Mailing Address:	RACHEL L & CHRISTOPHER M LERUM 125 IRONWOOD DR HORACE ND 58047	Secondary Parcel #:	
Phone #:	701-361-1388	Site Address:	20702 CO HWY 29
Lake/River(1000/300):	Yes	Township - Sec/Twp/Rng:	ERIE - 12/139/040
Lake/River Name:	Cottage (Lake View) [NE Tier 2]	Designer:	Dewey's Septic Service LLC, L2884 (Timothy Smith)
Pond/Wetland(50):	No	Installer:	Dewey's Septic Service LLC, L2884 (Timothy Smith)

## Specifications

Tank to be Installed:	Single Tank plus Compartmented Tank	Type of Drainfield:	Pressure Bed
Total # Tanks Installed:	2	Full Size of Drainfield:	525
System Status:	Replacement System	Reduced/Warrantied Size:	
System Serves:	Full-Time Dwelling	Absorbtion Area Size:	
Number of Bedrooms:	4	Rock Depth:	ezflow
Design Flow/GPD:	625	Chamber Type and Number:	
Garbage Disposal?	Yes	Chamber Trench SqFt/Chamber:	
Size of Lift Pump:	Goulds weo311	Is System Pressurized?	Yes
Size of Lift Line:	2	Alarm?	Yes
Soil Sizing Factor:	1.27	Type of Alarm:	elect

## Setbacks

Road Type:	County	Right of Way Marked:	Yes
Tank Dist to Road:	10+	Drainfield Dist to Road:	10
Tank Dist to Closest Prop Line:	10+	Drainfield Dist to Closest Prop Line:	10+
Tank Dist to Nearest Structure:	10	Drainfield Dist to Nearest Structure:	15
Tank Dist to Well:	50+	Drainfield Dist to Well:	50+
Tank Dist to OHW:	100+	Drainfield Dist to OHW:	100+
Tank Dist to Pond/Wetland:		Drainfield Dist to Pond/Wetland:	
Tank Dist to Pressure Line:	20	Drainfield Dist to Pressure Line:	20

## Other Information

Date Approved:	11/1/2021
Permit Fee:	225.00
Receipt Number:	250753899
Date Paid:	11/1/2021
Notes:	Install a 1600 septic tank, a 1600/2 septic/lift tank and a 21' X 25' pressure bed using EZ Flow distribution

Zoning Office Signature:

Denise Gubrud