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Receipt #: 4810
Date: 6-10-96
By: CW

CONSTRUCTION APPLICATION
MARQUETTE COUNTY HEALTH DEPARTMENT
184 U.S. 41 Hwy., Negaunee, MI 49866
Phone (906) 475-4195

Permit # 960114

1. HOME OWNER'S CURRENT MAILING ADDRESS (Please Print)

Name LEEDY WILLIAM D & BARBARA J. (616) 468-5010
Last First Initial Phone
Mailing Address 4640 HAGAR SHORE RD. COLOMA MI 49038
Number Street City State Zip

THIS APPLICATION IS FOR: (Check appropriate box(s))

2. ☐ Water Supply System

A. System Serves: (Check one)

☒ Single Family Residence ☐ Commercial Establishment

B. This is a: (Check one)

☒ New ☐ Replacement system

C. This Application is for a: (Check one)

☐ Driven point ☒ Drilled well

D. Name of Well Driller:

?

E. Name of Pump Installer:

NONE - HAND PUMP

3. ☐ Sewage Treatment System

A. System Serves: (Check one)

☒ Single family residence ☐ Commercial Establishment

B. This is a: (Check one)

☒ New ☐ Replacement System

C. This Application is for a: (Check one)

☐ Septic Tank & Drainfield ☐ Septic Tank Only
☒ Privy ☐ Other

D. Septic Contractors Name:

NONE

(HURKMAN)

E. Number of Bedrooms:

1

F. Garbage Disposal System proposed:

☐ Yes ☒ No

4. SYSTEM LOCATION:

CR. ST TO CR. SK EAST 2 MILES.

Street Name and Address

NA

Subdivision Name

NA

Lot #

WELLS

1/4.

1/4.

1/4.

18

Section

T

42

N, R

24

Township Name

6. Sketch of Layout:

(Sketch shall include: Property lines/Dimensions, Building(s), Well Location - Distance to Septic/Drain Field, Neighboring Well/Septic System (Distance from your System), Streets/Roads, and Bodies of Water.)

5. Property Tax ID#

52-18-018-010-00

7. Property Development:

A. Will any disturbed ground surfaces, (including building, driveways, sewage treatment system, cleaning and grubbing limits) be located within 500' of a lake or stream?

☐ Yes ☒ No

B. Will the total disturbed ground surface area be greater than or equal to 1 acre?

☐ Yes ☒ No

8. This becomes a permit when signed and approved by an authorized representative of the Marquette County Health Department. I certify that the above information provided is correct to the best of my knowledge. Sewage permits expire 24 months from date of issuance and are contingent upon meeting any special construction requirements attached. 48 hour notice and a final inspection is required prior to backfilling any sewage treatment system.

Prior to placing a water well into service, one or more samples shall be collected for bacteriologic analysis and show the absence of coliform organisms. (Rule 161(2), Part 127 of Act 368 P.A. 1978) It is recommended that you contact this office for a final evaluation prior to placing any water well into service. No expiration on well permits.

William D. Leedy

Applicant's Signature

Barbara J. Leedy

Date

6/10/96

9. DEPARTMENT USE ONLY

Depth to Seasonal High Water Table

Absorption Bed Area: _____ Sq. Ft.

_____ Sq. Ft.

_____ Sq. Ft.

_____ Sq. Ft.

_____ Sq. Ft.

_____ Sq. Ft.

_____ Sq. Ft.

_____ Sq. Ft.

Capacity: _____ Gallons

Capacity: _____ Gallons

Capacity: _____ Gallons

Capacity: _____ Gallons

Capacity: _____ Gallons

Capacity: _____ Gallons

Capacity: _____ Gallons

Capacity: _____ Gallons

Capacity: _____ Gallons

Gallons

Septic Tank Capacity with Garbage Disposal: (Not recommended)

Gallons

Soil Type:

☒ Soil Report Attached

☒ Special construction requirements attached

Curry D. Hiel, R.S.

Sanitation

6-13-96

Date

PRIVY INSTALLATION

Marquette County Health Department

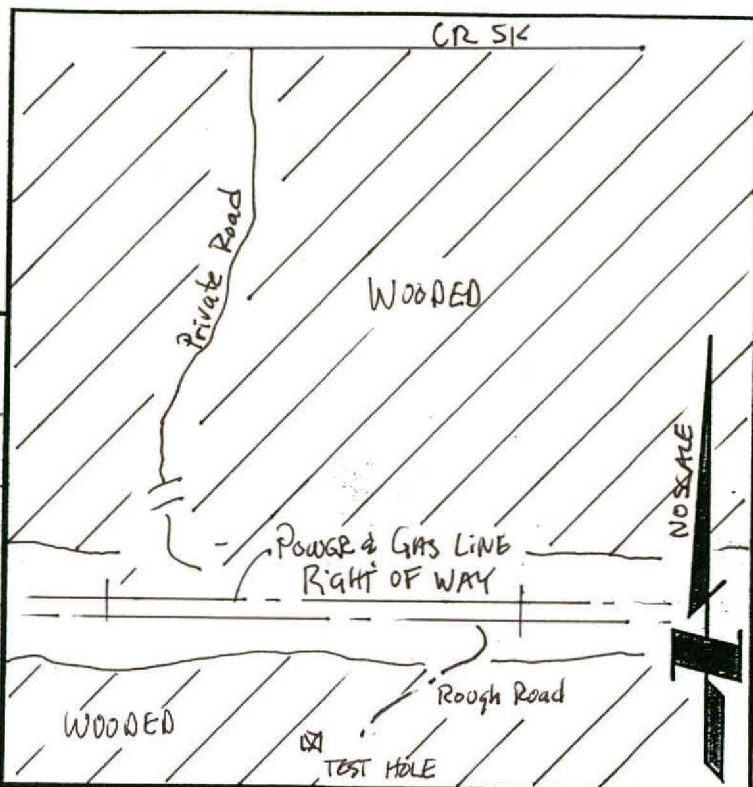
Division of Environmental Health

Site-Soils Evaluation Report

Permit Appl. William D. & Barbara J. Leedy
 Address 4640 Hagar Shore Rd
 City Coloma, Michigan 49038
 Phone (906) 468-5010
 Permit/Raw Land # 960114
 Legal Description (Project): Road County Rd SK
SE 1/4, SW 1/4, SW 1/4, Section 18, T42 N, R24 W
 Township WELLS

Project Site Data

Topography Rolling with shallow to moderate slopes. Hardwood forest on higher elevations, Cedar, tamarack & Spruce @ lower elev.
 Drainfield Area slope 4-6 %
 Surface Drainage POOR - NONE
 Project Area Size UNRESTRICTED
 Replacement Area ADAPTABLE
 Flood Plain/Wet Land Data NO DATA
 Surface Water Isolation > 500'



Soil Depth (Feet)	Boring #	Water Table	Subsoil Drainage		Perc Rate	Boring #	Water Table	Subsoil Drainage		Perc Rate
			Good	Bad				Good	Bad	
	0-5" TOP SOIL									
1	5"-16" Fine Sandy Loam / Silty Loam	NO OBSERVED GROUNDWATER								
2	16"-24" Fine Loamy Sand									
	24"-34" Fine Sandy loam / Loam									
3	34"-72" Sandy Clay Loam									
4		SOME SOIL MOTILES OBSERVED								
5										
6										
7										
8										

Conclusions:

Fine Sandy loam or Silty Loam (30-300 min/in)

16"-24" Fine Loamy Sand has a strong platy structure (FRAGIPAN) some mottles were observed in this layer. The permeability within this layer is in excess of 300 min/in.

24"-34" Fine Sandy loam / Loam was observed with a moderate structure

Cut & Fill Conditions for install. absorption bed & size of 400 SQUARE FEET PER BEDROOM

PRIVY Installation only

S-Sandy, C-Clay, L-Loam, Slt-Silt, Com-Compact, Frgn-Fragipan

Prepared by:

Curry D. Hill, R.S.

Date: August 13, 96

MARQUETTE COUNTY HEALTH DEPARTMENT
DIVISION OF ENVIRONMENTAL HEALTH
SPECIAL INSTALLATION INSTRUCTIONS
FOR
SUBSURFACE SEWAGE DISPOSAL SYSTEMS

DATE August 13, 96

OWNER William D. & Barbara J. Leedy

ADDRESS 4640 Hagar Shore Rd

CITY Coloma, Michigan 49038

CONTRACTOR _____

PERMIT # 960114

LEGAL DESCRIPTION OF PROPERTY

Township Wells

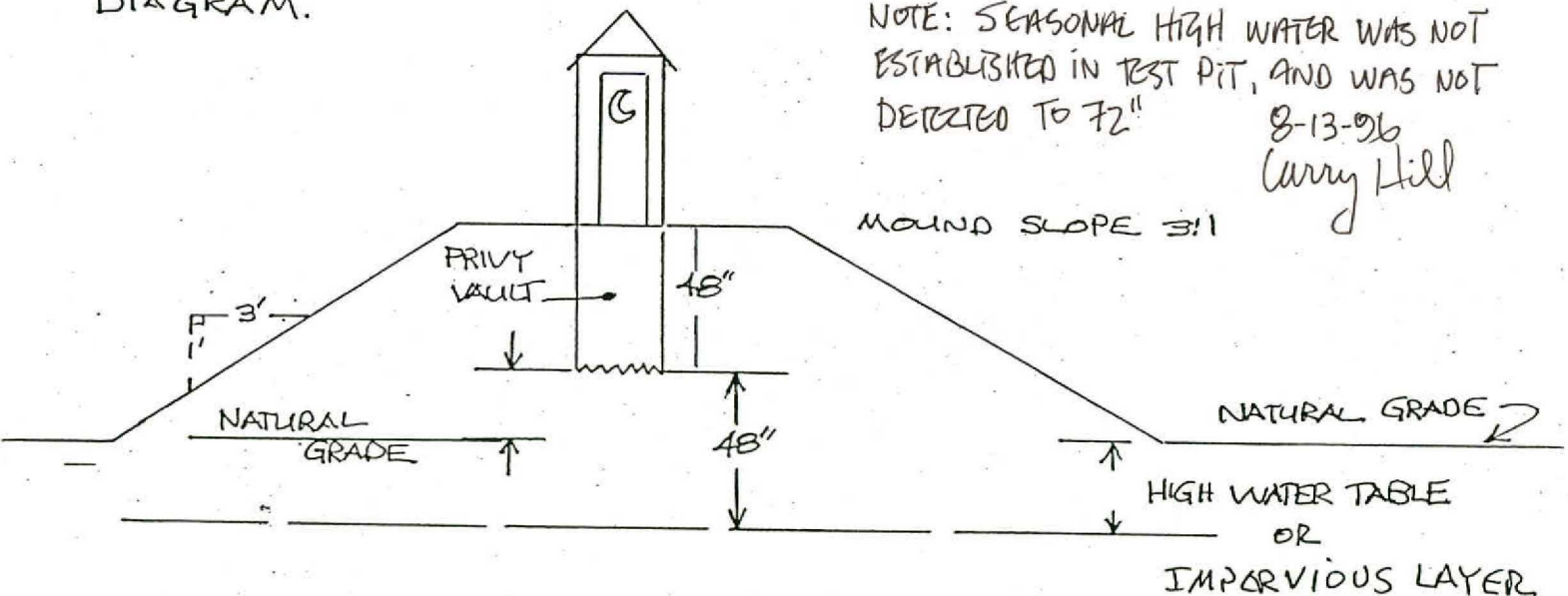
Road County Road 56

SE 1/4 SW 1/4, Section 18, T42 N, R24 W

CONSTRUCTION OF A PRIVY UNDER PERMIT # _____ MUST BE IN
CONFORMANCE WITH THE FOLLOWING SPECIAL CONDITIONS DETAILED IN THIS
DIAGRAM.

NOTE: SEASONAL HIGH WATER WAS NOT
ESTABLISHED IN TEST PIT, AND WAS NOT
DETECTED TO 72"

8-13-96
Larry Hill



ARTICLE IV SECTION 4-5 PART b OF THE MARQUETTE CO. ENVIRONMENTAL
HEALTH CODE STATES IN PART, "SEASONAL HIGH WATER TABLE OR
EVIDENCE THEREOF SHALL BE AT LEAST 48" BELOW THE BOTTOM
OF THE TRENCH OR SEEPAGE BED."

ARTICLE IV SECTION 4-5 PART (1) C. OF THE MARQUETTE CO. ENVIRONMENTAL
HEALTH CODE STATES IN PART, "IMPERVIOUS LAYER SUCH AS HARDPAN, CLAY,
BEDROCK SHALL BE AT LEAST FOUR FEET BELOW THE BOTTOM OF THE
TRENCH, SEEPAGE BED."

MODEL SELECTION

This selection guide is designed to help you pick the best model for your needs. The basic decision is whether to install a self contained toilet or a central composting unit. In either case, non-electric models are available for those who do not have a continuous 110 Volt power supply.

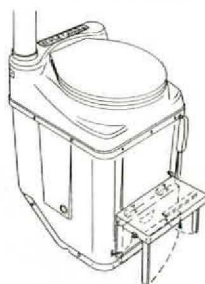
SELF CONTAINED UNITS

- Require **no plumbing or water connection**, and are quick and simple to install.
- Are more **suited for winter operation** than central units, because it is often easier to keep the bathroom warm.
- Most (especially electric units) **can evaporate all liquids**, so approvals are not normally required.
- Are available with different capacities. "SUN-MAR" recommends that you pick a unit with a capacity greater than you really need.

CENTRAL COMPOSTING SYSTEMS

- Are ideal for those who want a **flush toilet in the bathroom**, or who want to **connect more than one toilet** to the composting unit.
- Are normally placed **under, or outside the bathroom**, with 3" plumbing pipe connecting the unit to a 1 pint flush toilet (purchased separately). If possible, the central composting unit should be within 20 feet of the toilet.
- Are often unable to evaporate all the flushing liquid. This excess should be collected or drained into an approved facility.

ELECTRICAL MODELS (For those with a continuous supply of 110 Volt power available)



"ECOLET"

Unit designed primarily for **Marine/RV** use, this three chamber toilet with Bio-drum is available with 110 Volt fan and heater for use where space is very limited. **19 1/2" Wide, 21 1/2" Long.**

Capacity (People)
Weekend & vacation 3-5
Residential/continuous 1-2



"COMPACT"

Elegant, medium capacity unit with the looks to complement any bathroom. Incorporates standard three chambers with **patented** variable diameter, insulated Bio-drum.

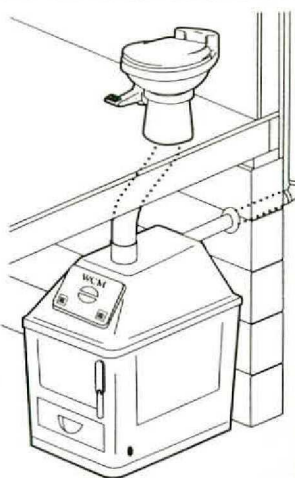
Capacity (People)
Weekend and vacation 3-5
Residential/continuous 1-2



"EXCEL"

High capacity three chamber unit. Large insulated Bio-drum gives this unit the capacity to handle virtually any domestic need. *Tested by N.S.F. at 4 adults in continuous use.*

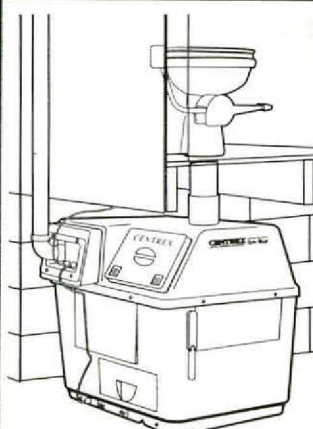
Capacity (People)
Weekend & vacation 6-8
Residential/continuous 3-5



"WCM"

High capacity three chamber unit with large insulated Bio-drum. *Long narrow shape with rear venting and drain* makes it the ideal unit for placing in a basement or between beams.

Capacity (People)
Weekend & vacation 7-9
Residential/continuous 4-6
(4 adults or a family of 6)



"CENTREX"

High capacity three chamber unit with large insulated Bio-drum *mounted transversely. Vented and fully serviceable from the front* and only 27 1/2" high, this unit is ideal for placing under or to the side of a building.

Capacity (People)
Weekend & vacation 7-9
Residential/continuous 4-6
(4 adults or a family of 6)

NON ELECTRIC UNITS (For those who do not have a continuous supply of 110 Volt power)



"EXCEL N.E."

Non-electric version of the EXCEL. Has the same three chambers with large insulated Bio-drum, but has a **4" vent** exiting from the top rear of the unit. A 12 Volt fan is recommended for residential or heavy use.

Capacity (People)
Weekend & vacation 5-7
Residential/continuous 2-3



"CENTREX N.E."

Non-electric version of the CENTREX. Has the same three chambers and Bio-drum, but is fitted with a **4" vent** exiting from the front of the unit. A 12 Volt fan is recommended for residential or heavy use.

Capacity (People)
Weekend & vacation 6-8
Residential/continuous 3-4
(3 adults or a family of 4)

OTHER UNITS AVAILABLE

"EXCEL AC/DC" and "CENTREX AC/DC"

These AC/DC units are fitted with **dual vent stacks** (2" and 4"). They are ideal for those with **generators and solar panels**. (See pages 5 & 9)

"CENTREX AIR FLOW" and "CENTREX N.E. AIR FLOW"

These units are **waterless versions** of standard electric and non electric CENTREX models. They use a "Sun-Mar Dry Toilet" (purchased separately) which is mounted **directly above the composting unit**, and connected to it by a 10" diam. "pipe piece". These come in 31 1/2" sections, and can be cut to size.



Marquette County Health Department

184 U.S. HIGHWAY 41 EAST • NEGAUNEE, MICHIGAN 49866-9671 • FAX: (906) 475-9312

RANDALL M. JOHNSON, M.D., M.P.H., DIRECTOR

Finance &
Administrative
Services
475-9977

Personal Health
475-7844

WIC Program
475-7846

Home Health
475-4158

Environmental
Health
475-4195

Community
Health
475-7848

Dental Health
200 W. Spring St.
Suite 280
Marquette
228-4144

January 17, 1997

William D. Leedy
4640 Hagar Shore Road
Coloma MI 49038

Dear Mr. Leedy:

A Well Construction Permit was issued to you on **8/13/96**, authorizing construction of a water well on property located in Wells Township, Section 18, T42N, R24W. A water well record has not been received and we are unsure if the well was ever constructed.

Michigan's Public Health Code, Act 368, P.A. of 1978, requires a water well record to be submitted to this Department within sixty (60) days of well completion.

Please advise on the status of the proposed well or submit a water well record if the well has been constructed by you.

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in dark ink, appearing to read "Fred J. Benzie".

Fred J. Benzie, MPH, RS
Environmental Health Supervisor

/cew



NO: 5218018010		MICHIGAN DEPARTMENT OF PUBLIC HEALTH WATER WELL AND PUMP RECORD		PERMIT NO: 960114		Page of 1 1	
LOCATION OF WELL		Fraction	Section No	Town No	Range Number		
County QUETTE	Township Name WELLS	SE 1/4 SW 1/4 SW 1/4	18	42 N	24 W		

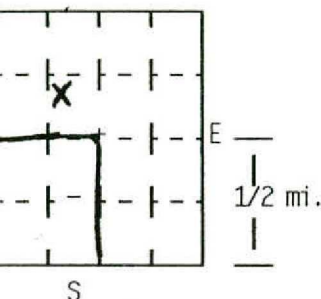
Distance And Direction From Road Intersection

Watson

1 Addr: COUNTY ROAD SK WELLS TOWNSHIP MI

Locate with 'X' in Sec. Below

Sketch Map



Received
SEP 8 1997
Env. Health
MACDONALD

Formation Description

Thickness

Depth

SANDY CLAY AND STONES
BROWN AND GRAY LIMESTONE

28
35

28
63

Abandoned Well Plugged? NO

Casing Diameter in. Depth ft.

Plugging Material:

No. of Bags Casing Removed?

Remarks, elevation, source of data, etc.

Drilling Machine Operator: [X] Employee [] Subcontractor
Name TIM SMITH

2-228 9/93

Authority: Act 368 PA 1978

Completion: Required

Penalty: Conviction of a violation of any provision
is a misdemeanor.

3. Owner of Well WILLIAM D LEEDY
Address 4640 HAGER SHORE ROAD
COLOMA MI 49038
Address Same as Well Location? NO

4. WELL DEPTH 63 ft. Date Compl 08/12/97 This is a:
NEW WELL

5. EQUIPMENT USED: ROTARY CH

6. WELL USE: HOUSEHOLD

7. CASING Type: STEEL Connection: WELDED
Diam. Height ABOVE
5 in. to 29 ft. Surface 1.5 ft.
in. to ft. Weight 14.62 lb./ft.
Grouted Drill Hole Drive Shoe YES
in. to ft. Shale Packer NO
in. to ft.

8. Screen Type: Diam: [X] Not Inst
Length:
Set Between ft. and ft.
Fittings: [] Blank above screen: ft.

9. Static Level: 20 ft. Flow: [N]

10. Pumping Level below land surface:
60 ft. after 2 hrs. @ 15 GPM
[] Plunger [] Bailer [X] Air [] Test Pump

11. Well Head Completion: PITLESS ADAPTER

12. Grouted from 0 to - ft Material: BENTONITE
Cement: bags Additives: 1 BENSEAL

13. Nearest source of possible contamination:
Type: SEPTIC TANK Distance: 75 ft. Dir:
Type: Distance: ft. Dir:

14. Pump: [X] Not Installed [] Installation Only
Manufacturer's Name: STA RITE
Model: SP104 HP: 0.5 Voltage: 220
Drop pipe: 60 ft. Capacity: 40 GPM
Pump type: SUBMERSIBLE
Pressure Tank Manufacturer's Name: CONAIR
Model: 6442 Capacity: 5 Gal.

WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report
is true to the best of my knowledge and belief.
Registered Bus. Name MACDONALD WELL DRILLING, INC. 1780
Business Address 275 County Road 553 Gwinn MI 49841

Signed [Signature] 08/13/97
Authorized Representative Date