LINCOLN COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH
WASTEWATER TREATMENT AND DISPOSAL SYSTEM PERMIT

Issue Date: 05/21/2026 Expiration Date: 05/20/2027 Permit#26-704

Property Owner: Martin Hessen

Mailing Address: [redacted]

Installer: Bill Eckoff License #: 223

Approved Work: (Check One) ☐ New Installation ☒ Existing System

☒ Replace Drainfield ☐ Replace Tank ☐ Extension

Describe: Installation of pressure dosed system to replace unpermitted system for 3 Bedroom House.

Parcel Description:

Legal: S09, T35 N, R26 W, COS 4337, ACRES 16.237, TRACT 1 IN NENE

Property Address: 6470 US Hwy 93 S. Eureka, MT 59917 Assessment Code: 704

DEQ COSA: E.Q.# Date:

Approved Design Criteria: Installation of pressure dosed system to replace unpermitted system for 3 Bedroom House with 3 Laterals @ 75' with 10% reduction for chambers.

# of Bedrooms: 3	Septic Tank Size: 1000/500 gallons	Trench Width: 36"
# of Laterals: 3	Length of Laterals: 75'	Trench Depth: 24"-36"

SYSTEM MUST INCLUDE INSTALLATION OF EFFLUENT FILTER AT SEPTIC TANK OUTLET!!

Special Instructions: Install system according to the COSA, lot layout, the Lincoln County Wastewater Treatment and Disposal Regulation, and Circular DEQ-4. Reduction given for chambers. It is the installer's responsibility to ensure that all required horizontal setbacks are met. CHANGES MUST BE PRE-AUTHORIZED BY THE DEPARTMENT.

Issued By: Robin Blumberg, RS

NOTICE: The Department must be notified at least 3 business days (72 hours) prior to backfilling the system. Call 406-283-2442. Any system not inspected by the Department or its designated representative prior to closure is an illegal installation in violation of Lincoln County Health Board Regulation Ch. 3. Illegal installations may result in fines and/or requirements to remove or reconstruct the system.

Closure Statement:

This system is in compliance with the approved design criteria and Lincoln County's Wastewater Treatment and Disposal Regulation.

Signed: Robin Blumberg Date: 8/10/26

This permit is not finalized until the system is inspected and the closure statement is signed.

This permit is not a guarantee that the system will function properly for a prescribed period of time.

NORTH



SPOILS PILES



BOTTOM MATERIAL

MUD CREEK
~1,300'

TOBACCO RIVER
~2300'

SHARED WELL WITH
SUBJECT PROPERTY
NORTH HOUSE & CHURCH

100' WELL
SETBACK

6470 US HWY 93 S
EUREKA, MT 59917

RELATIVE CHAPEL
OF PRAISE DRAINFIELD
LOCATION

TRACT 1
16.237 ACRES
6470 US HWY 93 S, EUREKA, MT 59917
S09, T35N, R26W, COS 4337
ASSESSMENT #0000000704
GEO 56-4717-09-1-02-15-0000

HESSEN SITE LAYOUT



8' TEST HOLE



SOIL PROFILE HOLE

TEST HOLE INFO: (DUG 3-12-26)

0"-4"= TOP SOIL
0"-21"= ROOT DEPTH
21"-60"= LOOSE SILTY LOAM, 25% 1"-6" ROCK
60"-77"= FIRM SILTY LOAM, 30% 1"-20" ROCK
77"-96"= FIRM SILTY LOAM, 40% 1"-10" ROCK

TEST HOLE WAS EASY TO DIG TO THE 60" DEPTH
LOOSE SILTY LOAM. BOTTOM SECTION A LITTLE MORE
FIRM BUT WITH LARGER ROCK.
0.4 APP RATE SET

100' WELL SETBACK
(SHARED WELL TO THREE
BUILDINGS ON SITE)

HOUSE

LOCATION OF
EXISTING DRAINFIELD
ON THIS PROPERTY
IS UNKNOWN

GARAGE

GRADE BREAK

EXISTING DRAINFIELD
(1)~65' LATERAL

NEW 500 GAL
PUMP CHAMBER
ELEV 2805'

(3) 75' PRESSURE
DOSE LATERALS
ELEV 2830'

REMOVE ALL TREES WITHIN
20' OF DRAINFIELD
(VERIFY QTY ON SITE)

1% SLOPE

30% SLOPE

25'+

7'

8' SOIL PROFILE
HOLE

10' PROPERTY
LINE SETBACK

125' 2" SCH 40
PRESSURE LINE

REPLACEMENT
ZONE

DRAINFIELD SIZING

(3) BEDROOM= 300 GPD
300 GPD/0.4 APP= 750 SQFT
750 SQ FT/3' CHAMBERS= 250 LF
10% REDUCTION FOR CHAMBERS
250LF X 0.9= 225LF
(3) 75' PRESSURE DOSE LATERALS

EXISTING 1000 GAL
SEPTIC TANK
(CONCRETE BAFFLE WILL NEED
TO BE REMOVED AND AN EFFLUENT
FILTER INSTALLED)

WATER LINE

3-BEDROOM
HOUSE

GARAGE ADDED TO HOUSE
AFTER TANK WAS INSTALLED

REQUESTING A VARIANCE FOR
THE TANK SETUP AS GARAGE
WAS ADDED AFTER TANK
WAS INSTALLED

RELATIVE LOCATION OF
CHAPEL OF PRAISE
DRAINFIELD LOCATION

HESSEN SYSTEM LAYOUT

REV	DESCRIPTION	BY/DATE	APPD/DATE

COMPANY: MDS	SCALE: 1/16 = 1'-0"	MONTANA DESIGN SERVICES, INC. HESSEN SEPTIC	
CONTRACT:	DATE:	DWG TITLE: SITE LAYOUT	
VERIFIED:	1/2026	DESIGNED:	3/9/26
PLOT FILE:	MDS.DWG	DRAWN: M. HESSEN	3/12/26
PHL-0001		JOB NO: 477-001	SHT NO: 1

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