

**MONTANA WELL LOG REPORT**

Other Options

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

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[View scanned well log \(5/5/2008 2:28:29 PM\)](#)

**Site Name:** CASAGRANDE DAVID  
**GWIC Id:** 242575

**Section 7: Well Test Data**

**Section 1: Well Owner(s)**  
 1) CASAGRANDE, DAVID (MAIL)  
 2105 CENTRAL AVE. #100  
 BILLINGS MT 59102 [03/20/2008]

Total Depth: 40  
 Static Water Level: 14  
 Water Temperature:

**Section 2: Location**

Township	Range	Section	Quarter Sections
05S	18E	26	
County		Geocode	

CARBON

Latitude	Longitude	Geomethod	Datum
45.372517	109.479867	SUR-GPS	NAD27
Ground Surface Altitude		Method	Datum

**Air Test \***

40 gpm with drill stem set at 39 feet for 1 hours.  
 Time of recovery 0.08 hours.  
 Recovery water level 14 feet.  
 Pumping water level    feet.

**Addition**                      **Block**                      **Lot**

\* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

**Section 3: Proposed Use of Water**  
 DOMESTIC (1)

**Section 8: Remarks**

**Section 4: Type of Work**  
 Drilling Method: ROTARY

**Section 9: Well Log**

**Geologic Source**

Unassigned

**Section 5: Well Completion Date**  
 Date well completed: Thursday, March 20, 2008

From	To	Description
0	2	DARK SOFT TOPSOIL
2	40	TAN MED GRAVEL

**Section 6: Well Construction Details**

Borehole dimensions

From	To	Diameter
0	10	8.75
10	39	7
39	40	6

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1.5	39	6	0.25		WELDED	STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
39	40	6			OPEN BOTTOM

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	0	BENTONITE	Y

**Driller Certification**

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

**Name:** PAUL STEINMETZ  
**Company:** AAQUA DRILLING INC  
**License No:** WWC-542  
**Date:** 3/20/2008  
**Completed:**

## CARBON COUNTY SANITARIAN'S OFFICE

Gregory A. McGann, R.S./Planning Director  
Rod Fink, R.S./Contractor  
Sara E. Mahoney/Administrative Asst.  
P.O. BOX 466  
Red Lodge, MT 59068  
406-446-1694

April 23, 2008

David W. Casagrande  
2105 Central Avenue, Suite 100  
Billings, MT 59102

Re: 2164 HWY 78

# FILE COPY

Re: Sewage Disposal Permit Application for: Permit #08-04-19R

Your Sewage Disposal Permit Application submitted on 04-23-08

Has been conditionally approved with the conditions listed below:

#### For house:

- Must install a 1500 gallon "top pour" concrete combo tank
- Must install 2 pressure dosed laterals of 100 feet in length, 3 feet wide
- System must be installed per DEQ4
- System must be located and orientated at Sanitarian's instructions
- System must be pressure tested and inspected before backfilling.

#### For Future Barn/ Apartment

- Must install 1000 gallon "top pour" concrete combo tank
- Must install 1 pressure dosed lateral of 100 feet in length
- System must be located and orientated per Sanitarian's instructions
- System must be installed per DEQ4
- System must be inspected and pressure tested before backfilling

Please notify this office when construction begins. A site inspection and final approval are required. *At least* 24 hours notice must be given to perform an on-site inspection of the installation.

If you have any questions, please contact the Sanitarian's Office at 446-1694.

Thank you,

  
Gregory A. McGann, R.S.

GAM/sem

Replacement Home

Carbon  
~~STILLWATER COUNTY~~  
Septic System Installation Inspection

New install  
For  
Basin

Property Owner: David Casagrande Date: 4-29-08  
Mailing Address: 2105 Central Ave. Permit #: 08-04-19A  
Rural Address: 2164 Hwy 78  
Legal Description: T: \_\_\_\_\_ R: \_\_\_\_\_ Section: \_\_\_\_\_ 1/4 Sec: \_\_\_\_\_  
Subdivision: \_\_\_\_\_ Lot #: \_\_\_\_\_ Lot Size: \_\_\_\_\_  
GPS. Lat-Long Latitude: \_\_\_\_\_ N Longitude: \_\_\_\_\_ S

**Type of System**

Standard System  
With Gravel   
Gavelless   
Gravity Dosed  
With Gravel   
Gravelless   
Pressure Dosed  
With Gravel   
Gravelless   
Sand Mond   
Sand Filter

**Absorption Trenches**

Laterals 2 # basin 1 basin  
Pipe Diameter 1 1/4 in  
Width 34 in  
Max. Depth 36 in  
Length 2-100 ft + 100 basin  
Seperation 10 ft

**Septic Tank: Volume**

Concrete 1000 g  
Poly \_\_\_\_\_ g  
Dosing Tank:  
Concrete 500 g  
Poly \_\_\_\_\_ g

**Sand Mound/Filter**

Area \_\_\_\_\_ sqft  
Volume \_\_\_\_\_ cuft  
Discription \_\_\_\_\_

**Combination Tank:**

Concrete Septic 1000 g  
Dosing 500 g  
Poly Septic \_\_\_\_\_ g  
Dosing \_\_\_\_\_ g

Other \_\_\_\_\_

Drainfield to: Well 117 ft  
Cistern NA ft  
Septic Tank 158 ft  
25% Slope NA ft  
Surface Water 7500 ft  
Property Line 28' ft

Septic Tank to: Well 80 ft  
Foundation 60 ft  
Property Line 15880 ft N.  
Surface H<sub>2</sub>O 88'  
Distribution Box NA  
D-Box Flow Control NA  
Meets Non-Deg YES

Approved By: Radney Lusk

Installed By: CHC Excavators #138 FAX: 328-7138

Comments: Drawing on release - eqment H<sub>2</sub> ≈ 10'

**SEWAGE DISPOSAL PERMIT APPLICATION/CARBON COUNTY, MONTANA**  
**Installing a System Without a Valid Permit (new construction) \$1000.00 resolution 94-1**

**I. GENERAL INSTRUCTIONS**

1. The application must be filled out completely.
2. The application must include the correct review fee.
3. The application must be signed by the owner of record or an authorized contractor.
4. System must be inspected before backfilling. This permit is valid for a period of Two (2) Years.
5. This application is for: New Construction Repair Existing System Replacement ✓

**II. APPLICANT'S INFORMATION (please print)**

Name DAVID W. CADAGRANDE Phone 406-961-0918  
 Mailing Address 2105 CENTRAL AVE SUITE 100  
 City BILLINGS State MT Zip Code 59102  
 Physical Address 2164 HWY 78 ROSCOE MT (Number, Street & Town)  
 Rural Route #'s or H.C. #'s are NOT physical addresses. \*Applications will not be processed without this information.

**III. SITE INFORMATION (Attach a copy of USGS 7.5' or 15' location map)**

\*Property Location Township 5 S Range 18 East, Main Carbon Co. MT SECTION 26: N1/2SW1/4NW1/4  
 (Subdivision name, lot number, COS number, Section, Township, and Range) SECTION 27: N1/2 SE 1/4 NE 1/4 1/4 in east of Hwy 78  
 Lot Size 2.15 acres Type of Building house  
 \*Number of Bedrooms \_\_\_\_\_ Full Basement ✓ YES NO  
 Have the Sanitary Restrictions been lifted? NO (A copy of the State approval MUST be submitted with this application)  
 \*A bedroom is any room that is or may be used for sleeping. An unfinished basement is considered an additional bedroom.\*  
 \*\*Effective September 29, 2005 a floor plan/sketch of the home must be included with the application\*\*

**IV. SITE EVALUATION (attach a copy of Sanitary Restrictions)**

Test pit excavated to a depth of \_\_\_\_\_ feet Depth to Bedrock is \_\_\_\_\_ feet  
 Depth to seasonal high ground water table is \_\_\_\_\_ feet  
 Slope \_\_\_\_\_ % Floodplain \_\_\_\_\_ Yes \_\_\_\_\_ No  
 Brief Soil Description \_\_\_\_\_ (boulders, sand, gravel, clay, etc)  
 Percolation Rate \_\_\_\_\_ minutes/inch Test performed by \_\_\_\_\_

**V. DISPOSAL SYSTEM (see general requirements on back of application)**

Septic Tank 1500 gallons Top Pour Length of Drainfield 200' feet  
 Garbage Disposal N Y/N Dishwasher Y Y/N  
 Distance from Septic Tank to: Foundation 52' feet  
 Well 80' feet  
 Property Line 65' feet  
 Water Course 88' feet  
 Distance from Drainfield to: Foundation 40' feet  
 Well 117' feet  
 Property Line 20' feet  
 Water Course 240' feet

*Handwritten notes:* replacement, per Greg RA 1500 Combo Tank-top pressure dosed drainfi. concrete tank 2x100ft laterals 3ft w/ 1x100 - for Barn Apartments 200' 34" chambers with 3/4 minas gravel over chambers 3 Flokt + ALARM orientation location @ Sanitariums instructions pressure test/Inspector before backfilling 1000' test

**VI. SKETCH THE PROPOSED DISPOSAL SYSTEM ON THE BACK OF THIS APPLICATION.**

**VII. ACKNOWLEDGEMENT**

I hereby declare that the information above is true, complete and correct to the best of my knowledge. The systems will be installed in accordance with the Carbon County Regulations for on-site Wastewater Treatment Systems and the terms of the permit. I acknowledge that Carbon County has not designed my system and that these requirements do not bind or obligate Carbon County to guarantee this system's operation. I further agree to have the system inspected before covering.

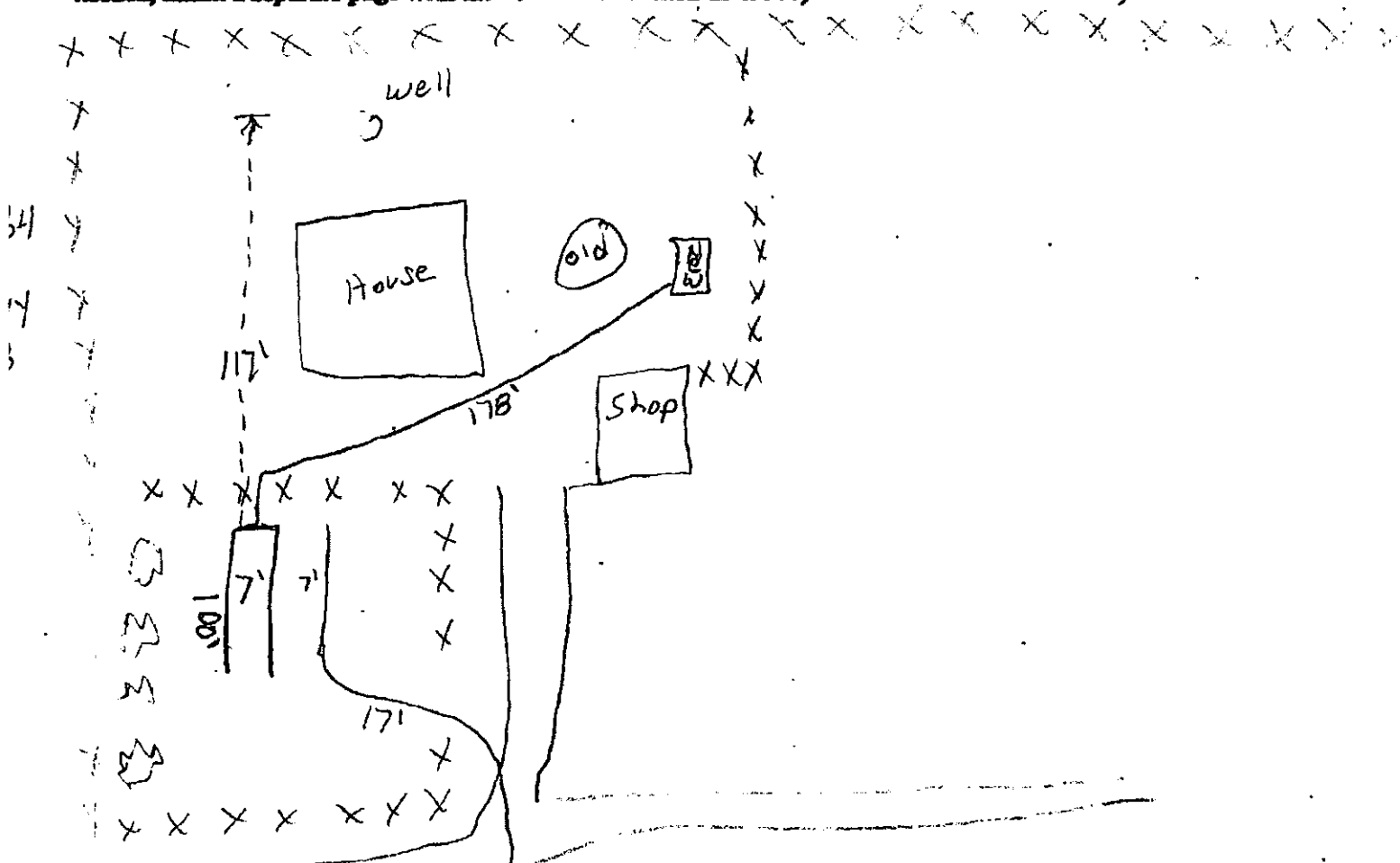
**FOR OFFICE USE ONLY**  
 Date Received \_\_\_\_\_  
 Application Approved \_\_\_\_\_ Date \_\_\_\_\_  
 Denied \_\_\_\_\_ Date \_\_\_\_\_  
 Inspected by Paul Turk Date 4-29-08  
 Comments pressure tested

Applicants Signature [Signature]  
 Date 04/18/08 (Owner of Record)  
 Installer \_\_\_\_\_  
 Carbon County Planning/Sanitarium's Office  
 PO Box 466 Red Lodge, MT 59068 (406) 446-1694  
 PERMIT # 08-04-19R

**08-04-19R**

Carbon County, Montana

septic tank, drainfield, and an arrow indicating the NORTHERN direction of the parcel of land. (If more room is needed, attach a separate page with the above information included)



**Minimum distances in feet**

From	To	Septic tank	Absorption Field
Well		50	100
Property Line		10	10
Foundation Wall		10	10
Water Lines		10	10
Streams, Lakes, Ditches, etc		50	100

**Minimum Liquid Capacity of Septic Tanks**

3 Bedrooms	1000 Gallon	5 Bedrooms	1500 Gallon
4 Bedrooms	1500 Gallon	6 Bedrooms	2000 Gallon

**SEPTIC PERMIT FEE SCHEDULE**

Basic Permit Fee	100- \$150.00	Public or Multi-Family	\$500.00	Installer License New	\$75.00
Site Evaluation	\$300.00	Replacement, Major Repair	\$100.00	Installer License Renew	\$50.00
		No Installation	< 30 MWR	(Must be renewed before January 31 <sup>st</sup> )	