



Montana Department of  
**E**NVIRONMENTAL **Q**UALITY

Judy Martz, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • Website: [www.deq.state.mt.us](http://www.deq.state.mt.us)

April 30, 2002

MCKEE ENGINEERING INC  
HC 49 BOX 3035A  
RED LODGE MT 59068

RE: Canyon Ranches 26 Lot Subdivision  
Carbon County  
E.Q. #02-1392

Dear Sir:

The plans and supplemental information relating to the water supply, sewage, solid waste disposal, and storm drainage (if any) for the above referenced division of land have been reviewed as required by ARM Title 17 Chapter 36(101-805) and have been found to be in compliance with those rules.

Two copies of the Certificate of Subdivision Plat Approval are enclosed. The original is to be filed at the office of the county clerk and recorder. The duplicate is for your personal records.

Development of the approved subdivision may require a General Discharge Permit for Storm Water Associated with Construction Activity. Please contact Brian Heckenberger at (406) 444-5310 for more information. Failure to obtain this permit (if required) prior to development can result in significant penalties.

Your copy is to inform you of the conditions of the approval. Please note that you have specific responsibilities according to the plat approval statement primarily with regard to informing any new owner as to any conditions that have been imposed.

If you wish to challenge the conditions of this Certificate of Subdivision Plat Approval, you may request a hearing before the Board of Environmental Review or the Department, pursuant to Section 76-4-126, MCA and the Montana Administrative Procedures Act.

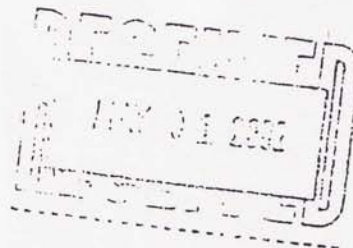
If you have any questions, please contact this office.

Sincerely,

*for* Theresa Blazicevich, Supervisor  
Subdivision Section  
Water Protection Bureau

TB/mds

cc: County Sanitarian  
County Planning Board



STATE OF MONTANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
CERTIFICATE OF SUBDIVISION APPROVAL  
(Section 76-4-101 through 76-4-131, MCA 1995)

TO: County Clerk and Recorder  
Carbon County  
Red Lodge, Montana

E.Q. #02-1392

THIS IS TO CERTIFY THAT the plans and supplemental information relating to the subdivision known as **Canyon Ranches Subdivision**

located in the NW1/4, SW1/4, and SE1/4 of Section 32, Township 7S., Range 20E., Carbon County

consisting of 25 lots have been reviewed by personnel of the Permitting and Compliance Division, and,

THAT the documents and data required by ARM Chapter 17 Section 36 have been submitted and found to be in compliance therewith, and,

THAT the approval of the Plat is made with the understanding that the following conditions shall be met:

THAT the lot sizes as indicated on the Plat to be filed with the county clerk and recorder will not be further altered without approval, and,

THAT each lot shall be used for one single family dwelling, and,

THAT the water supply system will be provided by Canyon Ranches Rural Public Water System, and

THAT the public water system will be constructed per McKee engineering plans and specifications and Department of Environmental Quality Approval dated April 8 2002, and,

THAT within 90 days after construction is completed upon a public water system, or upon an extension of or addition to such a system, the professional engineer shall certify to the Department that the construction, alteration or extension was completed in accordance with the plans and specifications approved by the Department April 8 2002, and

THAT project certification shall be accompanied by a complete set of "as-built" drawings bearing the signature and seal of the professional engineer, and,

THAT each individual sewage treatment system will consist of a septic tank and subsurface drainfield of such size and description as will comply with Title 17, Chapter 36, Sub-Chapters 1, 3, and 6 ARM, and,

THAT each subsurface drainfield for lots 1, 2, & 11 shall have an absorption area of sufficient size to provide 160 square feet per bedroom, (80 linear feet per bedroom), and,

THAT each subsurface drainfield for lots 4, 5, 7, 12, 18, 19, 23, 24, & 25 shall have an absorption area of sufficient size to provide 180 square feet per bedroom, (90 linear feet per bedroom), and,

THAT each subsurface drainfield for lots 3, 6, 8, 13, 14, 15, 16, 17, 20, 21, & 22 shall have an absorption area of sufficient size to provide 200 square feet per bedroom, (100 linear feet per bedroom), and,

THAT each subsurface drainfield for lots 9 & 10 shall have an absorption area of sufficient size to provide 220 square feet per bedroom, (110 linear feet per bedroom), and,

THAT the bottom of the drainfield shall be at least four feet above the water table, and,

THAT no sewage treatment system shall be constructed within 100 feet of the maximum highwater level of a 100 year flood of any stream, lake, watercourse, or irrigation ditch, nor within 100 feet of any domestic water supply source, and,

THAT water supply systems, sewage treatment systems and storm drainage systems will be located as shown on the approved plans, and,

THAT all sanitary facilities must be located as shown on the attached lot layout, and,

THAT non-degradation is non-significant due to shallowest ground water being in a confined aquifer according to well logs in the area, and that the nearest surface water is greater than 300 feet from the nearest drainfield so breakthrough is non-significant as well, and,

THAT the developer and/or owner of record shall provide each purchaser of property with a copy of the Plat, approved location of water supply and sewage treatment system as shown on the attached lot layout, and a copy of this document, and,

THAT instruments of transfer for this property shall contain reference to these conditions, and,

THAT plans and specifications for any proposed sewage treatment systems will be reviewed and approved by the county health department and will comply with local regulations and ARM, Title 17, Chapter 36, Subchapters 3 and 9, before construction is started.

THAT departure from any criteria set forth in the approved plans and specifications and Title 17, Chapter 36, Subchapters 1, 3, and 6 ARM when erecting a structure and appurtenant facilities in said subdivision without Department approval, is grounds for injunction by the Department of Environmental Quality.

THAT pursuant to Section 76-4-122 (2)(a), MCA, a person must obtain the approval of both the reviewing authority under Title 76, Chapter 4, MCA, and local health officer having jurisdiction, before filing a subdivision plat with the county clerk and recorder.

YOU ARE REQUESTED to record this certificate by attaching it to the Plat filed in your office as required by law.

DATED this 24 day of April 2002.

JAN P. SENSIBAUGH  
DIRECTOR

Reviewed & Approved  
*Rodney Fink*  
Rodney Fink, R.S.

By:

*Theresa J. Blazicevich*  
Theresa Blazicevich, Supervisor  
Subdivision Section  
Permitting and Compliance Division  
Department of Environmental Quality

Owner's Name: Christopher A. & Jeffrey J. Houden

**Montana Bureau of Mines and Geology  
Ground-Water Information Center Site Report  
HOUTEN CHRIST**

*Public water supply well  
along Willow Creek*

**Location Information**

*# 1*

GWIC Id: 193978  
Location (TRS): 07S 20E 32 CBC  
County (MT): CARBON  
DNRC Water Right:  
PWS Id:  
Block:  
Lot:  
Addition:  
Site Notes:

Source of Data:  
Latitude (dd):  
Longitude (dd):  
Geomethod:  
Datum:  
Certificate of Survey:  
Type of Site: WELL

**Well Construction and Performance Data**

Total Depth (ft): 25.00  
Static Water Level (ft): 9.00  
Pumping Water Level (ft):  
Yield (gpm): 30.00  
Test Type: AIR  
Test Duration: 1.00  
Drill Stem Setting (ft): 25.00  
Recovery Water Level (ft): 9.00  
Recovery Time (hrs): 0.16  
Well Notes:

How Drilled: ROTARY  
Driller's Name: AAQUA  
Driller License: WWC542  
Completion Date (m/d/y): 10/18/2001  
Special Conditions:  
Is Well Flowing?:  
Shut-In Pressure:  
Geology/Aquifer: Not Reported  
Well/Water Use: PUBLIC WATER SUPPLY

**Hole Diameter Information**

From	To	Diameter
0.0	18.0	10.0
18.0	25.0	7.0
25.0	26.0	6.0

**Casing Information<sup>1</sup>**

From	To	Dia	Description
-2.0	25.0	6.0	.250 STEEL

**Annular Seal Information**

From	To	Description
0.0	18.0	BENTONITE

**Completion Information<sup>1</sup>**

From	To	Dia	Description
25.0	26.0	6.0	OPEN HOLE

**Lithology Information**

From	To	Description
0.0	2.0	TOPSOIL DARK SOFT
2.0	5.0	BOULDERS GREY HARD
5.0	9.0	CLAY SAND BROWN SOFT
9.0	16.0	BOULDERS GREY HARD
16.0	25.0	GRAVEL BROWN MED
25.0	26.0	FORT UNION GREY MED

<sup>1</sup> - All diameters reported are **inside** diameter of the casing.

These data represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date of the retrieval.

**Montana Bureau of Mines and Geology  
Ground-Water Information Center Site Report  
HOUTEN CHRIST\*WELL 4**

Plot this site on a topographic map

*Public Water Supply Well #  
along Willow Creek*

**Location Information**

GWIC Id: 193979  
Location (TRS): 07S 20E 32 CBC  
County (MT): CARBON  
DNRC Water Right:  
PWS Id:  
Block:  
Lot:  
Addition:  
Site Notes:

Source of Data: LOG  
Latitude (dd): 45.1674  
Longitude (dd): -109.2967  
Geomethod: TRS-TWN  
Datum: NAD27  
Certificate of Survey:  
Type of Site: WELL

*#2*

**Well Construction and Performance Data**

Total Depth (ft): 24.00  
Static Water Level (ft): 6.80  
Pumping Water Level (ft):  
Yield (gpm): 20.00  
Test Type: AIR  
Test Duration: 2.00  
Drill Stem Setting (ft): 24.00  
Recovery Water Level (ft): 6.80  
Recovery Time (hrs): 0.16  
Well Notes:

How Drilled: ROTARY  
Driller's Name: AAQUA  
Driller License: WWC542  
Completion Date (m/d/y): 10/18/2001  
Special Conditions:  
Is Well Flowing?:  
Shut-In Pressure:  
Geology/Aquifer: Not Reported  
Well/Water Use: PUBLIC WATER SUPPLY

**Hole Diameter Information**

From	To	Diameter
0.0	18.0	10.0
18.0	23.3	7.0
23.0	24.0	6.0

**Casing Information<sup>1</sup>**

From	To	Dia	Description
-1.6	24.0	6.0	.250 STEEL

**Annular Seal Information**

From	To	Description
0.0	18.0	BENTONITE

**Completion Information<sup>1</sup>**

From	To	Dia	Description
24.0	24.0	6.0	OPEN BOTTOM

**Lithology Information**

From	To	Description
0.0	3.0	TOPSOIL DARK SOFT
3.0	5.0	CLAY AND GRAVEL DARK SOFT
5.0	10.0	CLAY BROWN SOFT
10.0	17.0	BOULDERS BROWN HARD
17.0	24.0	GRAVEL BROWN MED
24.0	26.0	CLAY TAN SOFT

<sup>1</sup> - All diameters reported are **inside** diameter of the casing.

These data represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date of the retrieval.