

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-151R
(See Variance Note)

Center Street Shops
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Robert A. Bercu

Bercu Investments

Box 543

Teton Village, WY 83025

to construct a 4" sewer connection and 4" water service connection according to the procedures and conditions of the application No. 93-151R. The facility is located in Section 27, T41N, R116W, (Town of Jackson, WY), in the County of Teton, in the State of Wyoming.

This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State

assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

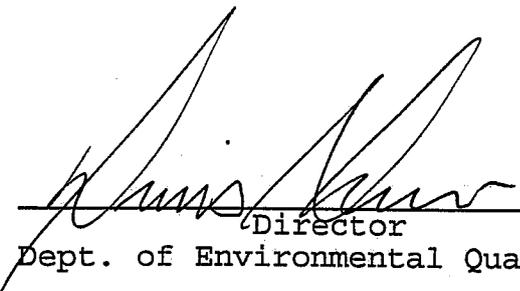
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

7-20-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

(over)

VARIANCE
(Permit to Construct, # 93-151R)

Since this facility is likely to generate over 2000 gal/day of average daily flow, the minimum diameter sewer line required by Department of Environmental Quality/Water Quality Division Rules and Regulations, Chapter XI, Section 9, is six (6) inches.

- However;
- 1). The engineer has provided sufficient proof (on file) a four (4) inch diameter line will provide adequate service for the proposed use, and
 - 2). The proposed site utilizes a single 4" diameter service from a single use to the Town main.

Therefore: A variance to the 6 inch diameter collector, as required by regulation, is granted to this applicant to allow the installation of a 4 inch diameter sewer service.

GL/nbs

PERMIT TO CONSTRUCT

New

Permit No. 93-152R

Renewal

Modified

Redstone Third Addition

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Redstone Corporation

Pinedale, WY 82941

to construct 1400 feet of 6" and 350 feet of 8" waterline according to the procedures and conditions of the application No. 93-152. The facility is located in NW¼, Sec.4, T33N., R109W, in the County of Sublette, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

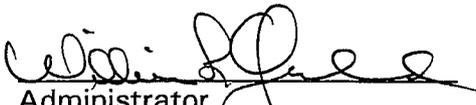
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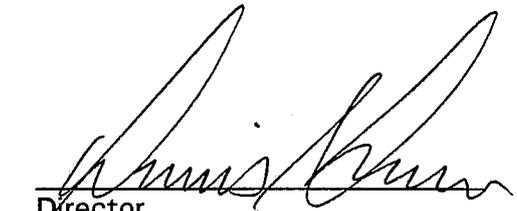
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

7-12-93
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

KE:fi - 33223.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 93-153
Reference No. 93-049R

GREGORY PARK II
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Walt Thulin

Box 938

Wilson, WY 83014

to install a six (6) inch diameter PVC sewer collector, and four (4) inch diameter water service line according to the procedures and conditions of the application No. 93-153. The facility is located in Section 6, T40N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

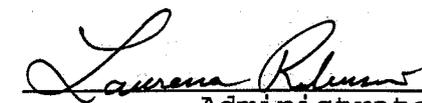
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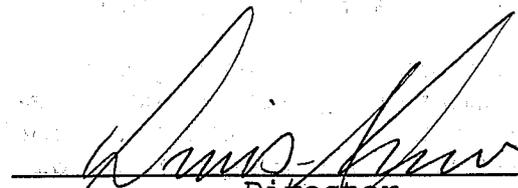
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AUTHORIZED BY:



Administrator
for Water Quality Division



Director
Dept. of Environmental Quality

6/25/93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

JH/gwl



THE STATE

OF WYOMING

JIM GERINGER

GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

February 7, 1995

Elaine Moncur
P. O. Box 545
Ralston WY 82440

RE: 93-154

Dear Elaine:

As per the application status form received by the Lander office February 7, 1995, your application is considered inactive and is being returned since you have indicated that E & B Landmark does not wish to proceed with the permit to construct process.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and punishable with fines not to exceed \$10,000.00 per day of violation. If this project has already been constructed, it is your responsibility to immediately contact this office for further instruction. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules & Regulations, must be followed.

Sincerely,

Jeff Hermansky, P.E.
Northwest District Supervisor

JH/jm

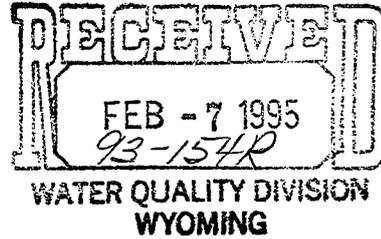
enclosure: Application forms
xc: IPS, DEQ/WQD, Cheyenne
file (2)



THE STATE OF WYOMING

JIM GERINGER

GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

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(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

CERTIFIED: Z 682 777 626

February 1, 1995

E & B Landmark
120 West 7th
Lovell, WY 82431



ELAINE B. MONCUR
P.O. BOX 545 (488 MAIN)
RALSTON, WY 82448
(307) 754-3400

Dear Sir:

Our records indicate your application for a Permit to Construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility Name: E & B Land Mark Septic Tank/Leach Field

DEQ/WQD Reference Number: 93-154

Engineering Consultant: n/a

DEQ/WQD Review Engineer: Greg Lanning/Jeff Hermansky

Date of DEQ/WQD Review: June 4, 1993

According to Chapter III of the Water Quality Rules and Regulations, Section 7(b)(2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

Please indicate below the status of your application and return this form to our office.

The application will not be resubmitted as the proposed project has been canceled.

The application will be resubmitted within thirty (30) days.

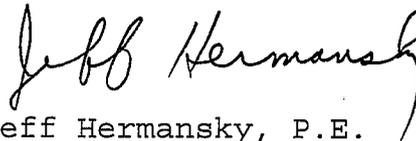
_____ The facility has been constructed, or is under construction. As-built construction plans and specifications will be submitted within thirty (30) days.

_____ Other Remarks:

Mr. Lanning spent a good deal of time reviewing your application and sending a letter with comments and suggestions in an effort to help you get a permit as required by State law. your lack of response is very inappropriate.

You are reminded that the construction, installation, or modification of any sewage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Unless the Water Quality Division review engineer receives information concerning the status of this project within fifteen (15) days of the receipt of this letter, follow-up action will be taken.

Sincerely,



Jeff Hermansky, P.E.
Northwest District Supervisor

JH/jyi

xc: IPS, DEQ/WQD, Cheyenne
WQD File 93-154 (2)
file (2)

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-155

WILSON RESIDENCE SEPTIC SYSTEM
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

June Wilson
General Delivery
Sundance, WY 82729

to construct, install or modify a wastewater treatment facility according to the procedures and conditions of the application No. 93-155. The facility is located in the SE/4, Section 6, Township 51 North, Range 62 West, in the County of Crook in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described

herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Supervisor, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

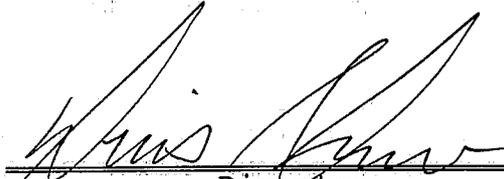
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
for Water Quality Division



Director
Dept. of Environmental Quality

6-14-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

JAS: 06/04/93

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-156
SPECIAL CONDITIONS

Weber No. 1 Well Rehabilitation

This permit hereby authorizes the applicant:

Cheyenne BOPU
2100 pioneer
P. O. Box 1469
Cheyenne, Wyoming 82001

to construct, install or modify source development, groundwater according to the procedures and conditions of the application number 93-156. The facility is located in NE 1/4 Section 24, T13N, R68W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

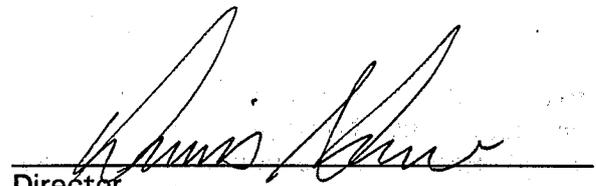
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

5/19/93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITIONS

1 of 3 Chapter XII Section 9b Paragraph (IX 1 and 2)

Where a well penetrates more than one aquifer or water-bearing strata, every aquifer and/or strata shall be sealed off to prevent migration of water from one aquifer or strata to another. Strata shall be sealed off by placing impervious material opposite the strata and opposite the confining formation(s). The seal shall extend above and below the strata no less than 10 feet. The sealing material shall fill the annular space in the interval to be sealed, and the surrounding void spaces which might absorb the sealing material. The sealing material shall be placed from the bottom to the top of the interval to be sealed.

The sealing material shall consist of neat cement, cement grout, or bentonite clay.

2 of 3 Chapter XII Section 9b Paragraph (X 1 and 2)

Any time during the construction of a well that mineralized water or water known

PERMIT NO. 93-156

to be polluted is encountered, the aquifer or aquifers containing such inferior quality water shall be adequately cased or sealed off so that water shall not enter the well, nor will it move up or down the annular space outside the well casing. If necessary, special seals or packers shall be installed to prevent movement of inferior quality water. Mineralized water may be used if it can be properly treated to meet all drinking water quality standards as determined by the administrator. When mineralized water is encountered, it shall not be mixed with any other waters from different aquifers within the well. If a well is penetrating multiple aquifers, mineralized water shall be excluded from the well if water is taken from other non-mineralized aquifers.

In gravel packed wells, aquifers containing inferior quality water shall be sealed by pressure grouting, or with special packers or seals, to prevent such water from moving vertically in gravel packed portions of the well.

3 of 3 Prior to the installation of the well pump and discharge piping, plans and specifications must be submitted, and a Permit to Construct obtained from the Department of Environmental Quality.

GLS/mad 32419.LTR

PERMIT TO CONSTRUCT

New

Permit No. 93-157R

Renewal

****CONDITIONED****

Modified

Rock Springs Pipeline Phase IX Raw Water Supply and Transmission
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Green River-Rock Springs-Sweetwater County

Joint Powers Water Board

165 Railroad Avenue, Suite C

Green River, WY 82935

to construct a Green River raw water intake structure; replace pumps in treatment plant clearwell, and construct 30" raw and treated water transmission pipelines facility according to the procedures and conditions of the application No. 93-157R. The facility is located in NW¼, Section 22, T18N, R177W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

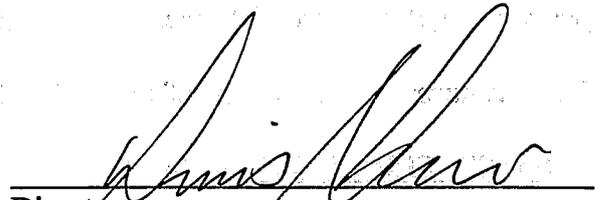
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

7-30-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT CONDITIONS 1 to 4

- 1 of 4. A plan for regular leak detection testing, at minimum of annual intervals, for pipelines crossing the Green River is to be submitted to the DEQ, Water Quality Division Lander office. The purpose of the testing is for cross contamination control and to prevent the discharge of chlorinated water into the Green River.

Permit to Construct

#93-157R

Green River-Rock Springs-Sweetwater County Joint Powers

Page 3

2 of 4. A construction schedule is to be submitted to the DEQ, Water Quality Division Lander office prior to beginning work on this project; work activities in or adjacent to the Green River are to be identified in the schedule. Updates of any changes to this schedule are to be submitted in a timely manner to allow 48 hours minimum notice for construction inspection by the DEQ.

3 of 4. This permit should not be considered as an endorsement or commitment to the water treatment plant on the existing site. The DEQ has denied a permit application to expand the existing water treatment plant based upon the potential threat to the public health and safety. This permit should not be construed as acceptance of any violation of the Water Quality Rules and Regulations, nor as a waiver of any of these standards.

If the excavation for this project encounters any contaminated soils, the DEQ Water Quality Division, Lander office is to be immediately contacted.

4 of 4. A separate NPDES discharge permit must be obtained for discharges of the trench dewatering operations or for any water discharges from the project. A storm water runoff permit may also be required (John Wagner's office in the Cheyenne, DEQ office should be contacted regarding both of these permits).

RRT/nc 33523.LTR

LAND APPLICATION PERMIT

[] New
[X] Renewal
[] Modified

PERMIT NO. 93-158
(Reference 92-376)
SEE SPECIAL CONDITIONS

FOUR HORSE ROAD APPLICATION
(Name of Facility)

This permit hereby authorizes the applicant (Name and address):

Stewart Petroleum Corporation
14 Inverness Dr. East HA-240
Englewood, CO 80112

to land apply produced water according to the procedures and conditions of the application No. 93-158. The application site is located in Section 3, 5, 9, 10, T47N, R68W, in the County of Weston in the State of Wyoming. This permit shall be effective until November 1, 1993.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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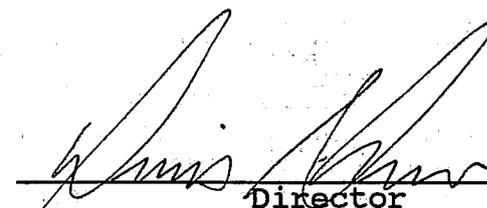
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

5-27-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.


DRM/pr:05/24/93

LAND APPLICATION SPECIAL CONDITIONS

1 of 4. The produced water shall be applied uniformly to the respective road sections contained within the application package.

LAND APPLICATION SPECIAL CONDITIONS, (Continued)

The application of produced water until November 1 shall be allowed on a one time basis providing saturated and/or frozen soil conditions do not exist.

2 of 4. The application site slope shall not exceed eight percent (8%) for vehicular application.

3 of 4. The application of produced water shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

4 of 4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457, to arrange a field inspection prior to initiation of work. The District Office should be notified at least 48 hours in advance of discharges and must be informed how much material will be applied, the specific site of application (to the nearest 1/4 section) and time of application.

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-159

Renewal

Modified

HARVEY RESIDENCE SEPTIC SYSTEM

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Randy Harvey
P.O. Box 160
Hulett, WY 82720

to construct, install or modify a wastewater treatment facility according to the procedures and conditions of the application No. 93-159. The facility is located in the NW/4 SW/4, Section 12, Township 54 North, Range 65 West, in the County of Crook in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising

from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Supervisor, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

5-24-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

AS JAS: 05/19/93

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-160

West Laramie Lift Station

This permit hereby authorizes the applicant:

City of Laramie
406 Iverson Street
Laramie, Wyoming 82070

to construct, install or modify a sewage collection system lift station according to the procedures and conditions of the application number 93-160. The facility is located in NE 1/4 Section 29 T16N R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

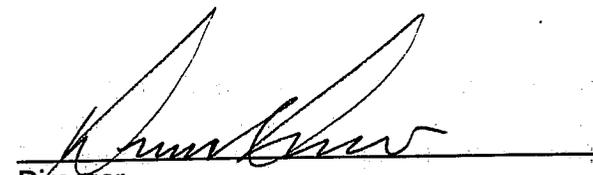
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

5-20-93
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RLE/bb/32433.LTR



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

1043 Coffeen Avenue, Suite D ● Sheridan, Wyoming 82801

AIR QUALITY
(307) 672-6457
Fax (307) 674-6050

LAND QUALITY
(307) 672-6488
Fax (307) 672-2213

WATER QUALITY
(307) 672-6457
Fax (307) 674-6050

January 20, 1995

Ms. Shauna Doven
Environmental Engineer
Western Gas Resources, Inc.
12200 North Pecos Street Suite 230
Denver, CO 80234-3439

Re: Oedekoven Gas Plant Permit Application number 93-161

Dear Shauna:

During our telephone conversation of December 15, 1994, Western Gas Resources informed this department that monitor wells were recently installed at the Oedekoven Gas Plant, Campbell County, Wyoming. Further review of the files revealed that these wells were installed without the proper Wyoming Department of Environmental Quality, Water Quality Division (WQD) construction permit. Construction of a facility without the proper permit is a violation of the Environmental Quality Act and is subject to a fine up to \$10,000 per day. In order to avoid further action from this department, Western Gas Resources must submit a WQD Permit to Construct Application ("As-Built") and all construction details and relevant site data regarding the monitor wells to this office within forty-five (45) days of receipt of this letter. Enclosed are several documents to assist in the application process including:

- 1) Chapter III Permit to Construct Application;
- 2) Standard Monitoring Well Conditions;
- 3) Report of Investigation;
- 4) Recommended Contents For Site Characterization Plan.

Ms. Shauna Doven
January 20, 1995
Page 2

Please feel free to call me in the Sheridan office at (307) 672-6457 if you have any questions.

Sincerely,

Wm. Donald Fischer

Wm. Donald Fischer
Senior Environmental Analyst
Water Quality Division, NE District

WDF/pr

Enclosures

cc: IPS/WQD, Cheyenne

RECEIVED

JAN 23 1995

WATER QUALITY DIVISION
WYOMING



THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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May 10, 1995

Ms. Shauna Doven
Western Gas Resources, Inc.
12200 N. Pecos St., Suite 230
Denver, CO 80234

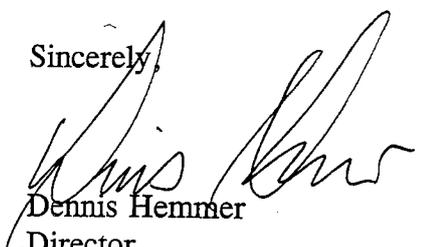
RE: As-Built Permit To Construct, WQD Reference Number 93-161

Dear Ms. Doven:

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the referenced As-Built Application submitted by your engineer, James Bethel of SECOR International. Our review indicates that the application appears to meet DEQ/WQD regulations and the enclosed As-Built Permit To Construct is hereby issued. The enclosed permit covers the monitor wells which have already been constructed.

Please be advised that the monitor wells must have been constructed, installed and sampled in accordance with the statements, representations and procedures presented in the application and all supporting documentation as well as the terms and conditions of the permit. You are urged to be familiar with all aspects of the permit application, permit and permit conditions. Any person objecting to a permit issued by the DEQ and desiring affirmative relief may request a hearing before the Environmental Quality Council in accordance with the Rules of Practice and Procedure for the Department of Environmental Quality and the Wyoming Administrative Procedures Act.

Sincerely,



Dennis Hemmer

Director

Department of Environmental Quality

DH/DF/jn - 52034.ltr

cc: Don Fischer, WQD, Sheridan
IPS, Cheyenne
James Bethel, SECOR

AS-BUILT
PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-161
SPECIAL CONDITIONS

OEDEKOVEN GAS PLANT

This permit hereby authorizes the applicant:

WESTERN GAS RESOURCES, INC
12200 NORTH PECOS STREET, SUITE 230
DENVER, CO 80234-3439

to have constructed, installed or modified monitor wells according to the procedures and conditions of the application number 93-161. The facility is located in NE ¼ Section 30, Township 55N, Range 73W in the county of Campbell, in the State of Wyoming.

The issuance of this permit confirms that the Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and/or operator.

Granting this permit does not imply that the Wyoming DEQ guarantees or ensures that the permitted facility, meets applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by the DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by the DEQ statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and/or operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the state does not waive its sovereign immunity.

The permittee shall allow authorized representatives from the DEQ, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee has constructed and shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

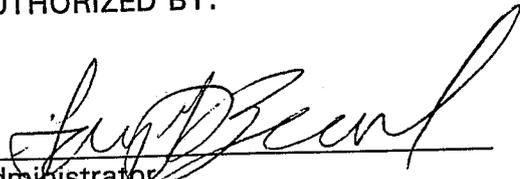
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 1 of 2. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 60 of Wyoming Water Quality Rules and Regulations. No monitoring well shall be abandoned without prior approval from the Water Quality Division.
- 2 of 2. All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters according to the EPA Method stated:

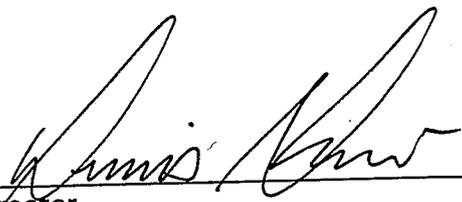
EPA Method 8020 for Benzene, Ethylbenzene, Toluene and Xylenes
EPA Method 8015 (Modified) for TPH

The results of these analyses shall be submitted to the Sheridan office, 1043 Coffeen Avenue, Suite D, Sheridan, WY 82801, by the last day of the month following the end of each quarter.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

5-12-95

Date of Issuance

DF/jn - 52034.ltr

cc: IPS, Cheyenne

GROUNDWATER POLLUTION CONTROL PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1043 COFFEEN AVENUE, SUITE D
SHERIDAN, WYOMING 82801

PROJECT: SITE CHARACTERIZATION

FACILITY: OEDEKOVEN GAS PLANT

APPLICANT: WESTERN GAS RESOURCES
12200 North Pecos St., Suite 230
Denver, CO 80234
Attn: Shauna Doven

CONSULTANT: SECOR INTERNATIONAL, INC.
355 Union Boulevard, Suite 200
Lakewood, CO 80228-1500
Attn: Jamie Bethel

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 93-161

EXISTING NEW AS BUILT

TITLE: Monitor Well Permit Application, Oedekoven Gas Plant

PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/REPORT: 4/14/95

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING GEOLOGIST:


(Signature)

DATE OF THIS REVIEW: 5/10/95

ACTION: AS-BUILT PERMIT TO CONSTRUCT AUTHORIZED

COMMENTS: GROUNDWATER SECTION

I. **SUMMARY OF EXISTING CONTAMINATION:**

Soil and groundwater contamination probably result from condensate leaking from underground piping beneath the facility over a long period of operation. The amount of condensate in the subsurface has been estimated at 200,000 gallons by SECOR and DEQ staff. The facility is no longer in operation. Contamination has migrated off-site onto the property of Leon Oedekoven. Western Gas Resources has obtained permission from the property owner to conduct an extent of contamination investigation.

The following table displays the results from the December 1994 sampling event at the Oedekoven Gas Plant.

TABLE 1: GROUNDWATER SAMPLING RESULTS: DECEMBER 1994					
MONITOR WELL NO.	LNAPL THICKNESS (FT)	BENZENE (ug/l)	TOLUENE (ug/l)	ETHYL-BENZENE (ug/l)	XYLENES (ug/l)
MW-6	0.23	-	-	-	-
MW-10	0.22	-	-	-	-
MW-11	0.67	-	-	-	-
MW-12	2.15	-	-	-	-
MW-13	-	495	145	<0.5	9.2
MW-14	2.42	-	-	-	-
MW-15	2.05	-	-	-	-
MW-16	-	<0.5	52.3	<0.5	4.2
MW-17	-	<0.5	<0.5	<0.5	<0.5
MW-18	-	3243	463	<0.5	96.9
MW-19	-	127	28.7	<0.5	2.2
MW-20	-	2793	632	33.0	208
MCL		0.5	700	1,000	10,000

wells with free product were not analyzed for BTEX
MCL = maximum contaminant level

II. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

- 1) The seven monitor wells installed by SECOR for Western Gas Resources (WGR) in December, 1994 were designed to further delineate the off-site extent of contamination. These monitor wells were installed without a construction permit from DEQ. The wells are being as-built permitted under Permit to Construct no. 93-161. These monitor wells assisted in delineating the extent of contamination in the north and west directions. However, the extent of contamination has not been delineated in the east and south directions. The direction of groundwater flow at this facility appears to be east-southeast.
- 2) SECOR also conducted soil vapor extraction and air sparge tests at this facility over the period of December 8 through December 10, 1994 to evaluate the feasibility of the use of these systems for future remediation of soil and groundwater. These tests were also administered without authorization from DEQ. The results of these pilot tests demonstrated that these technologies should be effective in the removal of volatile organic compounds from the impacted soil and groundwater.

III. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

- 1) WGR shall complete the horizontal and vertical extent of contamination investigation for both free phase and dissolved phase hydrocarbons both on-site and off-site of the facility. Please submit a site characterization plan to this office within sixty (60) days of receipt of this review that proposes how WGR shall define the extent of contamination. A copy of Water Quality Division's "Recommended Contents For A Site Characterization Plan" is included for guidance in preparation of this workplan. The application for a permit to construct application must contain three copies of both the application form and site characterization plan.
- 2) Further work on the soil vapor extraction/air sparge system must not continue until the proper construction permit is issued by this department. If WGR plans to proceed with a SVE/AS system, a permit application must be submitted to this department. As stated above, this application must be submitted in triplicate and must contain all plans, specifications, and pertinent design information.

As-Built Permit to Construct number 93-161 for the existing monitor wells at the Oedekoven Gas Plant is issued under the following conditions:

1. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 60 of Wyoming Water Quality Rules and Regulations. No monitoring well shall be abandoned without prior approval from the Water Quality Division.

2. All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters according to the EPA Method stated:

EPA Method 8020 for Benzene, Ethylbenzene, Toluene and Xylenes
EPA Method 8015 (Modified) for TPH

The results of these analyses shall be submitted to the Sheridan office by the last day of the month following the end of each quarter.

END OF REVIEW

THE STATE



OF WYOMING

MIKE SULLIVAN
GOVERNOR

CAM



Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

AIR QUALITY
(307) 672-6457
Fax (307) 674-6050

LAND QUALITY
(307) 672-6488
Fax (307) 672-2213

WATER QUALITY
(307) 672-6457
Fax (307) 674-6050

January 17, 1995

Ms. Shauna Doven
Environmental Engineer
Western Gas Resources, Inc.
12200 North Pecos Street Suite 230
Denver, CO 80234-3439

Re: Oedekoven Gas Plant Permit Application number 93-162

Dear Shauna:

After review of Permit Application number 93-162, the Wyoming Department of Environmental Quality, Water Quality Division (WQD) is withdrawing this application from the permitting process and returning it to Western Gas Resources for the following reasons:

- 1) the recovery wells were installed in 1993 before acquisition of the proper WQD permit;
- 2) the permit application was incomplete as submitted;
 - a) the permit did not contain sufficient site characterization and proper plans and specifications for the recovery system to allow issuance of a WQD Permit to Construct;
 - b) the plans and specifications were not stamped by a professional engineer licensed in the state of Wyoming.

Western Gas Resources is in violation of Water Quality Rules and Regulations for construction of a facility without a permit.

Western Gas Resources must submit a WQD Chapter III "As-Built" Permit to Construct application along with all plans, specifications and proper site characterization for the recovery system to this office within forty five (45) days of receipt of this letter. Enclosed please find a draft copy of a WQD guidance

Ms. Shauna Doven
January 17, 1995
Page 2

document for well recovery systems and a Chapter III Permit to Construct to assist in the application process. Please contact me directly in the Sheridan office at (307) 672-6457 if you have any questions.

Sincerely,



Wm. Donald Fischer
Senior Environmental Analyst
Water Quality Division, NE District

WDF/pr

Encl: Permit Application number 93-162
Chapter III Permit to Construct
Guidance Document: Well Recovery Systems

cc: IPS/WQD, Cheyenne

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-163

Frank & Barbra Engle Septic System

This permit hereby authorizes the applicant:

Frank & Barbra Engle
249 Grange Rd.

Wheatland, WY 82201

to construct, install or modify small wastewater septic system according to the procedures and conditions of the application number 93-163. The facility is located in NW 1/4 Section 5, T26N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

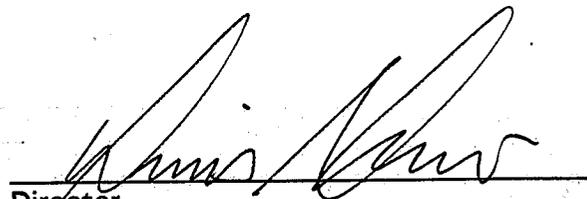
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

5-25-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

GLS/mad 32511.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-164
SPECIAL CONDITIONS

Terry Bison Ranch - Recreational Facility

This permit hereby authorizes the applicant:

Daniel R. Thiel
3030 Frontier
Cheyenne, Wyoming 82001

to construct, install or modify public water supply system facilities and sewage collection and treatment system facilities according to the procedures and conditions of the application number 93-164. The facility is located in SW 1/4 Section 16 T12N R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

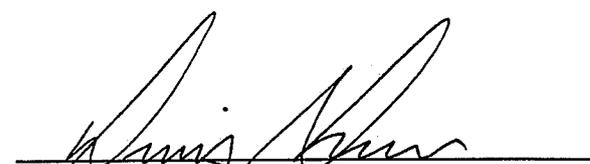
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

6-28-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITIONS

- 1 of 5. Proposed Slaughter House Requires Separate Permit - The proposed slaughter house which has been indicated to be a possible future addition to the Terry Bison Ranch is not included in the plans approved by this permit. Therefore, should this facility be built in the future it will require a separate "Permit To Construct" which addresses both the wastewater disposal issues and the type of water service connection and level of backflow prevention provided.
- 2 of 5. Nondischarging Pond System - Leak Detection System -
 - a. Four(4) inches of clean pea gravel shall be installed between the compacted liner subbase material and the synthetic liner to facilitate movement of water from a liner leak to the collection trenches.
 - b. The liner subbase material shall be compacted to at least 95% of standard proctor compaction, and a report on this shall be submitted to DEQ/WQD for review and approval before any water is placed in the ponds.

PERMIT NO. 93-164

- c. At the riser elbow of each collection pipe a "Tee" shall be installed instead of an elbow and a capped sump area provided of sufficient size and depth to allow for sample collection and a low spot from which to pump the collection pipe dry after water has been detected.

3 of 5. Septic Systems and Septic Tanks -

- a. **Tanks in General** - Rick's Precast Concrete Septic Tanks are used throughout the project. These septic tanks have a condition imposed on them by the WQD that "The manholes on the septic tank (one on each compartment) must be extended to the surface because there are no clean-outs included on Rick's Precast Concrete septic tanks as required." Therefore, each tank to be used in this project must be verified if it is a single or double compartment tank and that a manhole is extended to the surface from each compartment. This must be verified and approved by the inspecting authority.
- b. **Gathering Hall Leach Field** - The use of the impermeable vertical liner on the east side of this leach field to prevent potential sidehill breakout of the leach field liquids is approved.
- c. **Saloon Leach Field** - Because this leach field has already been constructed and covered without a proper "Permit To Construct" and without the proper inspections, portions of this leach field will have to be uncovered enough to satisfy the inspecting authority - which in this case is the Laramie County Environmental Health Division.

4 of 5. Dry Hydrants on Cisterns - The drop tube which extends vertically down into the cistern shall be terminated at an elevation above that of the water supply line which connects the cistern to the vault room.

5 of 5. Operation and Maintenance Manual - It is required that an O&M manual which covers both the water supply system and the wastewater system be submitted to the WQD for **review and approval** before either system is placed into service. This manual should include anything which is pertinent to the proper operation and maintenance of the systems which would include, but not be limited to:

- a. the operation and maintenance of individual pieces of equipment,
- b. general systems operating procedures,
- c. monitoring and record keeping procedures,
- d. emergency procedures should critical components of the system fail, and
- e. all other pertinent information necessary to satisfy the requirements of Chapter XI, Section 24, and Chapter XII, Section 16 of the Wyoming Water Quality Rules and Regulations (WQR&R).

PERMIT NO. 93-164

Additional Comments (Not DEQ/WQD Requirements):

- A. Licensed Public Water System Operator - Because this system will be classified as some level (as yet unknown) of public water supply system, the operators of this facility will need to have the proper level of water system operator. A copy of the "Facility Configuration Form" and instructions, along with Chapter V of the Wyoming WQR&R have already been provided to the project engineer. Please complete this form and return it at the earliest possible date to the WQD for processing. If you have any questions about this subject please call Louise Emerson, the Water Quality Occupational Licensing Officer, at 777-6128.
- B. Water Quality Sampling - Because this system will be a public water supply, it will fall under the jurisdiction of the EPA Drinking Water Section and require periodic sampling. To find out what you will need to sample for, where to take samples, and how often to sample; please contact the Wyoming Drinking Water EPA Coordinator, Maureen Daughtie, at the toll free number: 1-800-227-8917, extension 2617. This information should also be included in the O&M manual.

RLE/bb/33059.ltr

cc: Laramie County Environmental Health Division

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Terry Bison Ranch - Recreational Facility

ENGINEER: Jack L. Noblitt
Jack Noblitt & Associates, P.C.
1920 Thomes Ave., Suite 620
Cheyenne, Wyoming 82001

APPLICANT: Daniel R. Thiel
3030 Frontier
Cheyenne, Wyoming 82001

WATER QUALITY REFERENCE NUMBER: 93-164

REVIEWING ENGINEER: Ronald L. Ewald *RLE*

APPROVING ENGINEER: *for* → Larry Robinson, P.E.

DATE OF REVIEW: June 17, 1993

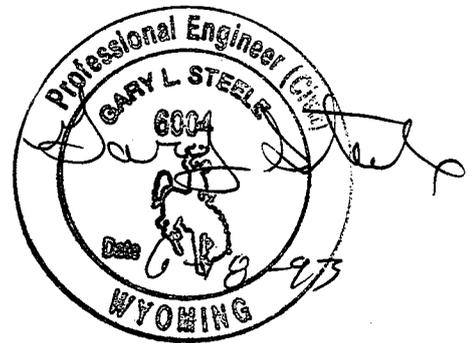
ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

Wastewater System:

1. Proposed Slaughter House - In the narrative of the Engineering Design Report (EDR) it says that the wastewater loading from this proposed facility has been allowed for in the design of the wastewater collection and disposal system. However, no quantitative indication of what this load might be is ever specified, nor is this potential volumetric load included in the design of the sewage lift station or the nondischarging pond system. This potential load needs to be quantified and included in the designs of both the lift station and the pond system.

If the hydraulic and organic loading from the proposed slaughter house is not included in this design the permit can be issued without provision for this potential load. If however, after having permitted the sewerage system without the slaughter house included, the applicant later wished to add the slaughter house waste into the system this would constitute a modification and require a new "Permit To Construct". A permit



could only be issued after new plans were submitted and approved which would show any changes to the system and demonstrate that the system could handle the additional load.

2. Sewage Lift Station - More details on this lift station need to be specified, including:

- a. Descriptions of the audio and visual alarm systems necessary to meet the requirements,
- b. More information on the pumps including cycle times,
- c. Alternate power source, and
- d. Other lift station requirements as specified in Chapter XI, Section 10.

3. Nondischarging Pond System Loading Factors

- a. The EDR indicates that an average flow of 1/2 of the peak flows as determined by Table 1 on page 92 was used as the design factor for the pond volumes. How was this 1/2 factor arrived at? Please explain and provide justification.
- b. Please explain how the figure of 1300 gallons/day for the R.V. Dump station was arrived at.
- c. The volumetric loading from the proposed slaughter house must also be included in the design of the pond size.
- d. Please provide more detailed information and calculations as to how the figure of 9 lbs/day/acre of BOD loading was arrived at.

4. Nondischarging Pond System Sizing

- a. The water balance calculations should be done volumetrically, not as absolute depths since the depth that a distinct volume of load creates will vary depending on the depth and surface area of the pond.
- b. Rainfall can not be simply converted to depth as the rainfall which actually enters the pond falls over a fixed area which is larger than the water surface area. Virtually all rainfall which falls on the inside of the crown of the dike which surrounds the pond will run into the pond. Therefore, the rainfall contribution to the pond system should be based on this area and also added as a volumetric load to the pond system.

- c. Preliminary review of the simplified pond size calculations based solely on yearly averages of inflow, precipitation, evaporation, and pond depth, by this department indicate that the pond system may be too small. Since evaporation is the only way to remove liquid from a synthetically lined pond, and since evaporation rates fluctuate widely depending on the time of year, and since actual evaporation is directly related to the actual water surface area at any given time; the evaporation losses from this pond system need to be evaluated in a more sophisticated manner than just yearly averages. A month by month water balance based on monthly precipitation and evaporation rates and estimates of the fluctuating pond depths and corresponding surface areas should provide a much better indication if the pond system is properly sized.

5. Leak Detection System - Need more details and discussion on:

- a. The nature of the liner bedding material,
- b. More specs on the liner material itself and information on the installation procedures and quality control measures to be used to ensure that the seams are indeed water tight,
- c. The leak detection collection system needs to be designed such that it will collect a leak which occurs from any area of the pond, and also
- d. How will it be identified that a leak has actually occurred, and how will sampling be done, how often, etc.?

6. Pond Depth Monitoring - Suitable pond depth monitoring devices should be placed in each cell of the pond system so that accurate records of the system performance can be maintained.

7. R.V. Dump Station - The collection drain pipe inlet should be placed below grade and at the bottom of a surrounding sloped concrete splash pad of sufficient size to catch the inevitable accidental spillage. The drain inlet should also be covered by an appropriate hatch lid. The yard hydrant arrangement shown in the plans with a hose attached does not meet the level of backflow prevention protection necessary. The applicant might consider a commercial water tower which is specifically designed for this type of facility, rather than the yard hydrant currently indicated. Otherwise, the backflow prevention device used on this hydrant shall meet the requirements of Chapter XII, Section 14(i) concerning cross-connections and should meet AWWA M14 "Recommended Practices For Backflow Prevention and Cross-Connection Control". Finally, any device used should be approved by the Foundation for Cross-Connection Control, University of Southern California. Please include this information in the EDR or the specifications.

8. Clogging/Minimum Velocities - Please evaluate the minimum velocities in the system, especially during periods of extended low use such as the winter time, to see if clogging will be a problem. This should be addressed in the O&M manual as appropriate.
9. Septic Systems

General Comments:

- a. Rick's Precast Concrete Septic Tanks are used throughout the project. These septic tanks have a condition imposed on them by the WQD that "The manholes on the septic tank (one on each compartment) must be extended to the surface because there are no clean-outs included on Rick's Precast Concrete septic tanks as required." Therefore, each tank to be used in this project must be verified if it is a single compartment or double compartment tank and that a manhole is extended to the surface from each compartment.
- b. The perk test data submitted for the saloon and the gathering hall is identical. Please reexamine this situation and revise as necessary.
- c. The sizes and layouts of the 2 leach fields are okay provided the reevaluation of the perk data in 8.b. above does not necessitate a change. This must be checked after the perk data reevaluation is completed.

Gathering Hall Leach Field:

- d. The use of the impermeable vertical liner on the east side of this leach field to prevent potential sidehill breakout of the leach field liquids is approved.

Saloon Leach Field:

- e. Because this leach field has already been constructed and covered without a proper "Permit To Construct" and without the proper inspections, portions of this leach field will have to be uncovered enough to satisfy the inspecting authority - which in this case is the Laramie County Environmental Health Division.

Public Water System:

10. Well/Cistern/Chlorination/Pump System - There are some discrepancies on the plans as submitted as to what the actual arrangement of these components will be. Please update and resubmit corrected plans and EDR comments.

11. Chlorination System
 - a. What exactly is the chlorine solution going to be?
 - b. Are the well pit and 4' x 4' wooden structure where the two chlorination units are to be placed properly ventilated?
 - c. Are all other applicable requirements of Chapter XII, Section 11 properly met? Such as: chemical storage, access control, feed lines, and dosing rates, etc.
12. Water Demand Estimates - Table 1 of the Water System EDR, which is used to develop the Maximum Hour Water Demand, is unclear. Where did the usage/unit figures come from, and is a maximum hour really equal to daily flow divided by 24 hours? The maximum hour and maximum day demands need to be better established and justified. Also, the average and peak daily water demands must be figured strictly for the open season of the facility at full occupancy.
13. Well Yield and Drawdown Tests and Reporting - The EDR indicates that each well/cistern system will be able to provide at least 50 gpm of water. However, inadequate well test data is supplied to support this claim. The statement that "The owner indicates the north well was pumped for 24 hours at approximately 30 gpm, and there was no noticeable drawdown", is not sufficient from an engineering design standpoint. Well yield and drawdown tests must be done on each well according to Chapter XII, Section 9(b)(ii).
14. Storage and Cycling of Storage
 - a. Is the total storage of the system and/or the production capacity of the wells sufficient to meet the requirements of Chapter XII, Section 9(b)(i)?
 - b. Please describe the sequencing of the vault pumps with the well pumps and cistern floats as relates to the cycling of the water level in the cisterns. Are the water levels in the two cisterns in phase or out of phase with each other?
15. Operating Water Pressure - The EDR indicates that operating pressures in some parts of the system will be as low as 27.87 psi. This is below the 35 psi "normal working pressure" as required by Chapter XII, Section 14(b)(i).
16. Water Quality Information - The water quality test results referred to in the EDR are not included as indicated. Please provide this information for review by the WQD.

17. Licensed Public Water System Operator - Because this system will be classified as some level (as yet unknown) of public water supply system, the operators of this facility will need to have the proper level of water system operator. A copy of the "Facility Configuration Form" and instructions, and Chapter V are included with this review. Please complete this form and return it at the earliest possible date to the WQD for processing. If you have any questions about this subject please call Louise Emerson, Water Quality Occupational Licensing Officer, at 777-6128.
18. Water Quality Sampling - Because this system will be a public water supply, it will fall under the jurisdiction of the EPA Drinking Water Section and require periodic sampling. To find out what you will need to sample for, where to take samples, and how often to sample, please contact the Wyoming Drinking Water EPA Coordinator, Maureen Daughtie, at the toll free number: 1-800-227-8917, extension 2617. This information should also be included in the O&M manual.

Specific Campground Requirements (Chapter XI, Part F) :

19. Sewer Service Details - Section 58(b)(iii) requires that the riser portion of the service connection pipe be:
 - a. Constructed of cast iron or schedule 40 PVC,
 - b. Terminate at least four inches above finished grade, and
 - c. Located no closer than five feet from a potable water service riser.

Please verify or modify these features as necessary.

20. Water Service Details - Section 59(d)(ii) does not allow below ground stop and waste valves with weep holes below ground. The "typical" valve and faucet arrangement shown on the plans shows loose rock below the valve which might indicate a weep hole. Please elaborate or modify as necessary. Also, the location of the check valve gives rise to the question - How will the hydrant risers, and other portions of the system, be drained when the camp is closed to prevent freezing damage in the winter? Please explain this and include any necessary procedures in the O&M manual.

Operation and Maintenance Manual:

21. It is required that O&M manuals for both the water and wastewater systems be submitted to the WQD for review and approval before either system is placed into service. These manuals should include anything which is pertinent to the proper operation and maintenance of the systems which would include, but not be limited to:

Review of Plans & Specs - 93-164

June 17, 1993

Page 7

- a. the operation and maintenance of individual pieces of equipment,
- b. general system operating procedures,
- c. monitoring and record keeping procedures,
- d. emergency procedures should critical components of the system fail, and
- e. all other pertinent and necessary information.

This requirement will be included as a condition in the "Permit To Construct".

/nc 32942.LTR



93-164



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781
FAX (307) 777-5973

June 7, 1993

Jack Noblitt, PE
Jack Noblitt & Assoc.
1920 Thomes Suite 620
Cheyenne, WY 82001

Dear Jack:

In an effort to comply with the Statutes governing Professional Engineers specifically Appendix A (Code of Ethics for Engineers), Section II, paragraph 4d, reviews and permits for the projects listed below will be done by Ron Ewald and all supervisory action will be done by Larry Robinson. I will not participate on these projects except to monitor their progress for record keeping purposes only.

Reference No.	Project Description
91-354	Madden Brothers Feedlot
93-164	Terry Bison Ranch Rec Facility Fox Farm Utility Relocation

If you have any questions or problems with this letter please feel free to contact me.

Sincerely,

Gary Steele, PE
Southeast District Supervising Engineer
Water Quality Division

GS/nc 32718.LTR

cc: Larry Robinson, File 91-354, File 93-164

PERMIT TO CONSTRUCT

New

Permit No. 93-165R

Renewal

Modified

Employee Housing
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Virginia Investment Company

Box 1052

Jackson, WY 83001

to construct a 6 inch diameter sewer collector and 6 inch diameter water line according to the procedures and conditions of the application No. 93-165R. The facility is located in Section 33, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

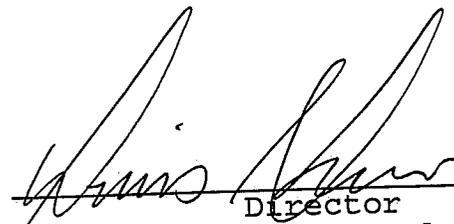
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
for Water Quality Division



Director
Dept. of Environmental Quality

6/15/93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

JH/jyi

PERMIT TO CONSTRUCT

New

Permit No. 93-166

Renewal

Modified

Diesel Release Remedial Facility
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Bridger Coal Company

P.O. Box 2068

Rock Springs, WY 82902

to construct a diesel fuel recovery system according to the procedures and conditions of the application No. 93-166. The facility is located in SE $\frac{1}{4}$ Sec. 36, T21N, R100W and NE $\frac{1}{4}$ Sec. 3, T20N, R101W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein.

By the issuance of this permit, the State does not in any way waive its sovereign immunity.

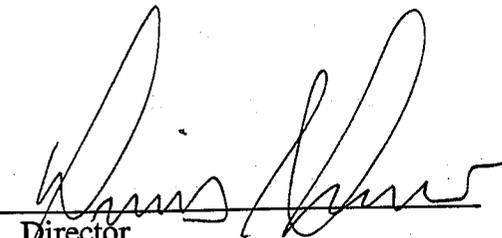
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

	
Administrator	Director
Water Quality Division	Dept. of Environmental Quality

6-7-93
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

dg: \BRIDGER\93-166.PC

MEMORANDUM

TO: File: Permit #93-167 (Wyoming Refining Company) Recovery Wells RW-13 to RW-18

FROM: K. Frederick 

DATE: August 9, 1993

RE: Explanation: Plans and specifications not stamped/approved by WDEQ Professional Engineer

These recovery wells were proposed to EPA by Wyoming Refining Company (WRC) as a means to allow WRC to reach compliance with its Consent Decree with EPA. At the request of EPA, DEQ/WQD reviewed the proposal for the above recovery wells and had several concerns with respect to the efficacy of the proposed locations. Due to these critical concerns, a formal engineering review was not needed at this time; the application for a WQD Permit to construct the wells was not authorized by the Department. Comments were provided to both EPA and the applicant (WRC), informing both parties that DEQ/WQD would not authorize the Permit as proposed until EPA agreed that the proposed wells complied with the terms of WRC's original proposal dated July 9, 1992.

In a letter to WRC dated September 16, 1993 EPA informed WRC that the applicant could proceed with installation of the wells "at their own risk".

Since the Wyoming Supreme Court had ruled (*Hermes Consolidated v. People*; No. 92-89, April 6, 1993) that the State cannot become party to the recovery well system identified in EPA's Consent Decree with WRC, DEQ had no choice but to issue the Permit for these recovery wells, even though the Permit was not authorized.

/nc 35315.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-167
SPECIAL CONDITIONS

Wyoming Refining Company

This permit hereby authorizes the applicant:

Wyoming Refining Company
740 West Main
Newcastle, WY 82701

to construct, install or modify GPC: Groundwater Recovery Wells according to the procedures and conditions of the application number 93-167. The facility is located in Section 29, T45N, R61W in the county of Weston, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: K. Frederick, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

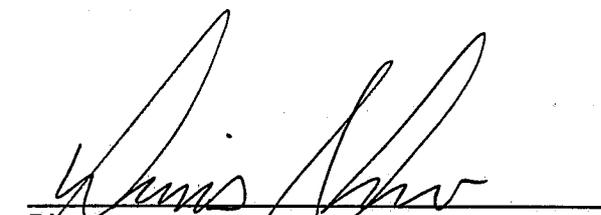
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

8-9-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITIONS

- 1 of 1. The applicant is responsible for obtaining any and all permits required by the State Engineer's office.

/nc 33712.LTR



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756 FAX (307) 634-0799	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781 FAX (307) 777-5973
----------------------------------	--	---	--	--

August 6, 1993

Mr. Bob Neufeld, Manager
Environmental Operations
Wyoming Refining Company
1600 Broadway, Suite 2500
Denver, CO 80202

RE: DEQ/WOD Permits to Construct:
RW-10, 11 and 12 (#93-115);
RW-13, 14, 15, 16, 17 and 18 (#93-167)

Dear Mr. Neufeld:

Enclosed, please find Permits to Construct #93-115 and #93-167 for the installation of additional groundwater extraction wells at Wyoming Refining Company's (WRC) Newcastle, Wyoming refinery.

In the review comments attached to its letter of July 8, 1993 to Mr. J.L. Jackson, the Water Quality Division (WQD) expressed its technical concerns with WRC's proposals¹ to proceed

¹ "Hydrogeologic Information to Accompany Permit Application for Recovery Wells RW-10, RW-11, RW-12", February 15, 1993;

"Engineering Report to Accompany Permit Application for Recovery Wells RW-10, RW-11, RW-12", March 25, 1993.

"Hydrogeologic Information to Accompany Permit Application for Recovery Wells RW-13 Through RW-18", February 15, 1993;

"Engineering Report to Accompany Permit Application for Recovery Wells RW-13, 14, 15, 16, 17 & 18", May 3, 1993.

August 6, 1993

Page 2

with installation of the extraction wells. Upon invitation, these comments were also provided to EPA. It is WQD's understanding that EPA has similar concerns.

Please feel free to contact me should you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Kevin D. Frederick".

Kevin D. Frederick, P.G.
Supervisor
Groundwater Pollution Control Program

KDF/nc 33710.LTR

attachment

cc: Dennis Hemmer, Director, DEQ
Bill Garland, Administrator, WQD
Keith Burron, Attorney General's Office
Randy Lamdin, EPA, Denver

WRC/93-115-1.LTR

R7 93-167



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781
FAX (307) 777-5973

July 8, 1993

Mr. J.L. Jackson
Environmental Manager
Wyoming Refining Company
P.O. Box 820
Newcastle, WY 82701

RE: Permit Applications for Recovery Wells RW-10, 11, and 12 [93-115] & RW-13, 14, 15, 16, 17 and 18 [93-167]

Dear Mr. Jackson:

The Water Quality Division has reviewed the applications submitted by Wyoming Refining Company (WRC) for the installation of additional recovery wells and has advised the EPA of its concerns via submittal of the attached comments.

In an effort to cooperate and participate with the US EPA in the execution of remedial measures and consent orders, the Division will issue Permits to Construct for the recovery wells upon written notification from EPA that WRC is allowed to proceed with installation of the recovery wells.

Please feel free to contact me should you have any questions.

Sincerely,

Kevin D. Frederick, P.G.
Supervisor, Groundwater Pollution Control Program
Water Quality Division

KDF/nc 33287.LTR

Attachment

cc: Dennis Hemmer, Director, DEQ
Bill Garland, Administrator, WQD
Randy Lamdin, EPA, Region VIII, Denver
Bill Flynn, Attorney General's Office

WRC/93-115.LTR
WRC/93-167.LTR

RF 93-167



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781
FAX (307) 777-5973

July 9, 1993

Mr. Randy Lamdin (8HWM-HW)
US EPA Region VIII
999 18th Street, Suite 500
Denver, CO 80202-2405

RE: Wyoming Refining Company, Newcastle, Wyoming; Proposed Recovery Wells RW-10, RW-11, RW-12, RW-13, RW-14, RW-15, RW-16, RW-17 and RW-18

Dear Mr. Lamdin:

The Water Quality Division (WQD) has reviewed the referenced reports. Comments and recommendations are summarized on the enclosed Groundwater Pollution Control (GPC) Program review form.

Due to the Division's concerns with the efficacy of installing additional recovery wells prior to obtaining the information suggested in the attached review, an engineering review of the proposed construction, operation and maintenance of the recovery wells was deemed presumptuous and was not performed. Should EPA agree to allow WRC to proceed, in spite of the Division's concerns, the Division requests that it be allowed to provide these engineering comments to EPA for consideration and inclusion into WRC's workplan.

Please contact me directly should you have any questions regarding this review.

Sincerely,

Kevin D. Frederick, P.G.
Supervisor, Groundwater Pollution Control Program
Water Quality Division

KDF/nc 33286.LTR
Attachment

cc: Dennis Hemmer, Director, DEQ
Bill Garland, Administrator, WQD
Bill Flynn, Attorney General's Office

PERMITS/93-115.RVW
PERMITS/93-167.RVW

REVIEWING GEOLOGIST: Kevin D. Frederick, P.G.

REVIEWING ENGINEER: NA

DATE OF LAST REVIEW: NA

DATE OF THIS REVIEW: June 28, 1993

ACTION: Comments provided to EPA/RCRA Branch. Recommendation that system not be approved.

COMMENTS: GROUNDWATER SECTION

1. As mentioned in Dr. Davis' report, recent installation of additional piezometers has 'revealed' the existence of a "previously unknown, buried bedrock valley filled with alluvium which (sic) has important effects upon the movements of potentially contaminated fluids". Although the existence of coarse, highly permeable and transmissive fluvial deposits adjacent to a stream (Cambria Creek) which has incised itself well into the earlier deposited Belle Fourche shale should come as no surprise to most groundwater scientists, the "discovery" nevertheless serves to illustrate the general lack of understanding of the hydrogeologic flow regime associated with refinery, and perhaps most importantly, the control of that regime for the purposes of restoring groundwater quality.

It is the Division's recommendation that, since the groundwater flow regime appears to be so poorly understood, the installation of additional recovery wells is presumptuous at this time. Further site characterization together with a review and reduction of existing data should first be performed to delineate the (horizontal and vertical) extent and hydraulic properties of both the Cambria Creek valley fill and the Belle Fourche shale adjacent to it. Upon completion of this effort, the existing recovery system, including (EPA) recovery wells, French drains, and sumps should be evaluated to determine whether the modifications proposed by Dr. Davis¹ should be implemented, or whether additional recovery wells may be necessary, and where best to place them as determined from more complete aquifer testing of the valley fill system.

2. It is the Division's opinion that ascertaining the boundary conditions which are likely to be imposed by the Belle Fourche shale onto the proposed and existing recovery wells is an important consideration which has not been addressed or defined, nor has the refinery's capability to treat and dispose of the expected large volumes of water which are likely to be withdrawn during the development of sufficient capture zones from these wells. Neither of these factors have been defined, yet each may control the viability of installing additional recovery wells.
4. Due to the discovery of the buried valley fill, and the importance that such a highly transmissive system has upon the migration and control of groundwater and contaminants, the Division recommends that the regulatory agencies meet with WRC to explore ways in which further site characterization or data review may result in a more effective and efficient approach to groundwater restoration.

¹ "Hydrogeologic Information to Accompany Permit Application for Recovery Wells RW-10, RW-11, RW-12", February 15, 1993; p.2

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5. The Division again reiterates its concerns that WRC has failed to address site characterization of the refinery proper; the control of sources, including the wastewater treatment ponds, which likely serve as continuing sources of contamination to groundwater; and the delineation and restoration of any and all contamination which has migrated off-site from the refinery and beyond the control of the existing recovery systems.

/nc 33286.LTR

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE OF WYOMING
GROUNDWATER POLLUTION CONTROL PERMIT
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS
(Permit to Inject)

() New

(X) Modified

REFERENCE PERMIT: UIC 84-190

Permit Number 93-168

SUBCLASS NUMBER: 5W12

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations Chapter IX (September 4, 1980),

Applicant:

Teton Village Water and Sewer District
C/O Victor H. Kaunitz
P O Box 581
Teton Village, WY 83025
(307) 733-9231

is authorized to operate

The Teton Village Wastewater Injection System

In Section 24, Township 42 North, Range 117 West, of the 6th Principal Meridian, in Teton County, Wyoming according to the procedures and conditions of the application #84-190 and requirements and other conditions of this permit.

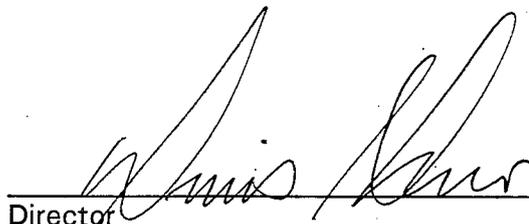
This permit shall become effective on date of issuance.



Administrator
Water Quality Division
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002
Phone: (307) 777-7781

7-14-93

Date



Director
Department of Environmental Quality
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002

7-14-93

Date

A. DISCHARGE (INJECTION) ZONE AND AREA OF REVIEW

Discharge Zone:

This injection well is authorized to inject into the alluvial aquifer of the Snake River which found at this location from 0 to 100 feet below the ground surface.

Area of Review:

The facility authorized by this permit is located in:

Township 42 North, Range 117 West, 6th Principal Meridian

Section 24: SW $\frac{1}{4}$, W $\frac{1}{2}$, SE $\frac{1}{4}$

Section 27: NW $\frac{1}{4}$, NE $\frac{1}{4}$, N $\frac{1}{2}$, NW $\frac{1}{4}$

The Area of Review around this facility is legally described as:

Township 42 North, Range 117 West, 6th Principal Meridian

Section 24: SW $\frac{1}{4}$, W $\frac{1}{2}$, SE $\frac{1}{4}$

Section 27: NW $\frac{1}{4}$, NE $\frac{1}{4}$, N $\frac{1}{2}$, NW $\frac{1}{4}$

B. GROUNDWATER CLASSIFICATION

The groundwater in the alluvial aquifer of the Snake River is classified as class I under Chapter VIII of Wyoming Water Quality Rules and Regulations (April 9, 1980). This classification was made because:

a. The groundwater in this formation meets all of the quality standards set for the in Chapter VIII for class I water;

and

b. The groundwater in this formation is presently being used as a source of water which meets the definition of class I.

Groundwater of class I shall not be degraded so as to make it unusable as a source of water for this purpose. Any parameters which do not meet the class of use standard shall not be degraded whatsoever.

C. AUTHORIZED OPERATIONS

The permittee is authorized to inject 11,904 barrels per day, (500,000 gallons per day) of wastewater as described: Treated municipal waste from the Teton Village Wastewater Treatment Plant.

The permittee is authorized to inject at no more than 17 psig as measured at the wellhead. In the event that the pressure of injection is greater than atmospheric, the permittee shall install and operate continuous recording equipment to document that the pressure of injection has not exceeded 17 psig.

No other wastes may be injected into this system.

The injection system shall be controlled so that injectate does not surface within a 200 foot radius of the wells.

The injectate shall be delivered to one of the three injection wells at a time. The well used shall be varied each month. In case of technical malfunction of any one well, the next well to be used can be started at any time. Records shall be kept concerning which well is operating at any given time.

The injectate shall not exceed limits listed in Section G of this permit. Any parameters not listed in Section G shall not exceed the class I groundwater standards listed in Chapter VIII, Water Quality Rules and Regulations.

The groundwater in the monitor wells shall not exceed any limit listed in Section F of this permit, nor any standard for class I groundwater listed in Chapter VIII, Water Quality Rules and Regulations, whichever is more stringent.

Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined by 40 CFR 261. Injection of any substance defined as hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

D. PROPER OPERATION AND MAINTENANCE

The permittee is required to conduct the operation in accordance with statements, representations and procedures presented in the complete permit application and supporting documents, as accepted and approved by the administrator.

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve permit compliance. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training and adequate laboratory and process controls, including appropriate quality assurance procedures.

The subsurface discharge (injection) authorized by permit shall be consistent with the conditions and content of the permit; any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

E. ENTRY AND INSPECTION

The permittee shall allow the administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. ENVIRONMENTAL MONITORING PROGRAM FOR GROUNDWATERS OF THE STATE

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.
3. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The name(s) of individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. Names of individuals who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
4. The prescribed program for this permitted activity is as follows:

A system of six monitor wells exist on the site in addition to the three injection wells. Once a calendar quarter, or more often if the Administrator requires, each of the following listed wells shall be sampled and analyzed:

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL)*
OH-13, OH-15, OH-18, OH-19, OH-20, and OH-24	Quarterly	EPA Method 160.1	Total Dissolved Solids	500.0
		EPA Method 325.2	Chloride	150.0
		EPA Method 405.1	5 Day Biological Oxygen Demand	10.0
		EPA Method 350.3	Ammonia as N	0.50
		EPA Method 353.2	Nitrate as N	10.0
		EPA Method 420.1	Total Phenolics	.001

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL)*
OH-10, OH-13, OH-14, OH-15, OH-18, OH-19, OH-20, OH-24, RC-01, RC-02, and RC-03	Quarterly	Probe prior to any well evacuation.	Static Water Level	N/A
OH-13, OH-15, OH-18, OH-19, and OH-20	Annually	EPA Method 624	Benzene	0.005
			Carbon Tetrachloride	0.005
			1,2-Dichloroethane	0.005
			p-Dichlorobenzene	0.075
			1,1-Dichloroethene	0.007
			Trichloroethene	0.005
			1,1,1-Trichloroethane	0.200
			Vinyl Chloride	0.002
			o-Dichlorobenzene	0.600
			cis- 1,2-Dichloroethene	0.070
			trans- 1,2-Dichloroethene	0.100
			1,2-Dichloropropane	0.005
			Ethylbenzene	0.700
			Monochlorobenzene	0.100
			Styrene	0.100
			Tetrachloroethene	0.005
Toluene	1.000			
Total Xylenes	10.00			
Total of the 4 Trihalomethanes	0.080			

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. pH is always expressed in standard units and conductivity is expressed in mmhos/meter or umhos/cm.

The above Upper Control Limit (UCL) is not to be exceeded in any sample. Exceedance of this value is a violation of this permit and shall require corrective action.

Prior to each sampling event, the permittee is required to evacuate no less than 300 gallons of water from each monitor well to be sampled. Evacuation of this volume of water is intended to provide assurance that a representative sample has been obtained. This evacuated water may be discharged directly to the ground surface or may be introduced to the plant at any stage of the process if desired.

If at any time during the preceding 3 months, any of the above wells exceeded the above limits for phenols, then all of the above named wells shall be sampled monthly and analyzed for Total Phenolics using EPA Method 420.1. If at any time during the preceding 12 months, any of the above wells exceeded the above limitations for Ammonia as N or Nitrate as N, then all six of these wells shall be sampled monthly and analyzed for Nitrate as N using EPA Method 353.2 and for Ammonia as N using EPA Method 350.3.

5. The permittee shall furnish any information necessary to establish or modify the above monitoring program.
6. In the event that any well that is required to be monitored under this permit is accidentally destroyed, then the permittee is required to drill and complete a replacement well within 5 feet of the original site, and to the same depth as the original well. In the event that any well is to be abandoned which is required to be monitored under this permit, then the permittee shall apply for and receive a modified permit to allow an alternate location to be used in place of that well. Since any change in these wells is a change in the point of compliance under this permit, a modified permit is required, including the full 30 day public notice period.

G. REQUIREMENTS FOR MONITORING THE DISCHARGE

Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of confining strata.

The permittee shall monitor the quality of the injectate fluid on the following schedule. The following parameters shall be analyzed by the listed methods and reported quarterly:

SAMPLING SCHEDULE	PARAMETER ANALYZED	ANALYTICAL METHOD	INSTANTANEOUS MAXIMUM CONCENTRATION (UCL)	4 WEEK ROLLING AVERAGE (UCL)	ANNUAL AVERAGE CONCENTRATION (UCL) *
Weekly	Chloride	Hach probe	200.0	150.0	N/A
Weekly	5 Day BOD	EPA Method 405.1	15.0	10.0	N/A
Weekly	Ammonia as N	Hach probe	1.5	0.50	N/A
Weekly	Nitrate as N	Hach probe	15.0	10.0	N/A
Weekly	Total Coliforms	EPA Microbiological Methods	2/100ml	1/100ml	N/A
Monthly	Total Dissolved Solids	EPA Method 160.1	600.0	N/A	450.0
Monthly	Cyanide	EPA Method 335.2	0.3	N/A	0.20

SAMPLING SCHEDULE	PARAMETER ANALYZED	ANALYTICAL METHOD	INSTANTANEOUS MAXIMUM CONCENTRATION (UCL)	4 WEEK ROLLING AVERAGE (UCL)	ANNUAL AVERAGE CONCENTRATION (UCL) *
Monthly	Total Phenolics	EPA Method 420.1	0.050	0.010	0.010
Quarterly	Benzene	EPA Method 624	0.010	N/A	.005
	Carbon Tetrachloride		0.010		.005
	1,2-Dichloroethane		0.010		.005
	1,1-Dichloroethene		0.014		.007
	Trichloroethene		0.010		.005
	1,1,1-Trichloroethane		0.300		.200
	Vinyl Chloride		0.005		.002
	o-Dichlorobenzene		0.600		.600
	cis- 1,2-Dichloroethene		0.070		.070
	trans- 1,2-Dichloroethene		0.100		.100
	p-Dichlorobenzene		0.075		.075
	1,2-Dichloropropane		0.010		.005
	Ethylbenzene		0.700		.700
	Chlorobenzene		0.100		.100
	Styrene		0.100		.100
	Tetrachloroethene		0.010		.005
	Toluene		1.000		1.00
Total Xylenes	10.00	10.0			
Total of the 4 Trihalomethanes	0.080	.080			

* All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. pH is always expressed in standard units and conductivity is expressed in mmhos/meter or umhos/cm.

The above Upper Control Limits (UCL) are not to be exceeded. Exceedance of this value is a violation of this permit and shall require corrective action.

H. TEST PROCEDURES

Test procedures for the determination of water quality parameters and constituents shall be in accord with provisions of Water Quality Rules and Regulations Chapter VIII, Section 7 and 8.

I. RECORDS AND REPORTS

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified in section C and/or Section G of this permit.
5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
6. the permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. the report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.

A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandoned procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:

- a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator,
 - b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
 - c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.
11. Annual reports shall be submitted to the administrator within 30 days following the end of the calendar year. Quarterly reports shall be submitted within thirty (30) days following the end of the calendar quarter. Monitoring results shall be reported in the annual reports unless otherwise specified.
 12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.
 13. The quarterly and annual reports which are required to be filed under this permit shall be filed on forms provided by the department and shall include all of the required monitoring under Section F4 and Section G of this permit.

J. PERMIT ACTIONS

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to, any of the following:

1. Violation of the permit;
2. Obtaining a permit by misrepresentation or failure of the discharge well or system.

Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.

A permit may be modified at any time as may be required, including for conformity which changes in regulations or standards which occur after the permit is issued.

A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in the permittee's discharge, as may be ordered by the council.

This operation (permit) can be terminated by authority of the administrator for one or more permit violations.

Public notice of the permit review and request for public comment will be made every 10 years by the administrator.

The permittee will give advance notice to the administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alteration or addition.

Any modification which may result in a violation of a permit condition shall be reported to the administrator, and any modification that will result in a violation of a permit condition shall be reported to the administrator through the submission of a new or amended permit application.

K. MECHANICAL INTEGRITY

There are no mechanical integrity requirements under this permit.

L. ABANDONMENT

The permittee shall notify the administrator at least 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the director and follow the procedures prescribed by the director for plugging and abandonment or the discontinuance of related activities:

At the time of abandonment of any well constructed under this permit, or permits to construct 81-27RRR or under permit 84-190, the following procedure shall be used:

Injection wells: The casing shall be filled with concrete up to 36 inches below the ground elevation at the time of abandonment. The top of the casing shall be cut of 36 inches below grade and the surface reclaimed. Injection wells shall not be converted for any other purpose.

Monitor wells: The casing shall be filled with concrete up to 36 inches below the ground elevation at the time of abandonment. The top of the casing shall be cut of 36 inches below grade and the surface reclaimed. Monitor wells may be converted for any other legal purpose with prior approval from this agency and the State Engineer's office. In the event that any monitor well on this property has been converted for another purpose, it will be considered abandoned under this permit.

No well required to be monitored by this permit shall be abandoned without first obtaining approval from the Water Quality Division. Any well drilled under previous permits and not required to be monitored under this permit may be abandoned if desired by the permittee.

A plugging and abandonment report, detailing the compliance abandonment procedures outlined the original permit application, or describing any deviations from the original plan, be submitted as soon as practicable after plugging and abandonment.

M. DUTIES OF THE PERMITTEE

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;

4. Furnish to the administrator within a specified time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the administrator, upon request, copies of records required to be kept by this permit.

N. FINANCIAL RESPONSIBILITY

The permittee is required to maintain financial responsibility and resources in a form approved by the director, to close, plug and abandon the discharge operation in a manner prescribed by the director.

O. SPECIAL MEASURES THE DIRECTOR FINDS NECESSARY

This permit replaces entirely permit UIC 84-190. When this permit is issued, permit UIC 84-190 will be automatically cancelled.

After the first three years of operation under this permit, the environmental monitoring requirements of this permit shall be reevaluated by the Water Quality Division to determine their effectiveness and the overall necessity for each of the requirements placed on this permit. At that time, Water Quality Division may impose more or less stringent requirements for monitoring and reporting.

The permittee shall maintain all major systems within the wastewater treatment plant in working order. Operation of the plant with any system inoperable for more than 30 days shall be considered a violation of this permit, even if the effluent quality meets all other limitations. Water Quality Division shall be notified in advance if any major system will be shut down for more than 7 days for any reason.

Once approved, the permittee shall submit one copy of the approved Operation and Maintenance Manual to the UIC section, Cheyenne Office, Water Quality Division.

P. SPECIAL PERMIT CONDITIONS

NONE

Q. SIGNATORIES REQUIREMENT

All reports required by this permit and other requested information shall be signed as follows:

For a corporation -- by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

For a municipality, state, federal or other public agency -- by either a principal executive officer or ranking elected official; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the described principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and

3. The written authorization is submitted to the administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the administrator prior to or together with any reports or information, to be signed by an authorized representative.

Any person signing a report or other requested information shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

R. NONCOMPLIANCE

Any permit noncompliance constitutes a violation of the permit.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

S. PERMIT TRANSFER

The owner/operator of record (permittee) is always responsible for permit compliance. Any transfer of a permit must first be approved by the administrator, and that no transfer will be approved if the facility is not in compliance with the existing permit unless the proposed permittee agrees to bring the facility into compliance.

T. RESPONSIBILITIES

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

U. PROPERTY RIGHTS

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

V. SEVERABILITY

The provisions of this permit are severable, and if any provision of the permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

RL/mad/33295.LTR

R7



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781
FAX (307) 777-5973

July 13, 1993

Victor Kaunitz
Teton Village Water and Sewer District
P.O. Box 586
Teton Village, Wyoming 83025

RE: Teton Village Injection System
Permit UIC 93-168
Teton County, Wyoming

Dear Mr. Kaunitz:

In response to your comments on the draft permit, some changes have been made in the permit and some changes were not made. The following details the handling of each of your comments:

Comments submitted by June 29, 1993 letter from Jon Wagner

COMMENT 1: "My understanding of an operating permit is to be a guideline outlining the minimum standards for operation."

RESPONSE 1: Your understanding of an operating permit is in error. An operating permit is not a "guideline outlining the minimum standards of operation" but rather it is a legally binding document setting absolute limitations on the operation of a plant. Please see W.S. 35-11-301, 302 and 303 and W.S. 35-11-801 and W.S. 35-11-901.

COMMENT 2: "Page 3: Next to last paragraph of item c is contradictory. Some of Item G is less than class 1 ground water standards."

RESPONSE 2: The limitations written into the permit under Item G have been changed to eliminate the reference to class I standards for any parameter found in Item G.

July 13, 1993

Page 2

COMMENT 3: "Page 4, number 4: Is the department aware that monitoring well OH-3 has been abandoned and plugged?"

RESPONSE 3: The requirement to monitor well OH-3 has been removed and replaced with well OH-24.

COMMENT 4: "Wells OH-18-19-20 may have to be abandoned because the present roadway may be moved within the next few years. The district is also working on a agreement at this time with Snake River Ranch to obtain all water rights (no wells could be drilled) within a 1500 ft down stream corridor of the treatment plant. Upon securing this agreement the district would like to make wells OH-21-22-23-24, our control wells and point of compliance."

RESPONSE 4: In the event that wells OH-18, OH-19, or OH-20 are removed, the district will be required to propose an alternative sampling point. Language was added to section F to make this requirement clear. If the district wishes to move the point of compliance in the future to wells OH-21, OH-22, OH-23, and OH-24 then a modification of the permit will be necessary before those wells can be used as the point of compliance.

COMMENT 5: "We request that on quarterly sampling of the wells, chloride standards be raised from 100 mg/l to 250 mg/l. And Effluent standards to be changed on chlorides from 200 instantaneous to 500. From a 100 rolling average to a 250 average. One hundred is less than drinking water standard and it is a proven fact that at certain times of the year we are unable to keep them under 100 mg/l."

RESPONSE 5: The department considered the chloride limitations at the point of compliance carefully before setting these permit limitations. Consideration was given to all of the analyses submitted over the entire history of the facility. Graphs have been created showing all analyses done for chloride. These graphs show that Teton Village has always, with very few exceptions, met the limitation of 100 mg/l. The department believes that Teton Village could meet the standards set forth in the draft permit. Nevertheless, this department will agree to change the chloride standard shown in the draft from 100 mg/l in the monitor wells to 150 mg/l. The chloride graphs show that Teton Village has never exceeded 150 mg/l except for a single sample in 6/81 and a sample in 9/83. In addition, the department will change the four week rolling average of effluent concentrations to 150 mg/l.

COMMENT 6: "BOD instantaneous be raised to 20 mg/l."

RESPONSE 6: The BOD instantaneous limitation has been raised to 15 mg/l in response to your comment.

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COMMENT 7: "TDS Annual average be raised to drinking water standard of 500 mg/l."

RESPONSE 7: The Water Quality Division considered carefully the limitations placed on Total Dissolved Solids in the permit. This department believes that the District will have only minor problems meeting the limitations written in this permit. This department makes this statement after considering the entire history of the monitoring for TDS at this site. The highest TDS in the effluent from 6/79 to 9/89 was 546 on 3/89. The annual average for that event was 439. In that case, a limitation of 500 mg/l would have been a violation anyway. As worded, the permit would not show a violation at 546, but the annual average concentration would have been a violation. When considering that District's only alternative on treatment of TDS, is dilution by pumping more water through the plant, the department will agree to raise the average annual concentration limit to 450 mg/l for TDS.

COMMENT 8: "Total Coliforms has no limits under the drinking water standards. I recommend dropping this test and setting a chloride residual minimum. If this is not possible give some lee way in testing, possibly 200/100ml."

RESPONSE 8: The District is in error in stating that there is no drinking water limitation on coliforms. The final Coliform rule became effective 12/31/90. This rule requires that public water systems doing less than 40 tests per month may have no more than 1 test that shows any coliform at all. Those public water systems doing more than 40 tests per month may have no more than 5% showing any coliforms at all. In fact the federal drinking water requirement is now based on a simple pass/fail for total coliforms. This is, in effect, a limitation of 1 colony/100ml. This department does not believe a chlorine residual test is as effective as testing for the coliforms themselves.

COMMENT 9: "Chlorinated Solvents. I comment with great reservation because I know so little about them, and the District has never tested for them and has no information to make a sound judgement. The trihalomethanes are disinfection by products, which I believe makes a solid argument for a set chlorine residual or relaxing the standard on total coliforms to 200/100ml. Would it be possible not to have standards set on these tests until data could be gathered?"

RESPONSE 9: The chlorinated solvents have been analyzed several times by this department in the past and are presently being analyzed in similar effluent at the Aspens plant. The parameters tested are very volatile and should be lost to the air in the aeration basins. In addition, the aromatics tested are all, to one degree or the other, biologically degradable. Thus these tests will only detect a fairly large volume which may have been dumped

into your plant. These tests will probably not detect any small scale continuous dumping since the biological sludge in the plant should adapt itself to any constant presence. In fact, the treatment of choice for most of the aromatics on this list is activated sludge.

In summary, the department believes that the limits set for chlorinated solvents in the draft permit are reasonable, that they are protective of the public health, and they are achievable using the plant as presently operated.

COMMENT 10: "The third paragraph of item F 4 deals with exceedance and violations which is also addressed in item R. Do the high seasonal swings in our flows and the drastic operational changes required. I feel "any exceedance is a violation". This might be too harsh but I would like to see the permit read as follows: "upon any exceedance the District will retest and if an exceedance truly does exist this constitutes a violation. This would allow for sampling and laboratory errors. That occurs from time to time."

RESPONSE 10: This department as purposely structured a permit which leaves no room for doubt about which items constitute a violation of the permit. This department believes that it is very necessary to state that "any exceedance is a violation." In the event that it can be documented later that an exceedance was only due to laboratory error, then that violation will be considered to be resolved completely. Until it has been documented that the exceedance was a laboratory error, Teton Village will have to proceed under the provisions that activate when a violation exists.

COMMENT 11: "F 4 last paragraph. This deals with sampling monthly for 12 months if there is a violation. Here again do to the wide seasonal swings in our flow we many have occasional violation. Is it really necessary for us to sample monthly for the next year? Wouldn't it be more feasible to sample monthly, for say, 3 consecutive months with no exceedances?"

RESPONSE 11: Paragraph F4 deals with sampling monthly for 12 months if there is a violation. This department has considered your concern and will change the Phenol requirement to sample monthly for 3 months if there is a violation. This was done because there is little that the District can do to remediate a Phenol violation other than to continue to eliminate Phenols at the source. The Ammonia as N and Nitrate as N limitations on the other hand are parameters which the District has direct control. For this reason, the wording requiring monthly sampling for Ammonia as N and Nitrate as N in the event of an exceedance remain unchanged. The District should find no problems with either Ammonia as N or Nitrate as N in the monitor wells if the limitations on the effluent have been met, or even slightly exceeded.

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COMMENT 12: "I 2&3 please clarify. This could mean that I have to be in touch with the administrator on a daily basis."

RESPONSE 12: Sections I-2 & I-3 are part of the present permit number 84-190 and all other UIC permits in Wyoming. These sections are required by federal regulation. These sections require that you notify this department prior to doing any alteration to the plant. This does not mean that you have to notify this department if you replace a pump with a similar one of a different brand, or if you do any routine maintenance on the plant. What it does mean is that the District must give this department advance notice of any changes to the plant which will change the flow sheet, or change the overall configuration of the plant. In fact, changes of this nature require a modification to the permit to construct for the plant as well. This modified permit is clearly required by W.S. 35-11-301(a)(iii) and Chapter III, Water Quality Rules and Regulations.

COMMENT 13: "J next to last paragraph - please clarify."

RESPONSE 13: See response 12.

COMMENT 14: "O Next to the last paragraph- by what authority does DEQ have to implement this?"

RESPONSE 14: It is the department's position that every major system and subsystem in the plant is necessary for the long term compliance with this permit. Operation of the plant with any system out of operational status for a long period lessens the District's ability to meet the discharge limitations imposed by this permit. The Administrator has very broad authority to require anything necessary to assure compliance with the Act as detailed in W.S. 35-11-110. This is also required by federal regulation as found in 40 CFR 144.51 (e) and (l).

COMMENT 15: "P Please clarify. We have no control to stop migrants. How do we stop fluid movements?"

RESPONSE 15: The District has no control over where the effluent travels to after discharge to the aquifer. The District does, however, have control over the contaminants which are discharged. This paragraph requires that the District will be held accountable if degradation occurs at any point of withdrawal and it can be shown to have been caused by the District's activities. In this case, the burden of proof is on the department and any third party alleging that degradation has occurred. If the district complies with this limitations set forth in the permit, this paragraph would be very difficult for anyone to enforce. After due consideration of the regulations and the law governing this activity, the department has determined that we do not need this particular

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paragraph in the permit. For this reason, we are deleting the paragraph in question.

Comments by Nelson Engineering submitted July 6, 1993

COMMENT 16: "In preparation for the issuance of a new permit, the District has been negotiating with the Snake River Ranch to obtain a groundwater easement which extends 1000 feet down gradient from the recharge wells. The easement would prohibit the drilling of any wells within the 1000 foot radius. The effect is that a buffer zone is created which will allow for dilution and dispersion of the treated effluent prior to any potential wells. Additionally, the agreement would provide additional land for wastewater treatment plant expansion and would cause an existing road to move south. As a result, "observation holes" 18, 19 and 20, would have to be abandoned.

The District drilled four monitoring wells in 1990 to further study the aquifer characteristics. One of these wells, OH24 is upgradient of the recharge wells and the other three, OH21, OH22, and OH23, are approximately 500 feet down gradient of the recharge wells. The District is requesting that the DEQ consider these wells as monitoring wells for the point of compliance rather than OH18, OH19 and OH20, which will soon be abandoned. If the DEQ could wait a few months to rewrite the permit until completion of the negotiations between the Snake River Ranch and the District, we would have a clearer picture of which monitoring wells will be available and the extent of the groundwater easement."

RESPONSE 16: This department has been waiting to issue a replacement permit for several years. This replacement permit has now been drafted and has been through the public comment period. This department believes that this new permit is advantageous both for the State and for the District. For this reason, the department will proceed with issuing the permit as amended from the draft. If the District does wish to abandon the present point of compliance and obtain an alternate point of compliance with different wells, this change will require a second change in the permit, with a new public notice period.

It may be possible to modify the construction of the existing wells to allow them to be retained if the road is moved. It is possible to flush mount the wellhead and install a bolt down cover so that the wells could be within the road surface if that was desired. A change in the point of compliance may be of more public concern than anything this department has done in drafting the present draft permit. If the department wanted to make that change now, we would have to start a new public notice period.

If it comes to pass that the District is successful in concluding the negotiations with the Snake River Ranch, a new permit

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modification will have to be done. That modification provides the District with a further opportunity to suggest changes to the new permit after having been covered by this permit for several months or years. The negotiations with the Snake River Ranch have been going on for several years now. Is there really a probability that they will be concluded quickly? Even if they are concluded in the next few months, would the change in the roadway be done immediately or would that change take place only when actually needed. It could be several years before any change in the proposed permit would be required.

COMMENT 17: "Specifically, regarding the proposed permit, the District feels that requirement effluent standards which are more stringent than the class I groundwater standards and EPA's drinking water standards is not reasonable and only ensures that the wastewater treatment plant will be in violation of the permit."

RESPONSE 17: The department does not agree with the statement that requiring effluent standards that are more stringent than Class I groundwater standards is not a reasonable approach. In the first place, the standards shown on the draft permit were set after first reviewing the entire history of the injection to determine if the District could comply with them. After careful consideration, limitations were set that, while more stringent than class I standards, are still higher than any analyses reported over the history of the injection. In response to your concern, the department has raised some of these limitations slightly more to provide a degree of comfort as to your ability to meet these limitations. In the second place, the Environmental Quality Act and Chapter VIII of the Wyoming Water Quality Rules and Regulations both require that pollution be controlled to the extent practicable to limit any degradation of the groundwater. In this case, it is clear that the District can comply with the limitations set, and that the groundwater would be better protected from degradation with these limitations set.

COMMENT 18: "Page 2,c. Authorized Operations 'The permittee is authorized to inject at no more than atmospheric pressure measured at the wellhead'.

The facility was constructed in 1981 with booster pumps to allow pressurized discharge. While they have not been used to date because of the limited growth of Teton Village and resultant low sewage flows, it is possible that with increased development, the pressurized discharge will be necessary. The District would like to retain the ability to use the pumps and believes that subsequent parts of the permit which do not allow injectate to surface within 200 feet radius of the well sufficiently protect against over pressuring the well."

RESPONSE 18: Section G of the permit states that "Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of the confining strata." There is no data available concerning the actual fracturing pressure of the formations at this location. In order to obtain this data, an actual step rate test would have to be done at great expense to the District. At the same time, this department has a good deal of data on the average fracture gradients of various formations throughout the state. Fracture gradient, expressed in psi per foot of depth provide a basis for estimating the amount of pressure that these wells could sustain before initiating fractures. The lowest fracture gradient that this department is aware of was .56 psi/ft and the highest is 1 psi per foot. For a well that is only 45 feet deep this gives a range of between 6 psig and 25 psig as measured at the wellhead. The most probable fracture gradient is .8 psi/ft. Using this number, a limitation of 17 psig is allowable at the top of the well. While this department does not believe that the District can control the injection to that low of a pressure, the department is willing to modify the language of Section C to read:

"The permittee is authorized to inject at no more than 17 psig as measured at the wellhead. In the event that the pressure of injection is greater than atmospheric, the permittee shall install and operate continuous recording equipment to document that the pressure of injection has not exceeded 17 psig."

COMMENT 19: "Page 3, c. Authorized Operations

'The injectate shall not exceed limits listed in Section G of this permit. In addition, the injectate shall not exceed any class I groundwater standard listed in Chapter VIII, Water Quality Rules and Regulations'

This paragraph has conflicting requirements. Some of the requirements of Section G, such as chlorides and total dissolved solids, are more stringent than Class I groundwater standards. Conversely, other requirements of Section G, such as total phenols and ammonia are less stringent than Class I groundwater standards. The District feels that this paragraph along with Section G will create unnecessary conflicting interpretations."

RESPONSE 19: The limitations on the effluent have been reworded to require Chapter VIII standards for those parameters not listed in Section G. The paragraph in Section G will now read as follows:

"The injectate shall not exceed limits listed in Section G of this permit. Any parameters not listed in Section G shall be limited to the Class I groundwater standards listed in Chapter VIII, Water Quality Rules and Regulations."

COMMENT 20: "Page 3,c. Authorized Operations

'The groundwater in the monitoring wells shall not exceed any limit listed in Section F of this permit. In addition, the groundwater in these wells shall not exceed any standard for Class I groundwater listed in Chapter VIII, Water Quality Rules and Regulations.'

There is a conflict between the requirements of Section F and the Class I groundwater standards. As previously stated, the District feels that conflicting requirements will result in misunderstandings."

RESPONSE 20: Your concerns about the conflicts between Section F of the permit and Chapter VIII have been resolved. The limitations on the monitor wells have been reworded to require whichever is the more stringent between Chapter VIII and Section F. The limitations in Section F have been revised to reflect Chapter VIII standards for Phenol.

Some parameters listed in Item F have standards that are more stringent than the standards for class I groundwater found in Chapter VIII. The wording of this paragraph has been changed to make it clear that the limitation is the more stringent of the two standards. There were limitations listed in the permit for monitor wells that were higher than class I standards. These limitations have been lowered as a result of the district's concern to reflect class I standards and eliminate any confusion.

The new wording for this paragraph is:

"The groundwater in the monitor wells shall not exceed any limit listed in Section F of this permit, nor any standard for class I groundwater listed in Chapter VIII, Water Quality Rules and Regulations, whichever is more stringent."

COMMENT 21: "Page 4, Section F - Environmental Monitoring Program for Groundwaters of the State

The District would like the DEQ to consider using well OH24 in place of OH03 for the upgradient well. OH03 has reportedly collapsed and is not useable. OH24 is approximately 500 feet upgradient and is not influenced by the recharge wells. Similarly, the District would like the DEQ to consider using Wells OH21, OH22 and OH23 as the down gradient points of compliance instead of OH18, OH19 and OH20.

RESPONSE 21: The requirement to monitor well OH-3 has been replaced with OH-24 as you requested. In making this change, this department is not stipulating that OH-24 is an up gradient well. OH-24 may be within the cone of influence of the injection wells,

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and may be monitoring groundwater that has been influenced by the injection.

The DEQ cannot establish a point of compliance on land for which the District has no demonstrated control. The issue of the point of compliance will have to be resolved after the negotiations with the Snake River Ranch are complete.

COMMENT 22: "This section requires that the groundwater meet a chloride limit of 100 mg/l, while the class I groundwater standard is 250 mg/l and the EPA's secondary drinking water standard is 250 mg/l. The District feels that it is unreasonable that they be required to meet a standard that is so much more stringent than drinking water standards. Previous testing has shown that the effluent and groundwater in the monitoring wells occasionally exceeds the 100 mg/l limit for chloride. Therefore if this permit limitation remains the Teton Village Plant will most probably be in violation."

RESPONSE 22: See Response Number 5 and Response Number 17.

COMMENT 23: "Page 5 section F Environmental Monitoring Program of Groundwaters of the State.

The proposed permit limit for five day BOD in the groundwater is 10 mg/l. This limit presents a practical implementation problem in that there most likely are not any aerobic bacteria in the groundwater 20 to 40 feet below the surface therefore to perform this test the laboratory will have to seed the sample. The procedure is very sensitive and often results in erroneous results at such low levels of detection because the seed necessarily has a small oxygen demand of its own. The previous permit did not have a requirement for BOD testing the groundwater and the class I groundwater standards do not list BOD as a parameter for suitability. The District feels that if this standard is adopted it will probably result in violations simply because of the low levels of testing and the subjective seeding procedures required to perform the test."

RESPONSE 23: The limitation on 5-Day BOD in the groundwater remains at 10 mg/l. In fact, every 5-Day BOD analyses requires that the sample be seeded. This does not mean that it is impossible to obtain a 5-Day BOD analyses at low levels. If it did, then the method limit of detection would reflect that problem. In this case, the method limit of detection is 1.0 mg/l or 1/10 of the permit limitation.

COMMENT 24: "The requirement for annual testing of chlorinated solvents by EPA Method 624 has caught the District by surprise. This test has never been performed on the groundwater or effluent so there is no way of knowing what background levels might be or it

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the District would be in violation of the permit because of background levels. The proposed limit of .010 mg/l, applies to the total of all parameters listing in EPA method 624 except for Trihalomethanes. The limit of 0.010 mg/l is well below EPA drinking water limits for many of the same parameters. For example Method 624 tests for trans 1-2-Dichloroethane and the EPA MCL is .100 mg/l, method 624 also tests for Toluene, the EPA MCL is 1.0 mg/l and it tests for ethylbenzene which has an EPA MCL of 0.700 mg/l. There are other examples that show the total of all parameters tested by EPA Method 624 could easily be greater than 0.010 mg/l and still not exceed EPA Drinking Water Standards."

RESPONSE 24: The department has considered both the historical content of volatile hydrocarbons in the effluent at Teton Village as shown by our own analyses, but also the historical content of volatile hydrocarbons in the effluent at Teton Pines. In any case, one would not expect these (mostly man made) contaminants to be present in wastewater unless someone was purposely dumping them. Even a constant discharge of low levels in the influent should not show up in the discharge from the plant. The limitation of .010 for the total of the volatile hydrocarbons is attainable and should not cause a compliance problem. However, this department will change the wording in the draft permit to reflect the actual MCL's for individual compounds.

COMMENT 25: "The proposed permit also limits the trihalomethanes to an average of 0.05 mg/l where as the drinking water standard for trihalomethanes is 0.10 mg/l. Trihalomethanes are created by chlorinating the effluent which the District must do to meet the fecal coliform limitations and to keep the recharge wells from developing a biological blockage. The District believes that by setting such a low limit for trihalomethanes a situation is created where in the District will be in violation of the permit. The District would like to see the test for all chlorinated solvents by EPA Method 624 deleted. If a test for trihalomethanes is required the District feels that the limit should not be less than the drinking water standard."

RESPONSE 25: The district is incorrect two statements made in this comment. The Draft Permit contained no limit of .05 mg/l. The Draft Permit allowed the effluent to contain .08 mg/l and the monitor wells to contain .200 mg/l. In reviewing the permit, it was discovered that an error was made in drafting the permit. The limitation on page 5 for Trihalomethanes in the monitor wells should have been .080 mg/l as it is on page 6 for the effluent. This has been changed in the final permit. The second error made in the comment is that the MCL for trihalomethanes is .100 mg/l. That was the MCL prior to EPA's most recent change. The current MCL is .080 mg/l for the total of all four trihalomethanes.

COMMENT 28: "The permits require that if there is an exceedance then the wells must be sampled monthly for 12 months. The District requests that this be reduced to 3 consecutive months. The groundwater in the Snake River Alluvium travels at a rate of 11 to 20 feet per day. After 90 days the groundwater will have moved from 990 to 1800 feet which is well beyond the monitoring wells. It seems that testing for another 9 months after that adds an unnecessary expense to an already expensive testing program."

RESPONSE 28: This department will agree to change the phenol monthly sampling requirement to 3 consecutive months in the event of an exceedance. The Ammonia as N and Nitrate as N requirements remain as stated in the draft. The department believes that requiring monthly sampling for one year when and if nitrate exceedances occur will provide a powerful incentive for the operators to properly operate the plant. Nitrates are one parameter which the operators can control. Proper operation of the plant should guarantee that there are no violations of the nitrate limitations in the permit.

COMMENT 29: "Page 5, Section G - Requirements for Monitoring the Discharge

'Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of the confining strata.'

In the District's opinion this paragraph provides sufficient protection such that the sentence on page 2 disallowing pressured injection is not necessary."

RESPONSE 29: See Response 18.

COMMENT 30: "Page 6, Section G - Requirement for Monitoring the Discharge

The requirement to monitor and meet certain parameters at the point of injection is new. The previous permits did not make the point of discharge a point of compliance. Previous permits gave consideration to the dilution and dispersion of parameters in the groundwater. The District feels that dilution and dispersion are valid especially in light of the pending groundwater easement. Dilution and dispersion are commonly given consideration in surface water discharge permits.

Basically the District agrees with the need to monitor the effluent in order to monitor plant performance and catch unauthorized discharges to the plant but they do not feel that the limits set in the permit are reasonable.

COMMENT 26: "The permit requires that the permittee evacuate no less than 300 gallons of water from each monitoring well prior to sampling. The District feels that this is excessive. If there is 20 feet of water in the well this criteria would require evacuation of 10 casing volumes from a six inch well, however if there is only 5 feet of water in the well it results in evacuation of 40 casing volumes. The District would prefer that the permit require evacuation of a specific number of casing volumes."

RESPONSE 26: The permit was drafted to require that 300 gallons of water be removed from each well to simplify the procedure for the personnel doing the sampling. In the past, most of the samples have been taken after removal of much more than the minimum requirement. The District's sampling pump pumps an average of 16 gallons per minute. In practice, the District has routinely run the pump for 20 minutes or longer on every well. None of the wells is incapable of producing 300 gallons of water. This permit wording was done to make a very easily enforced and easily understood permit. The operator of the plant does not even need to know how to calculate a casing volume in order to comply with the language in this permit.

It has also been noted in the past that the District is not performing any decontamination of the sampling pump between samples. Obviously, there is a potential for cross contamination to occur. Requiring a larger volume to be pumped prior to sampling is a guarantee of product validity which the department believes is justified.

For these reasons, the department will not change the existing language.

COMMENT 27: "The permit states that the permit limit is not to be exceeded in any sample and the exceedance of the value is a violation of the permit. Due to the extremely low level of analyses required for these parameters it is probable that some minor error in sampling or analyses could place the District in violation of the permit. The District requests that a resample be allowed to confirm an exceedance of the upper control limit prior to a violation being declared."

RESPONSE 27: The permit language which states that every exceedance is a violation of the permit is necessary for the permit to be clear and un-ambiguous. In the past, the existing permit has been un-clear as to what is a violation. In many cases, the requirement to re-sample a well was only triggered after the well had been sampled on its normal schedule. This department believes that this language is necessary and will not make the requested change. If it can be shown after the fact that a violation was only due to laboratory error, then the record can be corrected when and if that occurs.

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The permits sets a 4 week rolling average of 100 mg/l for chlorides when the drinking water standard and class I groundwater standard is 250 mg/l. The District requests that the instantaneous maximum concentration for chlorides be set at 500 mg/l and the 4 week rolling average be set at 250 mg/l. These limits should result in compliance with drinking water standards at the monitor wells.

The permit sets a very low limit for total coliforms in the discharge. The instantaneous maximum concentration is 2 per 100 ml and the 4 week rolling average is 1 per 100 ml. This low limit will require higher chlorine dosages and probably higher trihalomethane concentrations. The existing permit has a low control limit of 20 per 100 ml and an upper limit of 200 per 100 ml. These limits have been achieved with a reasonable chlorine dosage and a chlorine residual of 1 mg/l. The most important fact resulting from the historically applied chlorine dosage is that no biological mass has build up in the recharge wells as evidenced by the constant groundwater mound height around the wells. In the past when the operators have dosed the effluent with large amounts of chlorine corrosion problems have resulted from off gassing of chlorine from the effluent clear well.

The District requests that the total coliform limit be at 200 per 100 ml for the four week rolling average.

The permit sets an annual average concentration limit of 400 mg/l for total dissolved solids. EPA drinking water standards and class I groundwater standards are 500 mg/l. The District feels that the 400 mg/l limit is excessive in light of the standards applied to class I groundwater.

The limits for chlorinated solvents and trihalomethanes in the proposed permit are also excessive when compared to drinking water standards. As described in the response to Section F of the permit it is unreasonable to make the limit for the sum of concentration for 28 parameters analyzed under one test less than the EPA primary drinking water standard for many of the individual test. The EPA drinking water standard for trihalomethanes is 0.1 mg/l however the proposed permit says that the total of four trihalomethane test cannot exceed 0.08 mg/l. The District has not tested for trihalomethanes or the chlorinated solvents so we do not know the actual concentration however it is probable that with the permit limitations proposed the plant will be in violation."

RESPONSE 30: This entire comment is a repeat of previous comments. See the individual responses to those comments. The requirement to monitor and meet certain parameters at the point of injection is new. This department feels that it has set reasonable limits that can be attained. As previously stated, some modifications have been made to these limits. This department believes that the modified permit sets limits which can be easily attained.

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COMMENT 31: "Page 8 Section I - Records and Reports paragraph 11

The District questions the need for an annual report which simply duplicates the previously submitted quarterly reports. The annual report seems to be a carry over from the existing permit."

RESPONSE 31: The requirement for an annual report is written into federal UIC regulations. The annual report, in this case will be the fourth quarterly report including the required annual analyses, not a separate report duplicating the quarterly report.

COMMENT 32: "Page 10 Section P - Special Permit Conditions

'Pollution or waste which migrates into an aquifer containing usable groundwater of the state is a violation of the permit.'

This sentence implies that any pollution of any groundwater in the state is a violation of this permit. Obviously the District has no control over other operations in the state and does not even have control over the Snake River alluvial aquifer. The District requests that this sentence be removed from the permit or be rewritten to clarify the intent."

RESPONSE 32: The Water Quality Division will remove this paragraph as you requested. See response 15.

The Water Quality Division believes that it has responded properly to all of the District's concerns about this permit. In some cases, changes were made to the draft permit, and in some cases no changes were made. This department believes that in issuing this permit, the groundwater of the state will be better protected than under the existing permit 84-190. In addition, this new permit will be much more cost effective for the District than the existing permit. Monitoring has been redirected toward areas that the District has control over. Many analyses have been eliminated from further consideration because they are so unlikely to be present. Other analyses, ones which can and do show up in effluent throughout the state have been added. Consideration has been given to keeping the cost of compliance to a minimum.

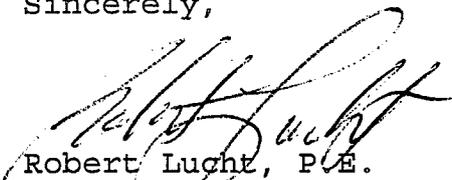
Enclosed please find the original signed permit, number UIC 93-168. This permit replaces entirely permit UIC 84-190. If you wish to appeal this new permit then you are free to make such an appeal. ANY APPEALS TO THE ENVIRONMENTAL QUALITY COUNCIL FROM THE ATTACHED PERMIT MUST BE MADE IN WRITING WITHIN THE THIRTY (30) DAY TIME LIMIT PRESCRIBED BY W.S. 35-11-802. Chapter I of the enclosed Department of Environmental Quality Rules of Practice and Procedure sets forth the requirements for the initiation of appeal proceedings.

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You are urged to review all of the provisions of the attached Rules of Practice and Procedure as they relate to this action.

If you request a hearing, please file two (2) copies of your written petition. The original of the petition should go to the Chairman of the Environmental Quality Council at Room 308, Barrett Building, 2301 Central Avenue, Cheyenne, Wyoming 82002. A second copy of the petition should be directed to the Director of the Department of Environmental Quality at the Herschler Building, 122 West 25th Street, Cheyenne, Wyoming 82002. Both petitions should be sent by registered mail, return receipt requested.

Sincerely,



Robert Lucht, P.E.
UIC Program Supervisor
Water Quality Division

RL/mad 33296.LTR

Enclosures: Permit UIC 93-168, Rules of Practice & Procedure

PERMIT TO CONSTRUCT

New

Permit No. 93-169R

Renewal

Modified

1993 Capital Improvement Project
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Green River

50 East 2nd North

Green River, WY 82935

to construct 1750 feet of sewer line and 2050 feet of water main on Nolan and Andrews Street according to the procedures and conditions of the application No. 93-169R. The facility is located in Section 27, NE¼, T18N, R107W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities

allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

6-29-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RT/jyi

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-170
SPECIAL CONDITIONS

Septic System Wyoming Hereford Ranch

This permit hereby authorizes the applicant:

Wyoming Hereford Ranch
1920 Evans Ave.
Cheyenne, WY 82001

to construct, install or modify non-discharging holding tank according to the procedures and conditions of the application number 93-170. The facility is located in NE 1/4 Section 5, T13N, R65W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental

Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

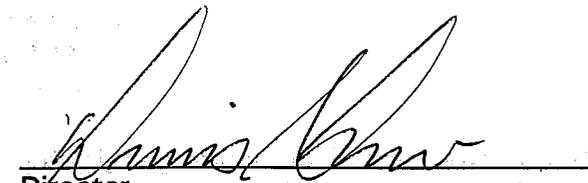
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

5-27-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITIONS

- 1 of 3 The holding tank shall have a vent with a minimum diameter of 2 inches. It shall terminate 30 feet from any door, window, or fresh air vent, and the vent shall be screened.
- 2 of 3 The contents of the holding tank shall be removed, hauled, and disposed of by a company or individual licensed in Laramie County for the handling of domestic waste.
- 3 of 3 The permittee shall notify the Laramie County Environmental Health Division at least two (2) days prior to installation of this system to arrange for required inspections. Inspection of the installed system is required prior to backfilling. Laramie County Environmental Health charges a fee for these inspection services. Their offices are located at 100 Central Ave, Cheyenne, Wyoming 82007; or they can be reached by phone at (307) 633-4090.

GS/nc 32578.LTR

cc: Laramie Co. Environmental Health Division, 100 Central Ave., Cheyenne, WY 82007

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-171R
CONDITIONED

ANTELOPE RUN RANCH, JENSEN PLACE LUST TEST HOLES
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

High Mountain Ranches, Inc.

Antelope Run Ranch

P.O. Box 235, Big Piney WY 83113

to construct a series of test holes to determine extent and level of contamination from a leaking underground storage tank (LUST) according to the procedures and conditions of the application No. 93-171R. The facility is located in SW 1/4 SW 1/4 Sec.11, T31N, R111W in the County of Sublette, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third

parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

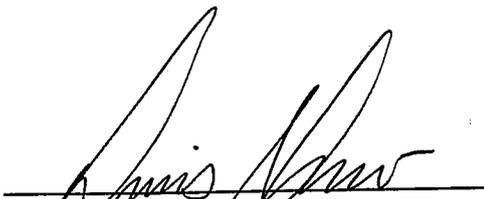
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

8-9-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

CONDITIONS

1. of 2 The DEQ/WQD will be notified of anticipated startup date at least one week prior to actual work beginning.
2. of 2 Work will begin according to this plan within 60 days of issuance of Permit to Construct #93-171R.

PERMIT TO CONSTRUCT

New

Permit No. 93-172

Renewal

CONDITIONED

Modified

EVAPORATION LAKESHORE FACILITY INVESTIGATION

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

FMC WYOMING CORPORATION

P.O. Box 872

Green River, WY 82935

to construct a series of test pits to determine extent and level of subsurface contamination according to the procedures and conditions of the application No. 93-172. The facility is located on the FMC Trona Plant site in the SW ¼ Sec. 23, T19N, R110W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities

allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

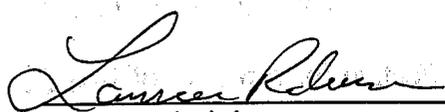
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

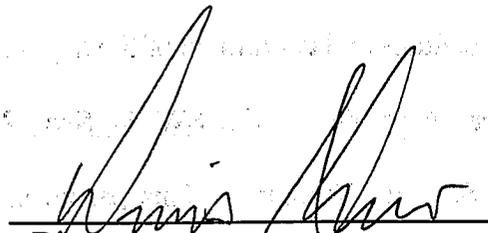
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

6/25/93
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

CONDITION

- 1 of 1. Disposal or treatment of contaminated soils as described in the workplan attached to Permit to Construct #93-172 will be handled in accordance with Solid and Hazardous Waste Division (SHWD) Guidelines and will be authorized by Alan Guile of the DEQ/Land Quality Division, Lander office.

ROAD APPLICATION PERMIT

PERMIT NO.: 93-173
SEE SPECIAL CONDITIONS

PG & E Resources Road Application
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

PG & E Resources

6688 North Central Expressway

Dallas, Texas 75206

to road apply about 100 cubic yards of waste crude oil sludge/soil mixture to about 1800 feet of road. The application site is located in E $\frac{1}{2}$ NE $\frac{1}{4}$ Section 32, T55N, R95W in the county of Big Horn in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable standards. The authority to road apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allow under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions of this permit.

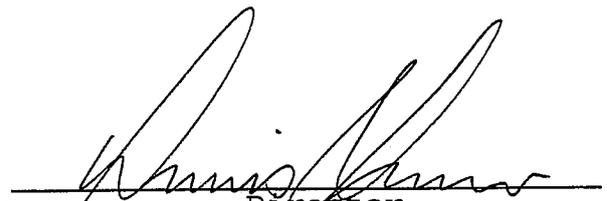
Nothing in this permit shall be construed to preclude the constitution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringements of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

7-12-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

JH/jyi

ROAD APPLICATION CONDITIONS

This permit is issued with the requirement that the following conditions are met:

1. of 6 Waste oil and sludge shall be applied by a method and at a rate which will prevent runoff or ponding after incorporation into the road. Applications shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. of 6 The slope of the roads application shall not exceed 8 percent.
3. of 6 Waste oil and sludge application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. of 6 The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Jeff Hermansky phone number 307-332-3144, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of application and must be informed how much waste oil and sludge will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

Road Application Permit
PG & E Resources Road Application
93-173

5. of 6 Waste oil and sludges applied to a road will be mechanically incorporated into the road bed. Wastes will not be applied during the period from November 1 to April 30.
6. of 6 Only the roads designated in this permit are authorized for application of the waste oil and sludge. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the Water Quality Division.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 93-174

Haley Septic Tank/Leach Field
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

John R. Haley IV

P.O. Box 64

Greybull, WY 82426

to construct a septic tank/leach field according to the procedures and conditions of the application No. 93-174. The facility is located in SW $\frac{1}{4}$ Section 4, T51N, R93W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described

herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

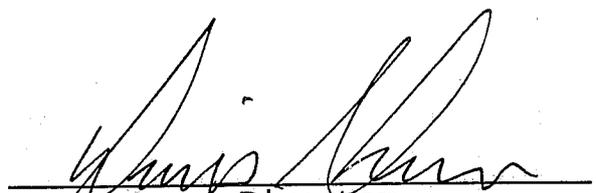
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

6-7-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

JH/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-175
* CONDITIONED *

Colter Bay Maintenance Yard, Grand Teton National Park
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

National Park Service
12795 West Alameda Parkway
Denver, CO 80225-0287

to construct three (3) 2 inch PRC monitoring wells at the Colter Bay Maintenance Yard according to the procedures and conditions of the application No. 93-175. The facility is located in NW¼ Section 35, T46N, R115W in the County of Teton, in the State of Wyoming.

This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is

solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

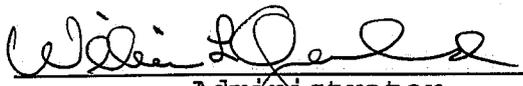
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

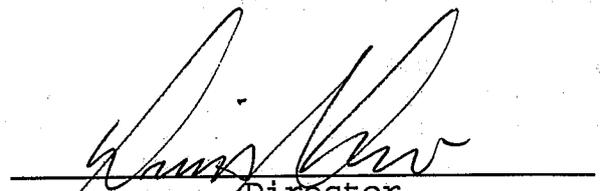
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

5-27-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Conditions for Monitoring Wells 1 through 10

* CONDITIONS FOR MONITORING WELLS 1 through 10 *

1. of 10 The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 93-175. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. of 10 Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. of 10 After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. of 10 A waterproof protective casing and locking cap is required on all monitoring wells. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the Division. The wells shall be clearly numbered on the outside of the protective casing and on the inside of the well cap.
5. of 10 The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.
6. of 10 In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - a. The borehole diameter shall be at least four inches larger in diameter than the casing diameter; unless otherwise approved by the Department of Environmental Quality, Water Quality Division.

- b. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level; Factory slotted casing is recommended for the perforated interval;
 - c. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - d. To minimize the entrance of fine grained material into the well the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - e. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - f. A minimum of one foot of bentonite or bentonite grout seal shall be placed directly above the filter pack and the top of perforations of the screened interval. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - g. A protective casing and locking cap is required. The protective casing shall be cemented into a sloping concrete cap; and
 - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected. If contaminants are present or expected to be present, development water should be disposed of in accordance with all state and federal regulations.
7. of 10 DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. of 10 Within 90 days of issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. The monitoring well elevation should be measured from the top of casing and that measuring point should be clearly marked on the inside of the casing with an arrow (^).
 - d. Final location, construction details and logs of all monitoring wells;

- e. Hydrogeologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - f. Water level and product thickness measurements;
 - g. Sample collection procedures;
 - h. Sampling analytical results;
 - i. Maps delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - j. A potentiometric surface map showing the direction of groundwater movement; and
 - k. Interpretation of data and conclusions including recommended remedial measures.
9. of 10 Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. of 10 All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for BETX (EPA Method 8260 or 524.2), TPH (EPA method modified 8015 for diesel and gasoline) and for oil and grease by Method 413.1.

The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 93-176

BLACK RESIDENCE SEPTIC SYSTEM
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Everett Black
P.O. Box 359
Hulett, WY 82720

to construct, install or modify a wastewater treatment facility according to the procedures and conditions of the application No. 93-176. The facility is located in the Section 7, Township 54 North, Range 64 West, in the County of Crook in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising

from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

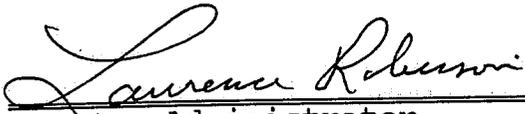
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Supervisor, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

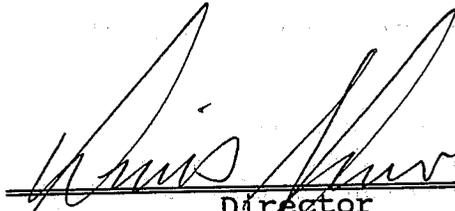
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
for Water Quality Division



Director
Dept. of Environmental Quality

6/15/93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

 JAS:06/07/93

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-177
SPECIAL CONDITIONS

Guernsey Railyard Spill Collection and Treatment

This permit hereby authorizes the applicant:

Burlington Northern Railroad
2000 First Interstate Center
999 Third Avenue
Seattle, Washington 98104-1105

to construct, install or modify industrial collection system according to the procedures and conditions of the application number 93-177. The facility is located in SW and SE 1/4 Section 36, T 27 N, R 66 W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

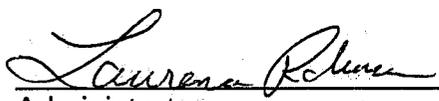
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

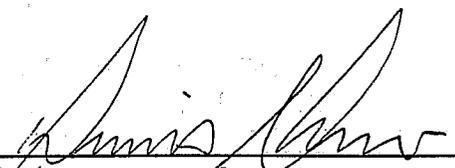
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:

for 

Administrator
Water Quality Division



Director
Department of Environmental Quality

9-20-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITIONS

- 1 of 4. The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 4 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

PERMIT NO. 93-177

- a. Date that construction of the facility was completed; and
- b. Date that the facility was placed in operation; and
- c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
- d. Certification the facility was completed with changes or modifications. Submittal of as-built plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

GLS/bb/34247.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 93-177

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter XI. yes

B. Chapter XII. no

III. Basis for issuing permit. (Indicate yes or no for each section.)

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

yes

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

no

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

no

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

Not Applicable

B. Briefly state the basis for the deviation.

C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

VII. Documentation of Statement of Basis.

- A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

Footnote: Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

GLS/bb/34249.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-178

Highland Purge Storage Reservoir Modifications

This permit hereby authorizes the applicant:

Power Resources, Inc.
P.O. Box 1210
Glenrock, WY 82637

to construct, install or modify Spray Evaporation over existing reservoir according to the procedures and conditions of the application number 93-178. The facility is located in Section 21, NE1/4 T36N, R73W in the county of Converse County, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

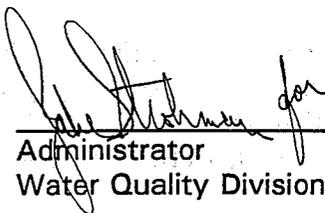
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Program Supervisor, UIC Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

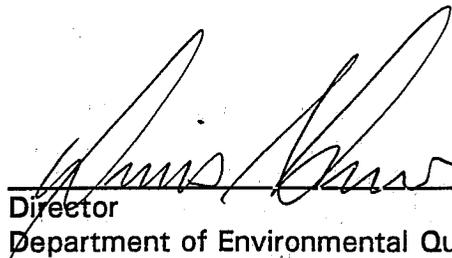
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

6-14-93
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RFL/jn - 32785.ltr

cc: Jim Meining, DEQ/LQD

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-179

Melanie Lane Water Line Replacement

This permit hereby authorizes the applicant:

Town of Glenrock
219 South Third

Glenrock, WY 82637

to construct, install or modify publicly-owned distribution system according to the procedures and conditions of the application number 93-179. The facility is located in NW 1/4 Section 4, T33N, R75W in the county of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

7-12-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

GS/jn - 33220.ltr

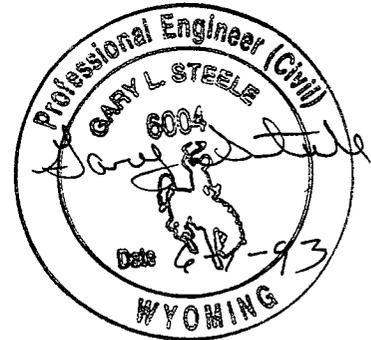
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Melanie Lane Waterline Replacement

ENGINEER: R.C.H. & Assoc.
P.O. Box 1659
Glenrock, WY 82637

APPLICANT: Town of Glenrock
219 S. Third
Glenrock, WY 82637



WATER QUALITY REFERENCE NUMBER: 93-179

APPROVING ENGINEER: Gary Steele

DATE OF REVIEW: 5-28-93

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1. Water Quality Rules and Regulations Chapter XII Section 14b paragraph (ii), indicates that if a fire hydrant is serviced by a 6 inch main, the flow shall be provided from two directions or an 8 inch main shall be used. The plans as submitted does not indicate if the water main in Melanie Lane is connected to the distribution system at Brubaker Road. Please indicate if the system is looped or the replacement main shall be changed to an 8 inch main.
2. Horizontal and vertical dimensions of the sanitary sewer needs to shown on the plans so that the required separation distances can be verified. Chapter XII Section 14 indicates that the sewer line shall be located 10 feet horizontally from the water line and 1.5 feet below the water line. The plans also need to include that the water line shall be placed a minimum of 1.5 feet above any sanitary sewer service lines.
3. The plans need to show the location of all service line connections and, the profile needs to include special features including horizontal bends, service taps, and gate valves.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-180RR

Town of Superior Sewer Improvements
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Superior

P.O. Box 40

Superior, WY 82945

to construct 800 feet of sewer line to service existing lots according to the procedures and conditions of the application No. 93-180RR. The facility is located in Section 28, T21N, R102W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities

allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

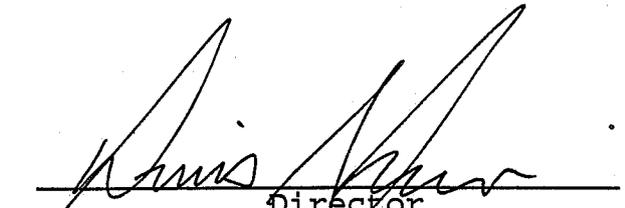
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

7-20-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RT/jyi

RECEIVED

IPS

JUN 10 1993



THE STATE OF WYOMING

WATER QUALITY DIVISION
WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES (307) 332-5085	AIR QUALITY (307) 332-6755	LAND QUALITY (307) 332-3047	SOLID & HAZARDOUS WASTE (307) 332-6924	WATER QUALITY (307) 332-3144
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June 7, 1993

Wyoming Public Works Council
P.O. Box 32
Cheyenne, Wyoming 82003

RE: Standard Specifications, DEQ/WQD Ref. No. 93-181

Dear Council Members:

This office has completed a review of the sections of the 1993 edition of the Wyoming Public Works Standard Specifications that are covered by the Department of Environmental Quality/Water Quality Division Rules and Regulations. The review included:

- SECTION 02220 - TRENCH EXCAVATION;
- SECTION 02225 - TRENCH BACKFILL;
- SECTION 02226 - BACKFILLING FOR APPURTENANCES;
- SECTION 02570 - ADJUSTING STREET FIXTURES;
- SECTION 02645 - FIRE HYDRANTS;
- SECTION 02665 - WATER DISTRIBUTION AND TRANSMISSION SYSTEMS;
- SECTION 02670 - HYDROSTATIC TESTING;
- SECTION 02675 - DISINFECTION and
- SECTION 02700 - SANITARY SEWER SYSTEMS;

Also reviewed were the standard drawings referenced to these sections.

The sections listed and the standard drawings are in compliance with the Water Quality Rules and Regulations and are hereby authorized. Applications for construction permits need only refer to these specifications on the plan sheets to become the specifications of record for the project. It remains the engineers responsibility to address areas not covered by these specifications in the project special provisions.

Sincerely,

Jeff Hermansky for
William L. Garland
Administrator

WLG/JCH/jyi

AUTHORIZED BY AUTHORITY OF

Water Quality Rules and
Regulations, Chapter III

Director

Department of Environmental Quality

PERMIT NO. 93-181

DATE June 7, 1993

BY *Jeff C. Hermansky P.E.*

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-182

See Special Conditions

Renewal

Modified

GOULD STREET RECONSTRUCTION PROJECT

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Sheridan
55 East Grinnell Avenue
Sheridan, WY 82801

to construct, install or modify the Gould Street water main according to the procedures and conditions of application No. 93-182. The facility is located in the NE/4 SE/4, Section 27, Township 56 North, Range 84 West, in the County of Sheridan in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

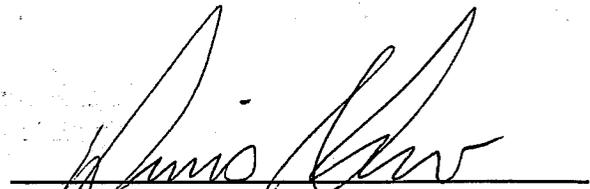
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

8-3-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

DRM/dm:07/30/93

SPECIAL PERMIT CONDITIONS

- 1 of 4 The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Supervisor, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.
- 2 of 4 The permittee shall provide immediate oral and/or written notification, in accordance with Section 9, Chapter III, to the Sheridan District Office of any changes or modifications to the approved permit package.
- 3 of 4 The permittee shall provide certification to the Sheridan District Office that the project was completed in accordance with the terms and conditions of the permit.
- 4 of 4 The permittee shall submit as-built plans and specifications for the system as it was constructed in the field within sixty (60) days of the project completion.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-183R
* CONDITIONED *

Wind River Middle/High School Water and Sewer
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Fremont County School district #6

Duane Roehrick, Superintendent

11162 Highway 26

Kinnear, WY 82516

to construct a six (6) inch water connection and sanitary sewer line according to the procedures and conditions of the application No. 93-183R. The facility is located in Section 7, T3N, R2E, Town of Pavillion, in the County of Fremont, in the State of Wyoming.

This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the

performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

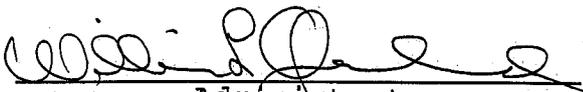
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

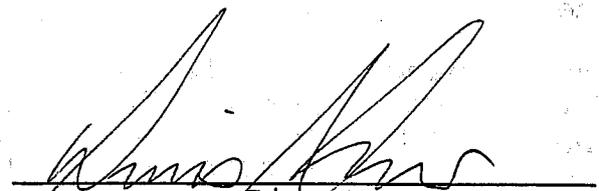
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

8-16-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

STANDARD CONDITIONS 1 through 4

1 of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality

Permit to Construct 93-183
Wind River Middle/High School

Division, by the attached post card of the date construction will begin and the estimated completion date.

- 2 of 4 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
- a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-built plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
- 4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

GL/nc 33727.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 93-183R

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter XI. Yes

B. Chapter XII. Yes

III. Basis for issuing permit.

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

No

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations.

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

Chapter XII, Section 14 (b); "The system shall be designed to maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow".

B. Briefly state the basis for the deviation.

Although low pressures of 10 - 15 psi exists at the connection to the main, the school is equipped with the appropriate pumping equipment to provide the required water pressures within the building. Low pressure exists from the six(6) inch connection at the main to the pumps in the school, only. A deviation is being granted for

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-184

Dakota Street Water Main Installation

This permit hereby authorizes the applicant:

Town of Guernsey
81 W. Whalen
Guernsey, WY 82214

to construct, install or modify public water supply (water main installation) according to the procedures and conditions of the application number 93-184. The facility is located in SE 1/4 Section 35, T27N, R66W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

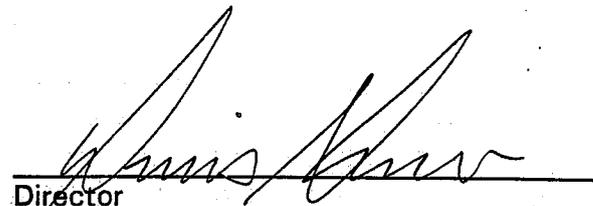
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

6-7-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

GS/jn - 32646.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 93-185
SPECIAL CONDITIONS

Cheyenne Inn Water Line

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
2200 Pioneer Ave.
Cheyenne, WY 82001

to construct, install or modify publicly-owned water distribution and commercial wastewater collection system according to the procedures and conditions of the application number 93-185. The facility is located in SE 1/4 Section 2, T13N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

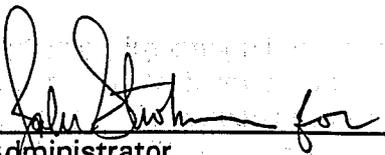
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

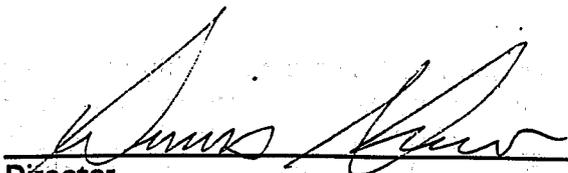
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

6/11/93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITIONS

- 1 of 2. The sewer service connections to the building shall have a minimum slope of 2% in accordance with Chapter XI Section 9c paragraph (iii)(B).
- 2 of 2. In accordance with Chapter XII Section 14b paragraph (i), the water distribution system shall have a minimum pressure of 20 psi at ground level and a working pressure of 35 psi.

GS/jn - 32785.ltr

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-187

(See Attached Special Conditions)

Renewal

Modified

DOWELL SCHLUMBERGER INC. BULK FACILITY PRODUCT RECOVERY SYSTEM

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Dowell Schlumberger Incorporated

P. O. Box 4378

Houston, Texas 77210

to construct, install or modify a product recovery system according to the procedures and conditions of the application No. 93-187.

The facility is located in SE/SW Section 22, Township 50 North, Range 72 West, in the County of Campbell in the State of Wyoming.

This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described

herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

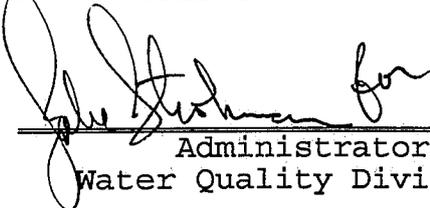
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

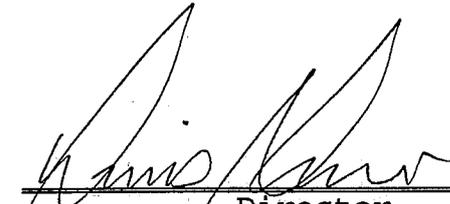
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

6/21/93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SCF:6/18/93

Special Conditions to Permit Number 93-187
Dowell Schlumberger Inc. Bulk Facility Product Recovery System

- 1 of 3. A bi-monthly report must be submitted to the department during the operation of the product recovery system. The report must include the results of all bi-weekly system inspections, results of any sampling conducted during the period, the amount of recovered product (both for the period and cumulative total), the fate of any product collected, and any down-time or changes made to the system.
- 2 of 3. The schedule submitted with the permit application must be adhered to. Any deviations from the proposed schedule must be approved by the department.
- 3 of 3. A final report must be submitted to the department within 30 days of recovery system close out. The report must include a justification for closing out the system and a description of the actions taken to properly abandon the system.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-188

Cassa Rest Area - Retention Pond Demolition

This permit hereby authorizes the applicant:

Wyoming Department of Transportation
P.O. Box 955
Wheatland, Wyoming 82201

to construct, install or modify land application of retention pond sludge as soil amendment according to the procedures and conditions of the application number 93-188. The facility is located in SW 1/4, Section 17, T28N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

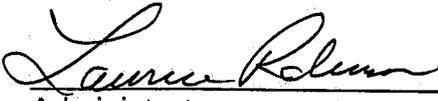
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

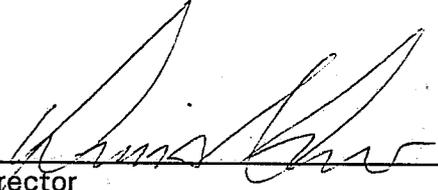
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



for Administrator
Water Quality Division



Director
Department of Environmental Quality

6/21/93
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RLE/bb/32944.LTR

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-190

Renewal

SEE SPECIAL CONDITIONS

Modified

S POPLAR & W 25TH ST SANITARY SEWER RELIEF MAIN

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Casper
200 North David
Casper, WY 82601

to construct, install or modify a sanitary sewer relief main according to the procedures and conditions of the application No. 93-190. The facility is located in the SE/4 of Section 17, Township 33 North, Range 79 West in the County of Natrona in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described

herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

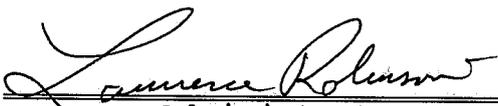
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Supervisor, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

6/21/93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

 DRM/pr:06/10/93

PERMIT CONDITIONS

- 1 of 1. As-built drawings shall be submitted to the DEQ/WQD Sheridan District Office once construction is complete.

LAND APPLICATION PERMIT

- New
 Renewal
 Modified

PERMIT NO. 93-191

SEE SPECIAL CONDITIONS

FINN FIELD ROAD APPLICATION

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Western Production Company
923 Grieves Road
Newcastle, WY 82701

to land apply wash bay wastewater according to the procedures and conditions of the application No. 93-191. The application site is located in Section 9, T42N, R64W, in the County of Weston in the State of Wyoming. This permit shall be effective until November 1, 1993.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum application standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal will meet applicable state requirements.

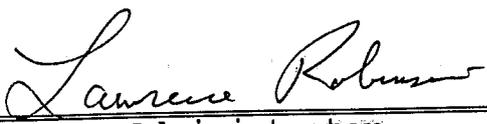
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site, at the above location, for the purpose of compliance with the provisions of this permit.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

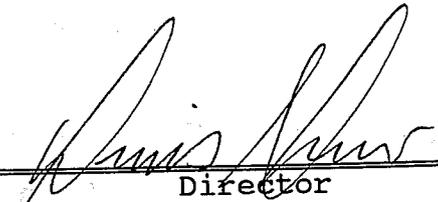
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
for Water Quality Division
6/15/93

Date of Issuance



Director
Dept. of Environmental Quality

This permit does not supersede the requirements for obtaining any permit from local agencies.


DRM/pr:06/09/93

LAND APPLICATION SPECIAL CONDITIONS

1 of 5. Wash bay wastewater shall be applied uniformly. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist. Wash bay wastewater shall not be applied during the period from November 1 to April 10.

2 of 5. The application site slope shall not exceed eight percent (8%) for vehicular application.

3 of 5. Wash bay wastewater application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

4 of 5. Any wash bay wastewater application after November 1, 1993 must be re-permitted.

5 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457, to arrange a field inspection prior to initiation of work. The District Office should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

LAND APPLICATION PERMIT

[X] New

PERMIT NO. 93-192

[] Renewal

SEE SPECIAL CONDITIONS

[] Modified

MUSHCREEK PIT ROAD APPLICATION

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Western Production Company
923 Grieves Road
Newcastle, WY 82701

to land apply oil contaminated soil according to the procedures and conditions of the application No. 93-192. The application site is located in Section 7, T42N, R64W and Section 12, T42N, R65W, in the County of Weston in the State of Wyoming. This permit shall be effective until November 1, 1993.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum application standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal will meet applicable state requirements.

Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site, at the above location, for the purpose of compliance with the provisions of this permit.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

Laurena Robinson
Administrator
for Water Quality Division
6/15/93
Date of Issuance

Chris Shaw
Director
Dept. of Environmental Quality

This permit does not supersede the requirements for obtaining any permit from local agencies.

DRM/pr:06/09/93

LAND APPLICATION SPECIAL CONDITIONS

1 of 5. Oil contaminated soil shall be applied uniformly. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist. Oil contaminated soil shall not be applied during the period from November 1 to April 10.

2 of 5. The application site slope shall not exceed eight percent (8%) for vehicular application.

3 of 5. Oil contaminated soil application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

4 of 5. Any oil contaminated soil application after November 1, 1993 must be re-permitted.

5 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457, to arrange a field inspection prior to initiation of work. The District Office should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-193

Hocking Septic Tank/Leach Field
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Scott Hocking

P.O. Box 536

Wilson, WY 83014-536

to construct a septic tank/leach field facility according to the procedures and conditions of the application No. 93-193. The facility is located in the town of Alpine, Lot #69, Palis Park in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
for Water Quality Division



Director
Dept. of Environmental Quality

6-14-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RT/fi - 32827.ltr

LAND APPLICATION PERMIT

- New
 Renewal
 Modified

PERMIT NO. 93-194
Reference Permit 92-212
SEE SPECIAL CONDITIONS

SUSSEX UNIT ROAD APPLICATION
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Conoco, Inc.
800 Werner Court
Casper, WY 82601

to land apply waste oil according to the procedures and conditions of the application No. 93-194. The application site is located in Sections 14, 15, 22, & 23, T42N, R78W, in the County of Johnson in the State of Wyoming. This permit shall be effective until November 1, 1993.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum application standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal will meet applicable state requirements.

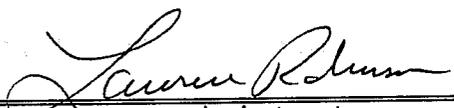
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site, at the above location, for the purpose of compliance with the provisions of this permit.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

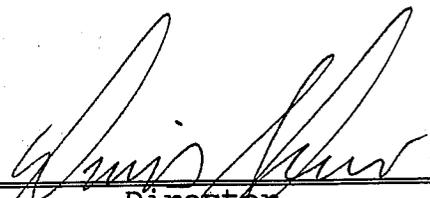
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
for Water Quality Division
6/15/93

Date of Issuance



Director
Dept. of Environmental Quality

This permit does not supersede the requirements for obtaining any permit from local agencies.

DRM/pr:06/09/93

LAND APPLICATION SPECIAL CONDITIONS

1 of 5. Waste oil shall be applied uniformly. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist. Waste oil shall not be applied during the period from November 1 to April 10.

2 of 5. The application site slope shall not exceed eight percent (8%) for vehicular application.

3 of 5. Waste oil application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

4 of 5. Any waste oil application after November 1, 1993 must be re-permitted.

5 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457, to arrange a field inspection prior to initiation of work. The District Office should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

LAND APPLICATION PERMIT

- New
 Renewal
 Modified

PERMIT NO. 93-195
Reference Permit 92-211
SEE SPECIAL CONDITIONS

NORTH TISDALE UNIT ROAD APPLICATION
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Conoco, Inc.
800 Werner Court
Casper, WY 82601

to land apply waste oil according to the procedures and conditions of the application No. 93-195. The application site is located in Sections 4 & 9, T41N, R81W, in the County of Johnson in the State of Wyoming. This permit shall be effective until November 1, 1993.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum application standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal will meet applicable state requirements.

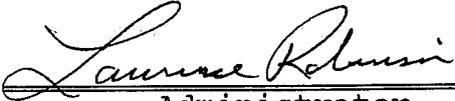
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site, at the above location, for the purpose of compliance with the provisions of this permit.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

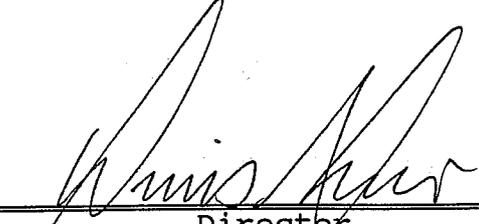
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
for Water Quality Division
6/15/93

Date of Issuance



Director
Dept. of Environmental Quality

This permit does not supersede the requirements for obtaining any permit from local agencies.

DRM
DRM/pr:06/09/93

LAND APPLICATION SPECIAL CONDITIONS

- 1 of 5. Waste oil shall be applied uniformly. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist. Waste oil shall not be applied during the period from November 1 to April 10.
- 2 of 5. The application site slope shall not exceed eight percent (8%) for vehicular application.
- 3 of 5. Waste oil application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
- 4 of 5. Any waste oil application after November 1, 1993 must be re-permitted.
- 5 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457, to arrange a field inspection prior to initiation of work. The District Office should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-196
SPECIAL CONDITIONS

Randall & Barbara Jones Septic System

This permit hereby authorizes the applicant:

Randall & Barbara Jones
1003 - 20th
Wheatland, WY 82201

to construct, install or modify small wastewater septic system according to the procedures and conditions of the application number 93-196. The facility is located in Section 15, T24N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

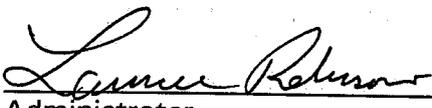
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

6/21/93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITIONS

- 1 of 1 Septic tank shall have either the 6" cleanout or the 22" manway extended to the surface of the ground.

RF

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Randall & Barbara Johnes Septic System

ENGINEER: None

APPLICANT: Randall & Barbara Johnes
1003 20th
Wheatland, WY 82201

WATER QUALITY REFERENCE NUMBER: 93-196

APPROVING ENGINEER: Gary Steele

DATE OF REVIEW: June 15, 1993

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1 of 3 An addition error was found on sheet 5 part 3d of the worksheet. The total infiltrative area with 160 feet of trench is 560 which is less than the 692 square feet required. A trench 200 feet long will result in an infiltration area of 700 square feet which is greater than the 692 square feet required.

If infiltrator leaching chambers are used the multiplier for the length of chambers is 0.6. The total length of the chambers would then be 0.6 X 200 feet of trench = 120 feet of chambers.

2 of 3 Please provide information on the infiltrator leaching chambers such as the manufacturer, size, etc.

3 of 3 The property lines, and the distances to the property lines need to be shown on the Plan sheet so that the separation distances from the property lines can be verified.

Please make the revisions shown and resubmit three revised copies of the permit application package. Also please provide the information requested. If you have any questions please feel free to contact me at 777-7088.

/nc 32904.LTR



PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-197R
* **CONDITIONED** *

Shell Valley West Waterline
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Shell Valley West Water & Sewer District

Shell Rte. Box 8A

Greybull, WY 82426

to construct approximately 4 1/2 miles of six (6) inch waterline according to the procedures and conditions of the application No. 93-197R. The facility is located in Sections, 3,4,10,11, T52N, R93W, in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is

solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

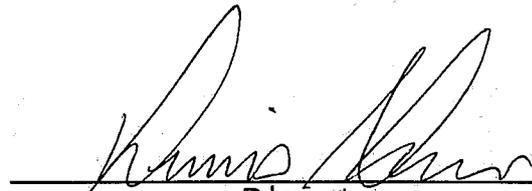
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

8-16-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

STANDARD CONDITIONS 1 through 4

- 1 of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion

date.

- 2 of 4 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
- a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-built plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
- 4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

STATEMENT OF BASIS

I. General information.

A. Permit Number: 93-197R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. N/A

B. Chapter XII. Yes

III. Basis for issuing permit.

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

Yes

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations.

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

N/A

B. Briefly state the basis for the deviation.

N/A

C. Permit based on general or statewide deviation contained in approved policy statement.

N/A

V. Documentation of Statement of Basis.

A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-198
(See Special Permit Conditions)

Renewal

Modified

COOK ROAD MUNICIPAL WATER SUPPLY WELL
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Wyoming Water Development Commission
Herschler Building
Cheyenne, Wyoming 82002

to construct, install or modify a municipal water supply well according to the procedures and conditions of the application No. 93-198. The well site is located in the NW/4 Section 28 T50N R73W in the County of Campbell in the State of Wyoming. This permit shall be effective for a period of one (1) month from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

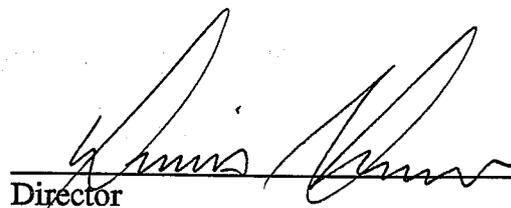
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

8-27-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL PERMIT CONDITIONS

- 1 of 4. The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project on the attached post card. The authorized representative in your area can be contacted at the following address: Wyoming DEQ/WQD, Sheridan District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.
- 2 of 4. The permittee shall provide immediate oral and/or written notification, in accordance with Section 9, Chapter III, to the Sheridan District Office of any changes or modifications to the approved permit package.

Permit to Construct 93-198

- 3 of 4. Within sixty days of completion of construction of the authorized facility, the applicant will submit to Sheridan District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
- a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-built plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
- 4 of 4. The review and approval of this permit is based upon the items identified in the attached Statement of Basis.

DRM/pr:08/19/93 /nc 33970.LTR

Attachments: Notification Post Card
Certification of Completion Form
Statement of Basis

Permit to Construct 93-198

STATEMENT OF BASIS

I. General information.

A. Permit Number: 93-198

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit. (Indicate yes or no for each section.)

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

No

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

Yes

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

Wyoming Water Quality Rules and Regulations Chapter XII Section 9 (b) (iii) (C) parts (I), (III), and (IV).

B. Briefly state the basis for the deviation.

Part (I) requires specific construction standards for the well casing. API grade casing is proposed and approved for two reasons: 1) the contractors are more

familiar with the handling and use of typical oilfield materials for relatively deep well completions, and 2) the casing exceeds the DEQ/WOD standard line pipe specifications.

Part (III) requires formation sieve analysis for determining the well screen opening. The proposed and approved screen size determination is based on past experience in completing local Fort Union Formation water wells. Sieve analysis has been utilized in the past for area Fort Union Formation wells and often yielded screen openings which have either plugged or allowed sand entry.

Part (IV) requires a wellbore and casing clearance of two inches or more. The proposed and approved clearance is less than the minimum of two inches, but within standard oilfield drilling and completion practices. The DEQ/WOD two inch requirement does not necessarily insure a good cement seal. Proper borehole conditioning and adequate spacing between the casing and wellbore are more critical factors affecting the quality of the cement seal.

Part (IV) (1.) requires cement conforming to ASTM Standard C150. The proposed and approved API cement is similar in composition to the DEQ/WOD standard and the contractor is more familiar with accepted oil industry "deep" well completion materials and techniques.

- C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A, public water supply

- VII. Documentation of Statement of Basis.

- A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

Footnote: Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

DRM/pr:08/19/93 /nc 33970.LTR

Revised August 9, 1993

TELEPHONE REVIEW OF PLANS AND SPECIFICATIONS
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Avenue, Annex
Sheridan, WY 82801
307-672-6457

PROJECT: Cook Road & Pine Butte Water Wells

ENGINEER: John Wetstein & Larry Wester
WWA, Inc.
P.O. Box 29
Laramie, WY 82070

APPLICANT: Evan Green
Wyoming Water Development Commission
Herschler Building
Cheyenne, WY 82002

REFERENCE: Permits 93-198R (Cook Road) & 93-199R (Pine Butte)

REVIEWER: Don McKenzie

REVIEW DATE: August 16, 1993

STATUS: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The following items were discussed by telephone with Mr. Larry Wester:

- A) A copy of the referenced John Wagner letter was not provided in the review response received 7/23/93. Mr. Wester said he would provide this document.
- B) Language reflecting the submittal of well information to the DEQ is still required. Mr. Wester will provide this in a letter.
- C) When I inquired about the drill date for the wells, Mr. Wester indicated the Cook well was to be drilled this afternoon. I informed Mr. Wester that a permit to construct would have to be issued first or a violation would occur. Mr. Wester told me a permit to construct was not necessary. I again stated a permit to construct was required. I also asked Mr. Wester to contact the WWDC to let them know this would be a violation. He said he would.

DRM/dm

xc: Larry Robinson, DEQ/WQD, Cheyenne
Evan Green, WWDC, Cheyenne
Permit Application Files 93-198 & 93-199

REVIEW OF PLANS AND SPECIFICATIONS
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Avenue, Annex
Sheridan, WY 82801
307-672-6457

PROJECT: Cook Road & Pine Butte Water Wells

ENGINEER: John Wetstein
WWA, Inc.
P.O. Box 29
Laramie, WY 82070

APPLICANT: Evan Green
Wyoming Water Development Commission
Herschler Building
Cheyenne, WY 82002

REFERENCE: Permits 93-198 (Cook Road) & 93-199 (Pine Butte)

REVIEWER: Don McKenzie *DKM*

REVIEW DATE: July 12, 1993

STATUS: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- A) The respective applications indicate SEO permit applications have been submitted.
- B) The following comments are based upon regulations found in the Chapter XII of the Wyoming Water Quality Rules and Regulations (WWQRR), which addresses the design and construction standards for public water supplies:
- 1) The well construction detail drawings should include approximate elevations of the geological formations to be encountered (Section 7 (e)). A typical area geologic cross-section may also be appropriate for these well sites.
 - 2) The submittal of well information to the DEQ/WQD, such as construction details, electric logs, and test data, is required (Section 7 (f) (vii)). The applications must contain language noting this requirement.
 - 3) The location of the wells with respect to flooding, pollution sources, buildings, and property lines must be addressed in the application (Section 9 (b) (i) parts (A), (B), (C), (D), respectively).

(Comment B) 3) continued)

The disinfection procedure for the wells appears to be in accordance with AWWA A-100 standards. However, the DEQ/WQD is concerned about the eventual disposal of the solution once the treatment period is completed. What is the intended disposal method for this fluid? If surface discharge is proposed, contact Mr. John Wagner at 777-7082 in the DEQ/WQD Cheyenne office for authorization.

In addition to the potential septic pollution sources noted in the regulations are there any other potential pollution sources located near the well sites?

Are any adverse impacts to water quality as a result of discharging development water and drilling mud or burial of the reserve pits near the wells anticipated? Mr. Wagner should be contacted for any proposed discharge of fluids at the sites.

Please submit a disposal plan for any anticipated wastes generated at the well sites.

- 4) What provisions are proposed to allow for groundwater protection during the construction of the wells (Section 9 (b) (iii) (A))?
- 5) What is the anticipated length of the surface casings for each well (Section 9 (b) (iii) (B) (II) (2.))?
- 6) Will more than one aquifer be penetrated, and if so, where and how will it be isolated (Section 9 (b) (iii) (B) (IX) (1.))?
- 7) What provisions will be taken in the event mineralized or polluted water is encountered (Section 9 (b) (iii) (B) (X))?
- 8) Why are the API J55 and K55 casings proposed for use versus those casing materials approved by the DEQ/WQD? How were the respective size and type of casings chosen? Please provide written justification for this variance request (Section 9 (b) (iii) (C) (I) (2.) (a.)).
- 9) Do the proposed liner-hanger-packers utilize lead or neoprene for a sealing material (Section 9 (b) (iii) (C) (I) (4.))?

- 10) Will the chosen packers impart taste, odor, toxic substance, or bacterial contamination to the water (Section 9 (b) (iii) (C) (II))?
- 11) The screen openings are stated to be adequate for the Fort Union Formation. Please submit the sieve analysis for documentation (Section 9 (b) (iii) (C) (III)).
- 12) The proposed clearance of less than two-inches between the wellbore and the casing requires a variance from Section 9 (b) (iii) (C) (IV). Why are Gulf Coast, West Texas, and Arco references provided for a Wyoming well completion? According to Craft, Holden and Graves, Well Design: Drilling & Production, Table 2.18 on page 145, a two-inch annular clearance is recommended for oilwell casing design and construction. Will a cement bond log be run to document adequate cement coverage has been attained?
- 13) The use of Type G cement appears to meet the requirements of AWWA A-100. Does it or the Type H cement also conform to ASTM C150? Why are either of these cement types proposed over other available cementing products (Section 9 (b) (iii) (C) (IV) (1.))? Why is the Flocele product proposed as a cement additive?
- 14) What is the appropriate set time for the proposed cements (Section 9 (b) (iii) (C) (IV) (4.))?
- 15) Are centralizers proposed for setting the casing, and if so, what is the anticipated spacing (Section 9 (b) (iii) (C) (IV) (5.))? What is the anticipated centralizer spacing on the liner? Are shale baskets necessary for the liner installation?
- 16) Will the well apron slope away from the respective surface casings at the required one inch per foot (Section 9 (b) (iii) (C) (V) (1.))?
- 17) Are well houses proposed for these wells (Section 9 (b) (iii) (C) (V) (2.))?
- 18) What are the well protection provisions for these wells (Section 9 (b) (iii) (C) (VII))?
- 19) What provisions are proposed for the respective well pumps, discharge piping, and appurtenances (Section 9 (b) (iii) (D))?

Cook/Pine Butte Water Wells Review
July 12, 1993
Page 4 of 4

- C) In the event the wells are to be plugged and abandoned (P&A), Section 70 of Part G of Chapter XI of the WWQRR must be followed. A copy of these plugging requirements are enclosed for your reference. The application should either reference the P&A rules or include the section as an appendix. Please note there are DEQ/WQD reporting deadlines for P&A operations.

DRM/dm

Enclosure

xc: Permit Application Files 93-198 & 93-199

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-199
(See Special Permit Conditions)

Renewal

Modified

PINE BUTTE MUNICIPAL WATER SUPPLY WELL

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Wyoming Water Development Commission
Herschler Building
Cheyenne, Wyoming 82002

to construct, install or modify a municipal water supply well according to the procedures and conditions of the application No. 93-199. The well site is located in the NW/4 Section 25 T52N R73W in the County of Campbell in the State of Wyoming. This permit shall be effective for a period of one (1) month from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

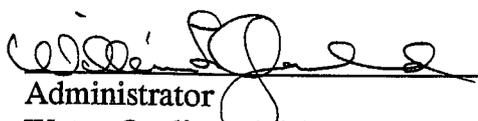
Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

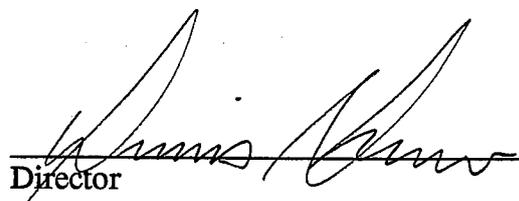
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

8-27-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL PERMIT CONDITIONS

- 1 of 4. The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project on the attached post card. The authorized representative in your area can be contacted at the following address: Wyoming DEQ/WQD, Sheridan District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.
- 2 of 4. The permittee shall provide immediate oral and/or written notification, in accordance with Section 9, Chapter III, to the Sheridan District Office of any changes or modifications to the approved permit package.

Permit No. 93-199

3 of 4. Within sixty days of completion of construction of the authorized facility, the applicant will submit to Sheridan District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

- a. Date that construction of the facility was completed; and
- b. Date that the facility was placed in operation; and
- c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
- d. Certification the facility was completed with changes or modifications. Submittal of as-built plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4. The review and approval of this permit is based upon the items identified in the attached Statement Of Basis.

DRM/pr:08/19/93 /nc 33969.LTR

Attachments: Notification Post Card
Certification Of Completion Form
Statement Of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 93-199

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit. (Indicate yes or no for each section.)

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

No

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

Yes

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

Wyoming Water Quality Rules and Regulations Chapter XII Section 9 (b) (iii) (C) parts (I), (III), and (IV).

B. Briefly state the basis for the deviation.

Part (I) requires specific construction standards for the well casing. API grade casing is proposed and approved for two reasons: 1) the contractors are more

familiar with the handling and use of typical oilfield materials for relatively deep well completions, and 2) the casing exceeds the DEQ/WOD standard line pipe specifications.

Part (III) requires formation sieve analysis for determining the well screen opening. The proposed and approved screen size determination is based on past experience in completing local Fort Union Formation water wells. Sieve analysis has been utilized in the past for area Fort Union Formation wells and often yielded screen openings which have either plugged or allowed sand entry.

Part (IV) requires a wellbore and casing clearance of two inches or more. The proposed and approved clearance is less than the minimum of two inches, but within standard oilfield drilling and completion practices. The DEQ/WOD two inch requirement does not necessarily insure a good cement seal. Proper borehole conditioning and adequate spacing between the casing and wellbore are more critical factors affecting the quality of the cement seal.

Part (IV) (1.) requires cement conforming to ASTM Standard C150. The proposed and approved API cement is similar in composition to the DEQ/WOD standard and the contractor is more familiar with accepted oil industry "deep" well completion materials and techniques.

- C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A, public water supply

VII. Documentation of Statement of Basis.

- A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

Footnote: Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

DRM/pr:08/19/93 /nc 33969.LTR

Revised August 9, 1993

ROAD APPLICATION PERMIT

PERMIT NO.: 93-200R
SEE SPECIAL CONDITIONS

National Treasure Mines Road Application
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

R. R. Manley

605 E. Chestnut Street

San Gabriel, CA 91776

to road apply crude oil contaminated soil. The application site is located in SW¼ Section 17, T.52N., R.93W. in the county of Big Horn in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable standards. The authority to road apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allow under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions of this permit.

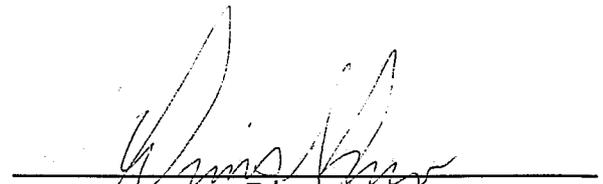
Nothing in this permit shall be construed to preclude the constitution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringements of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

10-15-93

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

cc: Terrel J. Hopkins
535 4th Ave. N.
Greybull, WY 82426

ROAD APPLICATION STANDARD CONDITIONS

This permit is issued with the requirement that the following conditions are met:

1. of 10 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date the road application will begin and the estimated completion date.
2. of 10 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
3. of 10 Within sixty days of completion of the road application, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that the road application was completed; and

- b. Certification the road application was done in accordance with the terms and conditions of the permit; or
 - c. Certification the road application was completed with changes or modifications. Submit the information necessary to clearly indicate the road application as actually performed.
- 4. of 10 Waste oil and sludge shall be applied by a method and at a rate which will prevent runoff or ponding after incorporation into the road. Applications shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
 - 5. of 10 The slope of the roads application shall not exceed 8 percent.
 - 6. of 10 Waste oil and sludge application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
 - 7. of 10 The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Jeff Hermansky phone number 307-332-3144, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of application and must be informed how much waste oil and sludge will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
 - 8. of 10 Waste oil and sludges applied to a road will be mechanically incorporated into the road bed. Wastes will not be applied during the period from November 1 to April 30.
 - 9. of 10 Only the roads designated in this permit are authorized for application of the waste oil and sludge. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the Water Quality Division.
 - 10. of 10 The review of this permit and the authorization is based upon the items identified in the attached Statement of Basis.

STATEMENT OF BASIS

I. General information.

A. Permit Number: 93-200R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. No

B. Chapter XII. No

III. Basis for issuing permit.

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

No

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations.

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

There are no numeric standards or criteria in Chapter XI for road application. W. S. 35-11-301 (a) (iii) requires a permit to be issued when any disposal system capable of causing or contributing to pollution is constructed, installed, modified, or operated.

B. Briefly state the basis for the deviation.

Road application is permitted when DEQ authorized disposal facilities are not readily available, a beneficial use of the waste to be applied is possible, and significant impact to waters of the State is minimized.

- C. Permit based on general or statewide deviation contained in approved policy statement.

District Policy numbers 10.1 (4/9/91), 10.2 (10/17/86), 10.3 (8/91), 10.4 (10/24/91), and 10.6 (1/18/91) address the statutory authority to regulate the road application of waste, establish the criteria for characterizing the waste, and determine acceptable conditions for the application of the waste to roadbeds to minimize impact to waters of the State.

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote¹

Applicable

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected.

- A. Facility will not allow a discharge to groundwater. Briefly describe:

The opportunity for direct or indirect discharge percolation, or filtration to groundwater is minimized by uniformly applying the crude oil contaminated soil onto the roadbed. Repeated applications of crude oil contaminated soil on the same sections of road will be monitored by roadbed analyses required for any future applications.

- B. Quality of wastewater is such that it will not cause a violation of groundwater standards. Briefly describe:

N/A

- C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

N/A

¹ Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

Statement of Basis
93-200R
October 4, 1993

- D. Basis of facility design is that it will be operated so as not to violate groundwater standards. Briefly describe:

N/A

- E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

N/A

- F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

N/A

- G. Briefly describe monitoring system. Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

N/A

VII. Documentation of Statement of Basis.

- A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

b/34766.ltr

