

PERMIT TO CONSTRUCT

New

Permit No. 89-351R

Renewal

Modified

Lower Snake Draw Reservoir  
(Name of Facility)

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

FMC Wyoming Corporation

Box 872

Green River, WY 82935

to increase the elevation of the tailings impoundment back (North) dike according to the procedures and conditions of the application No. 89-351R. The facility is located in NW 1/4, SE 1/4 Section 22 T19N, R110W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 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.

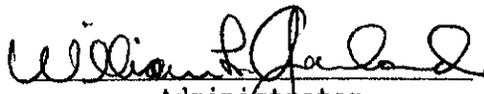
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

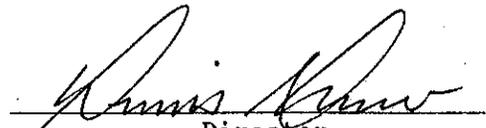
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

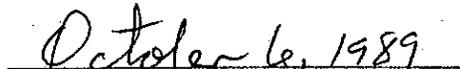
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

  
\_\_\_\_\_  
Date of Issuance

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

PERMIT TO CONSTRUCT

PERMIT NO. 89-352  
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

Eklund Septic Tank and Drainfield

This permit hereby authorizes the applicant:

John Eklund  
Box 188, Meriden Road  
Cheyenne, WY 82009

to construct, install or modify septic tank and drainfield according to the procedures and conditions of the application number 89-352. The facility is located in SW1/4, Section 23, T17N, R63W 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.

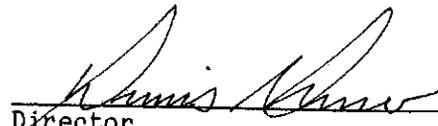
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

August 31, 1989  
Date of Issuance

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

#### CONDITIONS TO PERMIT TO CONSTRUCT #89-352

1. A homeowner is allowed to construct up to one installation a year. All other installations shall be done by a Laramie County licensed installer.
2. All septic tank cleaning shall be done by Laramie County licensed haulers.
3. Notify the City County Health Unit, 1710 Snyder Avenue, Cheyenne, Wyoming 82001, telephone number 638-8545 at least 48 hours before construction is to begin to schedule inspection services.
4. Laramie County requires a Zoning Certificate (aka building permit) to be issued for any structure built, placed, or erected within the zoned area which is within 5 miles of any city limits prior to the construction or placement of a structure. Contact the County Engineer and Zoning Office for this permit. The address is 2507 East Fox Farm Road, telephone 638-4303. This is the county office which issues addresses which are necessary to obtain other services.

LBH/jt

xc: Laramie County Environmental Health

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-353  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Graham Septic Tank and Drainfield

This permit hereby authorizes the applicant:

Phillip and Jane Graham  
5121 Sagebrush  
Cheyenne, WY 82009

to construct, install or modify septic tank and drainfield according to the procedures and conditions of the application number 89-353. The facility is located in S150' of N330' of Tract 242, Sunnyside Add, 6th filing, Sec 26, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two 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, 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

September 12, 1989  
Date of Issuance

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

#### CONDITIONS TO PERMIT TO CONSTRUCT #89-353

1. A homeowner is allowed to construct up to one installation a year. All other installations shall be done by a Laramie County licensed installer.
2. All septic tank cleaning shall be done by Laramie County licensed haulers.
3. Notify the Laramie County Environmental Health, 1710 Snyder Avenue, Cheyenne, Wyoming 82001, telephone number 638-8545 at least 48 hours before construction is to begin to schedule inspection services.
4. Laramie County requires a Zoning Certificate (aka building permit) to be issued for any structure built, placed, or erected within the zoned area which is within 5 miles of any city limits prior to the construction or placement of a structure. Contact the County Engineer and Zoning Office for this permit. The address is 2507 East Fox Farm Road, telephone 638-4303. This is the county office which issues addresses which are necessary to obtain other services.
5. The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The 201 Facilities Plan Final Report: City of Cheyenne, South Cheyenne Water and Sewer District and Laramie County requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned or integrated into the regional system in accordance with the requirements of the Facility Plan.

LBH/nc

cc: Laramie County Environmental Health

R 7

PERMIT TO CONSTRUCT

PERMIT NO. 89-354  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Floy Septic Tank and Drainfield

This permit hereby authorizes the applicant:

Howard R. Floy  
1504 County Road 161  
Pine Bluffs, WY 82082

to construct, install or modify septic tank and drainfield according to the procedures and conditions of the application number 89-354. The facility is located in SE1/4, Section 31, T15N, R60W 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.

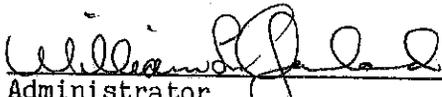
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

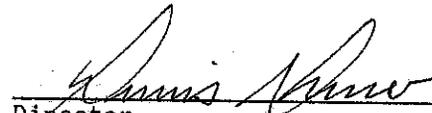
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

August 31, 1989  
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT # 89-354

1. A homeowner is allowed to construct up to one installation a year. All other installations shall be done by a Laramie County licensed installer.
2. All septic tank cleaning shall be done by Laramie County licensed haulers.
3. Notify the City County Health Unit, 1710 Snyder Avenue, Cheyenne, Wyoming 82001, telephone number 638-8545 at least 48 hours before construction is to begin to schedule inspection services.
4. Laramie County requires a Zoning Certificate (aka building permit) to be issued for any structure built, placed, or erected within the zoned area which is within 5 miles of any city limits prior to the construction or placement of a structure. Contact the County Engineer and Zoning Office for this permit. The address is 2507 East Fox Farm Road, telephone 638-4303. This is the county office which issues addresses which are necessary to obtain other services.

LBH/jt

xc: Laramie County Environmental Health

PERMIT TO CONSTRUCT

PERMIT NO. 89-355  
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

Florence Vossler septic tank

This permit hereby authorizes the applicant:

Florence K. Vossler  
4018 New Bedford Drive  
Cheyenne, WY 82009

to construct, install or modify septic tank and drainfield according to the procedures and conditions of the application number 89-355. The facility is located in Tract 4, Parcel 1, Vossler Tracts, SW1/4, Section 14, T14N, R66W 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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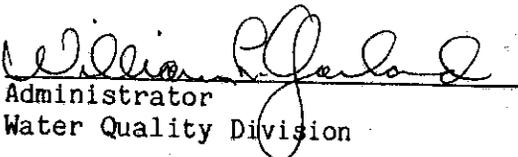
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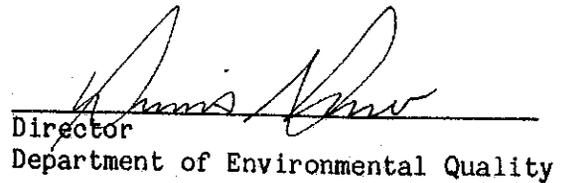
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

August 30, 1989  
\_\_\_\_\_  
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-355

1. A homeowner is allowed to construct up to one installation a year. All other installations shall be done by a Laramie County licensed installer.
2. All septic tank cleaning shall be done by Laramie County licensed haulers.
3. Notify the City County Health Unit, 1710 Snyder Avenue, Cheyenne, Wyoming 82001, telephone number 638-8545 at least 48 hours before construction is to begin to schedule inspection services.
4. Laramie County requires a Zoning Certificate (aka building permit) to be issued for any structure built, placed, or erected within the zoned area which is within 5 miles of any city limits prior to the construction or placement of a structure. Contact the County Engineer and Zoning Office for this permit. The address is 2507 East Fox Farm Road, telephone 638-4303. This is the county office which issues addresses which are necessary to obtain other services.

LBH/mad

cc: Laramie County Environmental Health:

yf

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 89-356RR

Town of Reliance Water Line Replacement  
(Name of Facility)

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

Rock Springs/Green River/Sweetwater Co Joint Powers Water Board

P.O. Box 158

Green River, WY 82935

to construct a water distribution system according to the procedures and conditions of the application No. 89-356RR. The facility is located in Section 2, T19N, R105W; Section 36, 35, T20N, R105W; Section 31, 32, T20N, R104W 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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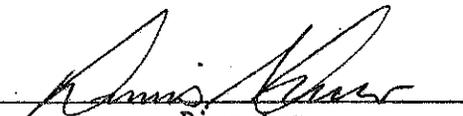
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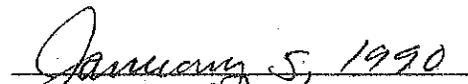
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 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
--	--

  
\_\_\_\_\_  
Date of Issuance

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

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 89-357  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

SEPTIC TANK AND DRAINFIELD

This permit hereby authorizes the applicant:

Ralph Johnston  
P.O. Box 702  
Laramie, Wyoming 82070

to construct, install or modify septic tank and drainfield according to the procedures and conditions of the application number 89-357. The facility is located in Section 17, T15N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two 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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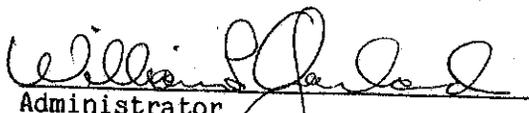
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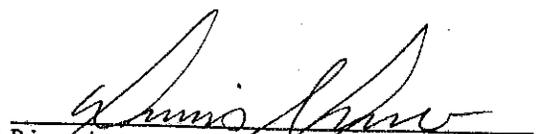
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, 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.

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AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT #89-357

1. At least seven days before construction begins make arrangements with the Albany County Planning Office for inspection.

LBH/jn

cc: Albany County Planning Office  
405 Grand Avenue  
Laramie, WY 82070

89-358		Harmon
Clint Nelson SWW Septic System (Laramie Co.)		
date	action	60-day
8/28/89	UR	10/28/89
8-31-89	RS	
9/27/89	UR	11/27/89
10-4-89	AW - Sent to County	

L.F.

PERMIT TO CONSTRUCT

PERMIT NO. 89-359  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

ALBIN WATER SYSTEM IMPROVEMENTS

This permit hereby authorizes the applicant:

Town of Albin  
P O Box 188  
Albin, WY 82050

to construct, install or modify Water Meters for Distribution System according to the procedures and conditions of the application number 89-359. The facility is located in Township 17N, Range 60W, Sections 20 & 29 in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two 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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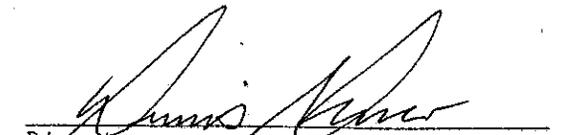
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

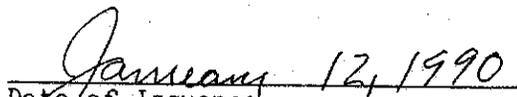
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

  
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-358

1. This permit is being issued for the installation of water meters as shown on pages 8 thru 23 of the plans and specifications. Additional permits will be issued for the distribution system, storage tower and chlorination system.

SCF/jn

cc: Stephen O. Sandvik  
Wells Engineers, Inc.  
570 W. 44th Ave, Suite 100  
Denver, CO 80216

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: WATER SYSTEM IMPROVEMENTS, ALBIN, WYOMING

ENGINEER: WELLS ENGINEERS, INC.

APPLICANT: TOWN OF ALBIN

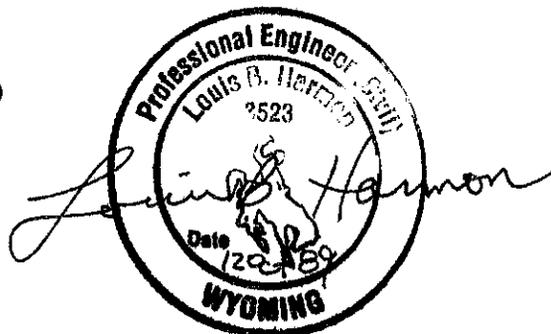
WATER QUALITY DIVISION REFERENCE NUMBER: 89-359

REVIEWING ENGINEER: Louis Harmon

DATE OF REVIEW: October 6, 1989

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:



1. The engineering design report required by Section 6 of Chapter XII of the Wyoming Water Quality Rules and Regulations fails to address several items that have a significant impact on the redesign and construction proposed as part of this project. At a minimum the following issues must be addressed.
  - a. Any water system is only as good and as dependable as the source of supply. The report at a minimum should address this by providing a complete description of all wells including pumping efficiency and well drawdown curves. A complete water analysis for all primary and secondary EPA drinking water standards including radioactivity should be performed for each well individually and included in the report.
  - b. The design is evidently based on accepting the performance of the present distribution system as specified. Inexpensive flow testing of the fire hydrants coupled with operating selected valves can provide extensive data about the flow capacities of the actual system. An inventory of the condition of all fire hydrants and valves would be in order.
  - c. No solid data based on actual measurements is provided on times of well operation to establish a reasonable estimate of consumption. The estimate of 326 gpd per person average winter time use is in fact high and leak testing may well be in order. The estimate for maximum daily consumption during irrigation season with water meters appears to be low at 978 gpd/capita. Other experience with small communities indicates that one gpm per person or 1440 gpd/capita is a reasonable maximum daily consumption rate.
  - d. No mention is made of the condition of the existing water tower which is to be left in the system.

- e. The new water tower will store about a weeks supply of water at winter time consumption rates. Depending on the setting of automatic controls much of the water pumped may go directly to the user without going through the tower. Even the though standpipe is to be insulated, heat balance calculations to predict the extent of freezing for prolonged cold spells could be beneficial.
  - f. Chlorination capability at all wells is required. Wells #2 and #3 require chlorination equipment in addition to Well #4.
2. The following corrections and additions are required to the plans and specifications as presently drawn.
- a. While it is stated that inspection and repair of Well #4 is required, no provisions for this are made in the specifications or bid forms.
  - b. The plans should show the sewer lines to simplify providing required separation between water and sewer lines. The specifications should address the requirements for separation between water and sewer lines and the encasement and reinforcement required if separation can't be maintained.
  - c. Good engineering practice dictates that all elevations on the plans be based on mean sea level. In the absence of an economically accessible bench mark, a local bench mark accurate to within 1 ft can be established from published USGS 7 1/2 minute quadrangle sheets. Such a bench mark should be clearly identified and accessible to the construction contractor.
  - d. The overflow for the water tower is required to come to within 12 to 24 inches of the ground and discharge onto a splash block.
  - e. Backflow and cross flow prevention requirements are not met. Section 11 (vi) of Chapter 12 requires that the chlorinators be protected from backflow to the make-up line and siphonage through the feed line. Section 14 (i)(A) requires that all the new meters being added to the system be equipped with a check valve as a minimum. However, some expansion capability must be provided downstream of the meter check valves to accommodate the home hot water heaters. The preferred solution is to have the homeowners install a small expansion tank at the inlet to their hot water heaters.

cc: Mike Hackett, DEQ/WQD, CMAG

Michael Ormsby, State Director  
Farmers Home Administration  
P.O. Box 820  
Casper, WY 82602

State of Wyoming Farm Loan Board

Robert Anderson, Town of Albin Mayor  
P.O. Box 188  
Albin, WY 82050

PERMIT TO CONSTRUCT

R.F.

PERMIT NO. 89-360  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

503 North Beverly

This permit hereby authorizes the applicant:

PETCO, Inc. Interstate  
Box 1627  
Commerce City, CO 80037

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-360. The facility is located in S2, T33N, R79W, NWSW1/4 in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two 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.

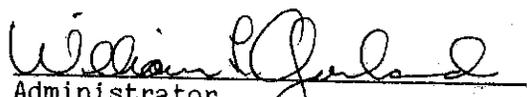
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

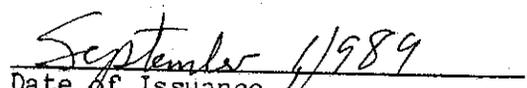
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

  
\_\_\_\_\_  
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-360

1. 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 89-360. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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. 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. 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.
5. 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. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be

Conditions to Permit 89-360 (continued)

implemented when the wells are constructed, installed and developed:

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. 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;
  - d. 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;
  - e. 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;
  - f. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - g. A protective casing and locking cap is strongly recommended;
  - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. 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. Within 90 days of the 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. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;
  - f. Sample collection procedures;

Conditions to Permit 89-360 (continued)

- g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:

BETX, TPH

The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

11. 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.

DM/nc

cc: Armand Morris & Assoc., Box 40170, Casper, WY 82601  
Jake Strohman

PERMIT TO CONSTRUCT

New

Permit No. 89-361R

Renewal

Modified

Wal-Mart Sewer & Water Extension  
(Name of Facility)

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

City of Riverton

P.O. Box 1700

Riverton, WY 82501

to construct a connection to sewer collection system and an extension of water distribution system according to the procedures and conditions of the application No. 89-361R. The facility is located in SW 1/4 SW 1/4 Section 23, T1N R4E Wind River Meridian in the County of Fremont, in the State of Wyoming.

This permit shall be effective for a period of two (2) years (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 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.

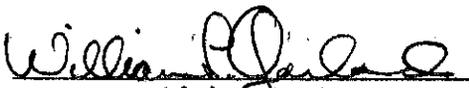
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

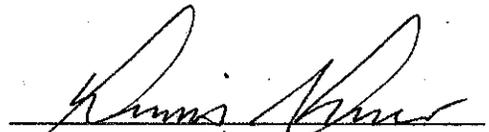
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

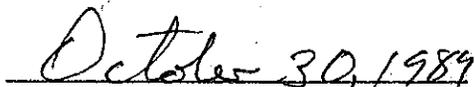
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

  
\_\_\_\_\_  
Date of Issuance

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

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-362

- New
- Renewal
- Modified

Fire Hydrant Lines "A" and "B"

This permit hereby authorizes the applicant:

Western Oil Tool Manufacturing Co.  
P.O. Box 260  
Casper, WY 82602

to construct, install or modify water distribution lines according to the procedures and conditions of the application number 89-362. The facility is located in Section 7, T33N, R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two 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.

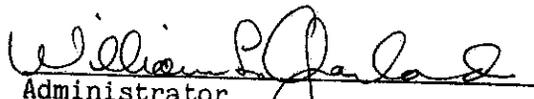
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

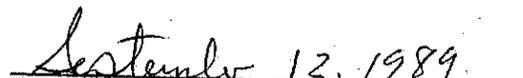
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

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

LBH/nc

cc: Worthington, Lenhart & Carpenter Inc, 632 S. David, Casper, WY 82601  
Town of Mills

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-363  
Modification to  
80-431RR

X New  
Renewal  
Modified

Septic Tank and Drainfield

This permit hereby authorizes the applicant:

Western Area Power Administration  
P.O. Box 589  
Mills, WY 82644

to construct, install or modify addition of building to septic tank and drainfield according to the procedures and conditions of the application number 89-363. The facility is located in 5600 West Poison Spider Road, Section 11, T33N, R80W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two 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.

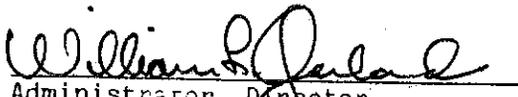
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

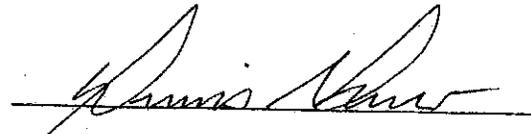
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

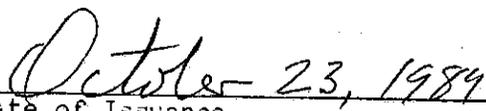
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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 Director  
Water Quality Division

  
\_\_\_\_\_  
Department of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

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

LBH/nc

cc: Mike Jennings, Natrona County Health Department

RF

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 89-364R

West Table Boat Launch Area  
(Name of Facility)

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

Bridger-Teton National Forest

P.O. Box 1689

Jackson, WY 83001

to construct six unit comfort station with septic holding tank according to the procedures and conditions of the application No. 89-364R. The facility is located in SE 1/4, Section 1, T37N R117W in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 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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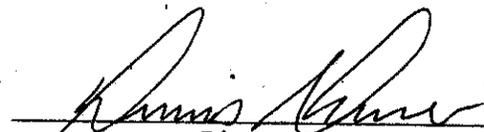
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 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.

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AUTHORIZED BY:

  
Administrator  
Water Quality Division

  
Director  
Dept. of Environmental Quality

  
Date of Issuance

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

RF

PERMIT TO CONSTRUCT

New

Permit No. 89-365R

Renewal

Modified

CWC Field Station WWTP  
(Name of Facility)

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

Central Wyoming College

2660 Peck Drive

Riverton, WY 82501

to construct a septic tank, lift station, and leachfield according to the procedures and conditions of the application No. 89-365R. The facility is located in Sec. 5, T32N, R100W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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.

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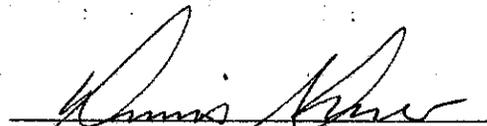
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AUTHORIZED BY:

  
Admin/strator  
Water Quality Division

  
Director  
Dept. of Environmental Quality

  
Date of Issuance

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



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR

RECEIVED

MAR 21 1991



WATER QUALITY DIVISION  
WYOMING

## Department of Environmental Quality

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7762	Water Quality Division (307) 777-7781
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March 20, 1991

Mr. Tom Dixon  
Marathon Pipe Line Co.  
P. O. Box 3128  
Houston, TX 77253

RE: Marathon Cody Station Land Application  
WQD Ref. No. 89-366

Dear Mr. Dixon:

Your application is considered inactive and is being returned in accordance with your March 11, 1991, letter which states that you do 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 per day of violation. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules and Regulations, must be followed.

Sincerely,

William L. Garland  
Administrator  
Water Quality Division

WLG/jyi

cc: ✓ IPS, DEQ/WQD, Cheyenne

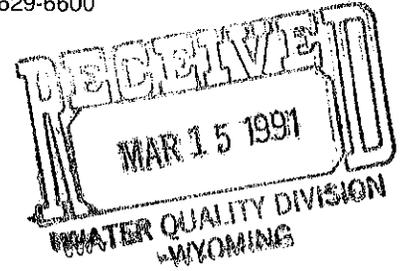
Western Division



**Marathon  
Pipe Line Company**

P.O. Box 3128  
Houston, Texas 77253  
Telephone 713/629-6600

March 11, 1991



Department of Environmental Quality  
210 Lincoln Street  
Lander, Wyoming 82520

Attn: Mr. Steve Gerber

Dear Mr. Gerber:

As per our conversation on Monday, March 11, 1991, the project at Marathon's Cody Station (AEF 89-366) was cancelled. Land Application of Tank bottoms was no longer necessary so the application was not and will not be resubmitted.

Please call if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Tom Dixon', written over a horizontal line.

Tom Dixon  
Engineer

THD:srv

A:530



THE STATE

OF WYOMING

MIKE SULLIVAN  
GOVERNOR



# Department of Environmental Quality

210 Lincoln Street • Lander, Wyoming 82520

Air Quality Division  
(307) 332-3144

Land Quality Division  
(307) 332-3047

Solid Waste Management Program  
(307) 332-3144

Water Quality Division  
(307) 332-3144

CERTIFIED P 584 340 664

February 6, 1991

Mr. Tom Dixon  
Marathon Pipe Line Co.  
P.O. Box 3128  
Houston, TX 77253

Dear Mr. Dixon:

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: Marathon Cody Station Land Application

DEQ/WQD Reference Number: 89-366

Engineering Consultant: N/A

DEQ/WQD Review Engineer: Steve Gerber

Date of DEQ/WQD Review: September 7, 1989

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

*THD*  
*3-12-91*

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.

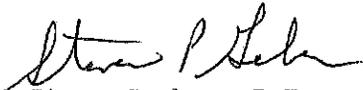
Other Remarks: \_\_\_\_\_

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

Mr. Tom Dixon  
Marathon Pipe Line Co.  
February 6, 1991  
Page 2

Statutes, and is punishable with a fine not to exceed \$10,000 for each day of violation. 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,



Steve Gerber, P.E.  
Northwest District Supervisor

SG/anc

cc: IPS, DEQ/WQD, Cheyenne

MARATHON PIPE LINE CO.  
Engineering Dept.  
Houston

FEB 11 1991



THE STATE

OF WYOMING

MIKE SULLIVAN  
GOVERNOR

RECEIVED

FEB 7 1991



# Department of Environmental Quality

210 Lincoln Street • Lander, Wyoming 82520

Air Quality Division  
(307) 332-3144

Land Quality Division  
(307) 332-3047

Solid Waste Management Program  
(307) 332-3144

Water Quality Division  
(307) 332-3144

CERTIFIED P 584 340 664

February 6, 1991

Mr. Tom Dixon  
Marathon Pipe Line Co.  
P.O. Box 3128  
Houston, TX 77253

Dear Mr. Dixon:

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: Marathon Cody Station Land Application

DEQ/WQD Reference Number: 89-366

Engineering Consultant: N/A

DEQ/WQD Review Engineer: Steve Gerber

Date of DEQ/WQD Review: September 7, 1989

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: \_\_\_\_\_

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

Mr. Tom Dixon  
Marathon Pipe Line Co.  
February 6, 1991  
Page 2

Statutes, and is punishable with a fine not to exceed \$10,000 for each day of violation. 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,



Steve Gerber, P.E.  
Northwest District Supervisor

SG/anc

cc: IPS, DEQ/WQD, Cheyenne

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 89-367  
Ref. 89-103R

Tram Tower Townhouses  
(Name of Facility)

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

Paul McCollister

P.O. Box 290

Teton Village, WY 83025

to construct an eight inch sewer and eight and four inch water main to serve a 21 unit condominium according to the procedures and conditions of the application No. 89-367. The facility is located in Section 24, T42N, R117W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 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.

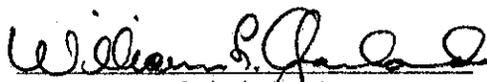
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

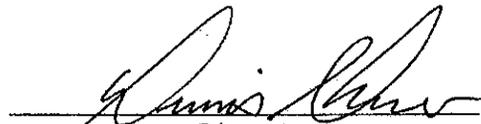
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

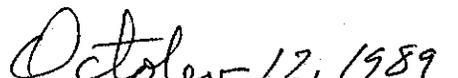
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

  
Date of Issuance

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

R7

PERMIT TO CONSTRUCT

New

Permit No. 89-368R

Renewal

Modified

Coca Cola Warehouse WWTF

(Name of Facility)

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

Big Horn Wholesale c/o Silas Catheart

Box 1808

Cody, WY 82414

to construct, a leachfield facility according to the procedures and conditions of the application No. 89-368R. The facility is located in Sec 22, T 1N, R 4E in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 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.

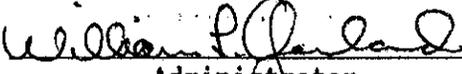
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

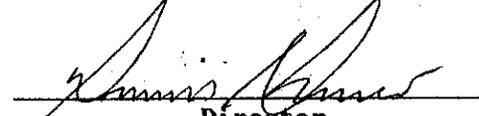
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

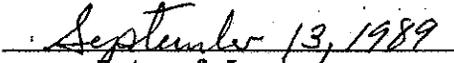
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

  
Date of Issuance

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

Condition to Permit No. 89-368R

1. Although it is not economically feasible to connect the city collection system at this time, connection to city sewer will be required when city sewers are extended to within 200 feet of the property line. This connection must be done within 30 days of available service.

RF

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 89-369

Willow Creek Operations Center SWTF  
 (Name of Facility)

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

Atlantic City Grazing Association

140 Tweed Lane

Lander, WY 82520

to construct a septic tank and leachfield according to the procedures and conditions of the application No. 89-369. The facility is located in Sec. 32, T29N, R99W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 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.

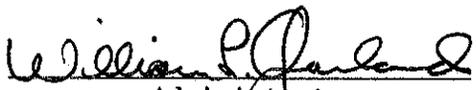
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

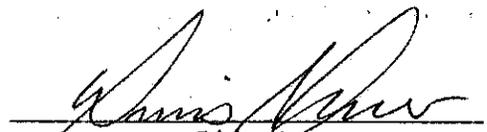
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

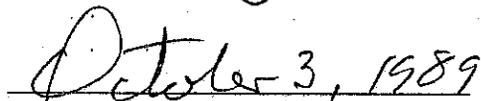
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

  
Date of Issuance

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

LAND APPLICATION PERMIT

Permit No. 89-370  
(Ref. 86-278)  
SEE SPECIAL CONDITIONS

SALT CREEK SOUTH UNIT FIELD ROAD APPLICATION  
(Name of Facility)

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

Pacific Enterprises Oil Co. (USA)

P. O. Box 2500

Casper, Wyoming 82801

To land apply waste oil sludge to lease roads for dust control. The application site is located in various areas (see attached list), in the County of Natrona, in the State of Wyoming. This permit shall be effective until November 1, 1989.

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 land 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.

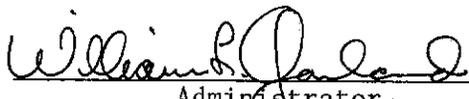
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the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

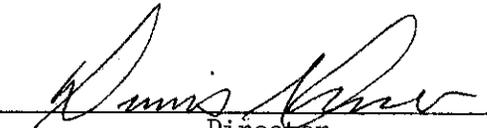
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with provisions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

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

September 25, 1989  
Date of Issuance

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

LAND APPLICATION SPECIAL CONDITIONS

1. Waste oil shall be applied at a rate which will not produce runoff or ponding.
2. The application site slope shall not exceed eight percent for vehicular application.
3. 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. The permittee shall contact the Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming, telephone number 307/672-6457, prior to initiation of work. The District Engineer shall be notified at least 48 hours in advance of discharges and must be informed of how much waste oil will be applied (number of truck loads), the specific site of application (to the nearest 1/4 section) and time of application.
5. Waste oil and sludges applied to a road shall be mechanically incorporated into the road bed as it is applied.
6. This permit is in effect until November 1, 1989. Any application of wastes beyond that date shall be repermited.
7. This permit is contingent on the applicant receiving approval from the appropriate Federal agency should application occur on Federal lease

roads, or should produced water from Federal leases be used for application.

GB:jj

xc: Leo Coleman  
BLM - Platte River Resource Area  
P. O. Drawer 2420  
Mills, Wyoming 82644

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 89-371R

CORDERO MINE SOUTH PIT RESERVOIR  
(Name of Facility)

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

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82717-1449

to construct, install or modify a sedimentation facility according to the procedures and conditions of the application No. 89-371R. The facility is located in Section 26, T.47N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (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.

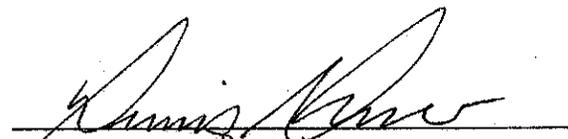
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

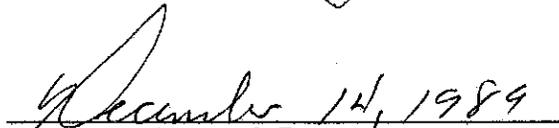
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

  
\_\_\_\_\_  
Date of Issuance

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

BJ:jj

14

PERMIT TO CONSTRUCT

PERMIT NO. 89-372  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Car Care, Inc.

This permit hereby authorizes the applicant:

Bob Day  
701 West Yellowstone  
Casper, WY 82601

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-372. The facility is located in Section 9, T33N, R79W, NW $\frac{1}{4}$  in the county of Natrona, 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: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

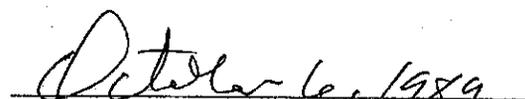
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

  
\_\_\_\_\_  
Date of Issuance

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

#### Conditions for Monitoring Wells

1. 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 89-372. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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. 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. 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.
5. 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.

Conditions to Permit 89-372 (continued)

6. 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. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. 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;
  - d. 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;
  - e. 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;
  - f. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - g. A protective casing and locking cap is strongly recommended;
  - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. 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. Within 90 days of the 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. Final location, construction details and logs of all monitoring wells;

Conditions to Permit 89-372 (continued)

- d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;
  - f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
  10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:

BETX, TPH

If free product is found the above analysis will not be required, but the thickness of product shall be measured.

The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

11. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
12. 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.

DM/jt

xc: Jake Strohman

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Car Care, Inc.

ENGINEER: N/A

APPLICANT: Bob Day  
701 W. Yellowstone  
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 89-372

REVIEWING ENGINEER: Dave Montague <sup>DM</sup> Groundwater Engineering Specialist

DATE OF REVIEW: September 12, 1989

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. In order to determine the groundwater gradient at this site, at least three monitoring wells must be installed. The present permit application shows only two monitoring wells will be installed.
2. Provide information showing how the wells will be developed after construction. Also show how they will be purged before water samples are collected, and show how the water samples will be collected, then transported to a laboratory for analysis. Indicate that if free product is encountered, whether an analysis will be made to determine the identification of the product. Water samples without free produce shall be analyzed for BTEX and TPH.

/jn

R7

PERMIT TO CONSTRUCT

PERMIT NO. 89-373  
SEE SPECIAL CONDITIONS

New  
 Renewal  
 Modified

LINCH CONOCO

This permit hereby authorizes the applicant:

Stafford Well Service, Inc.  
Box 147  
Linch, Wyoming 82640

to construct, install or modify test holes for subsurface contamination assessment according to the procedures and conditions of the application number 89-373. The facility is located in S14, T42N, R78W, NESW $\frac{1}{4}$  in the county of Johnson, in the State of Wyoming. This permit shall be effective for a period of two (2) (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: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, 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

  
Date of Issuance

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

#### Special Conditions for Permit to Construct 89-373

1. 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.
2. DEQ/WQD personnel shall be on-site while the site assessment is being conducted.
3. Bentonite or bentonite grout shall be placed in the test hole(s) from the bottom of the contaminated zone to the bottom of the hole.

DM/jn

PERMIT TO CONSTRUCT

New

Permit No. 89-374

Renewal

Modified

Willowbrook Water Distribution and Sewer Collection  
(Name of Facility)

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

Willowbrook Association LTD Partnership

P.O. Box 25200

Jackson, WY 83001

to construct 4800 feet of water main and 3700 feet of sewer main for 28 lots according to the procedures and conditions of the application No. 89-374. The facility is located in Section 14, T41N, R117W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 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.

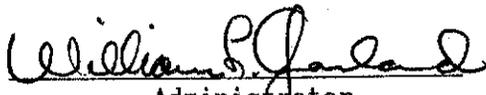
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

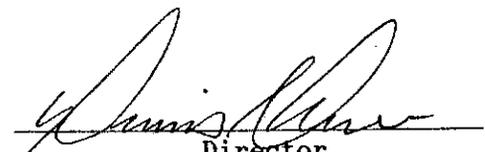
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

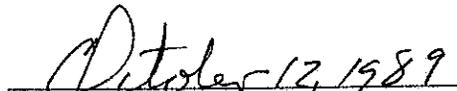
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

  
Date of Issuance

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



THE STATE

OF WYOMING

MIKE SULLIVAN  
GOVERNOR

RECEIVED

DEC 06 1989



WATER QUALITY DIVISION

# Department of Environmental Quality

210 Lincoln Street • Lander, Wyoming 82520

Air Quality Division  
(307) 332-3144

Land Quality Division  
(307) 332-3047

Solid Waste Management Program  
(307) 332-3144

Water Quality Division  
(307) 332-3144

September 6, 1989

Lindell Grover  
Conoco, Inc.  
6855 So. Havana Street  
Englewood, CO 80112

RE: Pioneer Pipeline, Bitter Creek Spill,  
Monitoring Wells (Permit Application 89-375)

Dear Mr. Grover:

The plans and information for the above referenced project have been reviewed and appear to comply with minimum design standards as defined by the State of Wyoming. A "Permit to Construct" cannot be issued owing to the fact that the monitoring wells have already been constructed. However, please retain this letter as verification that the wells have been accepted by the DEQ/Water Quality Division.

If you have any questions or comments, feel free to contact me.

Sincerely,

Sterling Roberts  
Water Quality Engineer

SR/jyi

RF

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

- ( ) New
- (X) Modified

Permit Number: 89-376  
Ref. GPC 84-598  
Ref. GPC 84-018  
UIC CLASS 5 X 26

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),

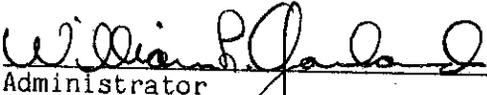
Umetco Mineral Corporation  
Pat Lyons, General Superintendent  
P. O. Box 151  
Riverton, WY 82501

is authorized to operate  
the A-9 Collection Drip System

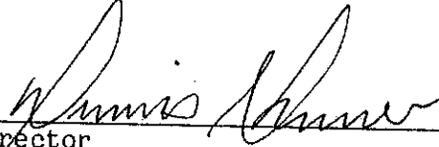
which includes 4 acid drip wells identified in the permit application as DC1, DC2, DD1 and DD2. Acid wells DC1 and DC2 are located 15 feet south and west, respectively, of collection well GW3C. Acid wells DD1 and DD2 are located 10 feet northeast and southwest of collection well GW3D. All wells are located in the SE $\frac{1}{4}$  SW $\frac{1}{4}$  Section 15, T33N, R89W in Natrona County.

according to procedures and conditions of the application 84-18R and as modified by more recent submittals and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

  
\_\_\_\_\_  
Administrator  
Water Quality Division  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002  
Phone: (307) 777-7781

9-22-89  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Director  
Department of Environmental Quality  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002

9-25-89  
\_\_\_\_\_  
Date

A. Discharge (Injection) Zone and Area of Review

The discharge zone is located within the Upper Wind River Formation, and is confined to 4 discharge wells designated on page 1 of the permit application, and to the 40 foot interval of perforated casing located approximately 105 feet to 145 feet below the land surface. The area of review extends throughout that portion of the formation which may be affected by the discharge, and at a minimum within a radius of 1/4 mile of each of the acid drip wells.

B. Groundwater Classification

The ambient quality of groundwater in the Wind River Formation is suitable for livestock purposes although radium concentrations may range from 10 pCi/l to 100 pCi/l. In the general vicinity, groundwater from the Wind River formation is used for livestock purposes. Therefore, it is classified as Class III, suitable for livestock use.

C. Authorized Operations

The permittee is authorized to drip concentrated sulfuric acid into 4 proposed drip wells located within 10-15 feet of 2 collection wells as specified in the permit application, as a miscellaneous discharge to underground water. The application indicates that a maximum total drip rate of 10 gal/day in each drip well (20 gallons per day per collection well, or 40 gal/day for 2 collection wells) will be sufficient to maintain the pH of the collection water at 3.5 or less. The low pH is required to prevent the formation of an aluminum sulfate precipitate in the collection wells. The proposed drip wells are located within the cone of depression formed by the collection wells. The addition of the acid is expected to increase the pumping rate of the collection well, and should prevent contaminated groundwater in the vicinity from flowing further down gradient.

A uniform drip rate will be maintained with an AE micrometering valve which will feed each set of drip wells from a 100 gallon feed tank. The micrometering valves will be set to zero flow if the collection well pumps are found not to be operational. Each AE micrometering valve will be checked each shift to determine whether the valve is operating.

Sulfuric acid will be manually transferred from a main storage tank to the feed tanks about once a week. The feed tank volume will be read every day to monitor actual acid usage.

The permittee shall not exceed a maximum acid drip rate of 10 gallons per day in each drip well without prior written approval of the Administrator.

The permittee shall notify the Administrator of the Water Quality Division, or his representative, 48 hours before injection is to start. Permittee shall provide written notification within 7 days after injection commences of the date and time of commencement.

Additional wells may be drilled and operation may be modified upon written request by Umetco Minerals Corporation and after written approval by the Administrator. Such changes, upon approval, shall become part of this permit by reference.

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 this 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:

The permittee shall keep all intake and drip tubing, tanks, and pumps in working order.

Periodic operating records for the acid drip and collection wells will be kept by the permittee. Included in these records will be records of the average daily acid drip rate and the maximum daily acid drip rate, and the discharge rates in the corresponding collection wells. Pump down times in the collection wells should be documented and the corresponding shut down of the drip system verified.

Annual reports will be submitted to the Water Quality Division. In addition to the operating records and the documentation required in Section K of the permit, the reports will include the water quality data that has been collected in wells GW7, GW8, PW3A and PW4 as part of UCC's existing monitoring program during that year. Water level elevations will be monitored in wells GW7, GW8, PW3A, PW4, RW1 and RW2. Potentiometric data will be submitted in tabular form and as a map based on water levels measured in the specified wells.

At a minimum, wells GW7, GW8, PW3 and PW4 shall be sampled and analyzed semi-annually. These four wells shall be analyzed for the following list of parameters as long as this system operates:

Arsenic, Aluminum, Iron, Nickel, Sulfate, TDS, pH, Natural Uranium (any analysis technique), Radium 226, Thorium 230, Lead 210

Other agencies are requiring additional parameters to be analyzed. All analyses run on these four wells shall be reported in each annual report.

Each annual report shall include graphs of each of the above listed parameters for the previous five years.

G. Requirements for Monitoring the Discharge

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

These requirements are not applicable.

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.

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 abandonment 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, and
  - 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 anniversary date of the permit.
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.

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 with 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 requirement for public notice is not applicable.

K. Mechanical Integrity

Each discharge well and associated discharge facilities is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

Visual inspection to verify that the wells have been completed according to the specifications illustrated in figure 9, page 16 of the permit application. The drip wells will be drilled with a 5-1/8 inch drill bit. The lower 40 feet of each well will be completed with 2 inch Schedule 40 PVC perforated casing and capped at the bottom. The drill hole will be washed with fresh water before installation of the well casing. A gravel pack will be placed in the annulus of the well adjacent to the entire perforated interval. A bentonite plug will be placed on top of the gravel pack to seal the well annulus above the perforations. The remainder of the well annulus will be backfilled with drill cuttings to an elevation of 10 feet below the land surface. A cement seal will be placed in the well annulus to a depth of at least 10 feet below the ground surface. A PVC cap with a drill hole for the 1/4 inch drip tubing will be secured with a screw to the top of the casing.

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical integrity has been restored and permission to continue the discharge has been obtained from the administrator.

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.

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:

Plugging and abandonment procedures will be implemented upon the discontinuance of each particular well or upon the termination of the useful operation of a well.

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 reasonable 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 form approved by the director, to close, plug and abandon the discharge operation in a manner prescribed by the director.

Not applicable.

O. Special Measures the Director Finds Necessary:

In the event of unauthorized movement of sulfuric acid, the permittee will take immediate corrective action.

The permitted activity must commence within one year of the issuance date of this permit or the permit will be invalid.

P. Special Permit Conditions:

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

Mechanical integrity -- operations terminate immediately if mechanical integrity of well or system fails and/or a leak or unauthorized fluid movement occurs.

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 or 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. A permit holder cannot transfer his permit without approval of the department director.

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/jn

89-377

Harmon

Roland J. Devoe, Jr.

date

action

60-day

9/5/89

UR

11/5/89

transferred to Laramie Co. ?

noted 4/23/91

89-378

App'l Withdrawn

Plans returned to  
applicant  
to take to

Laconia Co.

9/21/89

/me

per AD



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	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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November 20, 1989

G.G. Nicolaysen  
P. O. Drawer 500  
Casper, Wyoming 82602

Re: Cole Creek Well F41-27G  
Permit UIC 89-379 Class 1  
Natrona County, Wyoming

Dear Mr. Nicolaysen:

Enclosed please find your new permit 89-379 which will replace your existing permit 88-311. Please note that permit 88-311 is now void. Special Conditions in section "O" of the new permit cancels entirely permit 88-311.

You must comply with your existing class II permit for all wells in the Coal Creek Unit except F41-27G. You will have to ask Janie Nelson delete F41-27G from that class II permit.

I will expect that you will now make every effort to bring this system on line. Although I have not required monthly reporting in the permit, I would appreciate a very short monthly summary showing your progress until this well is operational.

Sincerely,

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

RL/mad

cc: Jake Strohman, DEQ/WQD  
Greg Oberly, EPA  
Janie Nelson, OGCC  
Richard Stockdale, SEO

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

( ) New

Permit Number:

(X) Modified

UIC 89-379

REF. 88-311

UIC CLASS I

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),

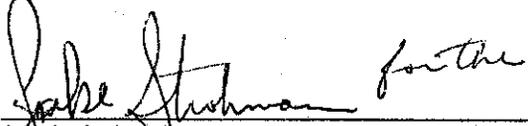
G.G. Nicolaysen, Jr., Operator  
Cole Creek Unit  
P. O. Drawer 500  
Casper, Wyoming 82602

is authorized to operate

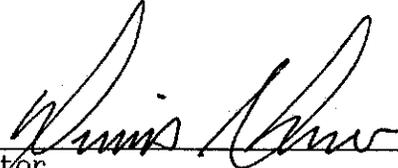
Injection Well Cole Creek F41-27G

according to procedures and conditions of the application 88-311 and modifications submitted September 5, 1989 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

  
\_\_\_\_\_  
Administrator  
Water Quality Division  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002  
Phone: (307) 777-7781

11-27-89  
Date

  
\_\_\_\_\_  
Director  
Department of Environmental Quality  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002

November 28, 1989  
Date

A. Discharge (Injection) Zone and Area of Review

The permitted injection zone under this permit includes the entire Dakota Formation located in T 35 N, R 77 W, Sixth P.M., Sections 22 S1/2, 23 S1/2, 26 and 27. This permit covers one well in an area permit. This well and the present open interval is shown:

WELL NUMBER	PRESENT OPEN INTERVAL
F41-27G	8074-8099

This well may be deepened to include the entire Dakota Formation at the operator's discretion. Water Quality Division shall be informed before the well is worked over.

B. Groundwater Classification

The waters of the Dakota Formation within the area of review are classified as class VI (industrial use only) on the basis of the TDS which is greater than 10,000. This unit also contains petroleum hydrocarbons and has been classed in the past as class V (Hydrocarbon Commercial). This water can be assumed to be saturated in Benzene, Toluene, Ethyl Benzene, and Xylenes by virtue of its intimate association with crude oil.

The waters of the Dakota Formation have exhibited a gradual freshening caused by injection of fresh waters in the past. This freshening should not affect the groundwater classification since this water remains saturated with organic species.

C. Authorized Operations

The permittee is authorized to conduct commercial disposal operations at the Cole Creek Unit through the following well: F41-27G. This well shall be operated at a surface injection pressure of no more than 900 psi as measured by a continuous recording pressure meter located on the injection line at the well head. This pressure has been limited because of the age of the well to be used. The calculated parting pressure is 1506 psig.

WELL NUMBER	OPEN INTERVAL	BOTTOM HOLE PRESSURE	STATIC WATER PRESSURE	FRICTION LOSS AT 3 BPM	CALCULATED SURFACE PARTING PRESSURE
F41-27G	8074-8099	4441	3499	564	1506

Permittee shall conduct a step injection rate test on this well to determine the actual parting pressure. After this test is completed, the injection pressure shall be limited to 10% less than the parting pressure on the surface, or 900 psig, whichever is less.

At the present time, this system is operating as a class II injection system. Volumes being injected per month are shown on the application as reaching a maximum of 5 barrels per minute in well F41-27G with an average of .7 barrels per minute. The maximum injected volume shall not exceed 200,000 barrels per month from all sources. After the step injection test is run, this permit will be limited to the volume which can be injected at 10% less than the parting pressure expressed in barrels per day.

The permittee shall install, within 90 days of the issuance of this permit, a continuous recording device to record pressure of injection and volume injected on the well; and a pressure recording device or high-low pressure kill switch on the annulus between the casing and the tubing on the well. If a high-low pressure kill switch is used, the permittee shall record manually the annulus pressure on a daily basis.

The permittee shall apply a pressure to the annulus of the well covered by this permit of approximately 400 psi and hold this pressure continuously. It is recognized that the annulus pressure will vary somewhat during normal operation. Should the annulus of the well ever lose pressure, or if any annulus ever reaches the same pressure as the injection pressure, the well shall be shut in and this fact reported to Water Quality Division in writing within 7 days of the date when this is first discovered.

The permittee is authorized to accept the following types of waste on a commercial basis for injection into this system:

1. Oilfield produced waters (SIC 13) from any formation within the Cole Creek unitized area as shown on the application. The Cole Creek unit includes the following named lands:

T35N, R77W, 6th P.M.  
=====

Section 15:	W1/2
Section 16:	All
Section 17:	All
Section 20:	All
Section 21:	All
Section 22:	All
Section 23:	S1/2
Section 24:	SW1/4
Section 25:	W1/2
Section 26:	All
Section 27:	All
Section 28:	All
Section 29:	NE1/4

These waters may be injected in whatever quantity the permittee feels are necessary up to the total permit limits on injected volume. No analyses are required of waters within this unit under this permit, but volumes shall be accounted for.

2. Groundwaters from the Parkman Formation at a TDS of approximately 1,500 may be injected from any source well within the Cole Creek Unitized area. Before any new source well may be utilized for this purpose, an approved groundwater appropriation must be obtained from the Wyoming State Engineer's office. No analyses are required for Parkman waters.
3. Oilfield produced waters (SIC 13) from any field and any formation may be injected in any quantity up to the total permit limit. Oilfield produced waters from outside the Cole Creek Unit shall be analyzed for TDS and major ions prior to injection. The permittee shall report these analyses with the first quarterly report following their injection.
4. Nothing shall limit the operator from doing controlled acidizing jobs as may be required from time to time.

If at any time, the maximum authorized pressure or rate is exceeded, permittee shall report this fact to the Administrator or his representative orally within 24 hours of knowledge of the fact. A written submission shall be provided within 5 days of the time that the permittee becomes aware of the circumstances.

IN NO CASE SHALL FLUIDS MEETING THE DEFINITION OF HAZARDOUS WASTE AS DEFINED BY THE EPA IN 40 CFR 261.20 THROUGH 261.33 BE INJECTED UNLESS THEY HAE BEEN EXCLUDED UNDER 40 CFR 260.20 AND 40 CFR 260.22. The above definition hazardous waste shall be the current references at the time the disposal is made. The above restriction on the disposal of hazardous waste supercedes all other provisions of this permit, notwithstanding the source of the material, the location where it was produced, or the reason it is considered hazardous.

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 this 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:

The injection zone (Dakota Formation) is an oil producing formation overlain by the Skull Creek Shale, the Muddy Formation, the Mowry Shale, and the Frontier Formation. Together these formations form a thick impermeable layer. Shales within this confining interval are known to be of very low permeability as is confirmed by the initial accumulation of hydrocarbons in the Dakota. Sand units within this confining interval are also oil bearing, and will provide for dissipation of pressures in the unlikely event that leakage through the shales should occur. The cover separating the injection zone from the deepest source of usable water is 5100 feet. The Parkman Formation at 2900 feet contains waters of 1200 mg/l TDS. The deepest source of potable water is 200 feet.

The permittee shall monitor a windmill in section 26 yearly. This well shall be analyzed during the fourth quarter of each calendar year for TDS, Chloride and Sulfate. The results of these analysis shall be reported with the quarterly report for the quarter in which they are sampled.

The permittee has shown 10 wells within the Area of Review that have not been plugged and abandoned. Of these, one is the injection well covered by this permit, four are active oil wells, two are class II injection wells and three have been temporarily abandoned. The permittee shall monitor the three temporarily abandoned wells, F14-22P, F21-26G, and 41X-26G on a monthly basis. These wells shall have a valve or blind flange set at the surface with provision made to monitor casing pressure. Should pressure develop in any of these wells, the operator shall report this fact to Water Quality Division within 15 days in writing. The permittee shall immediately make plans to place the well back in production or set a cement plug across the top of the Dakota.

G. Requirements for Monitoring the Discharge

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

Injection pressure and volume, as well as annulus pressure shall be monitored continuously. The well shall have a recording chart for the injection pressure at the wellhead and a recording flow meter on the injection volume. Flow meters shall be either shedding vortex type or differential pressure type. The well shall be equipped with both a high-low pressure kill switch or a continuous chart recorder hooked to the casing/tubing annulus pressure.

A quarterly report is required to be submitted within 30 days of the end of each calendar quarter. This report shall contain:

1. The maximum and minimum daily injection pressure (not an average pressure but an instantaneous pressure) and the maximum and minimum daily injection volume for each month within the quarter, and the dates that these maximums and minimums were reached. The accumulated total volume of water injected for each month and the accumulated total volume injected to date.
2. The maximum and minimum daily annulus pressure and a detailed operating log for those particular days of operation.
3. A typical analysis of each new source of oil-field produced water from outside the Cole Creek Unit. These analysis shall include TDS, pH, and major ions. A more detailed analysis may be required by the Water Quality Division if circumstances warrant such actions.
4. Total volumes of formation produced waters from within the Cole Creek Unit, any produced waters from outside the unit, and any fresh water injected is required. A list of leases outside the Cole Creek unit that contributed produced waters is also required.

5. Any non-compliance, MIT, or significant event during the quarter. If quarterly reports should show a record of being submitted late, the Administrator may substitute more stringent monthly reporting requirements.
6. The average injection pressure for each month calculated by averaging the maximum pressures for each day.
7. The annual report required under section I-11 of this permit shall consist of the fourth quarterly report along with a summary of the year's operation. The annual report shall include totals on all volumes injected for the entire year.

#### 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.

#### 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 abandonment 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, and
  - 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 anniversary date of the permit.
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.

#### 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 with 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.

K. Mechanical Integrity

Each discharge well and associated discharge facility is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

At a minimum of once every five years and more frequently if required by the Department of Environmental Quality, Water Quality Division, the permittee shall demonstrate the continued sound and unimpaired condition of the all components of each injection well by mechanical integrity testing. An injection well has mechanical integrity if there is no significant leak in the casing, tubing and packer; and there is no significant movement of injected fluids through vertical channels adjacent to the well bore. The absence of leaks will be determined by holding 900 psi on the annulus for 15 minutes.

At a minimum of once every five years and more frequently if required by the administrator, the permittee shall prove the absence of fluid movement through vertical channels. The absence of fluid movement through vertical channels will be determined by an injection well profile (radioactive tracer log), or a temperature log, or other acceptable method.

Within six months of the issue date of this permit, the permittee shall demonstrate mechanical integrity of the well covered by this permit by running cement bond logs and conducting a pressure test of the casing/tubing annulus to 900 psi for 15 minutes. The permittee shall also demonstrate the fluid tight condition of all surface facilities by closing the valves on the well and pressure testing all injection lines to 900 psi for 15 minutes.

The casing/tubing annulus shall be filled with water mixed with a corrosion inhibitor. The permittee shall submit, along with his first quarterly report a description of the corrosion inhibitor used. Records of any fluids added to the annulus must be kept and submitted along with the quarterly report. The casing/ tubing annulus shall be pressurized to 400 psi and this pressure held permanently.

Nothing in this permit constitutes an endorsement of the construction or design of the facility described herein. This permit indicates only that the 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 the activities allowed under this permit. The permittee understands that he is solely responsible to any third party for any liability arising from the construction and operation of the facility described herein. By issuance of this permit, the state does not in any way waive its sovereign immunity.

Injection well F41-27G was drilled from January 6, 1952 to February 21, 1952. 11-3/4 inch 47# J-55 surface casing was set at 248 feet and cemented with 140 sacks of cement in a 14-3/4 inch hole. 5-1/2 inch, 17# J-55 casing was run to 8074 feet and cemented with 160 sacks of cement in a 9 inch hole. The well was completed with open hole from 8074 to 8099 feet. Injection is through 8074 feet of 2-7/8 inch tubing set with a Baker model R-3 packer.

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:

Water Quality Division abandonment requirements will be coordinated with requirements of the Wyoming Oil and Gas Conservation Commission (WOGCC). In no case shall the required abandonment procedure be less than that required by WOGCC at the time of abandonment.

Water Quality Division will require that the Dakota open hole in each of the wells within the Area of Review be squeezed with a minimum of 50 sacks of cement followed by a cement fillup to the top of the Mowry Formation. In no case shall the surface casing be recovered. Production casing may be cut off above the bottom plug and recovered. If this is done, the well bore shall be mudded up to meet the requirements of 35-11-404 of the Environmental Quality Act and Land Quality Regulations, Chapter 15.

A standard, dry hole marker shall be erected over the abandoned well. The surface casing shall be blind flanged and the dry hole maker shall be welded to this flange.

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 reasonable 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 form approved by the director, to close, plug and abandon the discharge operation in a manner prescribed by the director.

The required Certificate of Financial Responsibility has been submitted, along with copies of three bonds that have been posted. Bond Number 19 S 100207514 BCA is payable to the WOGCC and issued by the AETNA Casualty and Surety Company in the amount of \$25,000.00. Bond Number 19 S 100207512 BCA is payable to the US BLM and issued by the AETNA Casualty and Surety Company in the amount of \$25,000.00. Bond Number 19 S 100207513 BCA is payable to the State Land Department in the amount of \$10,000.00 and is issued by the AETNA Casualty and Surety Company. The permittee has offered these bonds as evidence of financial responsibility. Even though these bonds do not directly guarantee the plugging and abandonment of the three injection wells, Water Quality Division believes that they are sufficient evidence of the financial responsibility of the permittee. The permittee shall notify the Water Quality Division immediately by certified letter should he find that he is unable to continue carrying these bonds or any replacements for these bonds.

O. Special Measures the Director Finds Necessary:

At least once a year, and more often if the administrator finds it necessary, the injection well shall be shut in for a period of time to allow a valid pressure fall off curve to be recorded. This curve shall be considered complete when vacuum has been reached at the well head or when the curve becomes asymptotic to a horizontal line, whichever occurs first.

This permit replaces entirely permit UIC 88-311. Permit UIC 88-311 is hereby canceled.

P. Special Permit Conditions:

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

Mechanical integrity -- operations terminate immediately if mechanical integ-

rity of well or system fails and/or a leak or unauthorized fluid movement occurs.

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 or 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. A permit holder cannot transfer his permit without approval of the department director.

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.

/MAD

89-380

HARMON

Gale Irrigation Well

09/07/89

UR

11/07/89

9-11-89

aw sent to state Eng



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

May 29, 1991

David Finnegan  
Aspens Water and Sewer District  
P.O. Box 25003  
Jackson, Wyoming 83001

RE: Aspens/Teton Pines Injection Wells  
Permit UIC 89-381, Class 5W12  
Teton County, Wyoming

Dear Mr. Finnegan:

The above referenced facility became operational on April 4, 1991. The first quarterly report on this facility is due 30 days after the end of this present quarter, or July 30, 1991. This department routinely reviews these reports for compliance with the permit. At the present time, this department plans to make a physical inspection of this facility about once a year. This department will notify either you or Greg Olsen of the date of the first inspection.

Sincerely,

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

RL/jt

xc: Jake Strohman

*B*

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

(X) New  
( ) Modified

Permit Number:

UIC 89-381  
Ref. UIC 89-014  
UIC CLASS 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),

The Aspens/Teton Pines Water and Sewer District  
P.O. Box 25003  
Jackson, Wyoming 83001  
(307) 733-5518

is authorized to operate

the Aspens/Teton Pines Wastewater Injection System

according to procedures and conditions of the application UIC 89-014 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

*William P. Garland*  
Administrator  
Water Quality Division  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002  
Phone: (307) 777-7781

9-14-89  
Date

*Annis K. Bue*  
Director  
Department of Environmental Quality  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002

September 15, 1989  
Date

A. Discharge (Injection) Zone and Area of Review

The Area of Review for this facility has been established as a fixed Area of Review consisting of a circle of radius 1/2 mile centered around the injection well field located in T41N, R117W, Section 14, SW1/4, SW1/4, 6th P.M. The Area of Review includes all or parts of the following legally described parcels:

Township 41 North, Range 117 West, 6th P.M.

Section 14: W1/2E1/2; W1/2  
 Section 15: E1/2  
 Section 22: NE1/4NE1/4  
 Section 23: N1/2NW1/4

The above description includes some lands outside of the Area of Review, but it does include all lands within the Area of Review. The permittee has provided public notice to all owners of record within the 1/2 mile fixed Area of Review. The fixed Area of Review is supported by groundwater modeling showing that it is of adequate size.

B. Groundwater Classification

The receiving aquifer is the alluvial aquifer associated with the Snake River. This aquifer is class I under Chapter VIII of Water Quality Rules and Regulations. The permittee has provided data on the baseline water quality in this aquifer as follows:

<u>PARAMETER</u>	<u>CONCENTRATION</u> (mg/l)	<u>PARAMETER</u>	<u>CONCENTRATION</u> (mg/l)
Aluminum	<.01	Ammonia as N	<.03
Arsenic	<.001	Barium	.05
Beryllium	<.001	Bicarbonate	159
Boron	.09	Cadmium	<.001
Calcium	56	Carbonate	<.10
Chloride	14	Chromium	.003
Cobalt	<.01	Copper	<.01
Cyanide	<.001	Fluoride	.23
Iron	13.70	Lead	.008
Magnesium	4.8	Manganese	.10
Mercury	<.0002	Nickel	<.03
Nitrate as N	.28	Nitrite as N	<.02
Oil and Grease	<.1	Phenols	<.001
Potassium	.95	Selenium	<.001
Silver	<.001	Sodium	3.2
Sulfate	15	Total Dissolved Solids	175
Zinc	.05	pH	7.70
Acenaphthene	<.001	Acenaphthylene	<.001
Anthracene	<.001	Benzo(a)anthracene	<.001
Benzo(a)pyrene	<.001	Benzo(b)fluoranthene	<.001
Chrysene	<.001	Benzo(k)fluoranthene	<.001
Fluoranthene	<.001	Benzo(ghi)perylene	<.001
Fluorene	<.001	Dibenzo(a,h)anthracene	<.001
Naphthalene	<.001	Indeno(1,2,3-cd)pyrene	<.001

<u>PARAMETER</u>	<u>CONCENTRATION</u> (mg/l)	<u>PARAMETER</u>	<u>CONCENTRATION</u> (mg/l)
Phenanthrene	<.001	Pyrene	<.001
1,1,1-Trichloroethane	<.001	1,2-Dichloropropane	<.001
1,1,2,2-Tetrachloroethane	<.001	1,1,2-Trichloroethane	<.001
1,1-Dichloroethane	<.001	1,1-Dichloroethylene	<.001
1,2-Dichlorobenzene	<.001	1,2-Dichloroethane	<.001
1,2-Transdichloroethylene	<.001	1,3-Dichlorobenzene	<.001
1,3-CisDichloropropylene	<.001	1,4-Dichlorobenzene	<.001
1,3-TransDichloropropylene	<.001	Benzene	<.001
2,Chloroethylvinyl ether	<.001	Bromoform	<.001
Carbon Tetrachloride	<.001	Chlorobenzene	<.001
Chlorodibromomethane	<.001	Chloroethane	<.001
Chloroform	<.001	Dichlorobromomethane	<.001
Dichlorodifluoromethane	<.001	Ethylbenzene	<.001
Methyl Bromide	<.001	Methyl Chloride	<.001
Methyl Ethyl Ketone	<.001	Methyl Iso Butyl Ketone	<.001
Methylene Chloride	<.001	Tetrachloroethene	<.001
Toluene	<.001	Trichloroethene	<.001
Trichlorofluoromethane	<.001	Vinyl Chloride	<.001
Xylene	<.001	Total Volatile Organics	<.001

All effluents delivered to this aquifer through the injection wells shall meet class I standards. The following is an estimate of the average water quality to be injected:

Total Dissolved Solids	300 mg/l
Biological Oxygen Demand 5	5 mg/l
Total Suspended Solids	3 mg/l
Sulfates	50 mg/l
Chloride	55 mg/l
Ammonia	.5 mg/l
Nitrates	5.0 mg/l

The above data shows the design estimates submitted with the application. The above table does not set a limit on the injectate quality. Limits on injectate quality are discussed under Section C "Authorized Operations" and Section F "Environmental Monitoring".

### C. Authorized Operations

The permittee is authorized to operate a system of one to five injection wells to inject treated municipal waste from the Aspens/Teton Pines Wastewater Treatment Plant. These wells shall meet or exceed the following construction standards:

- a. All wells shall be constructed using 12 inch ID .250 inch wall thickness pipe either driven or installed in a borehole and sealed at the surface using concrete grout.
- b. Injectate shall be delivered to the wells using a 10 inch subsurface delivery line equipped with a subsurface control valve.

- c. The top of the well casing shall extend a minimum of 24 inches above grade and be equipped with a locking cap. All injection wells shall be kept locked at all times when measurements are not being made.

This system will also require monitor wells to be installed as shown in Section F4 of this permit. Monitor wells shall meet or exceed the following construction standards:

- a. All wells shall be constructed using 6 inch ID .250 inch wall thickness pipe either driven or installed in a borehole and sealed at the surface using concrete grout.
- b. The top of the well casing shall extend a minimum of 24 inches above grade and be equipped with a locking cap. All monitor wells shall be kept locked at all times when measurements are not being made.
- c. Each of these wells shall be constructed with a concrete pad surrounding the casing on the surface. This concrete pad shall be a minimum of 4 feet long and 4 feet wide by 6 inches thick. Each pad shall contain 1 number 5 rebar hoop 24 inches in diameter. This requirement is intended to insure that a surface seal is obtained around the pipe.

Injection of any biological, hazardous, toxic or potentially toxic materials or substances in concentrations which exceed maximum allowable concentrations based upon information of the EPA in the Federal Register for December 24, 1975 (Part IV), Water Programs, National Interim Primary Drinking Water Regulations and in the Federal Register for March 13, 1978 (Part II), Water Programs, Hazardous Substances is a violation of this permit.

This injection shall not result in a violation of Chapter VIII Water Quality Rules and Regulations Section 4(D)(5).

The injection system shall be controlled so that standing water on the surface does not appear within a radius of 200 feet from the wells. This may require filling around the center of injection to insure that standing water is not formed.

The injectate shall not exceed the following limits at all times:

<u>PARAMETER</u>	<u>CONCENTRATION</u> <u>(mg/l)</u>
TDS	500.0
Sulfates	250.0
Chlorides	250.0
BOD (5 day)	10.0
Ammonia as N	0.5
Nitrate as N	10.0
Cyanide	0.2
Phenols	0.001

<u>PARAMETER</u>	<u>CONCENTRATION</u> <u>(mg/l)</u>
Total Petroleum Hydrocarbon	0.5
Chlorinated Solvents (Total)	0.005
Base Neutral Compounds (Total)	0.005
TOTAL COLIFORMS	1 #/100 ml

The above table contains absolute permit limitations. Exceedance of any of the parameters shall be reported by telephone to the Water Quality Division within 24 hours of discovery. This telephone report shall be confirmed by letter within 7 days of discovery. The letter report shall contain a description of steps taken to correct the problem and a plan to insure that a recurrence does not occur.

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 this 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 three monitor wells shall be constructed spaced equally across the south side of the plant site. In addition, one well each shall be constructed as a monitor well on the northeast and northwest corners of the plant site. These wells shall penetrate the entire receiver that is open in the injection wells. Additional monitor wells shall be installed if required by the administrator.

Once a calendar quarter, or more often if the administrator requires, each of these monitor wells and all idle injection wells shall be sampled and analyzed for the following list of parameters. The concentrations on this list form a "point of compliance" monitoring system. Exceedance of any domestic use standard as spelled out in Chapter VIII of the Water Quality Rules and Regulations in a monitor well is a violation of this permit. Upon discovering such a violation, the permittee shall report the discovery to the Water Quality Division by telephone and shall resample the well in which the discovery was made within 24 hours. The permittee shall immediately propose a plan, which is acceptable to the Water Quality

Division, to identify and terminate the source of the violation. The permittee shall implement a plan to investigate and determine the source of the exceedance.

The permittee shall then submit a written report to the Water Quality Division within seven days. The report shall reference the telephone report and shall include Water Quality Division approved plans to investigate and remediate the violation and to prevent further violation.

<u>PARAMETER</u>	<u>CONCENTRATION</u> <u>(mg/l)</u>
Total Dissolved Solids	500
Sulfates	250
Chlorides	250
BOD (5 Day)	10
Ammonia AS N	.50
Nitrate AS N	10.0
Cyanide	.2
Phenol	.001
Static Water Level	No higher than 6 inches below ground surface.
TOTAL COLIFORMS	1 Number /100 ml

Prior to each sampling event, the permittee is required to evacuate no less than 500 gallons of water from each monitor well. Evacuation of 500 gallons of water is intended to provide assurance that a representative groundwater sample has been obtained. This evacuated water may be discharged back through the plant at any stage of the process or injected directly back into the injection wells or may be discharged to the surface next to the well. Evacuation shall be done on the same day that the sample is taken.

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 is required to monitor the discharge pressure, volume and average water quality.

The permittee shall analyze the effluent from the plant for the same list of parameters as the monitor wells. All parameters to be tested once per week except total petroleum hydrocarbon, chlorinated solvents (total), and base neutral compounds (total) which are to be tested once per quarter. The quality limitations listed in Section C of this permit apply to the effluents.

The total injected volume shall be recorded on a chart recorder. The permittee is free to design a metering system using either a single recording meter on the entire effluent stream or a system using a separate meter on each of the wells. If a single meter system is used, records shall be kept showing which of the five wells are receiving effluent at all times. Changes made including

shutting in of individual wells, constricting the flow to individual wells or opening up individual wells shall be recorded on the daily report. The injected volume shall not exceed 400,000 gallons per day as a total of all injection wells under this permit. If more than one well is receiving flow, an estimate of flow to each well is required.

The injection pressure at each well shall be recorded weekly in the form of a static water level in each of the injection wells and monitor wells required by this permit. All of these readings shall be taken from the same point on the casing each time they are recorded.

At least once a quarter and more frequently if required by the administrator, the effluents shall be sampled and analyzed for volatile and semi-volatile organics by EPA methods 601, 602, and 610 as well as total petroleum hydrocarbon by EPA method 418.1.

The Water Quality Division shall be provided with as-built plans for all wells constructed along with a plan map showing all wells to a scale of 1"=100' and a relative elevation to the same datum of all well measuring points. Coordinates and elevations for each well shall also be reported to 1/100 of a foot accuracy.

A quarterly report on this injection is required. These reports shall be due no later than 30 days after the close of each calendar quarter. The permittee is free to propose the use of fiscal quarters other than calendar quarters if this would ease his work load. Each of these reports shall contain the following information:

- a. The injected volume for the entire facility for each month of the quarter. This is the total volume injected in all wells in gallons.
- b. The static water levels of all wells taken on the day that analysis samples were taken.
- c. The chemical analyses required under Sections C, F4, and G of this permit.
- d. A report of any system upsets that occurred in the quarter.
- e. A summary of any permit exceedances during the quarter.

After the third anniversary of this permit, the permittee shall produce a report showing a summary of the first three years of operation. This report shall recap the operation and evaluate the effectiveness of the environmental monitoring program required. At this time the permittee is free to propose other monitoring plans, to propose alternate schedules, or to propose different parameter lists.

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.

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 abandonment 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, and
  - 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 anniversary date of the permit.
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.

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 with 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.

K. Mechanical Integrity

Each discharge well and associated discharge facilities is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

There are no mechanical integrity requirements placed on this system. The very nature of the construction precludes meaningful mechanical integrity testing.

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical integrity has been restored and permission to continue the discharge has been obtained from the administrator.

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, the casing shall be jacked back out of the ground and the hole filled with a bentonite slurry having a 10 minute gel strength of 20 pounds per 100 square feet and filtrate volume not to exceed 13.5 cc. The top 20 feet of the hole shall be filled with concrete designed to have a 28 day compressive strength of 3000 psi. In the event that the casing is parted during removal, or if for any reason the casing cannot be recovered, the inside of the casing shall be filled with abandonment fluid as described above, the top 20 feet of the casing filled with concrete and the casing shall be cut off 3 feet below grade and covered with a concrete cap. In no case shall these injection wells be converted to producing water wells for any other purpose.

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 reasonable 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 form approved by the director, to close, plug and abandon the discharge operation in a manner prescribed by the director.

There are no financial assurances required by this permit.

O. Special Measures the Director Finds Necessary:

After the first three years of operation the environmental monitoring requirements of this permit shall be reevaluated to determine their effectiveness and the overall necessity of each of the requirements placed on the permit. At that time, Water Quality Division and the permittee shall jointly agree on improvements to the monitoring and compliance system.

The permittee shall maintain each major system within the 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 effluent quality meets other requirements. Water Quality Division shall be notified in advance if any system will be shutdown for more than 48 hours for any reason.

P. Special Permit Conditions:

This permit does not become valid until a 400,000 gallon emergency overflow facility has been constructed and is operational. All systems in this plant are to be maintained in an operating condition.

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

Mechanical Integrity -- operations terminate immediately if mechanical integrity of well or system fails and/or a leak or unauthorized fluid movement occurs.

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 or 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. A permit holder cannot transfer his permit without approval of the department director.

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.

/jn

89-382

HARMON

Reed Small Waste Water System

09/07/89

UR

11/07/89

10/5/89

AW

R 7

PERMIT TO CONSTRUCT

PERMIT NO. 89-383  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

509 WEST BIRCH STREET, GLENROCK

This permit hereby authorizes the applicant:

Max Hollis  
245 Boxelder Route  
Glenrock, Wyoming 82637

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-383. The facility is located in S5, T33N, R75W, SWNE $\frac{1}{4}$  in the county of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) (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.

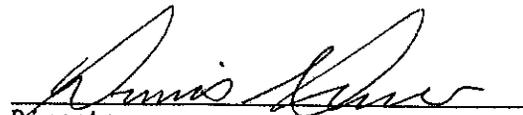
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

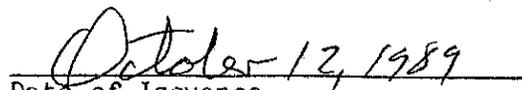
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

  
Date of Issuance

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

#### Special Conditions for Permit to Construct 89-383

1. 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 89-383. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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. 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. 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.
5. 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.

Conditions to Permit 89-383 (continued)

6. 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. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. 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;
  - d. 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;
  - e. 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;
  - f. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - g. A protective casing and locking cap is strongly recommended;
  - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. 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. Within 90 days of the 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. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;

Conditions to Permit 89-383 (continued)

- e. Water level and product thickness measurements;
  - f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:

BETX, TPH

If free product is found the above analysis will not be required, but the thickness of product shall be measured.

The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

11. 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.

cc: Jake Strohman

DM/jn

89-384

LOCKE

Smith Jamestown Septic Field

09/08/89

UR

11/08/89

1-24-91

AW

Same as 89-349  
no ltr in file -  
copy of card put in file

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 89-385

Christmann's Phillips 66 Service Station

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

Delgado Oil Inc.

P. O. Box 732

Pinedale, WY 82941

to construct, install, or modify a two vapor extraction systems for withdrawl of volatile hydrocarbons from the subsurface facility according to the procedures and conditions of the application No. 89-385. The facility is located in NW 1/4, NW 1/4, Sec. 3, T 33N, R 109W in the County of Sublette, in the State of Wyoming.

This permit shall be effective for a period of two (2) years (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 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.

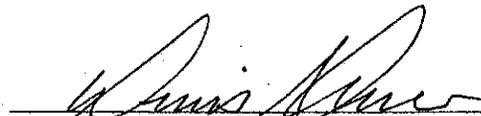
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 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

  
\_\_\_\_\_  
Date of Issuance

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

\* Conditions \*

1. The vapor extraction systems shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 89-385. Additional vapor extraction wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. The southern most vapor extraction system shall be relocated to the leading down gradient edge of the contaminant plume. This shall be determined by a Field subsurface investigation consisting of a soil gas survey, soil borings, excavations or other standard practice.
3. After the vapor extraction 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. The issuance of this permit does not relieve the permittee from obligations to complete 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.
5. The results of any analysis conducted on soil or water removed from these vapor extraction wells, boring or excavation shall be provided to the department as soon as they are available to the permittee.
6. The recovery system shall be operated continuously. If for any reason, the system is not operating for a period of 6 hours or more the permittee shall notify the DEQ/WQD by telephone at 332-3144 within 24 hours.



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	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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September 7, 1989

Elvin Rush  
Crook County Road & Bridge  
c/o Office of the County Clerk  
P O Box 37  
Sundance, WY 82729

RE: Permit Application Numbers 89-386 and 89-387, Road and Bridge Facilities  
in Hulett and Sundance, Crook County, Wyoming

Dear Mr. Rush:

The Water Quality Division (WQD) has reviewed the applications to construct monitor wells or borings at the referenced facilities for the purpose of conducting a site assessment. The accompanying permits (89-386 and 89-387) have been issued to Crook County Road and Bridge. Some of the permit conditions are provisionally structured to accommodate the subsurface conditions that can not be determined until drilling is conducted. Please review the permit before the work begins and contact this office if you have any questions or comments regarding the conditions.

Please note that the complete extent of contamination must be delineated for each site. Depending on the final well construction and site assessment results, additional work may be required.

Thank you for your time and attention. Please call this office at (307) 777-7781 if you have any questions or comments.

Sincerely,

Robert L. Stites  
Engineering Evaluator  
Water Quality Division

RLS/nc

cc: Jake Strohmman, DEQ/WQD, Groundwater Program Manager, Cheyenne  
Wm Johnston, DEQ/WQD, NE District Supervisor, Sheridan  
Susan Fields, Western Water Consultants, Laramie

PERMIT TO CONSTRUCT

PERMIT NO. 89-386  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Crook County Shop in Sundance

This permit hereby authorizes the applicant:

Crook County Road and Bridge  
Office of County Clerk  
P O Box 37  
Sundance, WY 82729

to construct, install or modify network of test holes and monitoring wells according to the procedures and conditions of the application number 89-386. The facility is located in NE 1/4 Section 13, T51N, R65W in the county of Crook, in the State of Wyoming. This permit shall be effective for a period of two 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.

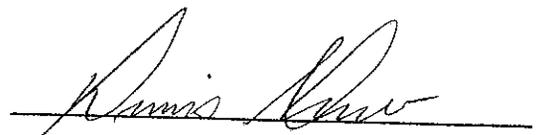
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, 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 Director  
Water Quality Division

  
\_\_\_\_\_  
Department of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

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

#### CONDITIONS TO PERMIT TO CONSTRUCT #89-386

1. Except when otherwise required by conditions of this permit, the boreholes and monitoring wells shall be installed in accordance with the plans and specifications submitted in permit to construct application number 89-386. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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 must be installed according to normal engineering practice. At a minimum, a seal of bentonite or bentonite grout is required from the surface to a foot or two above the uppermost perforation. Protective casing shall be cemented into a sloping concrete cap to promote drainage away from the wellhead.
3. The WQD shall be notified a minimum of two weeks before drilling begins so that a WQD representative may be on site as deemed necessary by the WQD.
4. After any monitoring wells or test holes installed have fulfilled their useful purpose, they shall be abandoned according to procedures and requirements specified in Chapter XI, Part G, Section 70 of the 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.
5. The issuance of this permit does not relieve the permittee from any corrective actions or additional work that may be required. Additional investigative work or corrective actions may be required depending on the results of the extent of contamination study or site assessment.

Conditions to Permit 89-386 (continued)

- Borings or monitoring wells must penetrate into the groundwater or into a confining unit below the level of the base of the tank pit excavation. Regardless of lithology or apparent confining conditions, borings must extend through any zone of contaminated soils as evidenced by visual, odor, instrument reading, or other field test criteria. If encountered, groundwater must be sampled for laboratory analysis for BETX by EPA method 602 and TPH by EPA method 418.1.
7. If the following conditions are encountered, the borings must be converted into monitoring wells:
- a. Free product in the form of a discrete layer, blebs, or sheen on the groundwater.
  - b. A hydrocarbon odor, instrument reading, or other field test indicating groundwater contamination.
  - c. Soil contamination in the form of discernable staining, odor, or instrument reading within 3 feet above or below the groundwater level.

The depth of penetration below groundwater shall be in accordance with the screening requirements for monitoring wells.

8. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are constructed, installed, and developed:
- a. After the bentonite has been placed in the annular space, it must be hydrated to ensure a proper seal.
  - b. The borehole diameter must be at least four inches larger in diameter than the casing diameter.
  - c. The screened interval must 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.
  - d. 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.
  - e. To minimize the entrance of fine-grained material into the well, the filter pack should be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval.
  - f. Factory slotted casing is recommended for the perforated interval.
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well.
  - h. A protective casing and locking cap is required. Keys to the locks shall be kept on site and made available to WQD personnel for inspection or sampling.
  - i. Each monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.

Conditions to Permit 89-386 (continued)

9. Each well and borehole shall be lithologically logged with grain-size descriptions, as applicable, based on the Wentworth scale, phi scale, or Unified Soil Classification System.
  - a. Information indicating soil contamination such as visible staining or discoloration, detectable odors, instrument readings, or other field criteria must be recorded in the lithologic logs.
  - b. Contaminated soils recovered must be separated from clean soils and disposed of properly.
  - c. The results of any laboratory chemical analysis on soil samples must be included with the extent of contamination or site assessment report.
10. Any boreholes not converted to monitor wells must be abandoned at the completion of the investigation. The following criteria must be applied to determine the abandonment method:
  - a. In the event that two separate aquifer units are placed in hydrologic communication, the aquifers and intervening units must be sealed by neat cement, bentonite, or similar sealing material acceptable under Chapter XI of the Wyoming Water Quality Rules and Regulations.
  - b. In the event that a boring is to be completed as a monitoring well and has penetrated separate aquifer units, the lowermost unit(s) shall be sealed as in (a.) above and monitoring well construction requirements will otherwise apply.
  - c. In the event that the near surface soils, not opposite the perforated interval, exhibit contamination as evidenced by staining, odor, or instrument measurement criteria, they shall be sealed to prevent introduction of contaminants to the groundwater by surface water run-on and infiltration.
  - d. Drill cuttings may otherwise be placed back into the borings with a minimal surface seal according to normal engineering practice provided that the cuttings exhibit no evidence of contamination.
11. Disposal of development, rinsate, or purging waters in the sanitary sewer system must be approved by the appropriate city or county agencies.
12. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
13. A report on the extent of contamination study or site assessment shall be submitted to the WQD no later than 30 days of the permittee's receipt of data from the laboratory. This report shall include at a minimum:
  - a. A chronological summary of events leading up to the study.
  - b. A topographic site map or maps showing the locations and elevations of physical features, wells and/or boreholes, utility lines and or trenches, boreholes, and wells, potentiometric surface, and groundwater flow direction.
  - c. Map(s) and hydrogeologic cross sections illustrating the magnitude and lateral and vertical extent of subsurface contamination including: any

Conditions to Permit 89-386 (continued)

- free product layer; soil contamination as evidenced by analytical results; instrumentation readings, and visual/odor criteria; and dissolved contaminant constituents in groundwater.
- d. A description of sample collection procedures, analytical results, and methods of measurement for free product, vapor, and other field techniques that includes limits of detection.
  - e. As-built construction details for each monitoring well; lithologic logs for each monitoring well and each borehole; and a description of borehole abandonment methods and procedures.
  - f. Interpretation of the data and conclusions including contaminant migration pathways, groundwater flow direction and rate, and recommended remedial measures.
  - g. Inventory records for a year prior to the report of the spill or time of assessment reconciled to illustrate overage and loss.
14. The following monitoring program shall apply to all monitoring wells installed under this permit. This program may be modified by the WQD depending on the initial results of the extent of contamination study or following a review of data generated through at least one year's time.
- a. Quarterly measurement/analysis of the following field parameters:
    - (1) depth and elevation of the groundwater level.
    - (2) the thickness of any free petroleum product to the nearest 0.01 feet. Any existing free product too thin to measure shall be recorded by description, such as blebs, sheen, film, iridescence, odor, etc.
  - b. Quarterly analysis of groundwater samples from each well for Total Petroleum Hydrocarbons (TPH) by EPA method 418.1 and Benzene, Ethylbenzene, Toluene, and Xylenes (BETX) by EPA method 602. In the event that measurable free product is reported, an analysis for these dissolved constituents will not be required.
  - c. The results of any other chemical analyses on water samples from these wells shall be submitted to the WQD within 30 days of their receipt from the laboratory.
  - d. The analytical results submitted with the report on the extent of contamination study shall be considered the first quarterly monitoring report. Subsequent reports shall be submitted within 30 days of the end of each calendar quarter, that is, by the end of January, April, July, and October, respectively.

RS/nc

cc: Jake Strohman, WQD Cheyenne  
Wm Johnston, NE District Supervisor  
Susan Field, Western Water Consultants, Laramie



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	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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September 7, 1989

Elvin Rush  
Crook County Road & Bridge  
c/o Office of the County Clerk  
P O Box 37  
Sundance, WY 82729

RE: Permit Application Numbers 89-386 and 89-387, Road and Bridge Facilities  
in Hulett and Sundance, Crook County, Wyoming

Dear Mr. Rush:

The Water Quality Division (WQD) has reviewed the applications to construct monitor wells or borings at the referenced facilities for the purpose of conducting a site assessment. The accompanying permits (89-386 and 89-387) have been issued to Crook County Road and Bridge. Some of the permit conditions are provisionally structured to accommodate the subsurface conditions that can not be determined until drilling is conducted. Please review the permit before the work begins and contact this office if you have any questions or comments regarding the conditions.

Please note that the complete extent of contamination must be delineated for each site. Depending on the final well construction and site assessment results, additional work may be required.

Thank you for your time and attention. Please call this office at (307) 777-7781 if you have any questions or comments.

Sincerely,

Robert L. Stites  
Engineering Evaluator  
Water Quality Division

RLS/nc

cc: Jake Strohmman, DEQ/WQD, Groundwater Program Manager, Cheyenne  
Wm Johnston, DEQ/WQD, NE District Supervisor, Sheridan  
Susan Fields, Western Water Consultants, Laramie

PERMIT TO CONSTRUCT

PERMIT NO. 89-387  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Crook County Shop in Hulett

This permit hereby authorizes the applicant:

Crook County Road and Bridge  
Office of County Clerk  
P O Box 37  
Sundance, WY 82729

to construct, install or modify network of test holes and monitoring wells according to the procedures and conditions of the application number 89-387. The facility is located in SE 1/4 Section 12, T54N, R65W in the county of Crook, in the State of Wyoming. This permit shall be effective for a period of two 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.

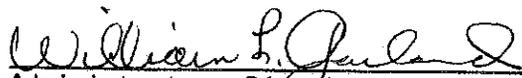
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, 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 Director  
Water Quality Division

  
Department of Environmental Quality

  
Date of Issuance

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

#### CONDITIONS TO PERMIT TO CONSTRUCT #89-387

1. Except when otherwise required by conditions of this permit, the boreholes and monitoring wells shall be installed in accordance with the plans and specifications submitted in permit to construct application number 89-387. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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 must be installed according to normal engineering practice. At a minimum, a seal of bentonite or bentonite grout is required from the surface to a foot or two above the uppermost perforation. Protective casing shall be cemented into a sloping concrete cap to promote drainage away from the wellhead.
3. The WQD shall be notified a minimum of two weeks before drilling begins so that a WQD representative may be on site as deemed necessary by the WQD.
4. After any monitoring wells or test holes installed have fulfilled their useful purpose, they shall be abandoned according to procedures and requirements specified in Chapter XI, Part G, Section 70 of the 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.
5. The issuance of this permit does not relieve the permittee from any corrective actions or additional work that may be required. Additional investigative work or corrective actions may be required depending on the results of the extent of contamination study or site assessment.

6. Borings or monitoring wells must penetrate into the groundwater or into a confining unit below the level of the base of the tank pit excavation. Regardless of lithology or apparent confining conditions, borings must extend through any zone of contaminated soils as evidenced by visual, odor, instrument reading, or other field test criteria. If encountered, groundwater must be sampled for laboratory analysis for BETX by EPA method 602 and TPH by EPA method 418.1.
7. If the following conditions are encountered, the borings must be converted into monitoring wells:
  - a. Free product in the form of a discrete layer, blebs, or sheen on the groundwater.
  - b. A hydrocarbon odor, instrument reading, or other field test indicating groundwater contamination.
  - c. Soil contamination in the form of discernable staining, odor, or instrument reading within 3 feet above or below the groundwater level.

The depth of penetration below groundwater shall be in accordance with the screening requirements for monitoring wells.

8. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are constructed, installed, and developed:
  - a. After the bentonite has been placed in the annular space, it must be hydrated to ensure a proper seal.
  - b. The borehole diameter must be at least four inches larger in diameter than the casing diameter.
  - c. The screened interval must 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.
  - d. 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.
  - e. To minimize the entrance of fine-grained material into the well, the filter pack should be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval.
  - f. Factory slotted casing is recommended for the perforated interval.
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well.
  - h. A protective casing and locking cap is required. Keys to the locks shall be kept on site and made available to WQD personnel for inspection or sampling.
  - i. Each monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.

Conditions to Permit 89-387 (continued)

9. Each well and borehole shall be lithologically logged with grain-size descriptions, as applicable, based on the Wentworth scale, phi scale, or Unified Soil Classification System.
  - a. Information indicating soil contamination such as visible staining or discoloration, detectable odors, instrument readings, or other field criteria must be recorded in the lithologic logs.
  - b. Contaminated soils recovered must be separated from clean soils and disposed of properly.
  - c. The results of any laboratory chemical analysis on soil samples must be included with the extent of contamination or site assessment report.
10. Any boreholes not converted to monitor wells must be abandoned at the completion of the investigation. The following criteria must be applied to determine the abandonment method:
  - a. In the event that two separate aquifer units are placed in hydrologic communication, the aquifers and intervening units must be sealed by neat cement, bentonite, or similar sealing material acceptable under Chapter XI of the Wyoming Water Quality Rules and Regulations.
  - b. In the event that a boring is to be completed as a monitoring well and has penetrated separate aquifer units, the lowermost unit(s) shall be sealed as in (a.) above and monitoring well construction requirements will otherwise apply.
  - c. In the event that the near surface soils, not opposite the perforated interval, exhibit contamination as evidenced by staining, odor, or instrument measurement criteria, they shall be sealed to prevent introduction of contaminants to the groundwater by surface water run-on and infiltration.
  - d. Drill cuttings may otherwise be placed back into the borings with a minimal surface seal according to normal engineering practice provided that the cuttings exhibit no evidence of contamination.
11. Disposal of development, rinsate, or purging waters in the sanitary sewer system must be approved by the appropriate city or county agencies.
12. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
13. A report on the extent of contamination study or site assessment shall be submitted to the WQD no later than 30 days of the permittee's receipt of data from the laboratory. This report shall include at a minimum:
  - a. A chronological summary of events leading up to the study.
  - b. A topographic site map or maps showing the locations and elevations of physical features, wells and/or boreholes, utility lines and or trenches, boreholes, and wells, potentiometric surface, and groundwater flow direction.
  - c. Map(s) and hydrogeologic cross sections illustrating the magnitude and lateral and vertical extent of subsurface contamination including: any

- free product layer; soil contamination as evidenced by analytical results; instrumentation readings, and visual/odor criteria; and dissolved contaminant constituents in groundwater.
- d. A description of sample collection procedures, analytical results, and methods of measurement for free product, vapor, and other field techniques that includes limits of detection.
  - e. As-built construction details for each monitoring well; lithologic logs for each monitoring well and each borehole; and a description of borehole abandonment methods and procedures.
  - f. Interpretation of the data and conclusions including contaminant migration pathways, groundwater flow direction and rate, and recommended remedial measures.
  - g. Inventory records for a year prior to the report of the spill or time of assessment reconciled to illustrate overage and loss.
14. The following monitoring program shall apply to all monitoring wells installed under this permit. This program may be modified by the WQD depending on the initial results of the extent of contamination study or following a review of data generated through at least one year's time.
- a. Quarterly measurement/analysis of the following field parameters:
    - (1) depth and elevation of the groundwater level.
    - (2) the thickness of any free petroleum product to the nearest 0.01 feet. Any existing free product too thin to measure shall be recorded by description, such as blebs, sheen, film, iridescence, odor, etc.
  - b. Quarterly analysis of groundwater samples from each well for Total Petroleum Hydrocarbons (TPH) by EPA method 418.1 and Benzene, Ethylbenzene, Toluene, and Xylenes (BETX) by EPA method 602. In the event that measurable free product is reported, an analysis for these dissolved constituents will not be required.
  - c. The results of any other chemical analyses on water samples from these wells shall be submitted to the WQD within 30 days of their receipt from the laboratory.
  - d. The analytical results submitted with the report on the extent of contamination study shall be considered the first quarterly monitoring report. Subsequent reports shall be submitted within 30 days of the end of each calendar quarter, that is, by the end of January, April, July, and October, respectively.

RS/nc

cc: Jake Strohman, WQD Cheyenne  
Wm Johnston, NE District Supervisor  
Susan Field, Western Water Consultants, Laramie

R 7

PERMIT TO CONSTRUCT

PERMIT NO. 89-388  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

4113 W. YELLOWSTONE HIGHWAY

This permit hereby authorizes the applicant:

Lydia Kirkpatrick  
4498 Highway, Mt. View Addition  
Casper, Wyoming 82604

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-388. The facility is located in S1, T33N, R80W, SWSE1 in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) (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.

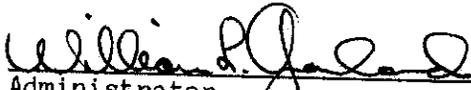
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

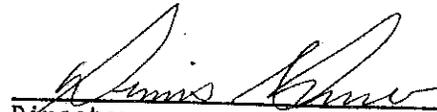
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

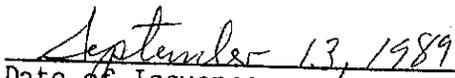
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

  
\_\_\_\_\_  
Date of Issuance

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

#### Special Conditions for Permit to Construct 89-388

1. 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 89-388. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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. 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. 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.

Conditions to Permit 89-388 (continued)

5. 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. 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. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. 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;
  - d. 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;
  - e. 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;
  - f. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - g. A protective casing and locking cap is strongly recommended;
  - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. 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. Within 90 days of the 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;

Conditions to Permit 89-388 (continued)

- b. A site map showing physical features, well locations and elevations;
  - c. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;
  - f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:
- BETX, TPH
- If free product is found, the above analysis will not be required, but the thickness of product shall be measured.
- The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.
11. 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.

DM/jn

cc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

PERMIT NO. 89-389  
See Conditions

New  
Renewal  
Modified

Dick's Bison Wrecker Service

This permit hereby authorizes the applicant:

Dick Gilbert  
3900 Wolf Creek Road  
Casper, WY 82604

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-389. The facility is located in S24, T33N, R80W in the county of Natrona, 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.

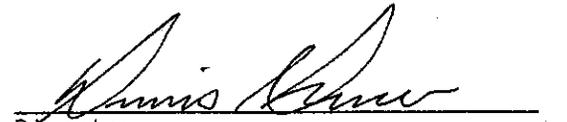
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, 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

September 22, 1989  
Date of Issuance

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

#### Conitions to Permit to Construct 89-389

1. 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 89-389. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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. 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. 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.
5. 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. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be

Conditions to Permit 89-389 (continued)

implemented when the wells are constructed, installed and developed:

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. 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;
  - d. 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;
  - e. 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;
  - f. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - g. A protective casing and locking cap is strongly recommended;
  - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. 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. Within 90 days of the 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. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;
  - f. Sample collection procedures;

Conditions to Permit 89-389 (continued)

- g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:

BETX, TPH

The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

11. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
12. 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.

DM/mad

cc: Jake Strohman



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	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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January 3, 1990

Jack E. Scott  
P O Box 1000  
Evansville, WY 82636

RE: Permit to Construct Application No. 89-390, 821 East 2nd St., Casper,  
S10, T33N, R78W, NWNW1/4, Natrona County

Dear Mr. Scott:

Your application is being returned to you since under the Underground Storage Tank Economic and Environmental Assistance Act of 1989 (W.S. 35-11-14-1 through 35-11-1413, 39-6-215 and 39-6-914), you are not the responsible party as defined under 35-11-1402 (a)(ix). Therefore under Wyoming statutes, you are not required to mitigate the hydrocarbon contamination discovered on your property which had originated from the leaking underground storage tanks which had been removed from this site. The Department of Environmental Quality/Water Quality Division will be pursuing local records to determine the responsible party, and they will be contacted to mitigate the hydrocarbon contamination at this site.

Sincerely,

David Montague  
Groundwater Engineering Evaluator  
Water Quality Division

DM/nc

xc: Jake Strohmman, DEQ/WQD

Betty Luker, Coldwell Bankers/Luker Realty, 4221 East 2nd, Casper. WY 82609

89-391

HARMON

SCOTT CABIN SEPTIC SYSTEM

DATE	ACTION	60-DAY
09/11/89	UR	11/11/89
10/4/89	AW - sent to Co (Guamie)	

RF

PERMIT TO CONSTRUCT

New

Permit No. 89-392

Renewal

Modified

Conoco, Inc. Gebo Office SWTF  
(Name of Facility)

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

Conoco, Inc.

851 Werner Court

Casper, WY 82601

to construct a septic tank and leachfield facility according to the procedures and conditions of the application No. 89-392. The facility is located in Sec. 23, T44N, R95W in the County of Hot Springs, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 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, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

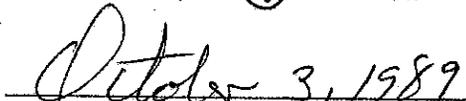
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

  
\_\_\_\_\_  
Date of Issuance

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

PERMIT TO CONSTRUCT

New

Permit No. 89-393R

Renewal

Modified

Worland-Black 4 Sewer Addition  
(Name of Facility)

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

City of Worland

P. O. Box 226

Worland, WY 82401

to construct a 400 feet of 8 inch sanitary sewer facility according to the procedures and conditions of the application No. 89-393R. The facility is located in Sec 25, T47N,R93W in the County of Washakie, in the State of Wyoming.

This permit shall be effective for a period of two (2) years (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 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.

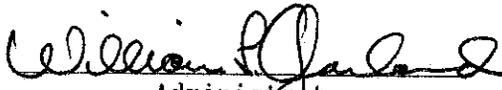
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

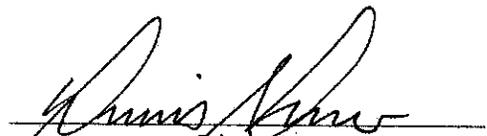
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

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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  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

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

PERMIT TO CONSTRUCT

PERMIT NO. 89-394  
See Conditions

X New  
Renewal  
Modified

Getter Trucking, Inc.

This permit hereby authorizes the applicant:

William Getter  
Getter Trucking Inc  
P O Box 1635  
Billings, MT 59103

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-394. The facility is located in S3, T33N, R80W in the county of Natrona, 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.

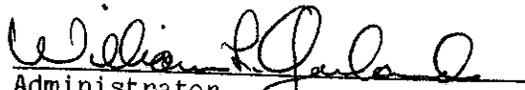
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

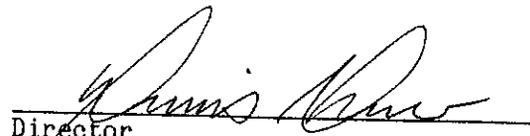
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, 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

September 25, 1989  
Date of Issuance

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

#### Conditions to Permit to Construct

1. 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 89-394. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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. 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. 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.
5. 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. In addition to the well construction information submitted with the permit

Conditions to Permit 89-394 (continued)

application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. 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;
  - d. 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;
  - e. 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;
  - f. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - g. A protective casing and locking cap is strongly recommended;
  - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. 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. Within 90 days of the 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. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;
  - f. Sample collection procedures;

Conditions to Permit 89-394 (continued)

- g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
  10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:

EPA 602 (Purgeable Aromatics)  
EPA 610 (Polynuclear Aromatic Hydrocarbons)  
EPA 418.1 (Total Petroleum Hydrocarbons)

If free product is found the above analysis will not be required, but the thickness of product shall be measure.

The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

11. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
12. 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.

DM/mad

cc: Jake Strohman

R7

PERMIT TO CONSTRUCT

PERMIT NO. 89-395  
SEE SPECIAL CONDITIONS

- New
- Renewal
- Modified

COLORADO INTERSTATE GAS COMPANY ANODE BED

This permit hereby authorizes the applicant:

Colorado Interstate Gas Company  
P. O. Box 1087  
Colorado Springs, CO 80944

to construct, install or modify a deep well anode bed according to the procedures and conditions of the application number 89-395. The facility is located in T12N-26N, R90W-112W in the county of Sweetwater, 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: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, 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

September 25, 1989  
Date of Issuance

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

Special Conditions for Permit to Construct 89-395

1. The cathodic protection deep anode ground bed well shall be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application number 89-395.
2. The coke breeze backfill has a total organic content no greater than .2%. Calcined petroleum coke breeze is acceptable.
3. Within 45 days after the well has been installed, as-built construction plans need to be submitted to the Wyoming Department of Environmental Quality, Water Quality Division, detailing if groundwater was encountered while installing the anode bed.

CWP/jn

cc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

PERMIT NO. 89-396  
SEE SPECIAL CONDITIONS

New  
 Renewal  
 Modified

MINI MART STORE #122/GROUNDWATER MONITORING SYSTEM

This permit hereby authorizes the applicant:

Terry Oldfield/Mini Mart, Inc.  
P. O. Box 3259  
Casper, Wyoming 82602

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-396. The facility is located in S4, T15N, R73W, NWNW1/4 in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) (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: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

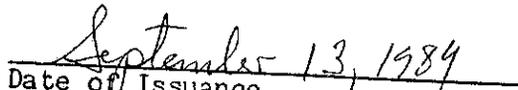
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

  
\_\_\_\_\_  
Date of Issuance

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

#### Special Conditions for Permit to Construct 89-396

1. 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 89-396. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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. 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. 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.

Conditions to Permit 89-396 (continued)

5. 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. 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. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. 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;
  - d. 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;
  - e. 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;
  - f. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - g. A protective casing and locking cap is strongly recommended;
  - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. 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. Within 90 days of the 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;

Conditions to Permit 89-396 (continued)

- b. A site map showing physical features, well locations and elevations;
  - c. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;
  - f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:

BETX, TPH

If free product is found, the above analysis will not be required, but the thickness of product shall be measured.

The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

11. 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.

DM/jn

cc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

New

Permit No. 89-397R

Renewal

Modified

Cody Water Main - Cody Ave/12th St. 23rd St. & North of Big Horn Ave.  
(Name of Facility)

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

City of Cody

1338 Rumsey Ave.

Cody, WY 82414

to construct a 6 inch ductile iron water mains facility according to the procedures and conditions of the application No. 89-397R. The facility is located in Tract 79, 71, 40, T53N, R101W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 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.

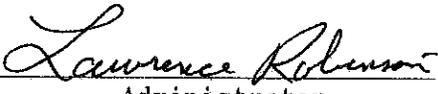
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

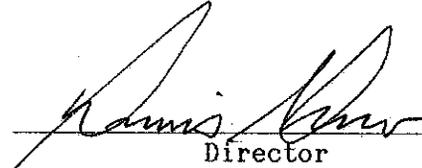
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

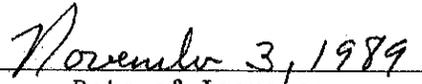
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

  
\_\_\_\_\_  
Date of Issuance

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



THE STATE

OF WYOMING

AW  
10/26  
already  
on card



# Department of Environmental Quality

Air Quality Division  
(307) 672-6457

Water Quality Division  
(307) 672-6457

October 26, 1989

RECEIVED

OCT 30 1989

WATER QUALITY DIVISION  
WYOMING

Mr. Tom Barker  
Centennial Engineering & Research, Inc.  
237 North Main, Suite 1  
Sheridan, Wyoming 82801

RE: Sheridan Water Distribution System Extension &  
Sanitary Sewer System Extension Permit Application # 89-398

Dear Mr. Barker:

In accordance with your letter dated October 24, 1989, we have withdrawn from our files the application for a permit to construct for the above referenced project.

Enclosed are the materials for this project which were submitted to our office.

Sincerely,

*Gerhard P. Borner*

Gerhard P. Borner  
Water Quality Engineer  
Water Quality Division

GB:jj

xc: IPS, Cheyenne



# CENTENNIAL ENGINEERING & RESEARCH, INC.

Engineering & Architecture

237 NORTH MAIN, SUITE 1  
SHERIDAN, WY 82801  
307-672-1711

OFFICES IN:  
GILLETTE, WY  
DOUGLAS, WY

October 24, 1989



Mr. Bill Johnson, District Engineer  
WYOMING DEPT. OF ENVIRONMENT RESOURCES  
District Office - Water Division  
Sheridan, WY 82801

Re: Wyoming Game and Fish Department  
District Headquarters Project

Dear Bill:

The Game and Fish Department has informed us that they have abandoned the site originally proposed for its facility. Therefore, we hereby withdraw our application for a permit to construct, and request that you return the drawings.

Sincerely,

Tom Barker

cc: Malone Belton Architects  
Bruce Perryman, Game and Fish Commission-Cheyenne

TB/dlwo

File: G&FWDER.DRW

89-399

Application withdrawn

Applicant taking  
to Kousmie Co

9/26/87

hc

per LR

PERMIT TO CONSTRUCT

New

PERMIT NO. 89-40ORR

Renewal

Modified

DRY FORK COAL OFFICE/SHOP & WAREHOUSE SEPTIC SYSTEMS  
(Name of Facility)

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

Dry Fork Coal Company

201 W. Lakeway Road, Suite 314

Gillette, Wyoming 82716

to construct, install or modify a wastewater facility according to the procedures and conditions of the application No. 89-40ORR. The facility is located in Section 24, T.51N., R.72W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (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.

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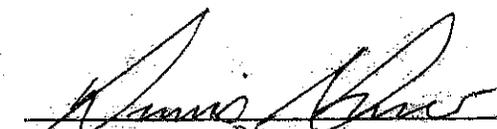
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

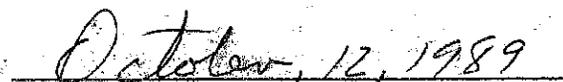
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AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

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

BJ:jj

xc: Eric E. Schomaker  
Ford, Bacon & Davis  
375 Chipeta Way  
P. O. Box 8009  
Salt Lake City, Utah 84108