

ing 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, Wyoming 82520; telephone, 332-3144.

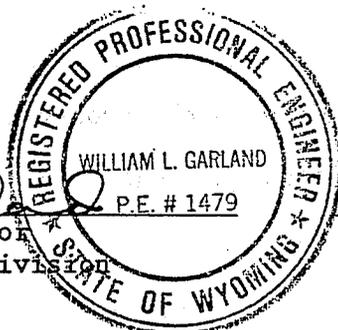
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:

William L. Garland

Administrator
Water Quality Division



Ralph Wood

Director
Dept. of Environmental Quality

3-22-88
Date of Issuance

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

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 87-352

ROCHELLE HIGHWALL SUMP NO. 1 RESERVOIR
(Name of Facility)

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

Rochelle Coal Company

Caller Box 3034

Gillette, Wyoming 82716

to construct, install, or modify a sedimentation control facility according to the procedures and conditions of the application No. 87-352. The facility is located in Section 2, T.41N., R.70W., 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.

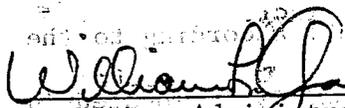
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

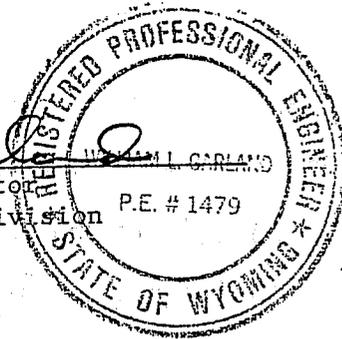
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

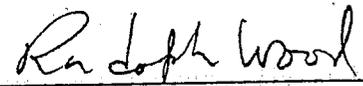
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
P.E. # 1479




Director
Department of Environmental Quality

9-22-87

Date of Issuance

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

nc

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 87-353R

MIDWEST TREATMENT FACILITY UPGRADING
(Name of Facility)

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

Town of Midwest

P. O. Box 190

Midwest, Wyoming 82643

to construct, install, or modify a domestic wastewater treatment facility according to the procedures and conditions of the application No. 87-353R. The facility is located in Sections 24 & 36, T.40N., R.79W., in the County of Natrona, 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 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, Suite 501, 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:

William L. Garland
Administ^{ator} P.E. # 1479
Water Quality Division


Ra L. Johnson
Director
Department of Environmental Quality

12-15-87
Date of Issuance

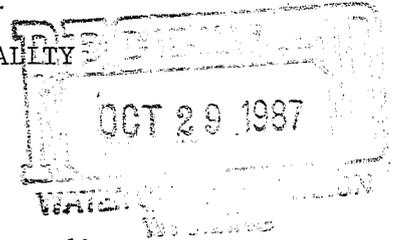
This permit does not supercede the requirements for obtaining any permit from local agencies.

xc: Jim Mallorey
Howard Needles Tammen & Bergendoff
3609 S. Wadsworth Blvd., Suite 220
Denver, Colorado 80235-2103

Normal

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
2161 Coffeen Avenue, Suite 501
Sheridan, Wyoming 82801



PROJECT: Midwest Treatment Facility Upgrading

ARCHITECT OR ENGINEER: Roy E. Prior
c/o CEI
P. O. Box 2000
Casper, Wyoming 82602

WATER QUALITY DIVISION
REFERENCE NUMBER: 87-353

REVIEWING ENGINEER: *sf* Susan Fields

DATE OF REVIEW: October 26, 1987

ACTION: Not Authorized

COMMENTS:

Lagoons

- 1) The work sequence for bank stabilization should be more clearly specified so that discharge during the work does not occur. Items that should be addressed include: a) amount of drawdown necessary to provide storage during the work and to provide adequate settling prior to a subsequent discharge; b) sequence of work best suited for the piping layout. The piping is not clearly labelled to indicate bypass or isolation capabilities.
- 2) It was recommended in the past to provide continuous influent and effluent flow measurement. I am curious why this equipment has not been specified for this project.
- 3) How far will the riprap extend beyond the piping in the south embankment of Pond A?

Gas Plant Treatment Facility

- 1) Sheet 2 of 4 identifies the sludge return and sludge wasting pipelines as PVC. Section C-C on Sheet 4 of 4 shows them as Schedule 40 steel. The regulations require that all sludge piping shall be a metallic material. The plans should be revised to be consistent and the specifications should clearly state the pipe materials to be used.
- 2) The sludge handling pipelines should be equipped with cleanouts.
- 3) Special Provision C4 incorrectly states that "sludge shall return from the clarifier to the aeration tank by gravity".

Review of Plans & Specifications
Midwest Treatment Facility Upgrading
87-353
October 26, 1987
Page Two

- 4) The sludge return pump should be variable from 25% to 100% of the average design flow. Can the specified equipment return sludge at the lower rate of approximately 3 gpm? It appears the pump specified may be too large to provide efficient sludge pumping for this facility.
- 5) What provisions are available should the sludge pump fail? Is a dual system appropriate?
- 6) The specifications state that the chlorine contact chamber shall provide 30 minutes of detention time. At the peak hour flow of 40 gpm, 500 gallons only provides 12.5 minutes of detention. This discrepancy should be clarified and a minimum of 15 minutes detention should be provided at the peak hour flow.
- 7) The chlorine contact chamber specifications must clearly identify acceptable materials. Non-corrosive materials only can be used.
- 8) The baffle in the chlorine contact chamber should be labelled and acceptable materials specified.
- 9) The clarifier building should be equipped with positive ventilation to prevent excessively high temperatures.
- 10) There are no provisions for effluent flow measurement. Flow recording is a requirement of the discharge permit and reliable measurement capabilities with a 10% accuracy must be provided.

General

- 1) The application forms for a Permit to Construct have been revised. Please complete the enclosed form and return it with your response.

xc: Ed Kemmerer
3480 E. 18th
Casper, Wyoming 82609

me R 7

PERMIT TO CONSTRUCT

PERMIT NO. 87-354
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

YODER WELL NO. 10

This permit hereby authorizes the applicant:

Town of Yoder
P O Box 86
Yoder, Wyoming 82244

to construct, install or modify a municipal water well according to the procedures and conditions of the application number 87-354. The facility is located in Section 34, T23N, R62W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of 2 (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.

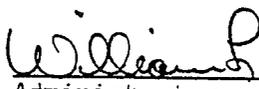
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

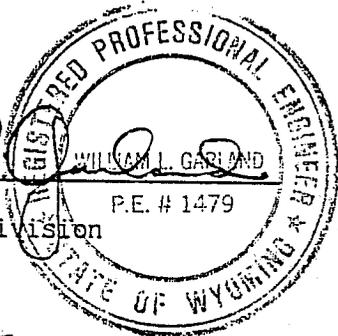
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

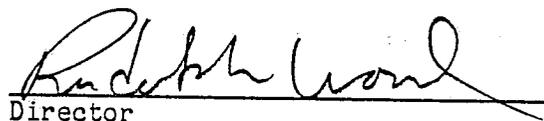
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division



REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
P.E. # 1479
STATE OF WYOMING


Director
Department of Environmental Quality

12-11-87
Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT # 87-354

1. An operation and maintenance manual shall be submitted by the permittee and approved by the Water Quality Division prior to start-up.
2. Final pump settings, draw-down, and capacity shall be submitted to the Water Quality Division.
3. A complete water quality analysis shall be sent to the Water Quality Division prior to start-up.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 87-355R

Deadman Coal Mine Sedimentation Control
(Name of Facility)

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

Wy-Ida Coal Company/Roberts Mining Company
c/o Gordon Jenkins
830 Shoup Avenue, Suite 201
Idaho Falls, ID 83402

to construct, install, or modify a sedimentation control structure for the
Deadman Coal Mine

facility according to the procedures and conditions of the
application No. 87-248R. The facility is located in NE $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 35, T35N, R116W

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.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

ing 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, Wyoming 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
9-24-87
Date of Issuance

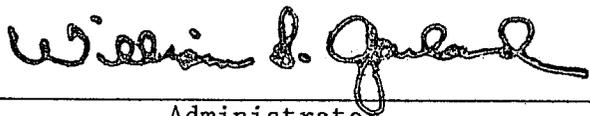



Director
Dept. of Environmental Quality

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

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

9-11-87

Date of Issuance

File

PERMIT TO CONSTRUCT

PERMIT NO. 87-357
SEE SPECIAL CONDITIONS

- New
- Renewal
- Modified

Torrington 20th Street Water System Improvements

This permit hereby authorizes the applicant:

Town of Torrington
P O Box 250
Torrington, WY 82240

to construct, install or modify 8 inch water main according to the procedures and conditions of the application number 87-357. The facility is located in S10, T24N, R61W in the county of Goshen, 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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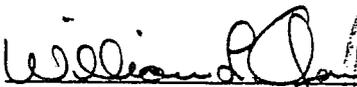
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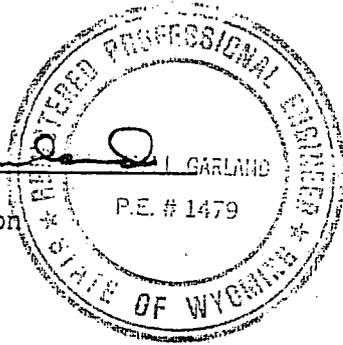
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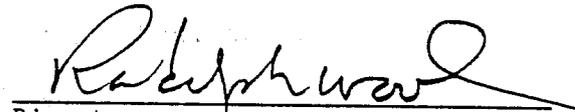
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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

10-5-87

Date of Issuance

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

Conditions to Permit to Construct #87-357

1. The installed pipe will be pressure and leakage tested in accordance with AWWA standard C600.
2. All new pipe shall be disinfected in accordance with AWWA standard C601.
3. The crossing of the six inch sanitary sewer between East C and East D Streets shall have a vertical separation of 1.5 feet or the water line placed in a separate conduct pipe.

cc: John T. Baker, Baker & Associates, 1915 First Avenue, Scottsbluff, NE 69361

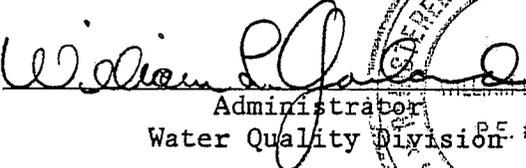
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

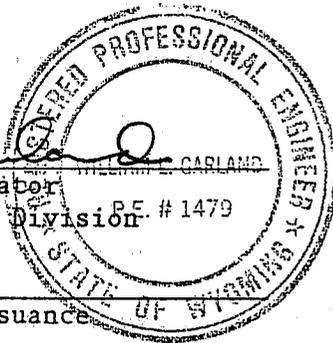
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AUTHORIZED BY:



Administrator
Water Quality Division P.E. # 1479
9-21-87

Date of Issuance





Director
Dept. of Environmental Quality

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

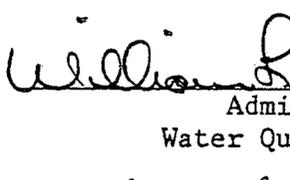
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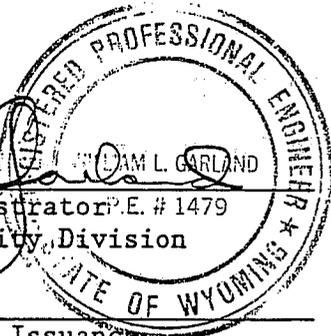
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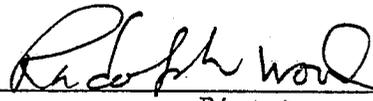
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AUTHORIZED BY:


ADMINISTRATOR P.E. # 1479
Water Quality Division
10-5-87
Date of Issuance




Director
Dept. of Environmental Quality

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

CONDITION ON PERMIT

If the disposal field layout needs to deviate from the authorized design due to problems encountered during excavation, the total field area must be equal to the design. As-builts of the facility must be submitted to this office within 30 days of completion of the project if the construction deviates from the authorized plans.

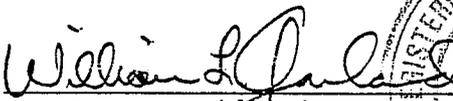
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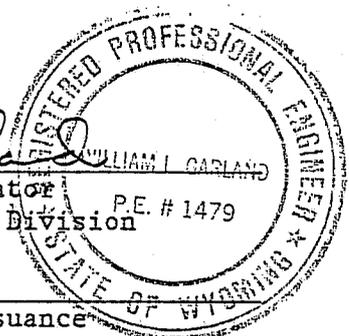
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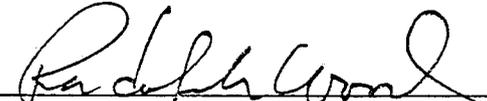
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:


Administrator
Water Quality Division
P.E. # 1479
10-14-87
Date of Issuance




Director
Dept. of Environmental Quality

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

CONDITIONS ON PERMIT

This permit is issued allowing an existing well to be located about 50 feet from the southern most proposed leach field. The well is to be used for irrigation only.

The well must be abandoned in accordance with the Water Quality Rules and Regulations, Chapter XI unless the following conditions are met:

1. The well must be tested for fecal coliform bacteria yearly and the records maintained for DEQ and Teton County review.
2. The fecal coliform level must not exceed 100 colonites/liter.
3. The well must be used for irrigation only and not connected to any point of use other than irrigation.
4. The well must be signed "For Irrigation Only" or "Non-Potable Water".



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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) 777-7752	Water Quality Division (307) 777-7781
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November 16, 1987

Steve Merritt
Compliance Specialist
Chevron USA
Box 220
Seattle, WA 98111

RE: 87-361 As-built authorization

Dear Mr. Merritt:

Your submittal for the test holes at the Mountain View Chevron site in Casper has been reviewed and are accepted for record (DEQ/WQD Ref. No. 87-361) with the following conciliations.

1. The contaminated material taken out of the excavation when installing the new diesel tank shall be taken to the Casper landfill. Prior arrangements between Chevron and the landfill will be needed.
2. All heavily contaminated material within the waste oil tank area shall be excavated and hauled to the Casper landfill. The division shall be notified one week prior to this excavation so division personnel can be on-site.
3. The division is also requesting that the location of all the wells within a one half mile radius, down gradient of the site be provided. (NE through SW quadrant of a half mile radius circles). If any domestic wells are located near the site and have the potential to become contaminated, further investigation and monitoring will be required.

Since the investigation took place prior to submitting an application to construct test holes a permit to construct cannot be issued. However, this letter of approval serves essentially the same purpose.

If you have any questions, please feel free to contact met at 777-7781.

Sincerely,

William L. Garland, P. E.
Administrator

Water Quality Division

WLG/TP/mad

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

file

THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

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) 777-7752

Water Quality Division
(307) 777-7781

October 16, 1987

T. Michael Casey
Planning Director
Planning Office
405 Grand Avenue
Laramie, Wyoming 82070

Dear Mike:

Enclosed is permit 87-362R for improvements to the water supply system serving Albany County Fairgrounds. The original application included provision for the installation of an air gap device at the Albany County Weed and Pest Control. The revised application omitted any provision for the air gap. The county should take steps to obtain a permit to construct an appropriate cross connection control device at the Weed and Pest Control facility.

Sincerely,

Larry Robinson
Engineering Supervisor
Water Quality Division

LR/jn

Enclosure

cc: Robert Juve, City Engineer
Wes Bressler, Water/Wastewater Superintendent

PERMIT TO CONSTRUCT

PERMIT NO. 87-362
SEE SPECIAL CONDITION

X New
Renewal
Modified

WATER SYSTEM IMPROVEMENTS - ALBANY COUNTY FAIRGROUNDS

This permit hereby authorizes the applicant:

City of Laramie
P. O. Box C
Laramie, Wyoming 82070

to construct, install or modify a meter, meter vault and 2-inch service connection according to the procedures and conditions of the application number 87-362. The facility is located in Section 9, T15N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of 2 (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.

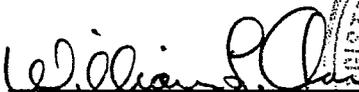
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

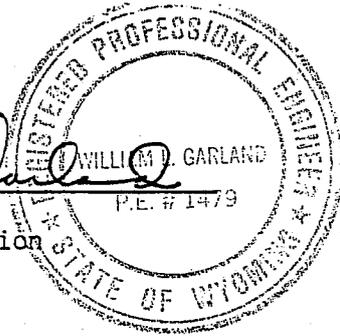
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

10-22-87
Date of Issuance

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

Special Condition for Permit to Construct 87-362

A check valve shall be provided in the 2-inch service line to the Albany County Activity Center.

cc: Robert D. Juve, City Engineer
Wes Bressler, Water/Wastewater Superintendent

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Albany County Fairgrounds, Improvements to Water Supply System

ARCHITECT OR ENGINEER: Robert D. Juve

APPLICANT: City of Laramie/Albany County

WATER QUALITY DIVISION REFERENCE NUMBER: 87-362

REVIEWING ENGINEER: Larry Robinson *LR*

DATE OF REVIEW: October 6, 1987

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Provide three copies of application, plans and specifications.
2. Plans do not indicate depth of meter vault. Groundwater is high in this area and may be a problem. Address the need for a sump to dewater the vault.
3. Specify that excavation and backfill of the service line will be in accordance with Sections 303 and 201 of the Wyoming Public Works - Standard Specifications - 1984 Edition.
4. Provide description of any other services which may require a cross connection control device. Are there cleaning and water truck loading or any other activities at the County Road and Bridge Shop which may require a backflow device?
5. Is it acceptable to interrupt service to the Albany County Activity Center if repairs are required to the area served by the existing 6 inch line from the meter vault to the west? If not an additional valve is required. The same comment applies to the existing 10 inch line and the entire service area serviced through the meter vault.
6. Why is the double check valve required in the meter vault? Are there potential sources of contamination? If so they should be identified and properly isolated?
7. A check valve is required in the service line to the Albany County Activity Center.

/jt

PERMIT TO CONSTRUCT

[] New
[] Renewal
[X] Modified

Permit No. 87-363R
Ref.: 83-535

BELLE AYR MINE SEWAGE SYSTEM
(Name of Facility)

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

AMAX Coal Company

P. O. Box 3005

Gillette, Wyoming 82716

to construct, install, or modify a domestic septic facility according to the procedures and conditions of the application No. 87-363R. The facility is located in Sections 34 & 35, T.48N., 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.

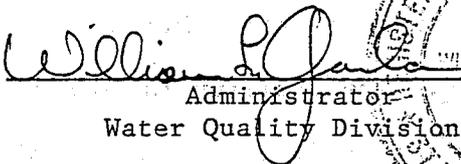
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

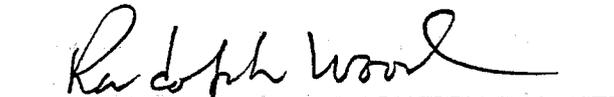
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
Department of Environmental Quality

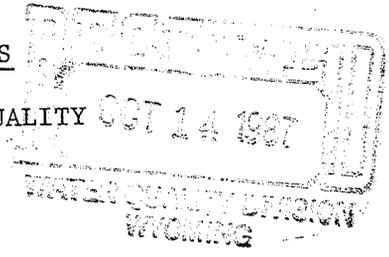
12-9-87
Date of Issuance

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

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
2161 Coffeen Avenue, Suite 501
Sheridan, Wyoming 82801



PROJECT: Belle Ayr Mine Sewage System Modifications

ARCHITECT OR ENGINEER: Frank Ferris
AMAX Coal Company
P. O. Box 3005
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBER: 87-363

REVIEWING ENGINEER: ^{SF} Susan Fields

DATE OF REVIEW: October 12, 1987

ACTION: Not Authorized

COMMENTS:

- 1) The settings for the pump in the sump box must be specified. These should include on, off and high water alarm settings.
- 2) What is the capacity of the pump specified?
- 3) Can the pump be removed without entering the sump box?
- 4) Will the seven foot bury totally eliminate freezing of the pipeline? It may be a good idea to provide a weep hole to allow drainage back into the sump box.

R.F.



THE STATE

OF WYOMING

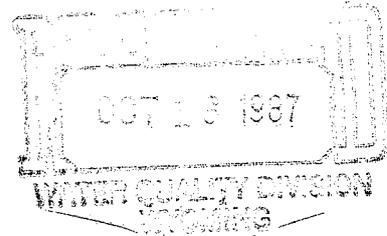


Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

October 14, 1987



Mr. Jeff Hostetler
TriHydro Corporation
410 Grand Avenue, Suite 213
Laramie, Wyoming 82070

Re: Hydrocarbon Recovery System, Gillette Kwik Shop #282
Water Quality Application #87-364

Dear Jeff:

I have completed my review of your application and found that the system meets minimum State of Wyoming standards. Because a Permit to Construct can not be issued for a system that is already installed, this letter will serve as formal as-built approval. This approval includes certain operational and abandonment conditions that are itemized as follows:

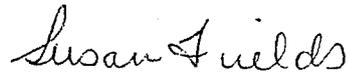
- 1) Groundwater pumped from R-1 shall be disposed at Jim's Water Service, Blake's Pit, located in Section 1, T.50N., R.71W., Campbell County, Wyoming. Any recoverable free product shall be separated and disposed at an appropriate facility.
- 2) A status report shall be provided to the Division on a quarterly basis. Reports are due within 30 days of the end of the quarter, or by the last day of January, April, July and October. The reports shall include, at a minimum, volume of water pumped, dates of pumping, evaluation of the effectiveness of recovery and any monitoring data generated during the quarter.
- 3) The monitor wells shall be sampled annually, at a minimum, or more frequently if necessary to determine effectiveness of recovery. Analyses shall include total hydrocarbons, benzene, ethylbenzene, toluene and xylene (betx).
- 4) In the event the system does not operate as planned or effectively recover the gasoline product layer, provisions shall be made for correcting the deficiencies. In any event, the hydrocarbon product and related dissolved constituents shall be recovered and cleaned up in a timely and diligent manner until released by Department of Environmental Quality, Water Quality Division.

Mr. Jeff Hostetler
October 14, 1987
Page Two

- 5) All wells will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations.
- 6) Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.

Please maintain this letter with your records for this system as it is the only approval document you will receive. Please feel free to contact me if you have questions or comments.

Sincerely,



Susan Fields
Northeast District Supervisor
Water Quality Division

SF:jj

xc: Jake Strohman, Groundwater Section, Cheyenne
Norma Coulson, Cheyenne

LAND APPLICATION PERMIT

(ONE TIME ONLY)

Permit No. 87-365

Tierney S-24 One Time Road Application
(Name of Facility)

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

Marathon Oil Co.

P.O. Box 2690

Cody, WY 82414

to land apply approximately 600 barrels domestic water and silt from holding tank
bottoms on approximately 2 miles of roads as identified in the permit application

The application site is located in NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 24, T19N, R94W

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
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.

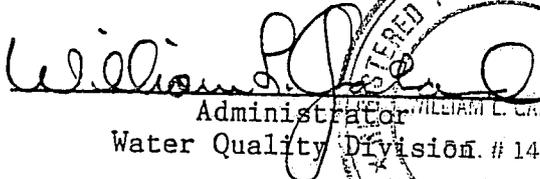
Nothing in this permit constitutes an endorsement of the disposal method described
herein. This permit indicates only that standards required by the Environmental
Quality Act have been met. The state assumes no liability for, and does not in
any way guarantee the performance of, the permittee in the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

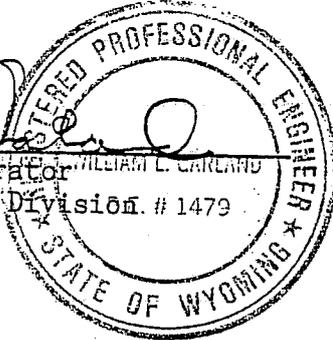
The permittee shall allow authorized representatives from the Department of
Environmental Quality, Water Quality Division, upon the presentation of
credentials and during working hours, to have access to inspect the application
site at the above location, for the purpose of compliance with the provisions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

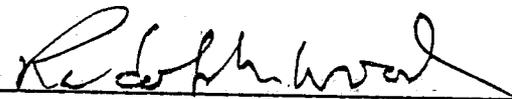
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division # 1479




Director
Dept. of Environmental Quality

10-5-87

Date of Issuance

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 87-366R
Ref. 81-1

JRM SEDIMENT POND NO. 6-1 RESERVOIR
(Name of Facility)

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

Kerr-McGee Coal Corporation

Caller Box 3013

Gillette, Wyoming 82716

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 87-366R. The facility is located in Section 6, T.43N., R.69W., 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.

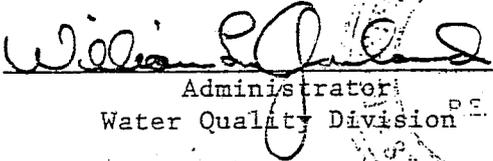
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

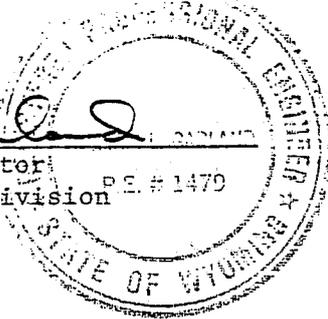
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

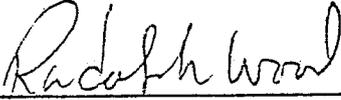
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division P.E. # 1479





Director
Department of Environmental Quality

10-22-87

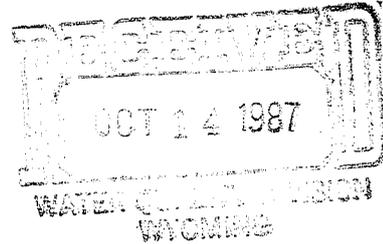
Date of Issuance

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

xc: Doyl M. Fritz
Western Water Consultants, Inc.
P. O. Box 3042
Sheridan, Wyoming 82801

normal

MEMORANDUM



TO: Bob Giurgevich, LQD
Review File: 87-366 Ref. 81-1

FROM: *SF* Susan Fields, WQD

DATE: October 13, 1987

SUBJECT: Review of Jacobs Ranch 6-1 Reservoir, WQD Reference 87-366

I completed my review of the Water Quality application for subject reservoir on October 12, 1987. I have the following comments:

- 1) 6-1 Reservoir is currently included in the mine's NPDES discharge permit as Point 005. The submittal does not adequately address flow measurement capabilities if the reservoir is to remain a permitted discharge point. The applicant has two options: 1) request withdrawal of Point 005 from the permit, or 2) provide flow measurement capabilities in the application. If Point 005 is withdrawn, the application is adequate and can be approved.
- 2) I need three additional copies of the drawings in order to complete the permitting process.

I spoke with Darryl Maunder of Kerr-McGee on October 12, 1987, and relayed these comments to him. He will discuss the need to maintain Point 005 with his staff and provide me with either a letter requesting withdrawal or design of flow measurement equipment. He will also forward the additional copies of plans to me.

I will keep you notified of Water Quality approval of this facility.



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

March 16, 1988

Town of Fort Laramie
P O Box 177
Fort Laramie, WY 82212

RE: Application for Permit to Construct #87-367, Town of Fort Laramie, Waste Treatment Facility, Goshen County

Dear Sir or Madam:

Your application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and punishable with fines not to exceed \$10,000 per day of violation. If this project has already been constructed, it is your responsibility to immediately contact this office for further instruction. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules and Regulations, must be followed.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/DM/nc

STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY/WATER QUALITY DIVISION
UNDERGROUND INJECTION CONTROL PERMIT

TRANSFER OF RESPONSIBILITY

PART I

As present owner/operator Tenneco Minerals Company (name) hereby applies to the Administrator to transfer the operation and all associated responsibilities of the permit described in full on the reverse side.

David R. Delling
Printed name of person signing
President
Title

David R. Delling
Signed
1-28-92
Date

PART II

As potential transferee Tenneco Soda Ash Joint Venture (TSAJV) (name and address) agrees to be bound by all the terms and conditions of the permit described on the reverse side. (In addition, the potential transferee must complete this form to show financial responsibility.) If this permit is presently out of compliance, the potential transferee agrees to bring the operation into compliance according to the (schedule, agreement, letter, notice, _____) identified and dated __/__/__.

David R. Delling
Printed name of person signing
Chairman
Title

David R. Delling
Signed
1-28-92
Date

=====

APPROVAL FOR TRANSFER OF RESPONSIBILITY

Reference Permit # UIC 87-368

TO: Tenneco Soda Ash Joint Venture
P. O. Box 1167
Green River, WY 82935
(new/present owner/operator)

Tenneco Minerals Company
P. O. Box 1167
Green River, WY 82935
(former owner/operator)

This transfer for permit UIC 87-368 is approved effective on the later of the two dates below:

William D. Jones
Administrator - Water Quality Division

January 30, 1992
Date

Chris [Signature]
Director - Department of Environmental Quality

January 30, 1992

MISCELLANEOUS FINANCIAL REPORT

NAME OF FACILITY Tenneco Soda Ash Plant/Trona Mine

LOCATION (T, R, SEC., $\frac{1}{4}$ $\frac{1}{4}$; COUNTY) 18N, 109W, 31, NE, NE, Sweetwater

PERMIT NUMBER, IF ISSUED UIC 87-368

PRESENT OWNERS NAME AND ADDRESS Tenneco Soda Ash Company and AG Soda Corp., a Wyoming partnership whose partners are both Delaware Corporations

=====
CERTIFICATION OF FINANCIAL RESPONSIBILITY
=====

The above-named owner(s) has adequate financial resources for dealing with the above identified GPC discharge (injection) well(s) and system(s) which either may be improperly abandoned or may otherwise cause pollution and contamination of groundwater sources, and with incomplete or inadequate groundwater pollution reduction or elimination.

Submitted with this document, as proof of adequate financial resources is (check and submit one of the following):

- (X) A copy of the latest Annual Corporation Report to the Wyoming Secretary of State which shows Nature and Value of Assets and copies or relevant instruments or statements which show liabilities, and accounts and goods as collateral; or
() Balance Sheet showing Assets and Liabilities, Owner's Equity and Statements of Operations for the most recent three years.

=====
SIGNATORIES REQUIREMENT FOR CERTIFICATION OF FINANCIAL RESPONSIBILITY
=====

The Certification 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.

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.

David R. Delling
Printed name of person signing

1-28-92
Date signed

Chairman, Tenneco Soda Ash Joint Venture
Title

[Signature]
Signature

MISCELLANEOUS FINANCIAL REPORT

NAME OF FACILITY _____

LOCATION (T, R, SEC., $\frac{1}{4}$ $\frac{1}{4}$; COUNTY) _____

PERMIT NUMBER, IF ISSUED _____

PRESENT OWNERS NAME AND ADDRESS _____

=====

CERTIFICATION OF FINANCIAL RESPONSIBILITY

The above-named owner(s) has adequate financial resources for dealing with the above identified GPC discharge (injection) well(s) and system(s) which either may be improperly abandoned or may otherwise cause pollution and contamination of groundwater sources, and with incomplete or inadequate groundwater pollution reduction or elimination.

Submitted with this document, as proof of adequate financial resources is (check and submit one of the following):

- () A copy of the latest Annual Corporation Report to the Wyoming Secretary of State which shows Nature and Value of Assets and copies or relevant instruments or statements which show liabilities, and accounts and goods as collateral; or
- () Balance Sheet showing Assets and Liabilities, Owner's Equity and Statements of Operations for the most recent three years.

=====

SIGNATORIES REQUIREMENT FOR CERTIFICATION OF FINANCIAL RESPONSIBILITY

The Certification 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.

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.

Printed name of person signing

Title

Date signed

Signature

STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY/WATER QUALITY DIVISION

UNDERGROUND INJECTION CONTROL PERMIT

TRANSFER OF RESPONSIBILITY

PART I

As present owner/operator Tenneco Minerals (name) hereby applies to the Administrator to transfer the operation and all associated responsibilities of the permit described in full on the reverse side.

SIGNATURES ARE ON ATTACHED LETTER

Printed name of person signing _____

Signed _____

Title _____

Date _____

PART II

As potential transferee Tenneco Soda Ash Joint Venture, C/O Tenneco Soda Ash Company, #1 Westvaco Road, P.O. Box 1167, Green River, Wyoming 82935 (name and address) agrees to be bound by all the terms and conditions of the permit described on the reverse side. (In addition, the potential transferee must complete this form to show financial responsibility.) If this permit is presently out of compliance, the potential transferee agrees to bring the operation into compliance according to the (schedule, agreement, letter, notice, _____) identified and dated __/__/__.

SIGNATURES ARE ON ATTACHED LETTER

Printed name of person signing _____

Signed _____

Title _____

Date _____

=====

APPROVAL FOR TRANSFER OF RESPONSIBILITY

Reference Permit # 87-368

TO: Tenneco Minerals _____

and Tenneco Soda Ash Joint Venture _____

P.O. Box 1167 _____

C/O Tenneco Soda Ash Company _____

Green River, WY 82935 _____

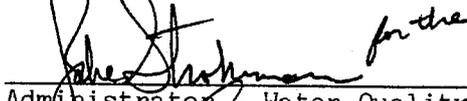
P.O. Box 1167 _____

(new/present owner/operator)

Green River, WY 82935 _____

(former owner/operator)

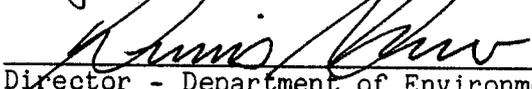
This transfer for permit UIC 87-368 is approved effective on the later of the two dates below:



Administrator - Water Quality Division

10-2-90

Date



Director - Department of Environmental Quality

10-5-90

Tenneco Minerals
A Tenneco Company

P. O. Box 1167
Green River, Wyoming 82935
(307) 875-6500



September 4, 1990

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
250 Lincoln
Lander, WY 82520

RE: TENNECO MINERALS COMPANY'S Permit to Inject

Dear Mr. Locke:

Tenneco Soda Ash Company ("TSAC"), a wholly-owned subsidiary of Tenneco Minerals Company ("Tenneco"), and AG Soda Corporation have formed Tenneco Soda Ash Joint Venture, a Wyoming general partnership (the "Joint Venture"), to carry on the soda ash operations at the soda ash plant and trona ore mine located near Green River, Wyoming. As part of this transaction, it is proposed that Tenneco will assign GPC 87-368, Permit to Inject to the Joint Venture as owner of the soda ash plant and trona ore mine. As part of the transfer of the Permit, the Joint Venture does accept, and agree to be bound by, all of the terms and conditions of the Permit.

Tenneco and the Joint Venture hereby request that you consent to the transfer of the Permit to the Joint Venture for all purposes. The Permit should be reissued in the name of:

Tenneco Soda Ash Joint Venture
C/O Tenneco Soda Ash Company
P. O. Box 1167
#1 Westvaco Road
Green River, Wyoming 82935

Please evidence your consent to the transfer of the Permit to the Joint Venture by signing in the space provided on each copy of the enclosed copies of this letter and returning two copies to the address set forth above for Tenneco Soda Ash Joint Venture.

Tenneco Minerals

Wyoming Department of Environmental Quality
September 4, 1990
Page 2

Please feel free to call C. L. (Bud) Preston,
Environmental Engineer at (307) 872-6521 if you have any
questions concerning the foregoing.

Very truly yours,

TENNECO MINERALS COMPANY

By Richard A. Hodgson
Richard A. Hodgson
Vice President

TENNECO SODA ASH JOINT VENTURE

BY TENNECO SODA ASH COMPANY,
GENERAL PARTNER

By David R. Delling
David R. Delling
President

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY consents to the
transfer of GPC 87-368, Permit to Inject to Tenneco Soda
Ash Joint Venture as described above.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

BY: _____

TITLE: _____

DATE: _____



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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) 777-7752	Water Quality Division (307) 777-7781
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November 6, 1987

Mary Litus, Environmental Engineer
Tenneco Minerals Company
P O Box 1167
Green River, WY 82933

RE: Tailings Placement Underground Permit to Inject GPC 87-368

Dear Ms. Litus:

Item G of your permit requires that you "control the injection pressure to prevent fracturing of the confining strata." Water Quality Division interprets this provision to be met since you are placing the tailings underground at atmospheric pressure. The permit is hereby amended to delete the words "and monitor" from the sentence "Discharge (injection) volume and or pressure shall be controlled ~~and monitored~~ to prevent fracturing of the "confining strata."

The permit is hereby amended to substitute "The total volume or tonnage of tailings placed underground will be calculated monthly and reported in the annual report to Land Quality."

The permit is hereby amended to require only those pipeline that are accessible underground to be removed prior to abandonment of the system.

Enclosed please find one copy of the amended permit GPC 87-368.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RL/mad

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

87-368
UIC CLASS V

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),

Tenneco Minerals
P. O. Box 1167
Green River, WY 82935

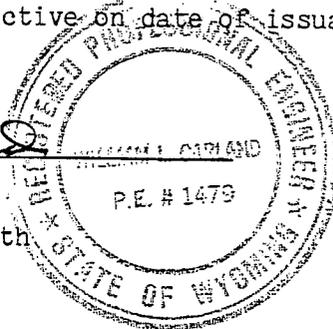
is authorized to operate

Underground disposal of tailings into mined out spaces of the Tenneco Trona Mine, located in the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$, S31, T18N, R109W, in Sweetwater County, Wyoming.

according to procedures and conditions of the application 87-368 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

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



Nov 9, 1987
Date

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

Nov. 9, 1987
Date

A. Discharge (Injection) Zone and Area of Review

The injection zone is limited to mined out portions of the Tenneco Trona Mine near Green River, Wyoming.

B. Groundwater Classification

1. There is, for all practical puposes, no groundwater in the mined out portions of the trona mine.
2. If there was groundwater in this mined out trona bed it would be saturated with sodium carbonate, and therefore would be class VI groundwater.

C. Authorized Operations

The permittee is authorized to inject tailings from the surface processing plant into mined out spaces of the underground trona mine. The tailings consist primarily of shale partings found within the trona. No drill holes will be used for delivery. Delivery will be through a pipeline mounted in the shaft. If drill holes are needed in the future, a permit modification will be required.

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:

Since this activity is totally within a Land Quality permit to mine, no additional monitoring will be required by Water Quality Division.

G. Requirements for Monitoring the Discharge

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

The total volume or tonnage of tailings placed underground will be calculated monthly and reported as part of the annual report to Land Quality.

The permittee shall extract those sections of the annual report to Land Quality that deal with this system and submit them to Water Quality Division.

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 at the same time as the annual report to the Land Quality Division.
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 this 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.

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:

Because the entire tailings delivery line is available for inspection, a mechanical integrity test is not required. The permittee will be required to make an annual inspection of the entire tailings line and submit the results in the annual report to Land Quality Division.

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.

After permanent abandonment, the accessible underground pipelines shall be dismantled and removed from the mine.

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:

The bond required by the Wyoming Department of Environmental Quality, Land Quality Division covers this system.

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.

Financial Responsibility has been demonstrated by the posting of a reclamation bond covering the entire project. This bond is required by the Wyoming Department of Environmental Quality, Land Quality Division.

O. Special Measures the Director Finds Necessary:

Decanted water shall be controlled by placing it in the existing tailings pond or recycling it back through the plant. This water shall not be discharged unless an NPDES permit is obtained first.

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.



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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) 777-7752

Water Quality Division
(307) 777-7781

September 22, 1987

M.S. Litus
Environmental Engineer
Tenneco Minerals
P. O. Box 1167
Green River, WY 82935

RE: 87-368 Class V UIC

Dear Ms. Litus:

Enclosed find two copies of your permit application for underground disposal of trona mining tailings. We have reviewed this application and find it complete as required by Chapter IX of Wyoming Water Quality Rules and Regulations.

You will be required to monitor the physical condition of the discharge lines and record the volume or tonnage of tailing emplaced.

You will be required to submit an annual report extracted from your Land Quality Division Annual Report on this phase of your operations.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RL/mad
Enclosures

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

(X) New

Permit Number:

() Modified

87-368
UIC CLASS V

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),

Tenneco Minerals
P. O. Box 1167
Green River, WY 82935

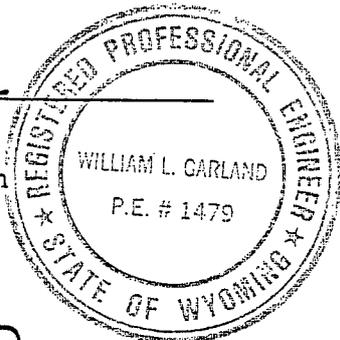
is authorized to operate

Underground disposal of tailings into mined out spaces of the Tenneco Trona Mine, located in the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$, S31, T18N, R109W, in Sweetwater County, Wyoming.

according to procedures and conditions of the application 87-368 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

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



September 28, 1987
Date

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

10 - 5 - 87
Date

A. Discharge (Injection) Zone and Area of Review

The injection zone is limited to mined out portions of the Tenneco Trona Mine near Green River, Wyoming.

B. Groundwater Classification

1. There is, for all practical puposes, no groundwater in the mined out portions of the trona mine.
2. If there was groundwater in this mined out trona bed it would be saturated with sodium carbonate, and therefore would be class VI groundwater.

C. Authorized Operations

The permittee is authorized to inject tailings from the surface processing plant into mined out spaces of the underground trona mine. The tailings consist primarily of shale partings found within the trona. No drill holes will be used for delivery. Delivery will be through a pipeline mounted in the shaft. If drill holes are needed in the future, a permit modification will be required.

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:

Since this activity is totally within a Land Quality permit to mine, no additional monitoring will be required by Water Quality Division.

G. Requirements for Monitoring the Discharge

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

The total volume or tonnage of tailings shall be recorded daily and reported month by month as part of the annual report to Land Quality.

The permittee shall extract those sections of the annual report to Land Quality that deal with this system and submit them to Water Quality Division.

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 at the same time as the annual report to the Land Quality Division.
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 this 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.

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:

Because the entire tailings delivery line is available for inspection, a mechanical integrity test is not required. The permittee will be required to make an annual inspection of the entire tailings line and submit the results in the annual report to Land Quality Division.

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.

After permanent abandonment, the pipelines shall be dismantled and removed from the mine. Underground pipelines shall not be abandoned in place.

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:

The bond required by the Wyoming Department of Environmental Quality, Land Quality Division covers this system.

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.

Financial Responsibility has been demonstrated by the posting of a reclamation bond covering the entire project. This bond is required by the Wyoming Department of Environmental Quality, Land Quality Division.

O. Special Measures the Director Finds Necessary:

Decanted water shall be controlled by placing it in the existing tailings pond or recycling it back through the plant. This water shall not be discharged unless an NPDES permit is obtained first.

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.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 87-369
SEE SPECIAL CONDITIONS

BURLINGTON NORTHERN RAILROAD YARD MONITORING WELLS
(Name of Facility)

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

Burlington Northern Railroad Company

P. O. Box 17150

Denver, Colorado 80217

to construct, install, or modify groundwater monitoring wells and test hole facility according to the procedures and conditions of the application No. 87-369. The facility is located in Section 23, T.56N., R.84W., in the County of Sheridan, 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 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.

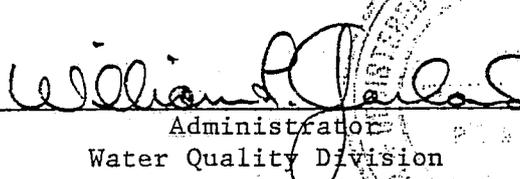
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

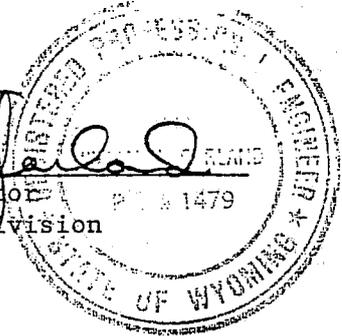
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

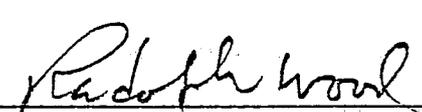
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
P.E. # 1479





Director
Department of Environmental Quality

10-5-87

Date of Issuance

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

SPECIAL CONDITIONS

1. Well logs, soil logs and well completion details shall be submitted to the DEQ/WQD within thirty (30) days of completion of installing monitor wells. A map showing the well locations shall also be included.
2. The Water Quality Division shall be notified thirty (30) days prior to plugging and abandonment of the monitor wells. Plugging and abandonment shall be in accordance with the requirements of Chapter XI, Wyoming Water Quality Rules and Regulations.

xc: Jake Strohman, DEQ, Cheyenne
Matt Langenfeld, DEQ, Cheyenne
Gerald Zimpfer
Engineering-Science, Inc.
1100 Stout St., Suite 1100
Denver, CO 80204



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

January 8, 1991

Doug Kissack
Kissack Water and Oil Service, Inc.
P.O. Box 9
Rozet, Wyoming 82727

RE: Horse Creek Federal 1-8
Permit UIC 88-018, Class I
Weston County, Wyoming

RE: Shell Fox #1
Permit UIC 87-370, Class I
Campbell County, Wyoming

Dear Mr. Kissack:

Enclosed please find one copy of the analyses on the injected wastewater taken during the last annual inspection on 6/27/90. These analyses show that the wastewater contains the components which one would expect in oilfield produced water, namely Benzene, Ethylbenzene, Toluene, Xylenes, and Phenols. These waste streams also contained traces of silver on the day sampled.

The unexpected result of this analyses is that both lead and cadmium were detected at levels high enough to be worth monitoring. Until further notice, please have the injectate at the Horse Creek Federal 1-8 analyzed quarterly for both cadmium and lead. Cadmium would be considered hazardous waste at a level of 1.0 mg/l and lead would be considered hazardous waste at a level of 5.0 mg/l. You may substitute these analyses for the routine water analyses that you have been performing. Due to the lead time required for these analyses, samples should be taken no later than the end of the first month of each calendar quarter.

Sincerely,

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

RL/jt

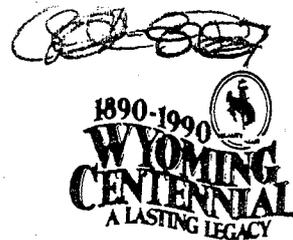
xc: Jake Strohman



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

87-570



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) 777-7752	Water Quality Division (307) 777-7781
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September 25, 1987

Joan M. Young
Laramie Land Company
2020 Grand, Suite 442
Laramie, Wyoming 82070

Dear Ms. Young:

Enclosed are your applications for an as built approval for the Smithson small wastewater system. The system as constructed apparently does not meet state regulations which require a minimum separation distance of 4 feet from the bottom of the stone and the seasonal high groundwater level.

This office has delegated permitting authority for small wastewater facilities to the Albany County Planning Office. Please contact the county to determine what is required to bring the existing system into compliance. The county will perform an on-site inspection and assist you in resolving this matter.

Sincerely,

Lawrence Robinson
Engineering Supervisor
Water Quality Division

LR/jn

cc: Joel Coffey, Associated Engineers
Mike Casey, Albany County Planning Office

file

PERMIT TO CONSTRUCT

PERMIT NO. 87-371
SEE SPECIAL CONDITIONS

- New
- Renewal
- Modified

BAGGS SEWER REPLACEMENT

This permit hereby authorizes the applicant:

Town of Baggs
P O Box 300
Baggs, Wyoming 82321

to construct, install or modify a six inch PVC sewer line according to the procedures and conditions of the application number 87-371. The facility is located in NE $\frac{1}{4}$, SE $\frac{1}{4}$, Section 5, T12N, R91W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of 2 (two) (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.

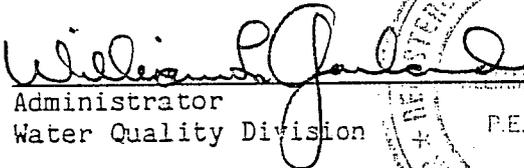
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

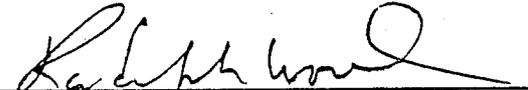
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-9-87
Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT 87-371

1. The Town of Baggs shall provide maintenance to insure 3 feet of cover and flushing to prevent deposition.
2. The line is a dead end and cannot be extended in the future.

cc: Charles E. Bartlett
Robert Jack Smith and Associates, Inc.
P. O. Box 1104
Rawlins, Wyoming 82301

ing 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, Wyoming 82520; telephone, 332-3144.

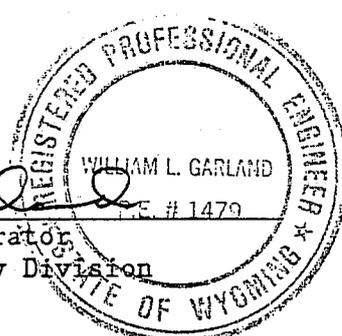
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

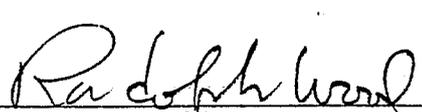
AUTHORIZED BY:



Administrator
Water Quality Division



10-9-87
Date of Issuance



Director
Dept. of Environmental Quality

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 87-373R

Kemmerer BLM Sewer Line
(Name of Facility)

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

Department of the Interior
Bureau of Land Management
P.O. Box 1828
Cheyenne, WY 82003

to construct, install, or modify a 8" diameter sewer main with 3-4" diameter
service connections

facility according to the procedures and conditions of the
application No. 87-373R. The facility is located in Tract 62 and 63, SEc. 13, T21N, R116W

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.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

ing 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.

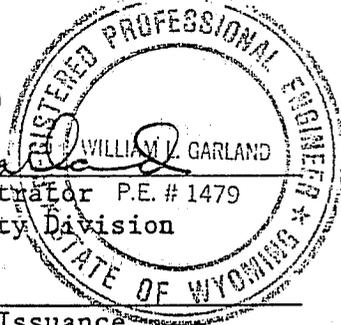
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

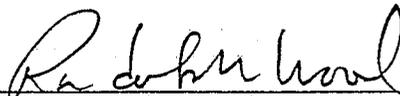
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
10-15-87
Date of Issuance




Director
Dept. of Environmental Quality

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

file

PERMIT TO CONSTRUCT

PERMIT NO. 87-374

- New
- Renewal
- Modified

West Laramie Water and Sewer Improvements

This permit hereby authorizes the applicant:

LaVern Smith
265 North 7th Street
Laramie, Wyoming 82070

to construct, install or modify municipal water distribution and sewer collection according to the procedures and conditions of the application number 87-374. The facility is located in Lots 1-3 Revised Block 30, NE 1/4, Section 31, T16N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of 2 (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.

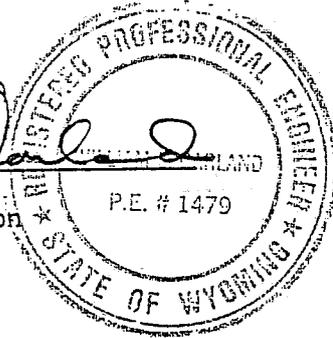
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

William L. Gale
Administrator
Water Quality Division



Rabab Wood
Director
Department of Environmental Quality

10-9-87
Date of Issuance

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

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 87-375
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

BROOKHURST/EVANVILLE RAW WATER INTAKE PROJECT

This permit hereby authorizes the applicant:

U.S. EPA
999 18th Street
Denver, Colorado 80202-2405

to construct, install or modify municipal new water intake, pumping station, transmission line, and sedimentation pond according to the procedures and conditions of the application number 87-375. The facility is located in Section 34, 35 and 36, T34N, R79W; Section 1 and 2, T33N, R79W 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.

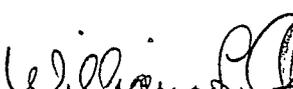
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

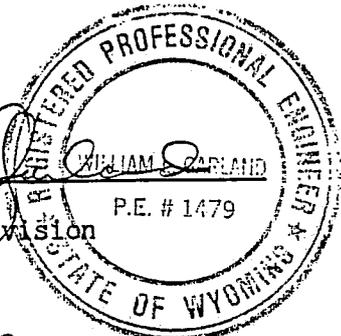
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

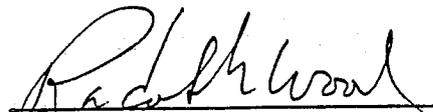
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division



REGISTERED PROFESSIONAL ENGINEER
WILLIAM D. GARLAND
P.E. # 1479
STATE OF WYOMING


Director
Department of Environmental Quality

1-5-88
Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT 87-375

1. An operation and maintenance manual must be authorized prior to start-up as specified in Section 16, Chapter XII, Wyoming Water Quality Rules and Regulations.

cc: Alan Edwards, State Planning Coordinator's Office
Town of Evansville
Tom Kady, EPA
Building 10
Woodridge Avenue
Edison, New Jersey 08837
Mike Cunningham, Riedel Environmental Services
P. O. Box 03096
Portland, Oregon 97203-0096

R.F.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Brookhurst/Evansville Raw Water Intake

ARCHITECT OR ENGINEER: Enviresponse
Environmental Emergency Response Unit
GSA Raritan Depot,
Woodbridge Avenue, Building 209 Bay F
Edision, N.J. 08837

APPLICANT: %Don Shosky
U.S. EPA, 999 18th St., Suite 500
Denver, Colorado 80202-2405

WATER QUALITY DIVISION REFERENCE NUMBER: 87-375R

REVIEWING ENGINEER: Thomas S. Norman *TBN*

DATE OF REVIEW: October 6, 1987

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

An Application form is required (attached).

Sediment Basin - 3 day D.T.

1. Specifications were not submitted.
2. Sheet 620098-1-51-11A is missing which shows the water line going to the sediment basin. Is there a bypass line which will go directly to the plant?
3. There is a concern for freezing problems with the pond as there will not be any water flowing through the pond at nights. The intake structure and overflow will freeze. Will this be a maintenance problem?

Will ice be a problem with the fiberglass baffles? I would expect 1-2 feet of ice in the pond by the time winter is over. I like the baffles because they increase efficiency but I need to know if they will survive the winter.

Also 1-2 feet of ice will decrease the available volume for detention time and settling. Would a deeper pond be better?

4. The clay liner should be overlaid with a material that will promote maintenance accessibility. The clay will take a long time to dry out and will not be compatible with sediment removal.
5. How will the intake concrete structure and pond be dewatered for maintenance purposes?

6. The inlet to the intake concrete structure should be raised up as the current elevation will interfere with settling and the sand storage area.
7. Sheet 620098-1-41-4A, Section B-B; the inlet from the intake structure into the pond needs erosion control all the way to the pond bottom and then discharge onto a pad.

Hydroclone

1. The effluent from the hydroclone cannot be discharged directly into the North Platte. The effluent can be discharged at grade into a shallow pond which would allow indirect seepage back into the river.

The suspended solids limit would be 30 mg/l. However, a non-point discharge (seepage) would not require a permit to discharge nor would a TSS limit be applicable. I am sure that any discharge that is filtered by the alluvium would be fairly clean.

Sediment Basin - 3 Hour D.T. Proposal

1. Your assumption that high turbidity is proportional to high solids does not correspond with the data. The sieve analysis for the high solids was taken on October 18, 1983 which shows only a sediment load of 26 mg/l at a flow rate of 1220 cfs. This would generally correspond with low flow periods and low NTU's.

On the other hand, the low solids data was obtained on May 6, 1983 with a river flow rate of 2600 cfs which would indicate higher flows and maybe a runoff event.

2. The October 18, 1983 sieve analysis is identified as "bed material sieve diameter". This seems to refer to the bed load of the river rather than the suspended solids in the water itself. This is also consistent with about half of the particle size being gravel size and larger. In fact there is some 1-inch size stones. Therefore the validity of this data is questionable and conclusions should not be based on this information.
3. Under secondary removal, item A; how was the 5% and 90% related to 5.44 ppm and 97 ppm, respectively. Under item B, how was the 100 ppm obtained.
4. I have contacted the Evansville's operators (Boyd and Russell) and both are not in agreement with a 3 hour polishing pond especially without sludge removal. The town had a small pond installed previously as a presediment pond and the short detention time (45 minutes) and lack of sludge removal made the pond totally useless. The pond was abandoned within a year.

The operators favor a larger pond to provide sediment storage and also to provide storage during periods of high turbidity or in case of spills in the river. The pond may not settle out the clays and silts but it would allow the town storage so that they could allow the highly turbid water to pass by the intake.

5. Under tertiary removal, 2 ¶; with the cold water and possibly a deeper pond, a 3 day storage will not degrade the water quality.
6. Under tertiary removal, 4 ¶; how was the 6ppm and 100 ppm obtained. I think

the units should be percentage (%) instead of ppm and then there is no way to compute solids volume.

I did talk to the town which stated that they removed approximately 4,000 gallons of sediment every 30 days from the flocculation tanks between May and September. This corresponds to 17.8 cubic feet of sediment per day in the flocculation tank which only has a detention time of 8.5 minutes at design flow. A longer detention time would produce considerable more solids.

CONCLUSIONS

1. The hydroclone cannot directly discharge to the river.
2. DEQ will not waive the 3 hour detention time without mechanical sludge removal.
3. DEQ could consider reducing the 3 day detention time for the following reasons:
 - a. The regulations do not specify whether the 3 day D.T. is based on ADF or PDF. Enviresponse has assumed PDF at 2 MGD. The presedimentation may be classified as "non-critical" as the plant has and can operate without it. Therefore, ADF may be the reasonable design flow.
 - b. The new inlet, hydroclone, and fiberglass baffles will reduce the amount of solids reaching the basis. Since there is not adequate particle size information, I would agree to a 33% increase in efficiency. Therefore, a pond of 2.0 MG may be justifiable (3 day D.T. X 1 MGD X 67% = 2.0 MG).
 - c. The town would like a couple of days of detention time to help with storage during emergencies and high turbidity periods. A 2.0 MG pond would provide at least 2 days of storage at average flows. High turbidity would generally be associated with precipitation which would mean no lawn watering. Therefore during high turbidity, the town would probably be operating at average daily flows rather than peak daily flows.

TSN/nc/jmt

cc: Town of Evansville
Don Shosky, EPA
Alan Edwards, SPC office

ing 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, Wyoming 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:


William L. Gault
Administrator P.E. # 1479
Water Quality Division
10-15-87
Date of Issuance

Rudolph Wood
Director
Dept. of Environmental Quality

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

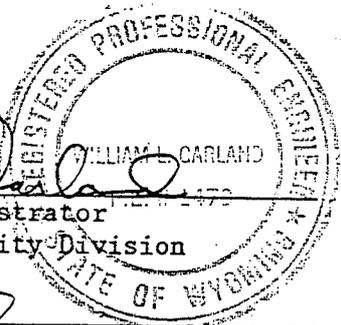
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, Wyoming 82520; telephone, 332-3144.

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AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
10-27-87
Date of Issuance

Ralph Wood
Director
Dept. of Environmental Quality

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

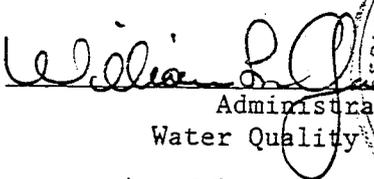
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, Wyoming 82520; telephone, 332-3144.

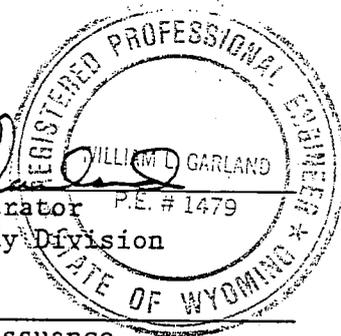
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

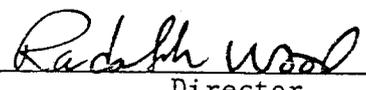
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division
10-29-87
Date of Issuance





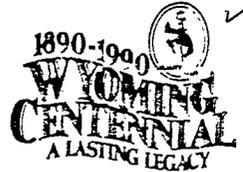
Director
Dept. of Environmental Quality

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



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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) 777-7752

Water Quality Division
(307) 777-7781

December 23, 1987

Doug Kissack
Kissack Water and Oil Service, Inc.
P. O. Box 46
Rozet, Wyoming 82727

Re: Federal Jessen 1-5N
GPC 87-379
UIC Class I

Shell Fox #1
GPC 87-380
UIC Class I

Dear Mr. Kissack:

Enclosed is a signed final permit authorizing operation of the Federal Jessen 1-5N and Shell Fox #1 disposal wells.

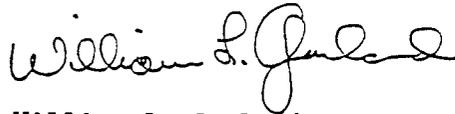
Please recall that new sources of industrial wastes must be identified and approved prior to the start of injection of these wastes; and prior to commencing injection of wastes other than produced water, the permittee shall submit complete organic and inorganic chemical analyses of each waste to be injected and receive prior authorization to inject. Please note: the injection of any waste defined as hazardous under 40 CFR 261.3 is not authorized. Enclosed are two copies of Form 10 for the annual report, and a supply of copies of Form 7 which should accompany the submittal of periodic reports or other information required by the permit. Any report or information submitted as a permit requirement must be accompanied by a completed Form 7. This includes analytical and other data submitted prior to approval of a new industrial waste for injection.

An adequate pressure test has been conducted and an absence of fluid movement in vertical channels was demonstrated by logging. Mechanical integrity will have to be demonstrated again no later than December 1, 1988, and sooner if required.

At the present time, all reports and submittals required by this permit must be signed by Doug Kissack (a principal executive officer of at least the level of vice-president). Another duly authorized representative (for signing reports) can be designated pursuant to Section Q of the permit.

This permit requires quarterly reports. Please read the permit carefully and contact Robert Lucht at 777-7095 if you have any questions about the required content of these reports. Please also contact him before beginning construction and before beginning injection.

Sincerely,



William L. Garland
Administrator
Water Quality Division

WLG/RL/jn

Enclosures

cc: Centennial Engineering, 237 N. Main, Suite 1, Sheridan, WY 82801 (w/permit)
Janie Nelson, OGCC, Casper (w/permit)
Richard Stockdale, SEO, Cheyenne (w/permit)
Paul Osborne, EPA, Denver (w/permit)
Susan Fields, DEQ/WQD, Sheridan (w/permit)
Jake Strohman, DEQ/WQD, Cheyenne

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

(X) New

Permit Number:

() Modified

GPC 87-379
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),

KISSACK WATER AND OIL SERVICE, INC.

P. O. Box 46

Rozet, Wyoming 82727

(307) 682-9026

is authorized to operate

The Federal Jessen 1-5N Disposal well, in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ S5, T47N, R68W, Weston County, Wyoming as a commercial well for the disposal of oil field produced water and other industrial wastes

according to procedures and conditions of the application GPC 87-379 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.



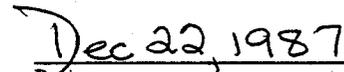
Administrator

Water Quality Division

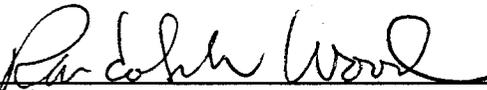
Herschler Building, 122 W. 25th

Cheyenne, WY 82002

Phone: (307) 777-7781


Date

Dec 22, 1987

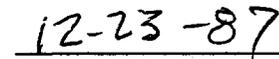


Director

Department of Environmental Quality

Herschler Building, 122 W. 25th

Cheyenne, WY 82002


Date

12-23-87

A. Discharge (Injection) Zone and Area of Review

The injection zone is within the Minnelusa Formation, and consists of the perforated intervals 8620-8645 below the surface. Injection and disposal into any other subsurface interval is not authorized without prior approval. Discharge to the surface is not authorized by this permit. Construction of a holding pond on the surface is specifically not authorized by this permit.

B. Groundwater Classification

The water in the injection zone is Class VI:

1. Groundwater is located so as to make normal use economically and technologically impractical;
2. Groundwater in the receiving formations is associated with accumulations of hydrocarbons;
3. The Federal Jessen, 1-5N is adjacent to the Horse Creek Federal #1-8 well that is used for the injection of oil-field produced water, as authorized by the Wyoming Department of Environmental Quality, Water Quality Division under permit 86-402 (Class I UIC).
4. The groundwater quality in the injection zone is in excess of 170,000 ppm in total dissolved solids.

C. Authorized Operations

The permittee is authorized to inject into the Minnelusa formation through perforations at 8620-8645 feet below the surface, oil field produced waters (sic 13) and other industrial wastes. Existing sources of produced water have been identified in the application for GPC 86-402. New sources will be identified prior to injection. Water Quality Division will allow all sources of water approved for GPC 86-402 to be injected into this well without separate review.

The permittee is authorized to inject certain other industrial wastes providing:

1. Hazardous waste as identified by EPA under 40 CFR 261.3 are not allowed under any circumstances.
2. Prior to injection of any other industrial waste, the permittee shall submit, in writing, a complete organic and in-organic chemical analysis for each waste to be injected. The submittal shall include the volume to be injected and the duration of this injection. Injection shall not commence without authorization of the Administrator.

The maximum discharge (injection) pressure shall not exceed 2,000 psi at the surface, or 200 psi less than the fracture pressure as

determined by a step injection test, whichever is greater.

The discharge (injection) rate will vary. The permittee shall obtain approval for a rate in excess of 2,000 barrels per day (84,000 gallons per day) of all wastes to be disposed of.

If at any time, the maximum authorized pressure or rate is exceeded, the 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 the permittee becomes aware of the circumstances.

The permittee is required to monitor the injection and annulus pressures and injection rate continuously. The annulus referred to here is the annulus between the 4½" long string and the tubing. Within 30 days after issuance of this permit, the permittee shall submit information which shows:

1. How injection and annulus pressures and injection rate will be recorded if continuous recording devices have not yet been installed;
2. A plan for installing continuous recording devices, or an alternate proposal; devices should be installed within 90 days of permit issuance.

The permittee shall notify the Water Quality Division when devices have been installed and are operational. This information shall also be included in the appropriate monthly operations report.

The annulus between the 7" intermediate string set at 5496' and the 4½" long string set at 8662' does not require a continuous monitoring device. This annulus shall be monitored once a quarter with a standard pressure gauge.

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 (Minnelusa Formation) is an oil producing formation overlain by the Goose Egg and Chugwater Formations which are considered to provide an impermeable layer more than 4 times thicker than the injection zone. The cover of all

formations separating this injection zone from the deepest source of useable water (Fort Union Formation) is 6600 feet, thus providing far in excess of 10 times the injection zone thickness in total cover. Because of the very great depth of the injection zone, and the relatively little use that near surface waters are being put, a monitoring program is not necessary.

G. Requirements for Monitoring the Discharge

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

Injection and annulus pressures and injection rate (volume) shall be monitored continuously. Records of maximum daily injection pressure and volumes shall be kept and be available for inspection by representatives of the Water Quality Division.

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 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 waste 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 that days operation.
3. A typical analysis of each new source of oil-field produced water. These analyses should include major cations and anions, pH, and TDS. A more detailed analysis may be required by the Water Quality Division if circumstances warrant such action.
4. A complete organic and in-organic analysis and volume of any waste other than oil-field produced water. No waste other than oil-field produced water may be injected without prior written authorization from the administrator.
5. Total volumes of formation produced water disposed. A list of leases that produced water is also required.
6. Any non-compliance, MIT, or significant event during the quarter. If quarterly reports should eventually show a record of being submitted late, the Administrator may substitute more stringent monthly report requirements.
7. The average injection pressure for each month calculated by averaging the maximum pressures for each date.

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. The annual report shall consist of the 4th quarterly report along with a summary of the year's operation. This summary shall include the maximum injection pressure for the year and the date on which it was reached, the maximum injected volume for the year and the date on which it was reached; the total volume of oilfield produced waters injected and the total volume of all other wastes injected. The annual report shall include significant events for the year such as Mechanical Integrity Tests, and any non-compliance with permit conditions.
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:

At a minimum of once a year 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 all components of the 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 2,500 psi on the annulus for 15 minutes hour. The permittee shall hold 400 psi on the annulus at all times.

At a minimum of once every 5 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.

Prior to injection of any fluid under this permit, the applicant shall demonstrate mechanical integrity of the well and the fluid tite condition of the surface facilities. A cement bond log was run July 5, 1983 on the intermediate string of 7 5/8" casing. This log shows excellent bonding from 4419 to the intermediate TD at 5496 feet. A cement bond log shall be run on the 4 1/2" long string from TD at 8651 to 5300 feet, unless a cement bond log has already been run on this section.

The casing-tubing annulus is filled with water mixed with

Halliburton AN-HIB corrosion inhibitor. Records of any fluids added to the annulus must be kept and submitted along with the quarterly report.

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

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.

The Federal Jessen #1-5N was drilled August 23, 1983 to a total depth of 8662 feet and then plugged back to 8651 feet. 327 feet of 9 5/8", K-55, 32# ST+C casing was installed in a 13 3/8" hole and cemented with 280 sacks Type G cement with 3% calcium chloride. The hole was then drilled out with a 9" bit to a depth of 5496 and cased using 69 joints of 32# K-55 and 16 joints of 29# K-55 ST+C casing. This string was cemented with 150 sacks 50/50 cement/pozzalin with 2% Gel. The well was then drilled to TD at 8662 and 4 1/2", 11.6# NSO casing was cemented in the 6" hole using 275 sacks of Ideal Type G cement. The well was perforated September 2, 1983, 2 holes per foot using 3 3/8" Hyper II jets, and again on September 13, 1983 using 3 1/8" Hi Performance jets. The well was again perforated October 24, 1983 using 3 1/8" DML jets. All perforations are in the interval 8620 to 8645 and there are a total of 72 perforations. The well was plugged back to 8651 using 50 sacks of Ideal Type G cement.

Injection will be through 2983.3 linear feet of 2 7/8" tubing and 5678.7 linear feet of 2 3/8" tubing with a packer set at a minimum of 8580 feet below the well head.

Top of cement was found around the 4 1/2" string at 7670' showing a total of 975 feet of cement, or 39 times the thickness of the injection zone.

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 shall be coordinated with requirements of the Wyoming Oil and Gas Conservation Commission. In no case shall the required abandonment procedure be less than that required by the Wyoming Oil and Gas Conservation Commission at the time of abandonment.

The Water Quality Division will require that a squeeze cementing operation be performed through the perforated interval, until no additional cement can be pumped. Fracture pressure of 2252 psi shall not be exceeded during this squeeze. After removing the tubing and packer, 200 sacks of cement shall be spotted on the bottom of the hole. In no case shall surface casing be recovered. If possible and desired, the remaining production casing may be cut 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 at the braden head flange and the dry hole marker can 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.

O. Special Measures the Director Finds Necessary:

The site shall be secured with a four strand barb wire fence with a

locking gate. This gate shall be locked during any extended period of inactivity.

Continuous recording devices to measure injection and annulus pressures and injection rate (volume) shall be installed and operational within 90 days following permit issuance. This system must be in operation or the permittee must manually collect all required data. This requires that the well be shut in or a supervisory person be at the well if operations are conducted without the continuous recording devices. This well will operate as a unit with the Horse Creek Federal #1-8 disposal well. It is the intent of this permit that waters can be co-mingled between the two wells without strict accountability. In other words, the total water accepted for disposal should equal the total water disposed down both wells, but it is not necessary to account for exactly which waters were injected into which of the two wells.

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.



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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) 777-7752	Water Quality Division (307) 777-7781
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October 16, 1987

Michael Penz
Wyoming State Engineer's Office
Herschler Building, 4th Floor East
Cheyenne, Wyoming 82002

Re: Kissack Water and Oil Service
UIC Applications
87-379 and 87-380

Dear Mr. Penz:

The questions that you raised in your comments of October 9, 1987 are certainly valid concerns. Because of the uncertainty in determining fracture pressures for the Minnelusa (OGCC has been using a fracture gradient of .70 while Halliburton in Gillette uses no more than .59) the following condition will be added to any permit issued;

"Prior to injecting fluid a step test shall be run. The maximum injection pressure allowed will be 200 psi less than the fracture pressure indicated by the step test."

The Federal Jessen 1-5N well should not need any separate storage facilities since the surface equipment will be shared with the existing Horse Creek Federal well.

Sincerely,

Robert Lucht
Groundwater Control Supervisor
Water Quality Division

RL/jn

cc: Kissack Water & Oil Service
Centennial Engineering



THE STATE OF WYOMING

MIKE SULLIVAN
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Department of Environmental Quality

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October 1, 1987

Doug Kissack
Kissack Water and Oil Service, Inc.
P. O. Box 46
Rozet, Wyoming 82727

Re: Federal Jessen 1-5N
GPC 87-379
Class I UIC

Dear Mr. Kissack:

Several items have surfaced in reviewing the above referenced permit. You may respond to these questions by referencing this letter and the comment number.

Comment #1 - Paragraph 5g. Exhibit E - "The proposed receiver lies approximately halfway between a 20 mile outcrop of the Fort Union Formation that strikes N25W and dips S60W at about 1 to 2 degrees." I think that this is saying that the well is located 1/2 way through the outcrop of the Fort Union, but I am not sure. Please re-word this so it is clear.

Comment #2 - There does not appear to be any information on fracture gradient or fracture pressure in the application. Assuming that the fracture gradient was .70 psi/ft as was the case in Horse Creek Federal #1-8, then the following would show the fracture pressure at this well:

Total fracture pressure at the bottom of the perforated interval:

$$8645' \times .70 = 6051 \text{ psi}$$

Static water pressure at a salt water density of 1.08:

$$8645 \times 62.4 - 144 \times 1.08 = 4045 \text{ psi}$$

Line loss in 2 7/8" tubing:

(from "Stimulation Fluid Friction Pressure Handbook" The Western Company for 10 lb brine)

$$17 \text{ psi} / 100' \times 8.645 = 146.9 \text{ psi}$$

Pressure drop through perforation:

(from the same handbook)
negligable - 0

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Total fracture pressure:

$$6051 \text{ psi} - 405 \text{ psi} + 146.9 \text{ psi} = 2152 \text{ psi}$$

Water Quality Division will therefore limit the maximum injection pressure in this well to 2000 psi.

Comment #3 - In Section 5k I assume that you mean 2 holes per foot for each of the intervals shown. Please clarify this.

Comment #4 - There is no cement bond log in the application. If this log exists it must be submitted, (four copies). If it does not exist, Water Quality Division will require that this log be run and good cement bond be demonstrated to our satisfaction prior to injecting any fluid. We will require good bond for a minimum of 10 times the thickness of the injection interval above the top of the Minnelusa.

Comment #5 - From the similarity of the surface plant, it appears that this well will share surface facilities with Horse Creek Federal No. 1-8 (GPC 86-402). Is this the case? Please state this if it is.

Comment #6 - Permit GPC 86-402R issued for Horse Creek Federal #1-8 requires you to monitor #1-5 Federal Jessen prior to injecting industrial waste into the Horse Creek Well. Issuance of this new permit to inject will make such sampling meaningless. Water Quality Division will initiate a permit revision on 86-402 to eliminate this requirement prior to issuing this new permit.

Comment #7 - Water Quality Division requires a map showing all existing oil wells, water wells, surface water impoundments, streams, and rivers within the permit area of review. Please plot the required information (detailed on part 5a of the permit form) on map Exhibit B.

Comment #8 - Please provide a complete log of this well.

Comment #9 - Water Quality Division needs to know the exact vertical separation between the lower most Class I aquifer (Fort Union).

Comment #10 - The well completion report shows that the well was plugged back using 50 sacks ideal G cement to a PBTD of 8651. In 4 1/2" casing, 50 sacks would fill up 450 feet if it were not injected out through perforations. Please provide documentation as to what is the true PBTD. Has anyone tagged bottom since this operation was done? Was the plug back cement job done through tubing? Please provide details about the plug back job.

The well completion report shows the grade and type of casing run but not its conditions. Was it new or used?

The diagram of the well provided shows that the packer will be set on 5678.7 L.F. of 2 7/8" tubing. With perfs at 8620 to 8645, this is not acceptable. WQD will require that the packer be set no more than 40 feet above the top perforation.

Comment #11 - Where is this well in relation to the Federal Jensen #105 producing well?

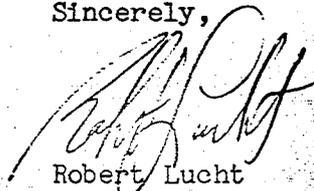
Comment #12 - This permit will authorize disposal by injection only. Construction of any on site disposal pit or temporary holding pond is specifically not authorized.

Comment #13 - You have provided financial information for 1983, 1984 and 1985. We are required to have information on file for the most recent 3 years. Please provide data for 1986 (and 1987 if available).

Comment #14 - The Wyoming State Engineer shows a water well permitted in T47N, R68W, S4, NW/NE, Permit #P21693P, 300 feet deep, 80 feet to static water, producing 16 gal/minute for stock purposes. This well is approximately 1.3 miles NE of the proposed injection well. Please show this well in Exhibit B.

Enclosed please find a draft of the permit to inject as it now stands. This may change after I receive comments back from the various reviewers.

Sincerely,



Robert Lucht
UIC Program Supervisor
Water Quality Division

RL/jn

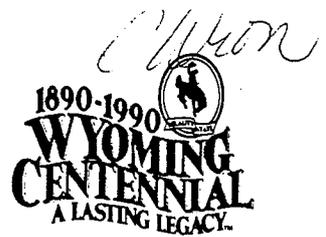
Enclosure

cc: Centennial Engineering and Research, Inc.
Mike Strieby, EPA, Denver
Janie Nelson, Wyoming Oil and Gas Conservation Commission
Richard Stockdale, State Engineer's Office
Jake Strohmman, DEQ/WQD



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

May 30, 1990

Jo Kissack
Kissack Water and Oil Service, Inc.
Box 46
Rozet, Wyoming 82727

RE: Shell Fox #1
Permit UIC 87-380 class I
Campbell County, Wyoming

Horse Creek Federal 1-8
Permit UIC 88-018 class I
Weston County, Wyoming

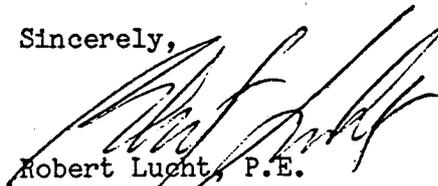
Federal Jessen 1-5
Permit UIC 87-279 class I
Weston County, Wyoming

Dear Mrs. Kissack:

I would like to schedule an annual inspection of the above mentioned facilities on Wednesday, June 27, 1990. I will meet Doug at your offices on June 27 at 08:00 AM. This inspection will cover all aspects of the operation of this well. During this inspection, I will want to see records of the pressure fall off curve required by the permits. I will also want to see all required instrumentation in place and operating. If at all possible, I want to see these wells actually injecting fluid so that tests can be made of the various devices on the well. I will also need to sample the injectate at that time for compliance with the permit. Provision needs to be made to take samples of the injectate.

An annual inspection of a class I well also requires that we observe the records being kept on this well. Records of injection volume, pressures, and annulus pressures as well as required analyses should be available for inspection.

Sincerely,


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

RL/jt

xc: Jake Strohmman



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
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Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

March 12, 1990

Jo Kissack
Kissack Water and Oil Service, Inc.
Box 46
Rozet, Wyoming 82727

RE: Shell Fox #1
Permit UIC 87-380 class I
Campbell County, Wyoming

Dear Mrs. Kissack:

This letter will serve to document this Department's approval of your continued disposal of water from the Gillette Radiator facility in Gillette. This water is represented by Energy Laboratories sample G-90-3111, which shows that this waste has none of the characteristics of hazardous waste. This waste can be injected as soon as you are able. This approval will apply to all such wastes generated within one year of the date of this letter.

Sincerely,

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

RL/jt

xc: Jake Strohman



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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February 25, 1988

Doug Kissack
Kissack's Water and Oil Service
Box 46
Rozet, WY 82727

RE: Shell Fox #1, GPC 87-380, Class I UIC, Campbell County, Wyoming

Dear Mr. Kissack:

You are hereby authorized to dispose of 125 barrels of spent hydrochloric acid per your request of February 10, 1988. You are also authorized to dispose of 20 barrels of oilfield chemicals for Conoco, Inc. at Lynch, Wyoming. This disposal was covered in your request dated January 22, 1988.

We have checked both of these disposals with EPA, Region VIII. They have informed us that both of these disposals fit into the classes of waste authorized for this well, and neither meets the definition of hazardous waste under RCRA.

Sincerely,

William L. Garland, PE
Administrator
Water Quality Division

WLG/RL/pjb



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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) 777-7752	Water Quality Division (307) 777-7781
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December 23, 1987

Doug Kissack
Kissack Water and Oil Service, Inc.
P. O. Box 46
Rozet, Wyoming 82727

Re: Federal Jessen 1-5N
GPC 87-379
UIC Class I

Shell Fox #1
GPC 87-380
UIC Class I

Dear Mr. Kissack:

Enclosed is a signed final permit authorizing operation of the Federal Jessen 1-5N and Shell Fox #1 disposal wells.

Please recall that new sources of industrial wastes must be identified and approved prior to the start of injection of these wastes; and prior to commencing injection of wastes other than produced water, the permittee shall submit complete organic and inorganic chemical analyses of each waste to be injected and receive prior authorization to inject. Please note: the injection of any waste defined as hazardous under 40 CFR 261.3 is not authorized. Enclosed are two copies of Form 10 for the annual report, and a supply of copies of Form 7 which should accompany the submittal of periodic reports or other information required by the permit. Any report or information submitted as a permit requirement must be accompanied by a completed Form 7. This includes analytical and other data submitted prior to approval of a new industrial waste for injection.

An adequate pressure test has been conducted and an absence of fluid movement in vertical channels was demonstrated by logging. Mechanical integrity will have to be demonstrated again no later than December 1, 1988, and sooner if required.

At the present time, all reports and submittals required by this permit must be signed by Doug Kissack (a principal executive officer of at least the level of vice-president). Another duly authorized representative (for signing reports) can be designated pursuant to Section Q of the permit.

This permit requires quarterly reports. Please read the permit carefully and contact Robert Lucht at 777-7095 if you have any questions about the required content of these reports. Please also contact him before beginning construction and before beginning injection.

Sincerely,



William L. Garland
Administrator
Water Quality Division

WLG/RL/jn

Enclosures

cc: Centennial Engineering, 237 N. Main, Suite 1, Sheridan, WY 82801 (w/permit)
Janie Nelson, OGCC, Casper (w/permit)
Richard Stockdale, SEO, Cheyenne (w/permit)
Paul Osborne, EPA, Denver (w/permit)
Susan Fields, DEQ/WQD, Sheridan (w/permit)
Jake Strohman, DEQ/WQD, Cheyenne

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

(X) New

Permit Number:

() Modified

GPC 87-380
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),

KISSACK WATER AND OIL SERVICE, INC.
P. O. Box 46
Rozet, Wyoming 82727
(307) 682-9026

is authorized to operate

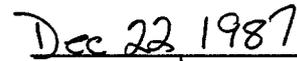
The Shell Fox #1 Disposal well, in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ S17, T50N, R69W, Campbell County, Wyoming as a commercial well for the disposal of oil field produced water and other industrial wastes

according to procedures and conditions of the application GPC 87-380 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

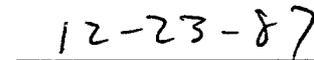


Administrator
Water Quality Division
Herschler Building, 122 W. 25th
Cheyenne, WY 82002
Phone: (307) 777-7781


Date



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


Date

A. Discharge (Injection) Zone and Area of Review

The injection zone is within the Muddy Formation, and consists of the perforated intervals 6610-6624 below the surface. Injection and disposal into any other subsurface interval is not authorized without prior approval. Discharge to the surface is not authorized by this permit. Construction any holding pond on the surface is specifically not authorized by this permit.

B. Groundwater Classification

The water in the injection zone is Class VI:

1. Groundwater is located so as to make normal use economically and technologically impractical;
2. Groundwater in the receiving formations is associated with accumulations of hydrocarbons;
3. The Shell Fox #1 is adjacent to several other wells that are used for the injection of oil-field produced water, as authorized by the Wyoming Oil and Gas Conservation Commission.;
4. The groundwater quality in the injection zone is in excess of 26,000 ppm in total dissolved solids.

C. Authorized Operations

The permittee is authorized to inject into the Muddy formation through perforations at 6610-6624 feet below the surface, oil field produced waters (sic 13) and other industrial wastes. Existing sources of produced water have been identified in the application. New sources will be identified prior to injection.

The permittee is authorized to inject certain other industrial wastes providing:

1. Hazardous waste as identified by EPA under 40 CFR 261.3 are not allowed under any circumstances.
2. Prior to injection of any other industrial waste, the permittee shall submit, in writing, a complete organic and in-organic chemical analysis for each waste to be injected. The submittal shall include the volume to be injected and the duration of this injection. Injection shall not commence without authorization of the Administrator.

The maximum discharge (injection) pressure shall not exceed 1,500 psi at the surface. During the first three months of operation, the permittee shall run a step injection test to determine the actual fracture pressure of the Muddy Formation. Thereafter the injection pressure shall be limited to 200 psi less than the fracture pressure but not less than 1,500 psi.

The discharge (injection) rate will vary. The permittee shall obtain approval for a rate in excess of 2,000 barrels per day (84,000 gallons per day) of all wastes to be disposed of.

If at any time, the maximum authorized pressure or rate is exceeded, the 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 the permittee becomes aware of the circumstances.

The permittee shall sample and analyze water being injected not less than four times per year. This analysis shall include major cations and anions, pH and TDS.

The permittee is required to monitor the injection and annulus pressures and injection rate continuously. Within 30 days after issuance of this permit, the permittee shall submit information which shows:

1. how injection and annulus pressures and injection rate will be recorded if continuous recording devices have not yet been installed;
2. a plan for installing continuous recording devices, or an alternate proposal; devices should be installed within 90 days of permit issuance.

The permittee shall notify the Water Quality Division when devices have been installed and are operational. This information shall also be included in the appropriate monthly operations report.

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 (Muddy Formation) is an oil producing formation overlain by the Mowry Formation which is considered to provide an impermeable layer more than 4 times thicker than the injection zone. The cover of all formations separating this injection zone from the deepest source of useable water (Fox Hills Formation) is 4,180 feet, thus providing far in excess of 10 times the injection zone thickness in total cover.

G. Requirements for Monitoring the Discharge

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

Injection and annulus pressures and injection rate (volume) shall be monitored continuously. Records of maximum daily injection pressure and volumes shall be kept and be available for inspection by representatives of the Water Quality Division.

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 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 waste 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 that days operation.
3. A typical analysis of each new source of oil-field produced water. These analyses should include major cations and anions, pH, and TDS. A more detailed analysis may be required by the Water Quality Division if circumstances warrant such action.
4. A complete organic and in-organic analysis and volume of any waste other than oil-field produced water. No waste other than oil-field produced water may be injected without prior written authorization from the administrator.
5. Total volumes of formation water disposed is required. A list of leases where formation water originated is also required.
6. Results from any groundwater samples taken during the quarter.
7. Any non-compliance, MIT, or significant event during the quarter. If quarterly reports should eventually show a record of being submitted late, the Administrator may substitute more stringent monthly report requirements.
8. The average injection pressure for each month calculated by averaging the maximum pressures for each day.

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. The annual report shall consist of the 4th quarterly report along with a summary of the year's operation. This summary shall include the maximum injection pressure for the year and the date on which it was reached, the maximum injected volume for the year and the date on which it was reached; the total volume of oilfield produced waters injected and the total volume of all other wastes injected. The annual report shall include significant events for the year such as Mechanical Integrity Tests, and any non-compliance with permit conditions.
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:

At a minimum of once a year 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 all components of the 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 1,500 psi on the annulus for 15 minutes. The permittee shall hold 400 psi pressure on the annulus continuously.

At a minimum of once every 5 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.

Prior to injection of any fluid under this permit, the applicant shall demonstrate mechanical integrity of the well and the fluid tight condition of the surface facilities. A cement bond log was run on the Shell Fox #1 well at the time of initial completion. This log indicated poor bond from 6200 to PBD at 6703. This interval was squeezed through perfs at 6700. A mechanical integrity test was performed on April 9, 1985.

The casing-tubing annulus must be filled with water mixed with a corrosion inhibitor. The permittee will 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.

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

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.

The Shell Fox #1 was completed October 27, 1978 to plug back TD of 6703'. The original well tested the Minnelusa at 8268' (Electric Log Top). 8 5/8" 24# surface casing was set to 231' and cemented with 175 sacks. A long string of 5 1/2", 15.5# and 17# production casing was cemented to 6790' with 175 sacks of cement. Perforations are from 6610 to 6624. A cast iron bridge plug is set at 6685 feet. Injection is through 2 7/8" tubing with a packer set at 6556. Top of cement is at 6060 feet.

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 shall be coordinated with requirements of the Wyoming Oil and Gas Conservation Commission. In no case shall the required abandonment procedure be less than that required by the Oil and Gas Conservation Commission at the time of abandonment.

The Water Quality Division will require that a squeeze cementing operation be performed through the perforated interval, until no additional cement can be pumped. Fracture pressure of 1,570 psi shall not be exceeded during this squeeze. After removing the tubing and packer, 200 sacks of cement shall be spotted on the bottom of the hole. In no case shall surface casing be recovered. If possible and desired, the remaining production casing may be cut 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 at the braden head flange and the dry hole marker can 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.

O. Special Measures the Director Finds Necessary:

The site shall be secured with a four strand barb wire fence with a locking gate. This gate shall be locked during any extended period of inactivity.

Continuous recording devices to measure injection and annulus pressures and injection rate (volume) shall be installed and operational within 90 days following permit issuance. This system must be in operation or the permittee must manually collect all required data. This requires that the well be shut in or a supervisory person be at the well if operations are conducted without the continuous recording devices.

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.



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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) 777-7752	Water Quality Division (307) 777-7781
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October 16, 1987

Michael Penz
Wyoming State Engineer's Office
Herschler Building, 4th Floor East
Cheyenne, Wyoming 82002

Re: Kissack Water and Oil Service
UIC Applications
87-379 and 87-380

Dear Mr. Penz:

The questions that you raised in your comments of October 9, 1987 are certainly valid concerns. Because of the uncertainty in determining fracture pressures for the Minnelusa (OGCC has been using a fracture gradient of .70 while Halliburton in Gillette uses no more than .59) the following condition will be added to any permit issued;

"Prior to injecting fluid a step test shall be run. The maximum injection pressure allowed will be 200 psi less than the fracture pressure indicated by the step test."

The Federal Jessen 1-5N well should not need any separate storage facilities since the surface equipment will be shared with the existing Horse Creek Federal well.

Sincerely,

Robert Lucht
Groundwater Control Supervisor
Water Quality Division

RL/jn

cc: Kissack Water & Oil Service
Centennial Engineering



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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) 777-7752

Water Quality Division
(307) 777-7781

October 1, 1987

Doug Kissack
Kissack Water and Oil Service
P. O. Box 46
Rozet, Wyoming 82727

Re: Shell Fox #1
GPC 87-380
Class I UIC

Dear Mr. Kissack:

Several items has surfaced during the review of the above referenced permit application. Please respond to the following comments by referencing this letter and the comment number.

Comment #1, Paragraph 5g - Please clarify the first sentence.

Comment #2 - Exhibit C - Well #4 is shown on the legend to be flowing at 100 gpm. This is a misinterpretation of the Water Resource Map. This is actually the depth to static water level.

Comment #3 - The Wyoming State Engineer's office has on file a total of 8 water well permits within one mile of the proposed injection well. The following is a tabulation of these wells:

<u>Legal Description</u>	<u>Permit #</u>	<u>TD</u>	<u>SWL*</u>	<u>GPM**</u>	<u>USE</u>
T50N, R69W, S8, NE/SE	P18894P	60	25	25	DOM/STO
T50N, R69W, S8, NW/NW	P2636W	340	120	20	DOM
T50N, R69W, S8, NW/SE	P18895P	160	35	25	STO
T50N, R69W, S8, NW/SE	P18896P	160	35	25	DOM
T50N, R69W, S8, SW/SE	P68360W	170	60	20	STO
T50N, R69W, S17, SW/SE	P18897P	160	35	10	STO
T50N, R69W, S18, NW/NW	P58323W	660	275	25	MIS
T50N, R69W, S18, NE/SW	P2044W	2955	275	136	IND

* SWL - Static Water Level

**GPM - Total Appropriation in Gallons Per Minute

In addition to the above wells, none of which are shown on any of your maps or charts, there may be other wells which were not permitted through the State Engineer's Office.

The State Engineer also has on file a chemical assay from a well located in T50N, R69W, S9, SW/NW; permit # UW P69076W. This assay is as follows:

Na	0	Cl	789	Total Iron	1.3
Ca	400	SO ₄	144	pH	7.2
Mg	194	CO ₃	0	S as H ₂ S	.20
Ba	0	HCO ₃	49	TDS	2222

This chemical assay was done by the Nalco Chemical P. O. Box 87, Sugarland, Texas 77478 on February 7, 1985. This well is located approximately 1.2 miles WNW of the proposed injection well.

Information provided by the applicant as well as the above chemical analysis, indicate that the water in the Fox Hills Formation is Class III, the Lance Formation is Class II, the Fort Union and Alluvium are both Class II aquifers being used for Class I purposes.

Because of the many uses being made of the water in the formation from Fox Hills and above, the applicant will be required to:

1. Plot all surface and groundwater appropriations on EXHIBIT B of the application.
2. Provide a list of the owners names and addresses for all of the groundwater appropriations within one mile of the proposed injection well.
3. Contact these owners with the public notice as will be done for surface and mineral owners within 1/2 mile.
4. Provide a groundwater monitoring program. This program shall consist of two sets of baseline assays for the Alluvial aquifer and the Fox Hills sandstone. One data point, down gradient from the injection well for each of these two formations will be sufficient. Baseline data will include all Chapter VIII parameters. Once a year thereafter, the same two wells shall be sampled and analyzed for TDS, pH, Cl, SO₄, CO₃, and HCO₃.

The analysis required can be obtained by drilling wells specifically for this purpose or from existing wells if permission to sample these wells can be obtained from the owners. Water quality data shall be reported in the quarterly report for the quarter in which it becomes available. If wells are drilled for this purpose, State Engineer permits shall be obtained and the locations shall be approved by the Water Quality Division prior to construction.

While I realize that this requirement will cost the operator several thousand dollars for the baseline data and even more if a monitor well in the Fox Hills must be drilled, the large number of groundwater appropriations in the area justifies this work. Operating cost for this program will be less than \$500 per year after baseline is established.

Comment #4 - The well completion report shows that the well had poor bonding from 6200 to PBD at 6730. Subsequent to that log a squeeze cement operation was performed through perfs at 6700'. Subsequent to the final cement job, a mechanical integrity test was run in April of 1985. Prior to the start of injection, the Water Quality Division will require a new mechanical integrity test and a radioactive tracer log to be run. Annually during the life of the well, these two tests shall be run.

Comment #5 - The sources of the injection fluids have not been shown in the application other than to say that they are formation produced fluids. Prior to the start of injection for each new source well, the lease name, source formation, and water chemistry shall be obtained. This data shall be submitted with the first quarterly report after the injection starts. Quarterly reports shall show the total volume injected per month by lease name and source formation.

Comment #6 - The formation fracture gradient is .69 in the Mowry Formation. The maximum fracture pressure allowable in the injection zone is therefore:

$$P_{BH} = (\text{fracture gradient})(\text{depth})$$

$$P_{BH} = (.69)(6624)$$

$$P_{BH} = 4570 \text{ psi}$$

Line loss in 2 7/8" tubing at 2000 bbl/day (taken from "Stimulation Fluid Friction Pressure Handbook", the Western Company, for 10 lb brine)

$$P_{LL} = 17 \text{ psi}/1000 \times 6.624 = 113 \text{ psi}$$

Static Water Pressure

$$P_{SW} = (\text{depth})(62.4)(\text{Sp.Gr.})/144$$

$$P_{SW} = (6624)(62.4)(1.08)/144$$

$$P_{SW} = 3100 \text{ psi}$$

Total fracture pressure at the top of casing:

$$P_{BH} + P_{LL} - P_{SW} = P_{FRAC}$$

$$4570 + 113 - 3100 = 1583 \text{ psi}$$

Accordingly, Water Quality Division will limit the maximum injection pressure to 1300 psi.

Comment #7 - Please provide a complete log of the well.

Doug Kissack
October 1, 1987
Page 4

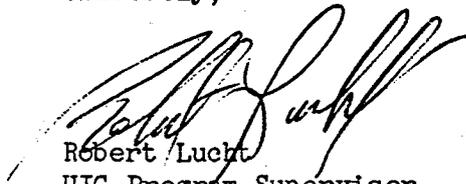
Comment #8 - The applicant is advised that the Department has already received a written objection to this application from:

Dorothy Heptner
Box 53
Rozet, Wyoming 82727

The Water Quality Division will copy the applicant of all correspondence with Ms. Heptner.

Comment #9 - Please provide 4 copies of the entire cement bond log.

Sincerely,



Robert Lucht
UIC Program Supervisor
Water Quality Division

RL/jn

Enclosure

cc: Centennial Engineering and Research, Inc.
Mike Strieby, EPA, Denver
Janie Nelson, Wyoming Oil and Gas Conservation Commission
Richard Stockdale, State Engineer's Office
Jake Strohman, DEQ/WQD
Dorothy Heptner, Rozet, Wyoming

R-1

PERMIT TO CONSTRUCT

PERMIT NO. 87-381

X New
Renewal
Modified

Brookhurst Water Transmission Line

This permit hereby authorizes the applicant:

EPA Region VIII
One Denver Place
999 18th Street, Suite 500
Denver, CO 80202-2405

to construct, install or modify municipal water transmission line according to the procedures and conditions of the application number 87-381. The facility is located in Sections 5 & 6, T33N, R78W 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.

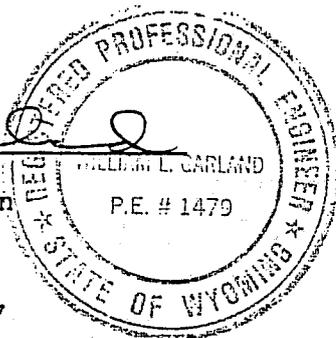
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

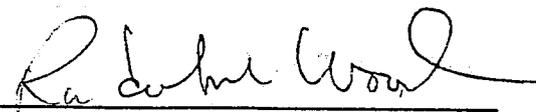
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-22-87
Date of Issuance

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

cc: Mayor Nation, P O Drawer 158, Evansville, WY 82636
Mike Cunningham, Riedel Environmental, % Holiday Inn, 300 West F Street,
Casper, WY 82601
Ted Coker, Environment & Ecology, 1776 S. Jackson St., Denver, CO 80210
Berry Venn, CEPI, 400 E 1st, Suite 311, Casper, WY 82601
Alan Edwards, State Planning Coordinators Office

RF
JK

PERMIT TO CONSTRUCT

PERMIT NO. 87-382
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Casper Oil dba Convenience Plus

This permit hereby authorizes the applicant:

Rich Dwyers
3030 East Lincolnway
Cheyenne, Wyoming 82001

to construct, install or modify testholes and monitoring wells according to the procedures and conditions of the application number 87-382. The facility is located in Section 33, NW $\frac{1}{4}$, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 (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:


William L. Garland
Administrator
Water Quality Division

Rudolph Wood
Director
Department of Environmental Quality

12/8/87
Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT 87-382

1. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division. The additional wells will also follow the requirements set forth in this permit.
2. Once the monitor wells have been completed, the owner will provide the Wyoming Department of Environmental Quality, Water Quality Division with a report that details the logs and locations. If the construction specifications were not included in the application or changes were made, they should be included in the report.
3. The results of any analyses conducted on soil or water removed from these wells shall be provided to the department as soon as they are available.
4. All monitor wells and soil borings will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
5. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
6. Keys for all monitoring wells shall be provided to the department within 30 days of completion of the project. Caps shall be kept locked at all times other than sampling. Any tampering with the monitor wells shall be reported immediately to the division.
7. 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.

Conditions to Permit 87-382 (continued)

8. 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.
9. The groundwater monitoring wells shall be installed in accordance with the plans and specifications submitted in Permit to Construct application number 87-382.
10. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However, a sufficient seal should be installed according to normal engineering practice.
11. After the bentonite has been placed in the annular space of the monitoring well, it should be hydrated to insure a proper seal.
12. Depending on the results of subsurface contamination investigation, additional site investigations or remedial measures may be required by the Water Quality Division.
13. Testholes/boreholes shall be completed as wells if contamination is detected within the soils above the groundwater.

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

May 11, 1989

Mr. James E. Greer
Y-0 Investments, Inc.
P O Box 513
Wheatland, WY 82201

RE: Permit to construct 87-383

Dear Mr. Greer:

Your request to delay submittal of a schedule for "as-built design" until June 1, 1989 is hereby approved. Please be aware that our department will only accept a schedule which results in the expeditious completion of all work.

Sincerely,

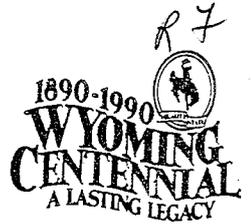
Wally Koch, P.E.
Southeast District Supervisor
Water Quality Division

WK/nc



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
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Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

April 25, 1989

Y-0 Investments
P O Box 513
Wheatland, WY 82201

RE: Permit to Construct #87-383

Dear Mr. Greer:

Since Tom Norman is no longer employed by the Wyoming Department of Environmental Quality, Water Quality Division, I have assumed the position of Southeast District Supervisor. In reviewing the files on the above referenced project, I find that the last correspondence between you and Tom was your letter dated September 14, 1988. The letter implies that Mr. Joel Coffee would be in contact with you within two weeks and you would then submit a new schedule.

We request that a revised schedule be submitted to our office by May 5, 1989.

Sincerely,

Wally Koch, P.E.
Southeast District Supervisor
Water Quality Division

WK/nc



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
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Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

March 22, 1988

James E. Greer
Y-0 Investments, Inc.
P.O. Box 513
Wheatland, Wyoming 82201

RE: Permit to Construct Application Number 87-383

Dear Mr. Green:

The Department of Environmental Quality, Water Quality Division (DEQ/WQD), has reviewed your application (#87-383) for a permit to construct a public water supply for Y-0 Ranch Estates at Section 19, T24N, R67W. The Water Quality Division has determined that the system meets the minimum design standards with the exception of the following items which must be corrected in accordance with the indicated schedules:

1. Y-0 well #5 will be disconnected from the system by June 1, 1988. Permittee will notify DEQ of date of disconnection so that personnel may be present to verify the disconnection.
2. A suitable alternative power source shall be provided prior to June 1, 1988. Permittee will notify DEQ of the installation date so that the facility may be inspected.
3. No additional taps shall be made to the 4 inch mains along Country Club Road and Main Drive without the submittal of a hydraulic analysis and evaluation of future use.
4. Check valves shall be provided for all future residential services.
5. Y-0 #2 well will have a sampling valve installed by May 30, 1988.
6. Regulations require that where a submersible pump is used, a check valve shall be located in the casing in addition to a check valve located above ground. A check valve shall be provided for Y-0 #2 well by May 30, 1988 and Jirdon #1 well by August 30, 1988. Permittee shall notify DEQ of installation so the installation may be inspected.
7. A shut off valve, meter and sampling valve will be provided for Jirdon #1 well by August 30, 1988. Permittee will notify DEQ of installation so that the installation may be inspected.

8. The use of chlorine gas requires compliance with Section 11(c)i of Chapter XII, Wyoming Water Quality Rules and Regulations. By June 1, 1988, the permittee shall provide a plan and schedule for coming into compliance with these requirements.
9. An operation and maintenance manual shall be provided to DEQ by August 30, 1988.
10. Permittee shall provide for level II operator certification by September 30, 1988.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter indicates only that standards of design and construction required by the Environmental Quality Act have been met, except as noted above. The state assumes no liability for and does not in any way guarantee the performance of the activities allowed under this letter. 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 letter, the state does not in any way waive its sovereign immunity.

Since your system has already been constructed, a permit to construct cannot be issued. This letter is your record that the Y-0 Ranch Estates public water system as installed meets minimum state specifications, except as noted above, and has been approved by the Wyoming Department of Environmental Quality, Water Quality Division.

In the future if you are to build a water system, you must apply for a permit to construct prior to construction to avoid enforcement action.

Sincerely,



William L. Garland
Administrator
Water Quality Division

WLG/LR/jn

cc: Edward C. Fry

RF

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Y-O Ranch Estates

ARCHITECT OR ENGINEER: Edward C. Fry

APPLICANT: Y-O Investments

WATER QUALITY DIVISION REFERENCE NUMBER: 87-383

REVIEWING ENGINEER: Larry Robinson *LR*

DATE OF REVIEW: October 21, 1987

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Are the Y-O tract #4 and Y-O tract #5 wells connected to the system? If so, they must be permitted by this office and if not, they must be permitted before they are connected.
2. Provide justification for the 4-inch mains by hydraulic analysis and future use.
3. Recommend additional valves for the loop serving Y-O Ranch Estates 1st Filing and Y-O Mobile Home Subdivision. Current regulations require valves at 800 foot intervals, and the present 4,000 foot loop does not have any valves.
4. Check valves shall be provided for all future residential services.
5. An alternative power source is required for the finished water pumps and the chlorinator.
6. Provide any existing information on the well screens, well pump test, static water level, drawdown levels, location of pumps, etc.
7. Provide any existing information on the materials used in the 4-inch cast iron pipe.
8. A flushing hydrant or blowoff valve should be provided at all dead ends.
9. The discharge piping for each well should include a check valve, shutoff valve, pressure gauge, meter and a smooth nosed sampling valve.
10. The chlorine feed line should be connected to the water main where it can provide treatment to the lines from each pump when the other pump is not in operation.

11. The use of chlorine gas requires compliance with Section 11 C (1), Chapter XII Wyoming Water Quality Rules and Regulations. Address the requirements regarding respiratory equipment, repair kits, feed and storage areas, and ventilation.
12. Provide for an operation and maintenance manual in accordance with Section 16, Chapter XII, Wyoming Water Quality Rules and Regulations.
13. Provide for a properly certified operator in accordance with Chapter V, Wyoming Water Quality Rules and Regulations. Contact Bill DiRienzo of this office for information.

/jn

RF

PERMIT TO CONSTRUCT

PERMIT NO. 87-384
SEE SPECIAL CONDITIONS

- New
- Renewal
- Modified

PC TRANSPORT INC.

This permit hereby authorizes the applicant:

PC Transport
2031 E. Bryan Road
Casper, Wyoming 82609

to construct, install or modify two commercial septic systems for domestic wastes and for truck washing pad according to the procedures and conditions of the application number 87-384. The facility is located in Section 32, T34N, R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of 2 (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.

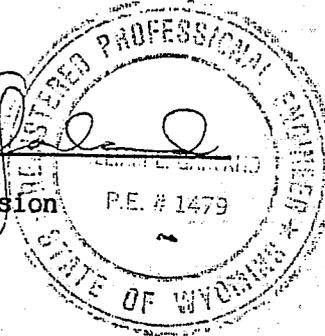
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

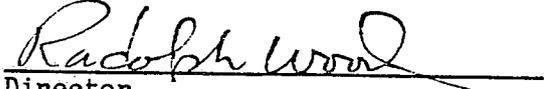
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

10-29-87
Date of Issuance

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

Special Conditions for Permit to Construct 87-384

1. The permittee shall notify Ken Hoff, Natrona County Health Department, 1200 East 3rd, Casper, Wyoming 82601-2990, phone number 235-9316, of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. At least one working day (24 hours) notice is required prior to backfilling.
2. The sumps located within the building shall not discharge to the septic system.
3. The outside truck wash slab shall only be used for washing the exterior of the vehicles. Only biodegradable, non-hazardous compounds shall be used for washing purposes.
4. The exterior building sewer lines shall be a minimum of 4-inch diameter and clean-outs shall be installed at every change in direction.

cc: Ken Hoff, Natrona County Health Department

PERMIT TO CONSTRUCT

PERMIT NO. 87-385

- X New
- Renewal
- Modified

Foley Pet Boarding

This permit hereby authorizes the applicant:

City of Cheyenne
Board of Public Utilities
2100 Pioneer Avenue
Cheyenne, WY 82001

to construct, install or modify sanitary sewer main according to the procedures and conditions of the application number 87-385. The facility is located in S33, 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.

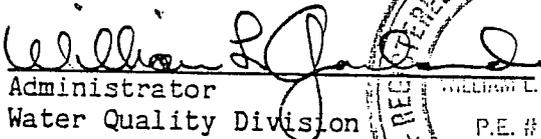
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

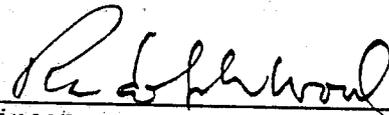
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-5-87
Date of Issuance

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

cc: Joseph E. Kub, Engineering Consultant, 1780 Westland Road, Cheyenne, WY 82001

LAND APPLICATION PERMIT

Permit No. 87-386

* CONDITIONS ON PERMIT *

Amoco Land Application in Elk Basin
(Name of Facility)

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

Amoco Production Co.

P.O. Box 569

Powell, WY 82435

to ^{road} ~~land~~ apply 13,000 barrels of untreatable crude slop

The application site is located in Sec. 24, T108N, R23E

in the County of Park, in the State of Wyoming. This permit shall be effective for a period of one (1) 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 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.

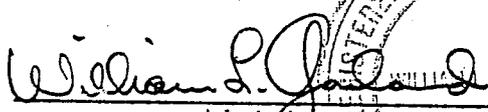
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the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

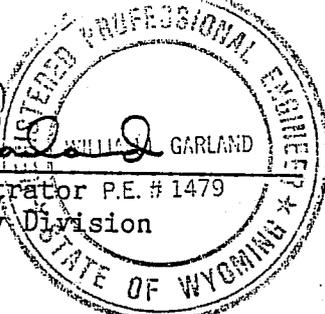
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division





Director
Dept. of Environmental Quality

10-9-87

Date of Issuance

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

CONDITIONS ON PERMIT

1. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed as it is applied. Wastes will not be applied during the period from November 1 to April 30.
2. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Steve Gerber, phone number 332-3144, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest $\frac{1}{4}$ section) and time of application.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 87-387

JAMES F. VOLL SEPTIC-SYSTEM
(Name of Facility)

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

James F. Voll

Rt. 3, Box 416

Hulett, Wyoming 82720

to construct, install, or modify a small private septic-system facility according to the procedures and conditions of the application No. 87-387. The facility is located in Section 5, T.54N., R.64W., in the County of Grook, 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 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.

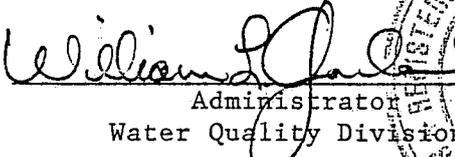
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

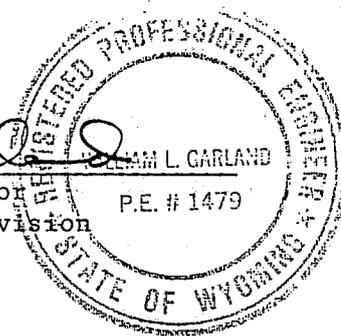
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

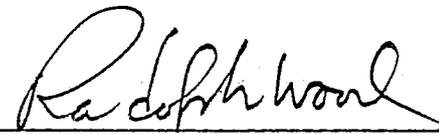
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division





Director
Department of Environmental Quality

10-6-87

Date of Issuance

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



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

May 2, 1988

David W. Hill, P.E.
Assistant Utility Director
200 North David
Casper, Wyoming 82601

Dear Dave:

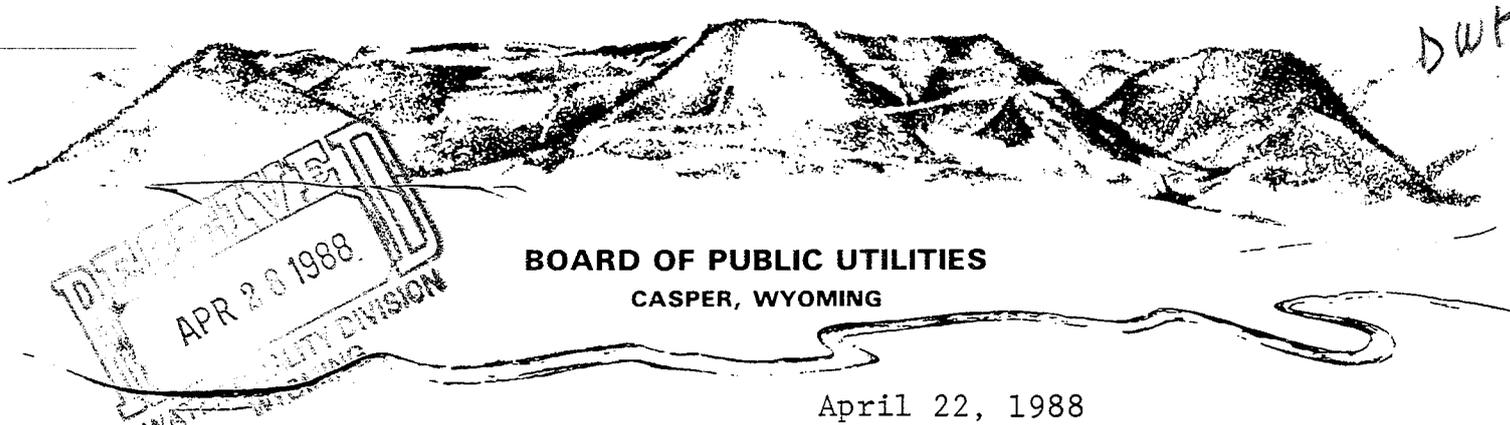
Your request to provide 2 inch flexible rubber pipe vents in the synthetic liner previously authorized by the Department of Environmental Quality/Water Quality Division permit No. 87-388 is hereby approved. This approval is conditioned upon the requirement that adequate disinfection of the reservoir and any seepage into the reservoir will be provided each and every time the system is drained and the vents are utilized. Proper maintenance and operation procedures should be implemented to insure that the vents are properly closed and remain closed after each use in order to prevent a cross connection with the groundwater and subsequent contamination of the reservoir.

Sincerely,

Lawrence Robinson
Engineering Supervisor
Water Quality Division

LR/jt

DWH



10
APR 28 1988
WATER QUALITY DIVISION

**BOARD OF PUBLIC UTILITIES
CASPER, WYOMING**

April 22, 1988

Mr. Larry Robinson
Water Quality Division
Department of Environmental Quality
Herschler Building
122 West 25th Street
Cheyenne, Wyoming 82002

RE: Casper Board of Public Utilities 10 MG Reservoir Renovation - Project W-87-2
Proposed Maintenance Vents in New Reservoir Liner

Dear Larry:

The renovation project, reference herein, includes the installation of a synthetic flexible liner in the reservoir. The purpose of the new liner is to eliminate leaks now experienced in the structure. By May 1, 1988, the contractor will have completed the work so that the reservoir can be put back into immediate service.

With your approval, the BPU would like to make a minor change to the liner installation. This change will allow for venting of any air or water trapped under the liner when the reservoir is occasionally drained for maintenance purposes. A detailed drawing of the proposed liner vent is attached. The liner vents will be installed in about 10 locations around the reservoir floor. We respectfully request approval from the DEQ for this change.

Also find enclosed a new "Application for Permit to Construct" to reflect the modification. Contact me if you have any questions.

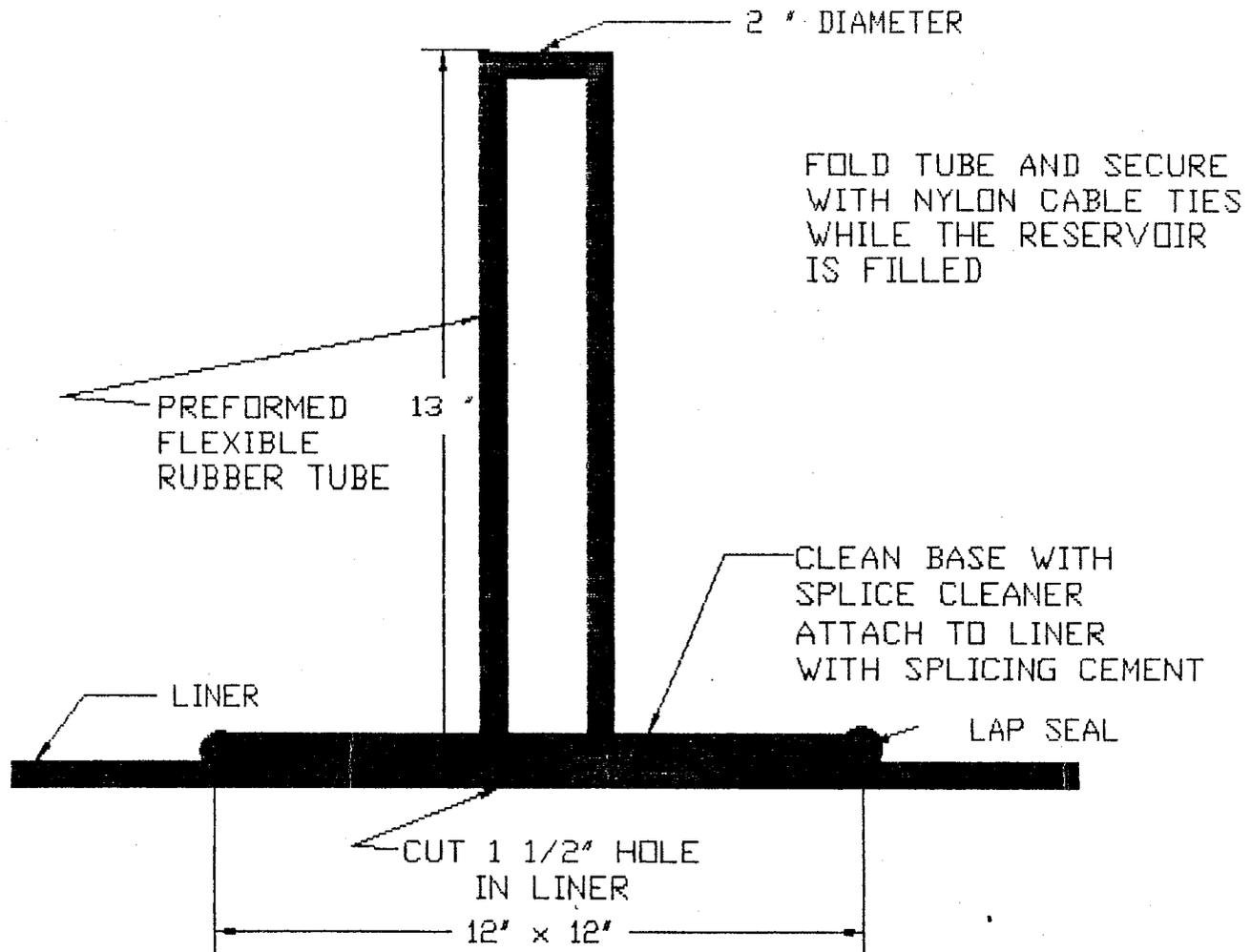
Sincerely,

David W. Hill, P.E.
Assistant Utility Director

DWH:lb

ENC.

CC: Forsgren-Perkins



DETAIL 2" PIPE VENTS

SEE ATTACHED DRAWING FOR RECD. LOCATIONS

APPLICATION FOR PERMIT TO CONSTRUCT,
INSTALL, OR MODIFY PUBLIC WATER SUPPLIES,
WASTEWATER FACILITIES, DISPOSAL SYSTEMS, OR
GROUNDWATER MONITORING WELLS IN WYOMING

APPLICATION NO. _____
DATE RECEIVED _____

Application must contain three copies of the application form, plans, specifications,
and pertinent design information.

1. Name of facility 10 Million Gallon Reservoir Renovation Project C&B 7-2

2. Owner, company, or corporation name Casper Board of Public Utilities

3. Location of facility: County Natrona

Section 16 1/4 Sections _____ Township 33 N. Range 79 W.

4. Type of application: New permit
 Revised permit*
 As built approval
 Renewal of permit*

*Previous DEQ/WQD construction permit no(s). 87-388

5. Facility description: New facility Modified facility

Public water supply

Publicly-owned
 Privately-owned

Type of facility
 Source development
 Groundwater
 Surfacewater
 Treatment plant
 Distribution system

Wastewater facility

Publicly-owned
 Commercial
 Industrial (including mines)
 Coal mine
 Small (single unit, domestic
waste, less than 2000 gpd)

Type of facility
 Septic system
 Domestic sewage pond
 Sedimentation facility
 Evaporative/containment pond
 Mechanical treatment plant/system
 Collection system
 Land application facility
 Other _____

Groundwater pollution control systems

Groundwater pollution control or containment system
 Groundwater restoration system
 Monitoring well(s) (P.E. not required)
 Test hole(s) for subsurface contamination assessment (P.E. not required)
 Injection or recovery well

5. Have all required State Engineer permits been obtained? Yes No

If yes, provide permit number(s) _____

If not, the State Engineer (telephone number 777-7354) should be contacted to determine if any permit(s) is required for this project; it is illegal to appropriate water without a permit.

6. Briefly describe facilities proposed to be constructed: Addition of vents to liner

7. Will the proposed water supply/wastewater treatment facility discharge to the surface? Yes No If yes, NPDES permit application No. _____

Name of receiving waters _____

Applicant

Name: Casper Board of Public Utilities

Address: 200 N. David
Casper, Wyo. 82601
(City, State, Zip)

Phone (307) 235-8213

Engineer

Name Donald L. Rosh

Wyoming P.E.# 5203
Engineering Firm Foreign-Parkins

Address: 701 Antler Drive
Casper, Wyo. 82601
(City, State, Zip)

Phone 235-8963

I certify that the above described facility has been submitted in accordance with local, county and state statutes, as required, and that said facility shall be constructed as authorized under the provisions specified in Wyoming Water Quality Rules and Regulations, Chapter III.

David Hill
Signature of Applicant

April 22, 1988
Date

RF

PERMIT TO CONSTRUCT

PERMIT NO. 87-388
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

10 MILLION GALLON RESERVOIR RENOVATION PROJECT W87-2

This permit hereby authorizes the applicant:

Casper Board of Public Utilities
200 North David
Casper, Wyoming 82601

to construct, install or modify a 10 million gallon water storage reservoir and associated piping and valving according to the procedures and conditions of the application number 87-388. The facility is located in Section 16, T33N, R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of 2 (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.

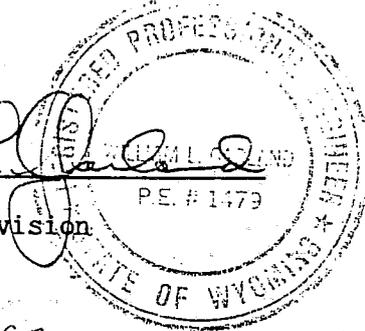
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

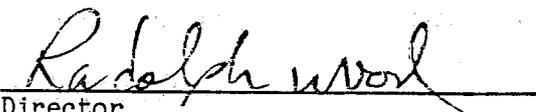
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


William R. [unclear]
Administrator
Water Quality Division


Director
Department of Environmental Quality

10-29-87
Date of Issuance

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

Special Conditions for Permit to Construct 87-388

1. Underground sprinkling system has been deleted from the project.
2. Provide 30 inch seepage rings in valve vault No. 2, Sheet 10.
3. Engineer will verify that overflow pipe will have capacity to waste water in excess of filling rate.
4. Reservoir liners will comply with AWWA D 130-87.

cc: Ronald L. Rash
Forsgren-Perkins Engineering
701 Antler Street
Casper, WY 82601

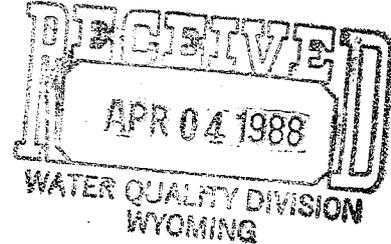


Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

March 31, 1988



Todd & Ronette Kahler
P. O. Box 262
Sundance, Wyoming 82729

RE: Septic Tank/Leachfield As-Built Plans & Specifications,
DEQ/WQD Ref. No. 87-389R

Dear Mr. & Mrs. Kahler:

On March 28, 1988, I met with Mr. Gerald McInerney at your property just west of Sundance, Wyoming. The intent of my visit was to inspect your septic system which had been installed by Mr. McInerney prior to completion of the permitting process. Based on the information provided by Mr. McInerney and my visual inspection of the system, it appears the facility complies with the design and construction standards of the Water Quality Division.

Because the facility has been installed, a permit to construct can not be issued. This letter will serve as this Department's authorization of the system. No further notice will be sent and you should maintain this letter in your files for future reference.

I appreciate your and Mr. McInerney's cooperation in order to get this matter resolved. Please feel free to contact me if you have any further comments or questions.

Sincerely,

Susan Fields
NE District Supervisor
Water Quality Division

SF:jj

xc: Larry Robinson, DEQ/WQD, Cheyenne
Norma Coulson, DEQ/WQD, Cheyenne
87-389R Archives File

THE STATE



OF WYOMING



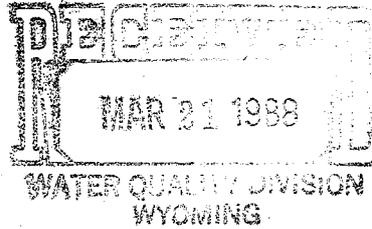
Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

March 15, 1988

CERTIFIED MAIL



Todd and Ronette Kahler
P. O. Box 262
Sundance, Wyoming 82729

Dear Mr. & Mrs. Kahler:

On October 1, 1987, this office received an application for a Permit to Construct a small wastewater facility on your property in Crook County (Water Quality Reference Number 87-389). I mailed review comments to you on October 12, 1987, because the application package was unclear and clarification was needed. I never received a response from you.

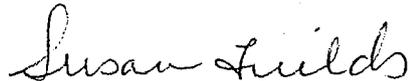
On March 7, 1988, I was contacted by Gerald McInerney, a septic system installer, who stated that he had completed installation of the system. Section 35-11-301(a)(iii). of the Environmental Quality Act states that "no person, except when authorized by a permit, shall construct, install, modify or operate any sewerage system, treatment works, disposal system or other facility, capable of causing or contributing to pollution." You, therefore, are in violation of Wyoming State Law for having constructed this facility without completing the permitting process.

In order to abate the violation, this office will need to conduct an onsite inspection in order to verify the installation and ensure that the system is adequately sized. It was agreed that we would work with Mr. McInerney to arrange for the inspection. If the system is adequately sized and installed, we will then issue you an as-built approval for the system. I expect the inspection can be arranged within the next few weeks.

Todd & Ronette Kahler
March 15, 1988
Page Two

Please feel free to contact me if you have any questions or comments.

Sincerely,



Susan Fields
Northeast District Supervisor
Water Quality Division

SF:jj

xc: Larry Robinson, DEQ/WQD, Cheyenne
Norma Coulson, DEQ/WQD, Cheyenne
Review File 87-389

norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
2161 Coffeen Avenue, Suite 501
Sheridan, Wyoming 82801

PROJECT: Kahler Small Wastewater Facility

APPLICANT: Todd Kahler
Box 262
Sundance, Wyoming 82729

WATER QUALITY DIVISION
REFERENCE NUMBER: 87-389

REVIEWING ENGINEER: ^{SA} Susan Fields

DATE OF REVIEW: October 12, 1987

ACTION: Not authorized

COMMENTS:

- 1) Your description of the combined bed and trench absorption system is unclear. The dimensions you use in your calculations for the bed do not match what is shown on the detail drawing. A bed 25x30 feet with one foot of gravel under the pipe will be adequate, but the dimensions need to be clarified on the application form.
- 2) How will the trench system be connected to the bed system? This should be shown on the plan sheet. Under no circumstance can the absorption system be daylighted to the surface.

I have been unable to reach you by phone to discuss my questions. Please feel free to call 672-6457 so we can clarify these points.



PERMIT TO CONSTRUCT

New

Permit No. 87-390R

Renewal

Modified

JRM SEDIMENT POND NO. 1-1 RESERVOIR
(Name of Facility)

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

Kerr-McGee Coal Corporation

Caller Box 3013

Gillette, Wyoming 82716

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 87-390R. The facility is located in Section 1, T.43N., R.70W., 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.

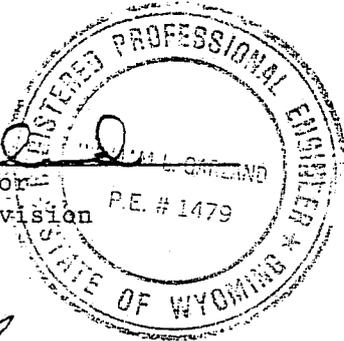
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

Willie P. G. [Signature]
Administrator
Water Quality Division



Ralph Wood [Signature]
Director
Department of Environmental Quality

10-22-87
Date of Issuance

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

xc: Doyl M. Fritz
Western Water Consultants, Inc.
P. O. Box 3042
Sheridan, Wyoming 82801

nerima

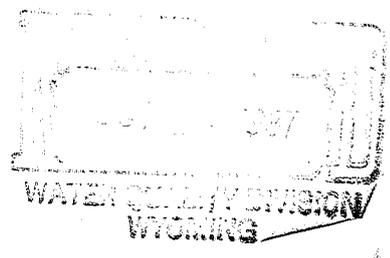
MEMORANDUM

TO: Bob Giurgevich, LQD
Review File: 87-390

FROM: *sf* Susan Fields, WQD

DATE: October 13, 1987

SUBJECT: Review of Jacobs Ranch 1-1 Reservoir, WQD Reference 87-390



I completed my review of subject application on October 12, 1987, and have the following comments:

- 1) The application sheet is not signed.
- 2) I need three additional copies of the plans prior to approval.

I spoke with Darryl Maunder of Kerr-McGee on October 12, 1987, and he will provide me with the necessary copies and a signed application form.

I will notify you of final Water Quality approval once this paperwork is received.

PERMIT TO CONSTRUCT

PERMIT NO. 87-391

- New
- Renewal
- Modified

AML Project 4-D. Site 4-2

This permit hereby authorizes the applicant:

Department of Environmental Quality - LQD
Herschler Building
Cheyenne, WY 82002

to construct, install or modify monitoring wells according to the procedures and conditions of the application number 87-391. The facility is located in NW $\frac{1}{4}$, NW $\frac{1}{4}$, S16, T14N, R83W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

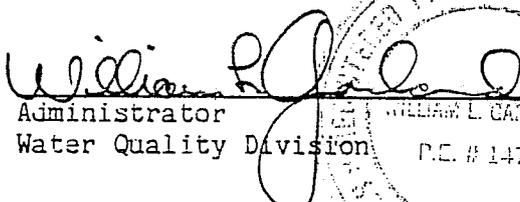
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

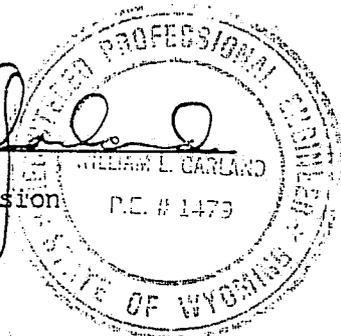
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

10-14-87

Date of Issuance

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

Paul A. Rechard
Western Water Consultants, Inc.
611 Skyline Road
Laramie, WY 82070

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 87-392R

KIPP SMALL WASTEWATER FACILITY
(Name of Facility)

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

Rick Kipp

St. Rte. 3, Box 35

Sundance, Wyoming 82729

to construct, install, or modify a small wastewater facility according to the procedures and conditions of the application No. 87-392R. The facility is located in Section 26-35, T.52N., R.62W., in the County of Crook, 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 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.

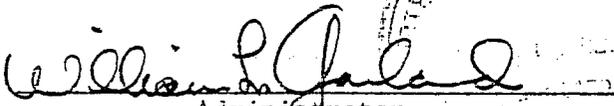
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

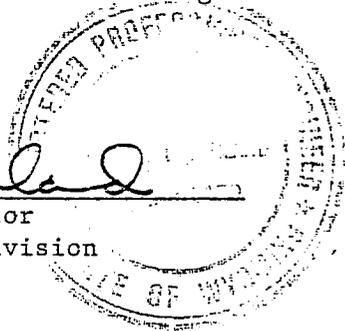
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

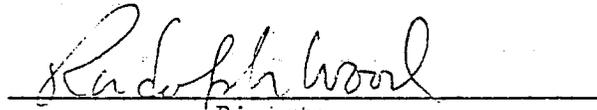
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division





Director
Department of Environmental Quality

10-22-87

Date of Issuance

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

xc: John F. Alexander
Box 505
Sundance, Wyoming 82729

norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
2161 Coffeen Avenue, Suite 501
Sheridan, Wyoming 82801

PROJECT: Kipp Small Wastewater Facility

APPLICANT: Rick Kipp
St. Rte. 3, Box 35
Sundance, Wyoming 82729

WATER QUALITY DIVISION
REFERENCE NUMBER: 87-392

REVIEWING ENGINEER: ^{SA} Susan Fields

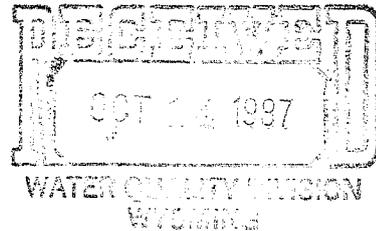
DATE OF REVIEW: October 12, 1987

ACTION: Not authorized

COMMENTS:

- 1) It appears that the soils on your property are excessively permeable. You should carefully review the procedures of running the percolation tests, which are enclosed, to verify that you ran the tests properly. Pay special attention to the section discussing sandy soils. If you are comfortable that the percolation rates shown in the application are correct, then a six inch layer of soil having a permeability of five minutes per inch or greater must be placed between the absorption system stone and the existing soil. Your sizing will then be based on the requirements of the fill material.
- 2) What is the depth to groundwater in the area?

Please feel free to call if you have any questions, 672-6457.



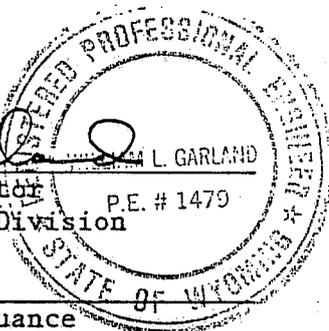
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, Wyoming 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:


William L. Garland
Administrator
Water Quality Division
P.E. # 1479
10-27-87
Date of Issuance

Robert Wood
Director
Dept. of Environmental Quality

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

RF

PERMIT TO CONSTRUCT

PERMIT NO. 87-394
SEE SPECIAL CONDITIONS

New
 Renewal
 Modified

TORRINGTON WASTEWATER RECLAMATION FACILITIES

This permit hereby authorizes the applicant:

Town of Torrington
P. O. Box 250
Torrington, Wyoming 82240

to construct, install or modify an 18-inch gravity sanitary sewer according to the procedures and conditions of the application number 87-394. The facility is located in Section 15 and 16, T24N, R61W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of 2 (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: 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.

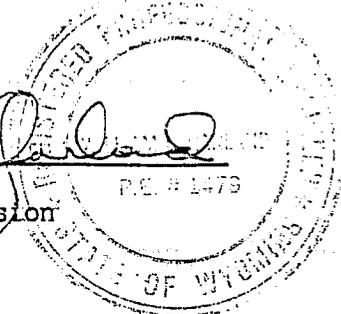
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

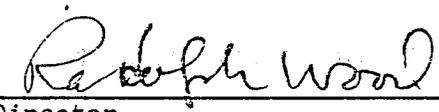
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division





Director
Department of Environmental Quality

10-29-87
Date of Issuance

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

Special Conditions for Permit to Construct 87-394

1. Engineer will verify vertical separation between 8 inch PVC sanitary sewer line and water main at manholes 21+75, 23+05, and 25+30. If separation is less than 18 inches the sewer line shall be encased in accordance with specification C-11, Protection of Potable Water Lines.
2. The allowable leakage for both exfiltration and infiltration shown in specification C-14 will be revised to meet state requirements of a maximum of 200 gallons per inch diameter per mile per day.

cc: John T. Baker
Baker & Associates
1915 First Avenue
Scottsbluff, NE 69361

file



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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) 777-7752	Water Quality Division (307) 777-7781
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October 16, 1987

Richard D. Goodard
Regulatory Affairs Supervisor
Exxon Company USA
P. O. Box 1600
Midland, Texas 79702-1600

Re: Permit 87-395

Dear Mr. Goodard:

Enclosed please find the approved permit #87-395 for monitor wells installed at Fogarty Creek Unit #35. These wells were constructed by your personnel this summer as part of an immediate response to a corrosion inhibitor spill.

Experience has shown that it sometimes takes several years for the full extent of contamination to become evident. For this reason, we are requiring you to monitor these wells for a minimum of two years.

I was impressed by the quick response to this problem on the part of Exxon USA and your field personnel in particular. Hopefully this will lead to a quick and final resolution of any and all environmental damage from this spill.

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.

Sincerely,

Robert Lucht
Groundwater Quality Control Supervisor
Water Quality Division

RL/jn

Enclosure

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

PERMIT TO CONSTRUCT

PERMIT NO. 87-395
SEE SPECIAL CONDITIONS

New
 Renewal
 Modified

FOGARTY CREEK UNIT #35

This permit hereby authorizes the applicant:

R.D. Goodard
Exxon Company USA
P. O. Box 1600
Midland, TX 79702-1600

to construct, install or modify monitor wells at the site of a corrosion inhibitor spill at Fogarty Creek Unit #35 according to the procedures and conditions of the application number 87-395. The facility is located in Section 35, T29N, R114W, SE $\frac{1}{4}$, NW $\frac{1}{4}$ in the county of Sublette, 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.

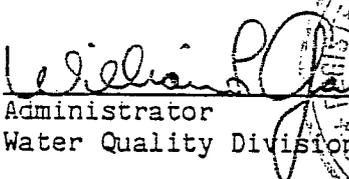
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

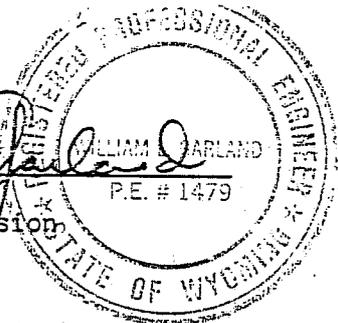
Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

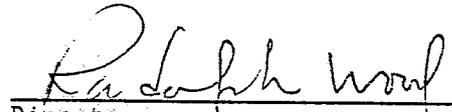
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-22-87
Date of Issuance

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

Special Conditions for Permit to Construct 87-395

1. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division.
2. Once the monitor wells have been completed, the owner will provide the Wyoming Department of Environmental Quality, Water Quality Division with a report that details the logs and locations. If the construction specifications were not included in the application or changes were made, they should be included in the report.
3. The results of any analyses conducted on soil or water removed from these wells shall be provided to the department as soon as they are available.
4. All monitor wells and soil borings will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
5. Keys for all monitoring wells shall be provided to the department within 30 days of completion of the project. Caps shall be kept locked at all times other than sampling. Any tampering with the monitor wells shall be reported immediately to the division.
6. 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. Additional monitor wells may be required as the data may indicate.

Conditions to Permit 87-395 (continued)

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. 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 should be installed according to normal engineering practice.
9. After the bentonite has been placed in the annular space of the monitoring well, it should be hydrated to insure a proper seal.
10. Depending on the results of subsurface contamination investigation, additional site investigations or remedial measures may be required by the Water Quality Division.
11. Quarterly monitoring is required for these wells with analyses run for the components of the corrosion inhibitor. Due to the remote location, a quarterly report is not required for December. Quarterly monitoring is required for two years minimum or for as long as corrosion inhibitor is detected in either well. Monitoring can be discontinued after two years or after 3 quarters showing no contamination, whichever is greater.
12. After monitoring for one year, Exxon shall submit an engineering evaluation showing all remedial measures to date, the results of all monitoring and a proposal to affect a final cleanup, if necessary. Thereafter, annual report showing all activities and results are required.
13. Samples shall be taken after purging three casing volumes from the well. All sampling equipment shall be decontaminated before being used and between each well.
14. Assays shall have limits of detection in the low PPB range for hydrocarbons dissolved in water.

cc: Jake Strohman, DEQ/WQD

RF

PERMIT TO CONSTRUCT

PERMIT NO. 87-396

- New
- Renewal
- Modified

F.E. Warren Air Force Base Evaporation Ponds

This permit hereby authorizes the applicant:

F. E. Warren Air Force Base
90 CSG/DED
F.E. Warren AFB. Wyoming 82005-5000

to construct, install or modify a oil/water separator on evaporation ponds according to the procedures and conditions of the application number 87-396. The facility is located in SW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 26, T14N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 (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.

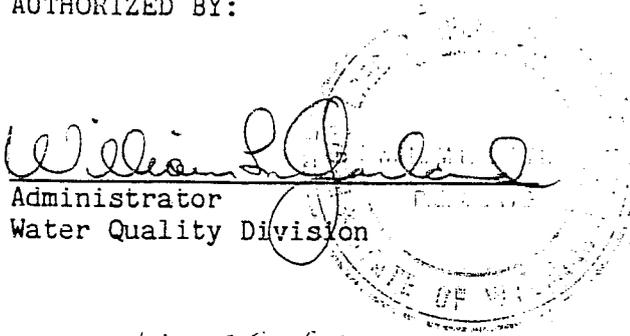
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

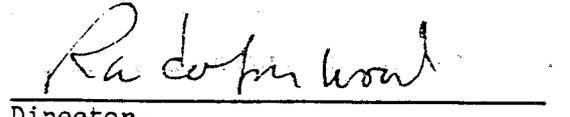
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

10-29-87
Date of Issuance

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

2F.

PERMIT TO CONSTRUCT

PERMIT NO. 87-397
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

OPAL GAS PLANT MONITORING SYSTEM

This permit hereby authorizes the applicant:

Randall T. Hicks
Geoscience Consultants, LTD.
500 Copper NW, Suite 200
Albuquerque, NM 87102

to construct, install or modify the Opal Gas Plant monitoring system according to the procedures and conditions of the application number 87-397. The facility is located in Section 27, T21N, R114W in the county of Lincoln, 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)

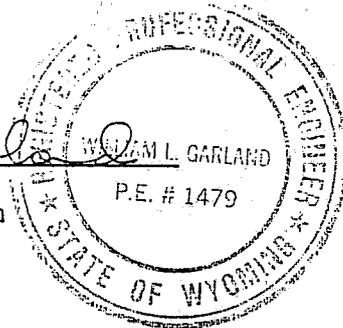
777-7781.

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:

William L. Garland
Administrator
Water Quality Division



Ralph Wood
Director
Department of Environmental Quality

10-19-87
Date of Issuance

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

Special Conditions for Permit to Construct 87-397

1. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division.
2. Once the monitor wells have been completed, the owner will provide the Wyoming Department of Environmental Quality, Water Quality Division with a report that details the logs and locations. If the construction specifications were not included in the application or changes were made, they should be included in the report.
3. The results of any analyses conducted on soil or water removed from these wells shall be provided to the department as soon as they are available.
4. All monitor wells and soil borings will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
5. The time schedule for plan implementation as submitted in October 12, 1987 proposal shall be adhered to. Drilling shall commence on or before October 19, 1987.
6. Keys for all monitoring wells shall be provided to the department within 30 days of completion of the project. Caps shall be kept locked at all times other than sampling. Any tampering with the monitor wells shall be reported immediately to the division.
7. The issuance of this permit does not relieve the permittee from obligations to

Conditions to Permit 87-397 (continued)

Complete the extent of contamination study and any further remedial actions which may be required. Additional monitor wells may be required as the data may indicate.

8. 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.
9. The groundwater monitoring wells shall be installed in accordance with the plans and specifications submitted in Permit to Construct application number 87-397.
10. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However, a sufficient seal should be installed according to normal engineering practice.
11. After the bentonite has been placed in the annular space of the monitoring well, it should be hydrated to insure a proper seal.
12. Depending on the results of subsurface contamination investigation, additional site investigations or remedial measures may be required by the Water Quality Division.
13. Prior to drilling each monitor well, the rig, augers, drill pipe and all sampling equipment shall be decontaminated in a manner commensurate with hydrocarbon sampling techniques. Decontamination shall also be practiced on all bailers and equipment used in taking water samples. Details of decontamination procedures used shall be submitted with the logs and location information required by #2 above.
14. The air lift pumping system described in the application is acceptable for purging the boreholes prior to initial screening. This pumping arrangement is not acceptable for obtaining groundwater samples from completed monitor wells due to the air stipping that is inherent in this type of pump. Water quality samples should be bailed using stainless steel bailers.
15. Stainless steel or PVC is acceptable material for well screens for all wells installed under this permit.



MIKE SULLIVAN
GOVERNOR



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) 777-7752

Water Quality Division
(307) 777-7781

October 16, 1987

Randall T. Hicks
Geoscience Consultants, LTD
500 Copper NW, Suite 200
Albuquerque, NM 87102

Re: Opal Gas Plant
Monitor Wells
Permit 87-397

Dear Mr. Hicks:

Enclosed please find a copy of your approved monitor well application. Please provide us with two additional copies of this application. While I still believe that you would be better off with larger diameter, and possibly more, wells constructed of PVC, there is certainly nothing wrong with the 2" stainless steel screens. You should be aware that a 2" screen in a 10" borehole will take a very large volume of frac sand and may take quite a while to come to equilibrium with the formation.

Sincerely,

Robert Lucht
Groundwater Control Supervisor
Water Quality Division

RL/jn

Enclosure

PERMIT TO CONSTRUCT

PERMIT NO. 87-398

- New
- Renewal
- Modified

Round Top Water Treatment Plant

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
2100 Pioneer Avenue
Cheyenne, WY 82003

to construct, install or modify municipal water treatment plant - filter backwash pump system according to the procedures and conditions of the application number 87-398. The facility is located in S16, T14N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

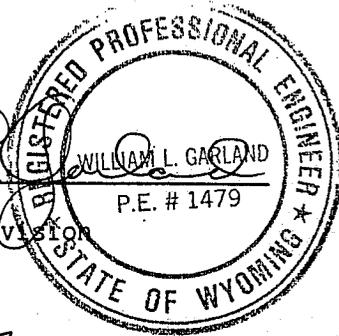
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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:

William L. Garland

Administrator
Water Quality Division



Rudolph Wood

Director
Department of Environmental Quality

11-4-87

Date of Issuance

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

RF

PERMIT TO CONSTRUCT

PERMIT NO. 87-399

X New
Renewal
Modified

Sherard Water Treatment Plant

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
2100 Pioneer Avenue
Cheyenne, WY 82003

to construct, install or modify municipal water treatment plant - modify backwash ponds according to the procedures and conditions of the application number 87-399. The facility is located in S31, T14N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

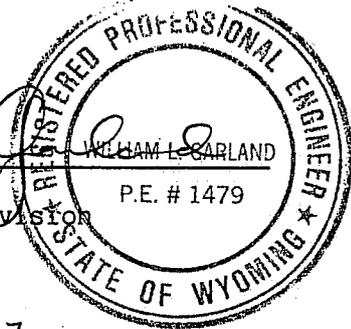
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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


William L. Garland
Administrator
Water Quality Division

Ra John Wood
Director
Department of Environmental Quality

11-4-87
Date of Issuance

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

RF

PERMIT TO CONSTRUCT

PERMIT NO. 87-400
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

GENERAL SMITH SEPTIC SYSTEM

This permit hereby authorizes the applicant:

Scott B. and Winifred G. Smith
33 Fox Creek Road
Albany County, Wyoming 82070

to construct, install or modify a small wastewater facility according to the procedures and conditions of the application number 87-400. The facility is located in Section 18, T14N, R77W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of 2 (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.

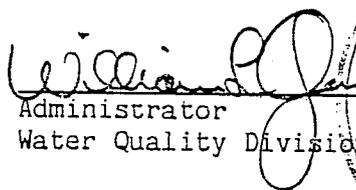
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

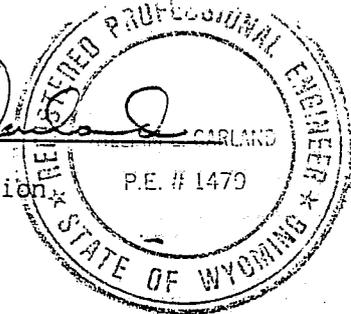
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

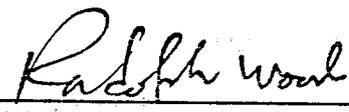
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-29-87
Date of Issuance

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

Special Conditions for Permit to Construct 87-400

1. The permittee shall notify the Albany County Planning Office, 405 Grand Avenue, Laramie, Wyoming 82070, phone number (307) 721-5188, of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. At least one working day (24 hours) notice is required prior to backfilling.
2. The septic tanks will meet the requirements of Section 39, Chapter XI, Wyoming Water Quality Rules and Regulations. Contact this office if you require a list of manufacturers which meet these requirements.

cc: Albany County Planning Office
Lloyd Baker
Gertsch/Baker & Associates
307 Grand Avenue
Laramie, WY 82070