

**CHAPTER III
APPLICATION FOR PERMIT TO CONSTRUCT,
INSTALL, OR MODIFY WATER SUPPLIES,
WASTEWATER FACILITIES, OR GROUNDWATER
POLLUTION CONTROL SYSTEMS IN WYOMING**

FOR USE BY DEQ/WQD ONLY	
APPLICATION NO.	<u>94-451</u>
DATE RECEIVED	<u>9-16-94</u>
PROGRAM ASSIGNED	<u>SE</u>

Please initial & return to IPS
APPLICATION FORM

Application must contain three copies of the application form, plans, specifications, and pertinent design information. Submit to appropriate field office.

DEQ/Water Quality Division, 122 West 26th Street, Herschler Building, 4W, WY 82002 (307) 771-7781
 DEQ/Water Quality Division, 250 Lincoln Street, Lander, WY 82520 (307) 332-3144
 DEQ/Water Quality Division, 2161 Coffeen Avenue, Sheridan, WY 82801 (307) 672-6457

RECEIVED

SEP 16 1994

Name of facility **SAFECARD FACILITY - WATER / SEWER CROSSING**

Location of facility: County: **LARAMIE**

Township: 14 N Range: 66 W

Section: 33 ¼ Section: NE

Type of application:

___ As built approval

___ Standard specification Permit

___ Revised Permit*

___ Renewal of Permit*

**WATER QUALITY DIVISION
WYOMING**

(BLOCK 47, MOUNTVIEW PARK ADDITION
CITY OF CHEYENNE)

*Previous DEQ/WQD construction permit no(s). if applicable (modification, revision or renewal) _____

Type of Project (Mark all that apply)

___ 201 Construction Grant Wastewater Treatment Plant (WWTP)

___ State Revolving Fund (SRF) WWTP

Public Water Supply (20 or more service connections)

___ Wastewater Facility

___ Monitoring wells

___ Land Application System

___ Underground Storage Tank/Leaking Underground Storage Tank (UST/LUST)

___ Site assessment/site characterization

___ Groundwater remediation/treatment systems

___ Groundwater Pollution Control (GPC) Program

___ Site assessment/site characterization

___ Groundwater and contamination containment systems

___ Groundwater remediation/treatment systems

___ Deep anode beds

including ground or surface water source, transmission line, treatment plant, chlorination or pumping system, storage facility, backflow prevention device, or laboratory

including small wastewater facility (single unit, domestic sewage, less than 2,000 gallons), domestic sewage pond, disinfection, collection or pumping system, evaporative/containment pond, sedimentation pond, mechanical treatment plant, oil/water separator (external to a structure), sludge facility or laboratory.

(groundwater contamination not determined) (P.E. not required)

including road application, land farming or one-time land application

including monitoring wells, borings, etc. (P.E. not required)

including pump and treat, bioremediation, air sparging, soil vapor extraction, oil/water separator, recovery well, etc.

including monitoring wells, borings, etc. (P.E. not required)

including physical, hydraulic, etc.

including pump and treat, etc.

Box 5
10-6-94
CONSTRUCTION

Briefly describe facilities proposed to be constructed:

A proposed 18" storm sewer lateral will cross above an existing 8" CIP water main. The main is on an easement to the City of Cheyenne. The storm sewer lateral is part of the site improvements for addition to the Safecard Services facility.

The storm sewer system improvements consist in general of reinforced concrete pipe. At this crossing it is proposed to use 18" ductile iron pipe for the section of storm sewer lateral ten feet on the side of the water main crossing, and to support the lateral where it crosses above the water main, as shown on the attached plan.

The use of ductile iron pipe is proposed in lieu of encasement of the water main or lateral. Encasement of the water main would entail excavation of the main. Encasement of the lateral would involve construction problems with an 18" pipe. Therefore, a variance to Section 14(g)(i) of Chapter XII of the Water Quality Rules and Regulations is requested to permit use of ductile iron in lieu of encasement.

Have all required State Engineer permits been obtained? Yes ___ No ___ N/A X

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.

Will the proposed water supply/wastewater treatment facility discharge to the surface? Yes ___ No X

If yes, NPDES permit application no. _____

Name of receiving waters _____

Owner	Engineer
Name: Cheyenne Board of Public Utilities	Name: George W. Barnes
Address: P. O. Box 1469	Wyoming P.E.#: 3744
<u>Cheyenne WY 82003</u>	Engineering Firm: Jack Noblitt & Associates
(City, State, Zip)	Address: 1920 Thomas Ave. Suite 620
Phone: 637-6460	<u>Cheyenne WY 82001</u>
	(City, State, Zip)
	Phone: 634-9064

This form must be signed by the owner, or in the case of the owner being a corporation or other business organization, by an individual with the legal authority to bind the corporation or business organization.

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.

Herman Noe
Owner (please print or type)

Manager of Engineering
Title

Herman Noe
Owner's Signature

9-16-94
Date



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

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

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

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

January 6, 1995

Mr. Hal Hutchinson
City Engineer
City of Casper
200 North David Street
Casper, WY 82601

RE: Casper Soccer Field Complex Project
Treated Wastewater Permit Applications
94-135/Construction & 94-452/Land Application

Dear Mr. Hutchinson:

This letter acknowledges the City of Casper's written and verbal requests to withdraw permit to construct 94-135 and land application 94-452 for treated wastewater spray irrigation at the proposed soccer field complex. These permit applications are now considered inactive.

In the event the City of Casper wishes to pursue the use of treated wastewater for spray irrigation in the future, new applications must be submitted pursuant to Chapter III of the Wyoming Water Quality Rules and Regulations.

Yours truly,

Donald R. McKenzie
NE District Engineering Supervisor
Water Quality Division

DRM/pr

xc: Patti Burns, DEQ/WQD-IPS, Cheyenne
Larry Robinson, DEQ/WQD, Cheyenne
Lynda Fivas, DEQ/WQD, Casper

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-453R
* CONDITIONED *

Pavillion - Pine Street Sewer Extension
(Name of Facility)

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

Town of Pavillion

203 1/2 N. Main Street

Riverton, WY 82501

to install approximately 290 lineal feet of eight (8) inch diameter PVC sanitary sewer main according to the procedures and conditions of the application No. 94-453R. The facility is located in NW1/4, Section 18, T3N, R2E, Town of Pavillion in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

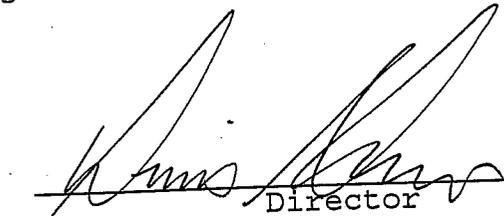
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

10/11/94

Date of Issuance

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

GL/mad 44610.LTR

STANDARD CONDITIONS 1 through 4

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

Permit to Construct
94-453R
Pavillion - Pine St. Sewer
Page 3

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

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

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-453R
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. Yes
- B. Chapter XII. No
- III. Basis for issuing permit.
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations.
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
N/A
- B. Briefly state the basis for the deviation.
N/A
- C. Permit based on general or statewide deviation contained in approved policy statement.
N/A
- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

Statement of Basis
94-453R
October 7, 1994

N/A

VI. Documentation of Statement of Basis.

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



THE STATE OF WYOMING

IPS



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848

• Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

October 11, 1994

Jack Noblitt & Associates
Attn: Mark Anderson
1920 Thomas Ave., Suite 620
Cheyenne, WY 82001

RE: Town of Ten Sleep
Street Reconstruction - Phase III *94-454*
DEQ Application for Permit to Construct

Dear Mr. Anderson:

application withdrawn

I am returning your application and accompanying sets of plans and construction documents. After reviewing the Town of Ten Sleep application, it has been determined a DEQ application for permit to construct is not necessary since no new installation of water or sanitary sewer lines is being considered; only water and storm sewer crossings.

However, I ask that you consider the following:

- 1). Do not uncover any existing water line simply to try and meet the "encasement" requirement in the Wyoming Public Works Standard Specifications and the Wyoming Water Quality Rules and Regulations.

Discussion: I believe you would do more harm than good to over excavate the water line to encase it than if the line was left alone. The regulation for encasing the water line crossings most likely was intended for new water line construction, in which case it is prudent and feasible to encase the water line.

- 2). Do support the pipe as designed.
- 3). Do pay special attention around the area of the water line crossing by using select backfill with proper compaction or backfill with flowable fill.

(over)

- 4). Consider a transition from concrete to a "water grade" quality pipe such as ductile iron and center a full section of pipe over the water line to get adequate separation distance between the nearest exposed joint and the water line.
- 5). If a transition pipe is not feasible, consider sealing the joints of the concrete pipe through the crossing to get adequate separation distance between the untreated joints and the water line (ie. 10' separation distance between the nearest untreated joint and the water line).

Please give me a call if you have any questions concerning this application or the discussion of the crossing.

Sincerely,



Greg Lanning
Senior Analyst

encl.

cc: Town of Tensleep
Larry Robinson, DEQ/WQD, Cheyenne
Jeff Hermansky, DEQ NW District Supervisor
file

**CHAPTER III
APPLICATION FOR PERMIT TO CONSTRUCT,
INSTALL, OR MODIFY WATER SUPPLIES,
WASTEWATER FACILITIES, OR GROUNDWATER
POLLUTION CONTROL SYSTEMS IN WYOMING**

FOR USE BY DEQ/WQD ONLY

APPLICATION NO. 94-454

DATE RECEIVED _____

PROGRAM ASSIGNED _____

APPLICATION FORM

Application must contain three copies of the application form, plans, specifications, and pertinent design information. Submit to appropriate field office.

DEQ/Water Quality Division, 122 West 26th Street, Herschler Building, 4W, Cheyenne, WY 82002 (307) 771-7781
 DEQ/Water Quality Division, 250 Lincoln Street, Lander, WY 82520 (307) 332-3144
 DEQ/Water Quality Division, 2161 Coffeen Avenue, Sheridan, WY 82801 (307) 672-6457

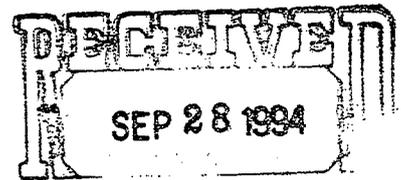
Name of facility Ten Sleep Street Reconstruction - Phase III

Location of facility: County: Washakie Type of application: New permit*
 Township: 47N Range: 88W As built approval Revised Permit*
 Section: 16 ¼ Section: SW Standard specification Permit Renewal of Permit*

*Previous DEQ/WQD construction permit no(s). if applicable (modification, revision or renewal) _____

of Project (Mark all that apply)

- 201 Construction Grant Wastewater Treatment Plant (WWTP)
- State Revolving Fund (SRF) WWTP
- Public Water Supply (20 or more service connections) including ground or surface water source, transmission line, treatment plant, chlorination or pumping system, storage facility, backflow prevention device, or laboratory
- Wastewater Facility including small wastewater facility (single unit, domestic sewage, less than 2,000 gallons), domestic sewage pond, disinfection, collection or pumping system, evaporative/containment pond, sedimentation pond, mechanical treatment plant, oil/water separator (external to a structure), sludge facility or laboratory.
- Monitoring wells (groundwater contamination not determined) (P.E. not required)
- Land Application System including road application, land farming or one-time land application
- Underground Storage Tank/Leaking Underground Storage Tank (UST/LUST)
- Site assessment/site characterization including monitoring wells, borings, etc. (P.E. not required)
- Groundwater remediation/treatment systems including pump and treat, bioremediation, air sparging, soil vapor extraction, oil/water separator, recovery well, etc.
- Groundwater Pollution Control (GPC) Program
- Site assessment/site characterization including monitoring wells, borings, etc. (P.E. not required)
- Groundwater and contamination containment systems including physical, hydraulic, etc.
- Groundwater remediation/treatment systems including pump and treat, etc.
- Deep anode beds



Briefly describe facilities proposed to be constructed: The Town of Ten Sleep will modify a section of storm sewer line
lower section of storm sewer. These storm sewer lines cross existing water lines and the separation between the storm sewer and water
lines are less than 18". It is proposed to wrap the existing water line with 40 PVC pond liner instead of lowering the existing water main
and enclosing with a separate conduit pipe.

Have all required State Engineer permits been obtained? Yes _____ No _____ N/A X

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.

Will the proposed water supply/wastewater treatment facility discharge to the surface? Yes _____ No X

Owner	Engineer
Name: Town of Ten Sleep	Name: Jack Noblitt
Address: P. O. Box 5	Wyoming P.E.#: 1061
Ten Sleep, Wyoming 82442	Engineering Firm: Jack Noblitt & Associates, pc.
(City, State, Zip)	Address: 1920 Thomas Ave., Suite 620
Phone: (307) 366-2265	Cheyenne, Wyoming 82001
	(City, State, Zip)
	Phone: (307) 634-9064

If yes, NPDES permit application no. _____

Name of receiving water: _____
This form must be signed by the owner, or in the case of the owner being a corporation or other business organization, by an individual
with the legal authority to bind the corporation or business organization.

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.

Ralph Beckett - Town of Ten Sleep
Owner (please print or type)

Ralph Beckett
Owner's Signature

Maver
Title

Sept 21, 1994
Date

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-455
* **CONDITIONED** *

Riverton - Honor Farm Water Transmission Line
(Name of Facility)

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

City of Riverton

P.O. Box 1700

Riverton, WY 82501

to install approximately 8700 lineal feet of twelve (12) inch diameter PVC water line, water meter and vault and appurtenances according to the procedures and conditions of the application No. 94-455. The facility is located in Sections 23 & 14, T1N, R4E, City of Riverton in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

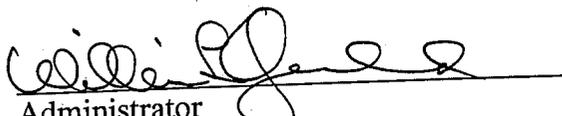
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

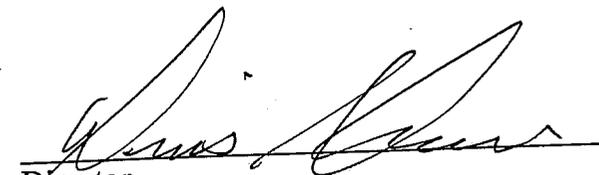
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-12-94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.

Permit to Construct 94-455
Riverton - Honor Farm Water

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

GL/nc 44684.LTR

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-455
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. No
- B. Chapter XII. Yes
- III. Basis for issuing permit.
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations.
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
N/A
- B. Briefly state the basis for the deviation.
N/A
- C. Permit based on general or statewide deviation contained in approved policy statement.
N/A

Statement of Basis
94-455

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

N/A

- VI. Documentation of Statement of Basis.

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

GL/nc 44684.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-456
SPECIAL CONDITIONS

Louisiana Land and Exploration Company - Statewide Deep Anode Beds

This permit hereby authorizes the applicant:

Louisiana Land and Exploration Company
1560 Broadway, Suite 1200
Denver, Colorado 80202

to construct, install or modify a deep bed anode system according to the procedures and conditions of the application number 94-456. The facility is located in Statewide in the county of Statewide, in the State of Wyoming. This permit shall be effective for a period of five (5) years from the date of issuance of this permit.

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

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

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

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

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

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

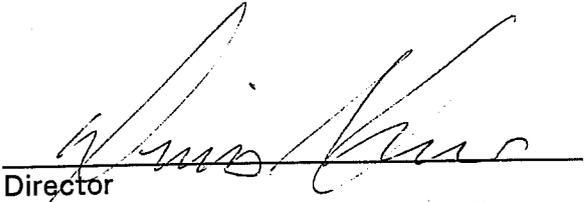
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-3-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 6. The cathodic protection deep anode bed shall be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application number 94-456.
- 2 of 6. After the deep anode beds have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 45 days after a well has been plugged and abandoned, the owner shall file a plugging record with WQD.
- 3 of 6. In addition to the anode bed construction information submitted with the permit application, the following items relating to construction shall be implemented when the anode beds are installed:
 - a. A seal of bentonite or bentonite grout is required from the surface to a minimum depth of 3 feet. A second bentonite or bentonite grout seal is required for a minimum thickness of 3 feet, just above the top of the coke breeze. After the bentonite has been placed in the hole, it shall be hydrated to insure a proper seal. The remainder of the hole between these seals may be backfilled with cuttings.

PERMIT NO. 94-456

- b. All aquifers encountered while drilling shall be isolated from one another using a bentonite seal of at least 2 feet in vertical dimension.
 - c. The coke breeze shall be a high quality product containing a minimum of leachable metals or organic pollutants. The coke breeze shall not discharge any pollutant which will cause a groundwater standards violation.
 - d. Surface access to the anode shall be kept sealed and locked at all times when the anode is not actually being serviced.
 - e. Each separate aquifer penetrated shall require a separate breather pipe. Each aquifer shall remain in hydrologic isolation from each other if they were isolated prior to installation.
- 4 of 6. Within 45 days after the anodes are installed, as-built construction plans shall be submitted to the DEQ/WQD, detailing how groundwater was protected during installation.
- 5 of 6. If it becomes necessary to wet any anode installed under this permit, only water from an approved public water supply shall be used unless DEQ/WQD is first supplied with an analyses of the water for approval. Waters that originate in sources other than an approved public water supply shall not be used unless first approved.
- 6 of 6. An unlimited number of similar anodes may be installed under this permit. This authorization applies to Louisiana Land and Exploration Company and all subsidiary companies operating in Wyoming.

RFL/nc 44398.LTR

R7

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 94-457
SPECIAL CONDITIONS

Swantek Septic 1 (Residential Septic System)

This permit hereby authorizes the applicant:

Conilee & David L. Swantek
P.O. Box 579
Guernsey, WY 82214

to construct, install or modify residential septic system according to the procedures and conditions of the application number 94-457. The facility is located in NW 1/4 Section 34, T27N, R66W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

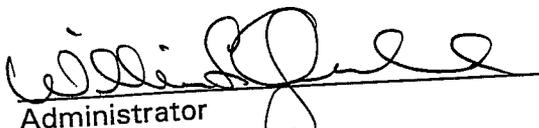
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Office,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

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

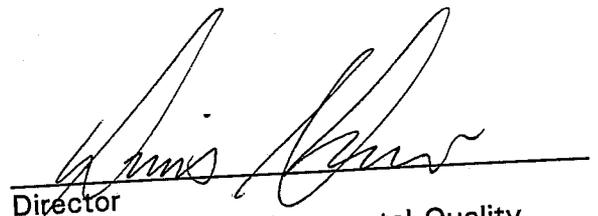
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10/11/94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 6 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 6 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 6 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

Permit #94-457

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 6 The septic tank shall have a 6 inch cleanout or a manway extended to the ground surface.

6 of 6 The replacement area for the leach field shall be located south of the proposed leach field.

GLS/nc 44657.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-457

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

Yes

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

No

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

No

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

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

N/A

B. Briefly state the basis for the deviation.

N/A

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

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

- VII. Documentation of Statement of Basis.

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

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

GS/nc 44657.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-458
SPECIAL CONDITIONS

Moorcroft Bighorn Street Water & Sewer Improvements

This permit hereby authorizes the applicant:

Town of Moorcroft
P.O. Box 70
Moorcroft, Wyoming 82721

to construct, install or modify a water distribution system and sewage collection system according to the procedures and conditions of the application number 94-458. The facility is located in the Section 6, Township 49 North, Range 67 West, and Section 31, Township 50 North, Range 67 West in the county of Crook, in the State of Wyoming. This permit shall be effective for a period of one year from the date of issuance of this permit.

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

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

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

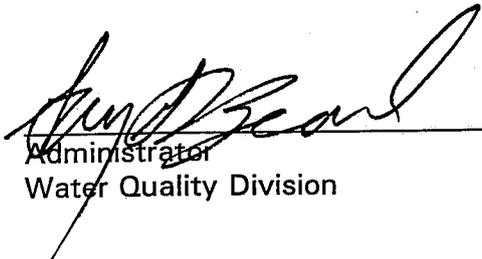
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue Suite D, Sheridan, Wyoming 82801; telephone (307) 672-6457.

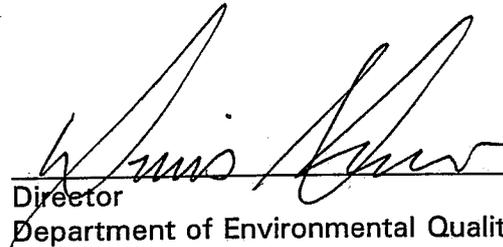
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

5-8-95

Date of Issuance

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

STANDARD CONDITIONS

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

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

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

BDM/pr:5/01/95

b/51908.ltr

Attachments: Notification Post Card
Certification of Completion Form
Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-458

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

A. Chapter XI. yes

B. Chapter XII. yes

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

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

no

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

no

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

no

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

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

Wyoming Water Quality Rules and Regulations (WWORR) Chapters XI and XII, Section 2.(b) stipulates the standards contained therein pertain to permits required pursuant to Chapter III of WWORR. Chapter III Section 5.(b) of WWORR states no construction of a public water, sewerage system shall be allowed until a construction permit has been obtained.

B. Briefly state the basis for the deviation.

Part of this project, estimated 40-50%, was constructed before a Department of Environmental Quality/Water Quality Division construction permit had been obtained. The applicant's engineer failed to follow the requirements to obtain a Chapter III permit. Information submitted after the non-permitted construction indicates the project meets the minimum requirements of Chapters XI and XII of WWORR.

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

not applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

not applicable

- VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review is performed by Brian D. Mark, P.E., Senior Environmental Analyst, and completed on May 1, 1995. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis".

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

BDM/b/51908.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-459
SPECIAL CONDITIONS

Sam H. Hobbs Regional Wastewater Facility-Automation Project

This permit hereby authorizes the applicant:

City of Casper
200 N. David Street
Casper, Wyoming 82601

to construct, install or modify a plant automation system and appurtenances according to the procedures and conditions of the application number 94-459. The facility is located in the NW/4 of the NW/4 of Section 2, Township 33 North, Range 79 West in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of one year from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue Suite D, Sheridan, Wyoming 82801; telephone (307) 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.

STATEMENT OF BASIS

- I. General information.
 - A. Permit Number: 94-459
- II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)
 - A. Chapter XI. yes
 - B. Chapter XII. no
- III. Basis for issuing permit. (Indicate yes or no for each section.)
 - A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
yes
 - B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
no
 - C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
no
- IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)
 - A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
not applicable
 - B. Briefly state the basis for the deviation.
not applicable
 - C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).
not applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

not applicable

VII. Documentation of Statement of Basis.

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

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

33954.DOC

file

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-460
SPECIAL CONDITIONS

Richards Park 2nd Addition to the City of Laramie

This permit hereby authorizes the applicant:

Mr. Paul Greaser
407 Garfield
Laramie, WY 82070

to construct, install or modify extension of public water distribution system and sewer collection system according to the procedures and conditions of the application number 94-460. The facility is located in SE 1/4 Section 27, T16N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

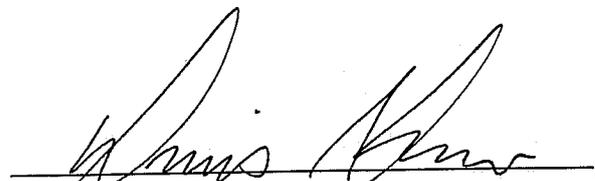
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-19-94

Date of Issuance

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

SPECIAL CONDITIONS

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

Permit #94-460

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

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

GLS/nc 44812.LTR

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-460
- II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)
- A. Chapter XI. Yes
- B. Chapter XII. Yes
- III. Basis for issuing permit. (Indicate yes or no for each section.)
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
N/A
- B. Briefly state the basis for the deviation.
N/A

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

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

- VII. Documentation of Statement of Basis.

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

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

GS/nc 44812.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-461
SPECIAL CONDITIONS

UPRR/VULCAN CHEMICAL SPILL SITE

This permit hereby authorizes the applicant:

UNION PACIFIC RAILROAD
103 UNIVERSITY AVE.
LARAMIE, WY 82070

to construct, install or modify monitor wells/boreholes according to the procedures and conditions of the application number 94-461. The facility is located in NE ¼ Section 5, Township 13 North, Range 66 West in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five (5) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue, Suite D, Sheridan, Wyoming 82801; telephone (307) 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 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

10-24-94
Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 8) The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-461. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the WQD.
- 2 of 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 the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
- 3 of 8) After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city and/or highway department requirements. No monitoring well shall be abandoned without prior approval from the Water Quality Division.

- 4 of 8) The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the nature and extent of the contamination.
- 5 of 8) DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 6 of 8) Within ninety (90) days of the issuance of this permit, a Report of Investigation (ROI) shall be submitted to WQD (attachment to Permit to Construct #94-461).
- 7 of 8) All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters according to EPA Method 8021, as submitted in the workplan:

Tetrachloroethylene (PCE),
Trichloroethylene (TCE),
1,2-dichloroethene (DCE),
Vinyl Chloride

These sampling and analytical results shall be incorporated into the quarterly sampling and analysis reporting schedule currently in place for this facility. The initial analytical results are due upon receipt.

- 8 of 8) Water which is collected during monitoring well development or sampling must be disposed of properly. The applicant must contact the city for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.

WDF/pr/mad 44864.LTR
attachment: Report of Investigation

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

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

PROJECT: SITE CHARACTERIZATION

FACILITY: Vulcan Chemical Spill, UPRR Yards, Cheyenne

APPLICANT: Mr. Gary Honeyman
 Union Pacific Railroad
 103 University Ave.
 Laramie, WY 82070

ENGINEER/
CONSULTANT: Mr. Denton Mauldin
 USPCI
 5665 Flatiron Parkway
 Boulder, CO 80301

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-461

EXISTING NEW AS BUILT

TITLE: 1) Workplan for Additional Site Characterization
 Vulcan Cheyenne Treatment Facility At The UPRR
 Cheyenne Rail Yard Cheyenne, Wyoming

 2) Ground Penetrating Radar Study

PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/REPORT: 5/20/94; 7/14/94
 9/28/94 (Chapter 3 app. received)

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES 12/20/93

REVIEWING GEOLOGIST:

(Signature)

DATE OF THIS REVIEW: 10/18/94

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS: GROUNDWATER SECTION

I. SUMMARY OF EXISTING CONTAMINATION:

Tetrachloroethylene, trichloroethylene, and 1,2-dichloroethene have been detected in soil borings, monitor wells and recovery wells at the Vulcan Chemical spill site. The spill occurred in February, 1989 from a tank car at the Union Pacific Company's Cheyenne rail depot. Diesel has also been detected at the site, which has migrated into this area from another source. The following table displays the February, 1994 analytical results.

MW	PCE (ppm)	TCE (ppm)	DCE (ppm)
#1	0.170	5.500	5.200
#2	3.900	1.300	3.100
#3	†	†	†
#4	0.010	0.010	0.057
#5	0.005	0.005	0.005
RW-1	11.000	3.500	2.500
*MCL	0.005	0.005	0.005

Table 1: February 1994 Analytical Results

† Well not accessible on this date

* Maximum Contaminant Level

II. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

Remedial measures in place at this site include soil vapor extraction and groundwater pump and treat systems. Although a significant amount of site remediation has been accomplished to date, the full extent of contamination, both horizontally and vertically has not been characterized. The current proposal addresses comments that were submitted jointly by the WDEQ/WQD and EPA to Vulcan chemical in correspondence dated December 20, 1993.

III. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

- 1) Page 3, 2.3: Proposed response to Comment No. 1: "MW-7 will be installed as an up-gradient well." The proposed location for MW-7 is not out of the potential angle of influence of the contamination. As such, MW-7 should not be used as an upgradient well. If the well is constructed at the location proposed in the proposal and contamination is encountered, further well

installation(s) will be required to delineate the upgradient extent of contamination.

- 2) Page 5, 3.3: "...WTMC is also installing a sub-grade "mechanical room" ..." The EPA and WDEQ/WQD note health and safety concerns in relation to this proposed "mechanical room" and the contaminants at the site. As such, health and safety concerns need to be addressed both during the Phase II investigation and dependent upon Phase II sampling and analysis, during the construction of the mechanical room.
- 3) Figure 2, Utility Location Map: The EPA and WDEQ/WQD would like justification regarding the proposed locations of the two utility excavations (approximately 45' and 65' away from the inferred/known PCE plume boundary). The EPA and WQD recommend that the two utility excavations be located closer to the inferred/known PCE plume boundary (ie., further north), somewhere between the shed and the most proximate railroad track.
- 4) Ground Penetrating Radar Study: Page 6, Sections 3.5.1 and 3.5.2: Please submit a copy of all profiles from the study to this department.

Permit To Construct #94-461 is authorized under the following conditions:

- 1) The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-461. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the WQD.
- 2) Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
- 3) After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city

and/or highway department requirements. No monitoring well shall be abandoned without prior approval from the Water Quality Division.

- 4) The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the nature and extent of the contamination.
- 5) DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 6) Within ninety (90) days of the issuance of this permit, a Report of Investigation (ROI) shall be submitted to WQD (attachment to Permit to Construct #94-461).
- 7) All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters according to EPA Method 8021, as submitted in the workplan:

Tetrachloroethylene (PCE),
trichloroethylene (TCE),
1,2-dichloroethene (DCE),
Vinyl Chloride

These sampling and analytical results shall be incorporated into the quarterly sampling schedule currently in place for this facility. The initial analytical results are due upon receipt.

- 8) Water which is collected during monitoring well development or sampling must be disposed of properly. The applicant must contact the city for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.

END OF REVIEW

**"WDEQ/WQD Minimum Content Requirements for a Subsurface
Investigation (SSI) Report of Investigation (ROI)"**

The ROI shall include the following:

1. A chronology of events leading up to the investigation;
2. Final location, "as-built" construction details and lithologic logs (including olfactory or original vapor sensing instrument data) of monitor wells and boreholes;
3. A site map showing:
 - a. physical features (i.e. structures, utilities, etc.);
 - b. monitoring well and borehole locations;
 - c. existing treatment, recovery and containment systems.
4. Geohydrologic maps and cross sections that clearly describe the subsurface distribution of geologic materials and elevations of groundwater;
5. Depth to water and product thickness measurements;
6. Monitor well and soil boring installation procedures utilized, including well development method;
7. A map delineating the extent of the subsurface contamination including LNAPL (free product), soil and dissolved groundwater contamination, including contaminant isopach maps for chlorinated hydrocarbon concentrations, and product layer thickness;
8. A potentiometric surface map showing the direction and gradient of groundwater flow;
9. Interpretation of the data and summary conclusions of the investigation results;
10. A recommended **Corrective Action Plan** and schedule for **either**:
 - A. Development and implementation of additional **Subsurface Investigation** work;

OR

 - B. Development and implementation of **Corrective Measures** to:
 1. Control (contain) the migration of contaminated (dissolved) groundwater;
 2. Restore the quality of groundwater to within Wyoming groundwater quality standards.

OR

- C. Development and submittal of Statement of Basis to justify Project (Site) Closure.

NOTE: All plans and schedules for implementation of Subsurface Investigations, Corrective Measures and Project (Site) Closure require Department of Environmental Quality, Water Quality Division (WDEQ/WQD) approval prior to their implementation;

11. Sampling and Analysis Plan (SAP) for continued groundwater monitoring and reporting. The SAP shall include at a minimum:

- A. Description of sampling procedures to be followed, including:

1. Sample Collection Procedures

- a. measurement of static water level elevation;
- b. detection of immiscible layers;
- c. well evacuation;
- d. sample withdrawal;
- e. Disposal of purged waters (groundwater samples);
- f. Disposal of decontamination reinstates;

2. Sample Preservation and Handling Procedures

- a. sample containers;
- b. sample preservation;

3. Chain of Custody Record

4. Analytical Procedures

- B. Description of Quality Assurance/Quality Control to be followed, including:

1. Field QA/QC Program;
2. Laboratory QA/QC Program.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-462
SPECIAL CONDITIONS

Security Police Renovation, Bldg 34

This permit hereby authorizes the applicant:

Jack B. Knudson
90 CES/CD
F.E. Warren AFB, WY 82005-2788

to construct, install or modify fire and water service lines according to the procedures and conditions of the application number 94-462. The facility is located in T14N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the

project. The authorized representative in your area can be contacted at the following address: Southeast District Office, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

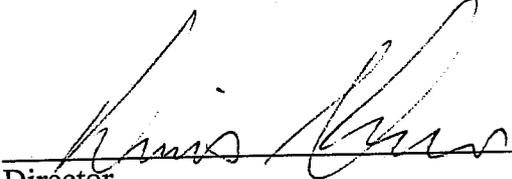
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

11/8/94

Date of Issuance

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

SPECIAL CONDITIONS

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

Permit #94-462

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

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

GLS/nc 45161.LTR

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-462
- II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)
- A. Chapter XI. No
- B. Chapter XII. Yes
- III. Basis for issuing permit. (Indicate yes or no for each section.)
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
- Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
- No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
- No
- IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
- N/A
- B. Briefly state the basis for the deviation.
- N/A

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

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

- VII. Documentation of Statement of Basis.

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

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

GLS/nc 45161.LTR

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Security Police Renovation, Bldg 34

ENGINEER: Bob Herb
90 CES/CEE
F.E. Warren AFB, WY 82005

APPLICANT: Jack Knudson
90 CES/CD
F.E. Warren AFB, WY 82005-2788

WATER QUALITY REFERENCE NUMBER: 94-462

APPROVING ENGINEER: Gary Steele



DATE OF REVIEW: October 17, 1994

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1. Water Quality Rules and Regulations Chapter XII Section 14(i) requires that Cross-connection control be provided. The proposed 6 inch fire service line requires a Cross-connection control device on it to separate the fire sprinkler system from the distribution system. Water Quality Rules also requires that the Cross-connection device to be approved by the Foundation for Cross-connection Control, University of Southern California. Please provide information on the proposed cross-connection device for review.
2. Specifications Section 3.1.2.1.2 Crossings indicates that concrete encasement is an acceptable method of protection for the water line. The Department of Environmental Quality does not recognize concrete encasement as an acceptable method of protecting the water line from contamination. The water or sewer line may be placed in a separate conduit or the sewer line may be replaced with water grade pipe and tested accordingly.

/nc 44813.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-463
SPECIAL CONDITIONS

Means 1st Extension Water Storage Improvements

This permit hereby authorizes the applicant:

Means 1st Extension Water & Sewer District
P.O. Box 1661
Gillette, Wyoming 82717

to construct, install or modify a water system according to the procedures and conditions of the application number 94-463. The facility is located in the SE/4 of Section 09, Township 50 North, Range 72 West in the county of Campbell, in the State of Wyoming. This permit shall be effective for a period of one year from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue Suite D, Sheridan, Wyoming 82801; telephone (307) 672-6457.

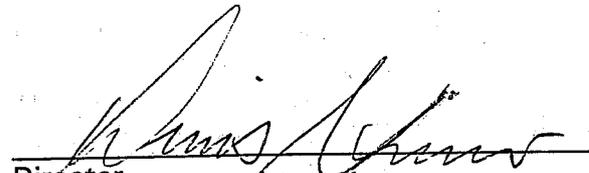
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any 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

1-13-95

Date of Issuance

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

STANDARD CONDITIONS

- 1 of 5. The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 5. The applicant will provide immediate oral and/or written notice to the Northeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 5. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

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

4 of 5. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 5. An O&M Manual for the water system shall be provided to the Sheridan District Office for approval prior to the operation of the water treatment facility. The O&M Manual shall contain all pertinent information necessary to satisfy the requirements of Chapter XII, Section 16 of the Wyoming Water Quality Rules and Regulations.

BDM/pr:50196.LTR

Attachments: Notification Post Card
Certification of Completion Form
Statement of Basis

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-463
- II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)
- A. Chapter XI. no
- B. Chapter XII. yes
- III. Basis for issuing permit. (Indicate yes or no for each section.)
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
no
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
no
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
no
- IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
- 1) Chapter XII Section 14.(c) of the Wyoming Water Quality Rules and Regulations (WWQRR) requires valves at 500 foot intervals on watermains servicing commercial districts and 800 foot intervals for other districts to minimize inconvenience and sanitary hazards during repairs.
- 2) Chapter XII Section 62 (a) of Part G of the WWQRR requires a permit to construct for public water supply wells.
- B. Briefly state the basis for the deviation.
- 1) The system is located in an isolated area and the number of users per length of waterline is low. The placement of valves at the required intervals would increase the cost of the project without realizing significant benefits. However if the number of users on the system increases to a level which

warrants additional valving, the department reserves the authority to require the system to be modified.

2) Two public water supply wells were constructed at the proposed facility location without a permit to construct. The construction of the wells appears to satisfy the intent of Part G of Chapter XI of the WWQRR. As-built approval is granted for the construction of these two water supply wells.

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

not applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

not applicable

- VII. Documentation of Statement of Basis.

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

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

THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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October 7, 1994

Mr. and Mrs. Craig Bruch
201 Christenson Street
Newcastle, WY 82701

RE: As-Built Permit To Construct
Single Family Wastewater System
DEQ/WQD Application 94-464

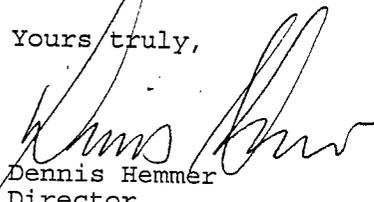
Dear Mr. and Mrs. Bruch:

The Department of Environmental Quality, Water Quality Division (DEQ/WQD) has reviewed the referenced as-built application for the construction of a single family wastewater system. Our review indicates the application appears to be in compliance with the DEQ/WQD regulations. An as-built permit to construct is hereby issued and enclosed.

Please be advised that the wastewater system must be constructed, installed, and operated in accordance with the statements, representations, and procedures presented in the application and all supporting documentation, as well as the terms and conditions of the as-built permit. You are urged to be familiar with all aspects of the permit application, permit, and permit conditions.

Any person objecting to an action by the DEQ/WQD and desiring affirmative relief may request a hearing before the Environmental Quality Council in accordance with the procedures in the enclosed Rules of Practice and Procedure and the Wyoming Administrative Procedures Act.

Yours truly,


Dennis Hemmer
Director
Department of Environmental Quality

DH:DRM/pr/mad 44613.LTR
Enclosures: As-Built Permit 94-464
Rules of Practice and Procedure

xc: Sheridan District File 94-464

AS - BUILT
PERMIT TO CONSTRUCT

Permit No. 94-464
SEE AS-BUILT PERMIT CONDITIONS

- New
 Renewal
 Modified

BRUCH SINGLE FAMILY WASTEWATER SYSTEM

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

Craig and Joni Bruch
201 Christenson Street
Newcastle, WY 82701

to have constructed a single family wastewater system according to the procedures and conditions of the application number 94-464. The wells are located in the NE/4 of Section 30 T45N R61W in the County of Weston in the State of Wyoming.

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 (DEQ/WQD), upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

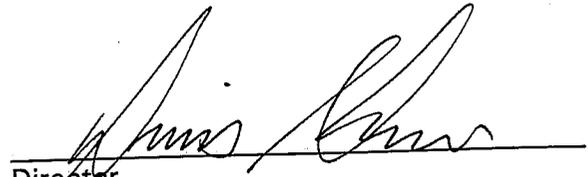
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10/11/94

Date of Issuance

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

AS-BUILT PERMIT CONDITIONS

1 of 1 The review and approval of this as-built permit is based upon the items identified in the attached "Statement of Basis".

DRM/pr/mad 44612.LTR

STATEMENT OF BASIS

- I. General information.
 - A. Permit Number: 94-464
- II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)
 - A. Chapter XI. Yes.
 - B. Chapter XII. No.
- III. Basis for issuing permit. (Indicate yes or no for each section.)
 - A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
Yes.
 - B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No.
 - C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No.
- IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)
 - A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
Not Applicable (N/A).
 - B. Briefly state the basis for the deviation.
N/A.
 - C. Permit based on general or statewide deviation contained in approved policy statement(indicate the policy number and briefly summarize the nature of the deviation).
N/A.
- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI from Statement of Basis.)
N/A.

VII. Documentation of Statement of Basis.

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

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

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-465
* CONDITIONED *

K N Energy, Inc., Natural Gas Lysite Unit
(Name of Facility)

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

K N Energy, Inc.
370 Van Gordon Street
Lakewood, CO 80228-8304

to install a monitor well for site assessment according to the procedures and conditions of the application No. 94-465. The facility is located in SW1/4, Sec. 12, T38N, R91W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

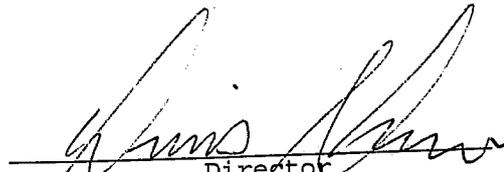
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

10-24-94
Date of Issuance

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

STANDARD CONDITIONS 1 through 4

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

Standard Monitoring Well/Piezometer Conditions

- 1 of 12. The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-465. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 12. All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
- 3 of 12. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
- 4 of 12. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.
- 5 of 12. Water which is collected during monitoring well/piezometer development or sampling shall be disposed of properly. The permittee shall obtain permission from the owner for disposal into a storm sewer, sanitary sewer, wastewater treatment plant, disposal pond or other facility or shall obtain authorization from DEQ to apply to the surface or discharge to any waters of the state.
- 6 of 12. After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city and/or highway department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
- 7 of 12. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 8 of 12. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors. Solvents or glues shall not be used in the construction or installation of a well.
- 9 of 12. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 10 of 12. Proper monitoring well/piezometer evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first.

Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

1.11 of 12. The results of any other analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.

12 of 12. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells/piezometers shall be installed to define the nature and extent of the contamination.

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-465
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. YES
- B. Chapter XII. NO
- III. Basis for issuing permit.
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
YES
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
NO
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
NO
- IV. Facilities not specifically covered by regulations.
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
N/A
- B. Briefly state the basis for the deviation.
N/A
- C. Permit based on general or statewide deviation contained in approved policy statement.
N/A
- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.
NOT
- VII. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-466R
* CONDITIONED *

P.A.B. Widener Small Wastewater
(Name of Facility)

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

P.A.B. Widener
109 Arapahoe Dr.
Old Baldy Village
Saratoga, WY 82331

to construct a small waste water system according to the procedures and conditions of the application No. 94-466R. The facility is located in 109 Arapahoe Dr.; Old Baldy Village T17N R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

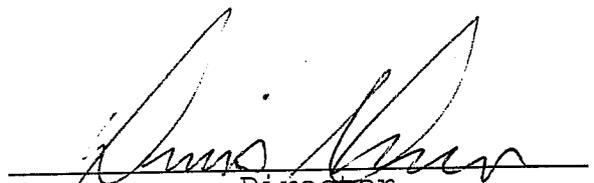
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

10-26-94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date

Permit to Construct
P.A.B. Widener Small Wastewater
94-466R
Page 3

construction will begin and the estimated completion date.

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

RRT/mad 44989.LTR

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-466R
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. Yes
- B. Chapter XII. No
- III. Basis for issuing permit.
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
- Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
- No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
- No
- IV. Facilities not specifically covered by regulations.
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
- NA
- B. Briefly state the basis for the deviation.
- NA
- C. Permit based on general or statewide deviation contained in approved policy statement.
- NA

Statement of Basis
94-466R
October 24, 1994

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote¹

Not Applicable

- VI. Documentation of Statement of Basis.

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

¹ Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-467
* **CONDITIONED** *

Jackson - 12 Center Street
(Name of Facility)

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

Jackson Hole Development Company

c/o Calvin N. Mathieu

P. O. Box 1659, Jackson, WY 83001

to construct about 14 feet of 4 inch ductile iron water main with backflow prevention according to the procedures and conditions of the application No. 94-467. The facility is located in SW 1/4 Sec. 27, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

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

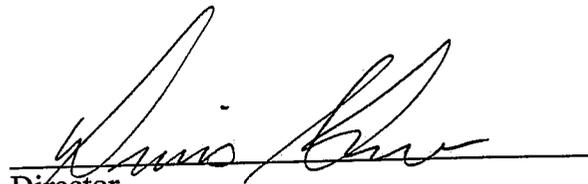
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-12-94

Date of Issuance

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

JH/jm/nc 44681.LTR
xc: Sandy Buckstaff, Town of Jackson

STANDARD CONDITIONS 1 through 4

1. of 4

The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.

Permit to Construct 94-467
Jackson - 12 Center Street

2. of 4 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3. of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

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

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-467

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. NO

B. Chapter XII. YES

III. Basis for issuing permit.

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

YES

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

NO

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

NO

IV. Facilities not specifically covered by regulations.

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

N/A

B. Briefly state the basis for the deviation.

N/A

C. Permit based on general or statewide deviation contained in approved policy statement.

N/A

Statement of Basis
94-467

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

NOT

JH/jm/nc 44681.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-468
SPECIAL CONDITIONS

Exxon Corporation - Statewide Deep Anode Beds

This permit hereby authorizes the applicant:

Exxon Corporation
P.O. Box 1600
Midland, TX 79702

to construct, install or modify a deep bed anode system according to the procedures and conditions of the application number 94-468. The facility is located in Statewide in the county of Statewide, in the State of Wyoming. This permit shall be effective for a period of five (5) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the

project. The authorized representative in your area can be contacted at the following address: Program Supervisor, UIC Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

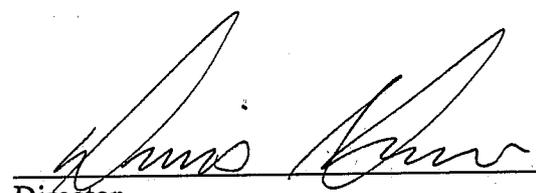
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-20-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 6. The cathodic protection deep anode bed shall be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application numbers 89-494 and 94-468.
- 2 of 6. After the deep anode beds have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 45 days after a well has been plugged and abandoned, the owner shall file a plugging record with WQD.
- 3 of 6. In addition to the anode bed construction information submitted with the permit application, the following items relating to construction shall be implemented when the anode beds are installed:

PERMIT NO. 94-468

- a. A seal of bentonite or bentonite grout is required from the surface to a minimum depth of 3 feet. A second bentonite or bentonite grout seal is required for a minimum thickness of 3 feet, just above the top of the coke breeze. After the bentonite has been placed in the hole, it shall be hydrated to insure a proper seal. The remainder of the hole between these seals may be backfilled with cuttings.
 - b. All aquifers encountered while drilling shall be isolated from one another using a bentonite seal of at least 2 feet in vertical dimension.
 - c. The coke breeze shall be a high quality product containing a minimum of leachable metals or organic pollutants. The coke breeze shall not discharge any pollutant which will cause a groundwater standards violation.
 - d. Surface access to the anode shall be kept sealed and locked at all times when the anode is not actually being serviced.
 - e. Each separate aquifer penetrated shall require a separate breather pipe. Each aquifer shall remain in hydrologic isolation from each other if they were isolated prior to installation.
- 4 of 6. Within 45 days after the anodes are installed, as-built construction plans shall be submitted to the Cheyenne Office DEQ/WQD, 122 West 25th Street, Cheyenne, WY 82002, detailing how groundwater was protected during installation.
- 5 of 6. If it becomes necessary to wet any anode installed under this permit, only water from an approved public water supply shall be used unless DEQ/WQD is first supplied with an analyses of the water for approval. Waters that originate in sources other than an approved public water supply shall not be used unless first approved.
- 6 of 6. An unlimited number of similar anodes may be installed under this permit. This authorization applies to Exxon Corporation and all subsidiary companies operating in Wyoming. Specifications included in permit application 94-468 for the Hartzog Draw Unit shall not be applied outside of that unit. Specifications included in permit application 94-468 for the Labarge Unit shall not be applied outside of that unit.

RFL/nc 44794.LTR

file

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 94-469
SPECIAL CONDITIONS

West E Street and 15th Avenue Sewer

This permit hereby authorizes the applicant:

Town of Torrington
2042 East A Street, P.O. Box 250
Torrington, WY 82240

to construct, install or modify sewer collection line according to the procedures and conditions of the application number 94-469. The facility is located in NE 1/4 Section 16 and SE 1/4 Section 9, T24N, R61W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

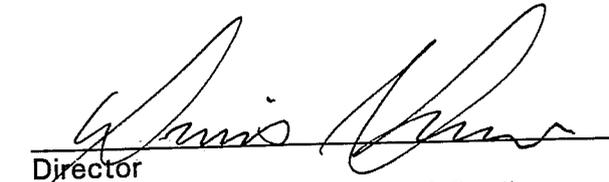
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-19-94

Date of Issuance

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

SPECIAL CONDITIONS

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

STATEMENT OF BASIS

- I. General information.
 - A. Permit Number: 94-469
- II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)
 - A. Chapter XI. Yes
 - B. Chapter XII. No
- III. Basis for issuing permit. (Indicate yes or no for each section.)
 - A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
Yes
 - B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
 - C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)
 - A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
N/A
 - B. Briefly state the basis for the deviation.
N/A
 - C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).
N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

VII. Documentation of Statement of Basis.

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

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

33954.DOC

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 94-470
* **CONDITIONED** *

Thermopolis - 1st Street Sewer Line Extension
(Name of Facility)

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

Town of Thermopolis

P.O. Box 603

Thermopolis, WY 82435

to install approximately 220 lineal feet of eight (8) inch diameter sanitary sewer main according to the procedures and conditions of the application No. 94-470. The facility is located in NE1/4, Section 1, T42N, R95W, Town of Thermopolis in the County of Hot Springs, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

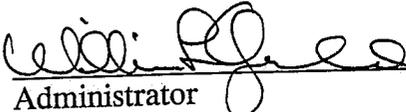
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

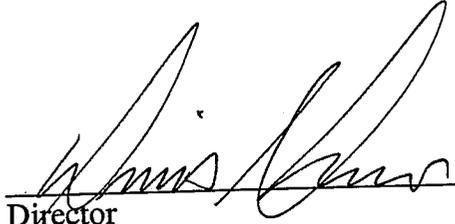
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-19-94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4

The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.

Permit to Construct 94-470
Thermopolis - 1st Street Sewer Extension

2. of 4 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3. of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

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

GL/nc 44822.LTR

STATEMENT OF BASIS

- I. General information.
 - A. Permit Number: 94-470
- II. Application reviewed for compliance with the following regulations.
 - A. Chapter XI. Yes
 - B. Chapter XII. No
- III. Basis for issuing permit.
 - A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
Yes
 - B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
 - C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations.
 - A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
N/A
 - B. Briefly state the basis for the deviation.
N/A
 - C. Permit based on general or statewide deviation contained in approved policy statement.
N/A

Statement of Basis
94-470

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

N/A

- VI. Documentation of Statement of Basis.

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

GL/nc 44822.LTR

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 94-471R
* **CONDITIONED** *

Worland - WYO Linen Supply Sewer (Name of Facility)

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

Wyoming Linen Supply LLC
Dan Dover, President
P.O. Box 546
Worland, WY 82401

to install approximately 440 lineal feet of eight (8) inch diameter sewer, smaller collection sewer lines, sump, and appurtenances according to the procedures and conditions of the application No. 94-471R. The facility is located in NW1/4, Section 25, T47N, R93W, City of Worland in the County of Washakie, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

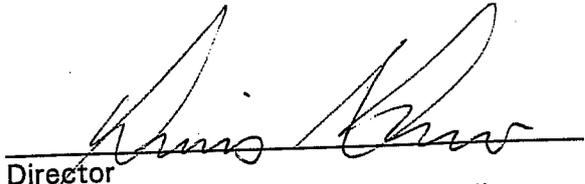
Nothing in this permit shall be construed to preclude the institution of any legal action or relief permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

11/4/94

Date of Issuance

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

GL - 45040.LTR

STANDARD CONDITIONS 1 through 4

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

STATEMENT OF BASIS

- I. General information.
 - A. Permit Number: 94-471R
- II. Application reviewed for compliance with the following regulations.
 - A. Chapter XI. Yes
 - B. Chapter XII. No
- III. Basis for issuing permit.
 - A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
Yes
 - B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
 - C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations.
 - A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
N/A
 - B. Briefly state the basis for the deviation.
N/A
 - C. Permit based on general or statewide deviation contained in approved policy statement.
N/A
- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.
N/A
- VI. Documentation of Statement of Basis.
 - A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-472R
* CONDITIONED *

Smoot Water Supply
(Name of Facility)

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

Greater Smoot Water and Sewer District

c/o Bart Kunz, RR#1

Afton, WY 83110

to construct a storage tank, well completion, spring development, and water distribution system according to the procedures and conditions of the application No. 94-472R. The facility is located in T31N R119W in the County of Lincoln, in the State of Wyoming.

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

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

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

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

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

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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

11-29-94

Date of Issuance

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

RRT/bb/45427.ltr

STANDARD CONDITIONS 1 through 4

1. of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.
2. of 4 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3. of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

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

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-472R
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. No
- B. Chapter XII. Yes
- III. Basis for issuing permit.
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
- Yes, with exception noted in Item IV below.
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
- Yes
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
- No
- IV. Facilities not specifically covered by regulations.
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
- Chapter XII, Section 14(c) Valves.
- Valves shall be located at not more than 800-ft intervals in other than commercial districts.
- B. Briefly state the basis for the deviation.
- Rural setting with few services; distribution lines serve as transmission lines as well as serving small distribution needs.
- Little growth is expected in the area.
- Valves with little value tend to become inoperative and lost due to lack of use.

Statement of Basis
94-472R
November 23, 1994

- C. Permit based on general or statewide deviation contained in approved policy statement.

NA

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote¹

Not applicable

- VI. Documentation of Statement of Basis.

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

RRT/bb/45427.ltr

¹ Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

RF



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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November 10, 1994

T.E. Crull
Little America Refining Company
P.O. Box 510
Evansville, WY 82636

**Re: Permit to Construct #94-473R
Supplemental Information for Permit Application 94-473
LARCo Refinery
Casper, WY**

Dear Mr. Crull:

The Wyoming Department of Environmental Quality (WDEQ), Water Quality Division (WQD) and Solid and Hazardous Waste Division (SHWD) has reviewed the referenced Permit to Construct application materials. The enclosed Permit to Construct authorizes LARCo to install monitoring wells. Additional comments and requirements are summarized on the enclosed review form.

Sincerely,

Jerry Breed
Solid and Hazardous Waste Division

Phillip Stump
Water Quality Division

PS/JB/jn - 45207.ltr

enclosures: WDEQ Review Form
Permit to Construct

xc: Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
Tom Aalto, U.S. EPA Region VIII, Denver
Jerry Breed, WDEQ/SHWD, (2 copies, File 40.018, Chron)

ps: LARCo\94-473.RV3

REVIEW OF PROPOSALS/PLANS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION/SOLID AND HAZARDOUS WASTE DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002
(307) 777-7781

PROJECT: Monitoring Wells and Boreholes

APPLICANT: Little America Refining Co.
P.O. Box 510
Evansville, WY 82636
(307) 265-2800

**APPLICANT'S
CONSULTANT:** Sinclair Oil Corporation
550 S. Temple
Salt Lake City, UT 84102
(801) 524-2745

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: **94-473R**

TITLE: Supplemental Information for Permit Application 94-473
LARCO RFI 1994 Field Work

PROPOSAL PLANS REPORT

DATE ON PROPOSAL/PLANS/REPORT: September 30, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO 'CONDITIONS' TO ANY WDEQ/WQD PERMIT?

YES NO

REVIEWING WQD PERSONNEL: Phillip Stump

REVIEWING SHWD PERSONNEL: Jerry Breed

DATE OF LAST REVIEW: October 21, 1994

DATE OF THIS REVIEW: November 9, 1994

ACTION: **AUTHORIZED FOR CONSTRUCTION**

These activities will be conducted specific to LARCO's RFI program and EPA's June 30, 1994 letter that details LARCO's field activities to be performed in 1994.

I. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

WDEQ authorizes Permit to Construct 94-473R under the following **CONDITIONS:**

LARCO RFI 1994 FIELD WORK - MONITORING WELLS AND BOREHOLES

1. of 9 The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-473. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD) and the Solid and Hazardous Waste Division (SHWD).
2. of 9 Monitoring well/piezometer construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well/piezometer casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells/piezometers must be constructed from materials free of material having the potential to contaminate groundwater samples.
3. of 9 All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
4. of 9 Water which is collected during monitoring well/piezometer development or sampling shall be disposed of properly. The permittee shall obtain permission from the owner for disposal into a storm sewer, sanitary sewer, wastewater treatment plant, disposal pond or other facility or shall obtain authorization from DEQ to apply to the surface or discharge to any waters of the state.
5. of 9 Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Division (SHWD).
6. of 9 Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
7. of 9 After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
8. of 9 Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the Division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
9. of 9 DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 94-473R
SPECIAL CONDITIONS

LARCo Monitoring Wells

This permit hereby authorizes the applicant:

Little America Refining Company
P.O. Box 510
Evansville, WY 82636

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 94-473R. The facility is located in Section 31, T34N, R78W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of five (5) years from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

11/14/94

Date of Issuance

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

SPECIAL CONDITIONS

1. of 9 The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number **94-473B**. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD) and the Solid and Hazardous Waste Division (SHWD).
2. of 9 Monitoring well/piezometer construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well/piezometer casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells/piezometers must be constructed from materials free of material having the potential to contaminate groundwater samples.
3. of 9 All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
4. of 9 Water which is collected during monitoring well/piezometer development or sampling shall be disposed of properly. The permittee shall obtain permission from the owner for disposal into a storm sewer, sanitary sewer, wastewater treatment plant, disposal pond or other facility or shall obtain authorization from DEQ to apply to the surface or discharge to any waters of the state.
5. of 9 Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Division (SHWD).
6. of 9 Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.

7. of 9 After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
8. of 9 Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the Division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
9. of 9 DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.

PBS/jn - 45209.ltr

File, WQD Permit Reference #94-473R

R7



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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October 21, 1994

T.E. Crull
Little America Refining Company
P.O. Box 510
Evansville, WY 82636

**RE: Permit to Construct #94-473
Monitoring Wells and Boreholes
EPA's (6/30/94 Letter) Field Activity Requirements
LARCo Refinery
Casper, WY**

Dear Mr. Crull:

The Wyoming Department of Environmental Quality (WDEQ), Water Quality Division (WQD) and Solid and Hazardous Waste Division (SHWD) has reviewed the referenced Permit to Construct application materials. WDEQ's comments, requirements and recommendations are summarized on the enclosed review form.

Please contact Jerry Breed or Phil Stump should you have any questions about this review.

Sincerely,

Jerry Breed
Environmental Analyst
Solid and Hazardous Waste Division

Phillip Stump
Senior Environmental Analyst
Water Quality Division

JB/PS/nc 44933.LTR

Enclosures: WDEQ Review Form

xc: Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
Tom Aalto, U.S. EPA Region VIII, Denver
Jerry Breed, WDEQ/SHWD (2 copies, File 40.018, Chron)

ps: LARCo\93-480.RV3

REVIEW OF PROPOSALS/PLANS

**WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION/SOLID AND HAZARDOUS WASTE DIVISION**

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002
(307) 777-7781

PROJECT: Monitoring Wells and Boreholes

APPLICANT: Little America Refining Co.
P.O. Box 510
Evansville, WY 82636
(307) 265-2800

**APPLICANT'S
CONSULTANT:** Sinclair Oil Corporation
550 S. Temple
Salt Lake City, UT 84102
(801) 524-2745

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-473

TITLE: RFI Field Activities - Fall 1994
Application for Bedrock Monitoring Wells

PROPOSAL **PLANS** **REPORT**

DATE ON PROPOSAL/PLANS/REPORT: September 30, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO 'CONDITIONS' TO ANY WDEQ/WQD PERMIT?

YES **NO**

REVIEWING WQD PERSONNEL: Phillip Stump

REVIEWING SHWD PERSONNEL: P.S.
Jerry Breed

DATE OF LAST REVIEW: N/A

DATE OF THIS REVIEW: October 21, 1994

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

These proposed activities are to be conducted specific to LARCO's RFI program and EPA's June 30, 1994 letter that details LARCO's field activities to be performed in 1994.

LARCO has not submitted sufficient information to warrant issuance of a WQD permit. At a minimum, the following deficiencies must be addressed and applicable information must be submitted to and approved by WDEQ prior to permit issuance.

COMMENTS: SOLID & HAZARDOUS WASTE DIVISION

I. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

- A. LARCO must describe the intent for acquiring these data in relationship to EPA's required field activities (i.e., does LARCO propose that these data will be sufficient to satisfy EPA's field activities requirements?). A general description concerning LARCO's plans for providing data that will satisfy the field activities requirements must be included.
- B. LARCO must provide a specific activity, as defined in EPA's 6/30/94 letter requiring field activities, which corresponds with LARCO's list of proposed monitoring wells and boreholes (later referred to as wells) as shown on the submitted location map. If there is no correlation between LARCO's proposed work and an EPA activity, then provide an explanation/reason for the well's location.
- C. In terms of information relevancy, LARCO must define what it expects to acquire from each proposed well boring or group of wells or borings. Examples are: to define lateral and vertical extent of hydrocarbon contamination, to define aquifer parameters, to define contamination migration in bedrock, etc.
- D. LARCO must provide relevant information such as: proposed well depths, types of data to be acquired, sampling procedures, etc.
- E. Where applicable and as specified by EPA, describe why boreholes were chosen in certain locations in lieu of monitoring wells.

The above information requirements may easily be addressed by pertinent maps and/or cross-sections. It may be reasonable to assume that some well applications are obvious by virtue of prefix names, but it is imperative that other important information must be supplied for the application to have value. If you have any questions concerning the above requirements please call Jerry Breed at (307) 777-7752.

COMMENTS: WATER QUALITY DIVISION

II. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

- A. LARCO shall describe the site investigation efforts to define the extent of free phase and dissolved hydrocarbon contamination in areas north of Mustang Road in Brookhurst. Is

the proposed location of monitoring well BRK-02 to define the northeast leading edge of contamination?

- B. Monitoring well construction must meet the requirements of the enclosed Chapter XI (Part G) Wyoming Water Quality Rules and Regulations.
- C. The annular space of monitoring wells completed in the bedrock shall be sealed to prevent the movement of contamination from shallow depths to the deeper bedrock formation. The screens shall be placed in the bedrock formation to intercept the bedrock water level and the potential pathway of contaminant migration. To prevent the vertical downward movement of shallow and surface water contamination, the following standard construction procedures shall be adhered to:
 - 1. the filter pack shall extend to a minimum of one (1) foot above the screened interval;
 - 2. filter pack, annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;
 - 3. a minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal;
 - 4. the annular space above the bentonite seal to within one (1) foot of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout; and
 - 5. a protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer.

JB/PS/nc 44933.LTR

PS: LARCo93-480.RV3

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-474
* **CONDITIONED** *

Aspen Hills Estates/Evanston Sewer & Water
(Name of Facility)

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

Richard and Susan Darby

170 Washakie

Evanston, WY 82930

to construct a sewage collection and water distribution extensions to the City of Evanston systems according to the procedures and conditions of the application No. 94-474. The facility is located in SW¼ S27 T15N R120W in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

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

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

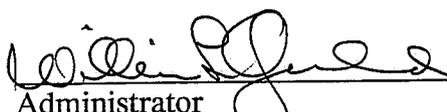
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

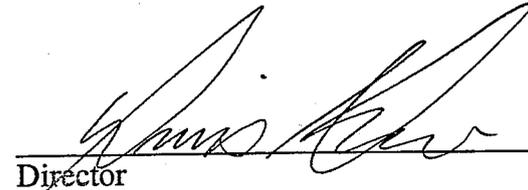
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

11/10/94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

- 1. of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.
- 2. of 4 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in

Permit to Construct #94-474
Aspen Hills Estates/Evanston Sewer & Water

accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3. of 4

Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.

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

4. of 4

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

RRT/nc 45203.LTR

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-474
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. Yes
- B. Chapter XII. Yes
- III. Basis for issuing permit.
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations.
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
NA
- B. Briefly state the basis for the deviation.
NA
- C. Permit based on general or statewide deviation contained in approved policy statement.
NA

Statement of Basis
94-474

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. *See footnote*¹

Not Applicable

- VI. Documentation of Statement of Basis.

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

RRT/nc 45203.LTR

¹ Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

LAND APPLICATION PERMIT

X New
Renewal
Modified

PERMIT NO. 94-475
SPECIAL CONDITIONS

Basin Electric Power Cooperative (Laramie River Station) Road Application

This permit hereby authorizes the applicant:

Burlington Northern Railroad
373 Inverness Drive South
Englewood, CO 80112

to land apply diesel contaminated soil according to the procedures and conditions of the application number 94-475. The application site is located in various sections in T25N, R67W in the county of Platte, in the State of Wyoming. This permit shall be effective until January 1, 1995.

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

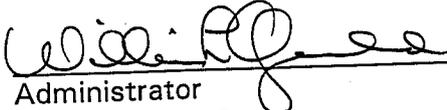
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the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

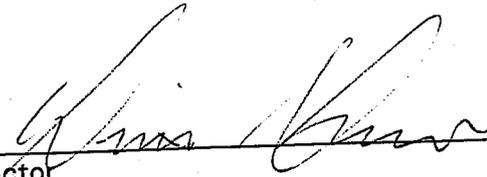
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any 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

11/4/94

Date of Issuance

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

STANDARD CONDITIONS

- 1 of 8 The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division (DEQ/WQD) of the anticipated project commencement and completion dates with the attached post card. At least 48 hours advance notice is required. The authorized representative in your area can be contacted at the following address: Southeast District Office.
- 2 of 8 The permittee shall provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications to the approved permit package.
- 3 of 8 The permittee shall provide certification that the project was completed in accordance with the terms and conditions of the permit within sixty (60) days of the project completion to the Southeast District Office on the attached Certification of Completion form.
- 4 of 8 The permittee shall submit a contour map depicting only those sections of road that actually received diesel contaminated soil within sixty (60) days of the project completion to the Southeast District Office.
- 5 of 8 The review and approval of this permit is based upon the items identified in the attached Statement of Basis.
- 6 of 8 The contaminated soil shall be applied uniformly. Application shall not be initiated during the spring runoff period or at times saturated or frozen soil conditions exist.

- 7 of 8 The application site slope shall not exceed eight percent (8%) for vehicular application.
- 8 of 8 Contaminated soil application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

Attachments: Notification Post Card
Certification of Completion Form
Statement of Basis

GLS/nc 45090.LTR

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-475
- II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)
- A. Chapter XI. No
- B. Chapter XII. No
- III. Basis for issuing permit. (Indicate yes or no for each section.)
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
No
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
There are no numeric standards or criteria in Chapter XI for road application. W.S. 35-11-301 (a)(iii) requires a permit to be issued when any disposal system capable of causing or contributing to pollution is constructed, installed, modified, or operated.
- B. Briefly state the basis for the deviation.
Road application is permitted when DEQ authorized disposal facilities are not readily available, a beneficial use of the waste to be applied is possible, and significant impact to waters of the State is minimized.
- C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).
District Policy numbers 10.1 (4/9/91), 10.2 (10/17/86), 10.3 (8/91), 10.4 (10/24/91), and 10.6 (1/18/91) address the statutory authority to regulate the road application of waste, establish criteria for characterizing the waste, and determine acceptable conditions for the application of the waste to roadbeds to minimize impact to waters of the State.

- V. Application requires review to determine groundwater impacts in accordance with Section 15, III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section v. from the Statement of Basis.)

Applicable

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

- A. Facility will not allow a discharge to groundwater. Briefly describe:

The opportunity for direct or indirect discharge, percolation, or filtration to groundwater is minimized by uniformly applying the diesel contaminated soil onto the roadbed. Repeated applications of the contaminated soil on the same sections of road will be monitored by roadbed analyses.

- B. Quality of wastewater is such that it will not cause a violation of groundwater standards. Briefly describe:

N/A

- C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

N/A

- D. Basis of facility design is that it will be operated so as not to violate groundwater standards (example: maintenance of manure pack at animal waste treatment facility). Briefly describe:

N/A

- E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

N/A

- F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

N/A

- G. Briefly describe monitoring system (parameters, frequency, etc.). Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

N/A

- VII. Documentation of Statement of Basis.

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

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-476
SPECIAL CONDITIONS

Dave Johnston Power Plant - Glenrock

This permit hereby authorizes the applicant:

PacifiCorp
1407 West North Temple, Ste. 270
Salt Lake City, UT 84140

to construct, install or modify monitoring wells according to the procedures and conditions of the application number 94-476. The facility is located in SE 1/4 Section 7, T35N, R74W in the county of Converse, in the State of Wyoming. This permit shall be effective for a period of 3 years from the date of issuance of this permit.

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

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

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

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

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

Water Quality Division, 3030 Energy Lane, Suite 200, Casper, Wyoming 82604; telephone (307) 473-3465.

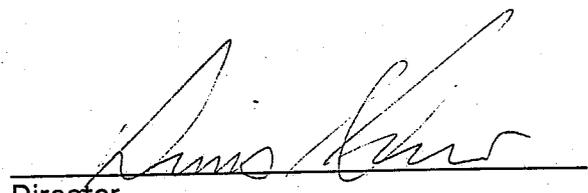
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

2/9/95

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 11. The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number ~~94-476~~. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 11. Monitoring well/piezometer construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well/piezometer casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells/piezometers must be constructed from materials free of material having the potential to contaminate groundwater samples.
- 3 of 11. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.

- 4 of 11. After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city and/or highway department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
- 5 of 11. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 6 of 11. The applicant is responsible for obtaining any permits required by the State Engineer's Office (777-7354).
- 7 of 11. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells/piezometers shall be installed to define the nature and extent of the contamination.
- 8 of 11. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 9 of 11. Within ninety (90) days of the issuance of this permit, a report of investigation (ROI) shall be submitted to WDEQ/WQD, Casper. At a minimum, the report shall contain the items described in the enclosed document, "WDEQ/WQD Minimum Content Requirements for a Subsurface Investigation (SSI) Report of Investigation (ROI)."
- 10 of 11. All monitor wells/piezometers associated with this facility shall be sampled and the groundwater analyzed for the following listed parameters according to the EPA Method stated:

<u>Matrix</u>	<u>Compounds</u>	<u>EPA Method</u>
Water	TPH	8015 Modified (extraction)
Water	BTEX	8020 (w/ naphthalene)
Water	TPH by IR	418.1

Soil samples taken from the proposed monitoring wells shall be analyzed for the following parameters:

Soil	TPH	8015 Modified (extraction)
Soil	TPH by IR	418.1
Soil	BTEX	8020

- a. After the first monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the first monitoring event. WQD may substitute less expensive methods for the above listed methods depending on the results of the first monitoring.
- b. The results of these analyses shall be submitted to the Casper office by the last day of the month following the end of each quarter.
- c. Water levels shall be measured quarterly and reported along with an evaluation of the seasonal potentiometric surface.

11 of 11.

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

PS/nc 50650.LTR

R7



THE STATE OF WYOMING

JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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February 9, 1995

Tony Hiatt
PacifiCorp
1407 West North Temple, Ste. 270
Salt Lake City, UT 84140

RE: Permit No. 94-476
Groundwater Monitoring Wells
Dave Johnston Power Plant
Glenrock, WY

Dear Mr. Hiatt:

I am writing this letter in response to your groundwater investigation workplan (JBR Environmental Consultants, October 11, 1994) at the referenced facility. Lynda Fivas and I reviewed the workplan and soils excavation report (July 26, 1994) and discussed our review with Tom Cline on February 3, 1995. The enclosed Groundwater Pollution Control (GPC) Program Review Form summarizes our comments and recommendations. WDEQ/WQD authorizes the construction of the groundwater monitoring wells (Permit No. 94-476).

Please direct future correspondence relating to this facility to Ms. Lynda Fivas, GPC Program - Central District, 3030 Energy Lane, Suite 200, Casper, Wyoming 82604. Please contact Ms. Fivas directly at (307) 473-3466, if you have any questions.

Sincerely,

Phillip Stump
Phillip Stump
Senior Environmental Analyst
Water Quality Division

PS/nc 50651.LTR

Enclosures: GPC Program Review Form
WDEQ/WQD Minimum Content Requirements for a Subsurface Investigation (SSI)
Report of Investigation (ROI)
Permit to Construct

cc: Kevin Frederick, GPC Program Supervisor
Tom Cline, JBR Environmental Consultants

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

3030 Energy Lane, Suite 200
Casper, Wyoming 82604

PROJECT: MONITORING WELL PERMIT

FACILITY NAME: DAVE JOHNSTON POWER PLANT

APPLICANT: Pacificorp
1407 West North Temple, Ste. 270
Salt Lake City, UT 84140

ENGINEER/
CONSULTANT: Tom Cline
JBR Environmental Consultants
8160 South Highland Drive, Ste. A-4
Sandy, UT 84093

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-476

EXISTING NEW AS BUILT

TITLE: WORK PLAN: Groundwater Quality Investigation Near Coal
Unloading Facility, Dave Johnston Power Plant

PLANS SPECS PROPOSAL REPORT
[Check all that APPLY]

DATE ON PROPOSAL/PLANS/REPORT: October 11, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING GEOLOGIST: Lynda Fivas

REVIEWING ENGINEER: Phillip Stump

DATE OF THIS REVIEW: February 2, 1995

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS: GROUNDWATER SECTION

I. SUMMARY OF EXISTING CONTAMINATION:

This site has known soil contamination as established by the analyses of soil samples taken during the excavation of soils in June of 1994. A total of 1300 cubic yards were removed, a much higher quantity than the 800 originally anticipated. The difference was reportedly due to more extensive contamination by hydraulic fluids than originally estimated, while the estimated extent of diesel contamination was only slightly higher than anticipated. Some contaminated soil remains in a portion of the area (to the northeast). Removal of the remaining contaminated soils was considered prohibitive since the structural integrity of existing facilities would be compromised by more extensive excavation.

II. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

The efforts to date include a complete soils excavation report including analyses from multiple sampling horizons in multiple sampling points throughout the excavated area, a subsurface investigation prior to the excavation which included both groundwater and soil sampling throughout much of the proposed excavation area, and a work plan reviewed by the GPC division office identifying the desirability of installation of monitoring wells and a Report of Investigation regarding the planned excavation following execution of the plan. The GPC review of the workplan stated that Water Quality Division approval was not required. Also included in the documentation are complete copies of analyses performed and permit documentation for disposal of the contaminated soils.

With the combined results of these previous investigations, the extent of contamination investigation alluded to in earlier reports, lacks only full characterization of the potential impact of this contamination to the groundwater.

III. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

The proposed groundwater monitoring wells would provide needed information regarding the impact of the contamination to the groundwater. Since most of the soils have now been removed, the potential for a continuing source of contamination is minimal. The following are suggestions regarding the placement of the proposed wells.

- A. The well located as an upgradient control well may not provide a conclusive report of upgradient conditions. The proposed location is only slightly north of the excavated area and is west of the western most extent of highly contaminated soils identified in previous

studies. Although the department agrees with the need to install the wells in locations which provide maximum available security to well integrity, an alternate location may provide more conclusive data if a suitable site could be identified. During Feb. 3 discussions with Tom Cline of JBR Consultants, agreement to move the subject well approximately 60 feet to the north, near the end of the conveyor, appeared to satisfy both concerns. If practicable, this alteration of the work plan should be enacted.

- B. The downgradient wells (3) are all located south/southeast of the previously identified extent of contamination, although additional well(s) may be needed in the southeast or east direction if any of these wells identify contamination which has reached these points.
- C. At least the first sampling event should include analysis for naphthalene, with consideration for additional analyses in the semi-volatile range should any of the samples come back positive for naphthalene.

END OF REVIEW

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-477
SPECIAL CONDITIONS

Floyd and Veronica Canfield Septic System

This permit hereby authorizes the applicant:

Floyd Canfield
Box 952
Sundance, Wyoming 82729

to construct, install or modify a septic system according to the procedures and conditions of the application number 94-477. The facility is located in the NE/4 of Section 6, Township 49 North, Range 63 West in the county of Crook, in the State of Wyoming. This permit shall be effective for a period of one year from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue Suite D, Sheridan, Wyoming 82801; telephone (307) 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 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

10-20-94
Date of Issuance

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

STANDARD CONDITIONS

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

BDM/pr: October 18, 1994 - 44857.LTR

Attachments: Notification Post Card
Certification of Completion Form
Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-477

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

A. Chapter XI. yes

B. Chapter XII. no

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

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

yes

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

no

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

no

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

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

not applicable

B. Briefly state the basis for the deviation.

not applicable

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

not applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

not applicable

VII. Documentation of Statement of Basis.

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

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

33954.DOC

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-478
SPECIAL CONDITIONS

Maverick Cycles

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
2406 Snyder Ave.
Cheyenne, WY 82001

to construct, install or modify an extension of the municipal distribution system according to the procedures and conditions of the application number 94-478. The facility is located in SW 1/4, SW 1/4, SW 1/4, Section 34, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

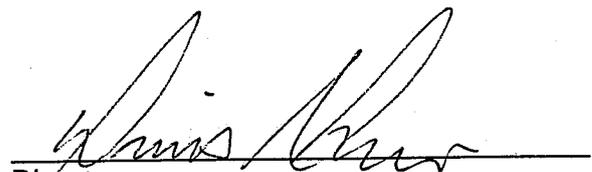
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-24-94

Date of Issuance

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

SPECIAL CONDITIONS

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

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

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

GLS/bb/44922.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-478

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

A. Chapter XI. No

B. Chapter XII. Yes

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

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

Yes

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

No

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

No

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

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

N/A

B. Briefly state the basis for the deviation.

N/A

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

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

VII. Documentation of Statement of Basis.

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

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

GLS/bb/44922.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-479
SPECIAL CONDITIONS

Bill Kernan (Residential Septic System)

This permit hereby authorizes the applicant:

Bill Kernan
P.O. Box 2
Wheatland, WY 82201

to construct, install or modify residential septic system according to the procedures and conditions of the application number 94-479. The facility is located in SE 1/4 Section 27, T25N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-24-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 5 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 5 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

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

4 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 5 The septic tank shall either have a 6" cleanout or the manway extended to the ground surface.

GLS/bb/44924.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-479

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

Yes

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

No

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

No

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

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

N/A

B. Briefly state the basis for the deviation.

N/A

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

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section. the Statement of Basis.)

N/A

VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

VII. Documentation of Statement of Basis.

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

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

GLS/bb/44924.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 94-480R
REF: 94-323R
CONDITIONED

Dubois Elementary School
(Name of Facility)

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

Fremont County School District No. 2

P.O. Box 188

Dubois, WY 82513

to construct a water and sewer lines and 4000 gallon grease trap according to the procedures and conditions of the application No. 94-480R. The facility is located in N $\frac{1}{2}$ SW $\frac{1}{4}$ Section 6, T41N, R106W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

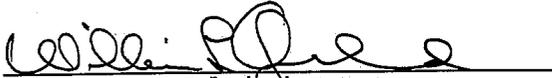
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

12-14-94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.

Permit to Construct
Dubois Elementary School
94-480R
Page 3

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

JH/mad 45720.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-480R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. YES

B. Chapter XII. YES

III. Basis for issuing permit.

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

YES

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

NO

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

NO

IV. Facilities not specifically covered by regulations.

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

N/A

B. Briefly state the basis for the deviation.

N/A

C. Permit based on general or statewide deviation contained in approved policy statement.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

NOT APPLICABLE

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-481R
* **CONDITIONED** *

Larchick Septic Tank/Leach Field
(Name of Facility)

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

David Larchick

435 8th Avenue North

Greybull, WY 82426

to construct a septic tank/leach field for 3 bedroom residence according to the procedures and conditions of the application No. 94-481R. The facility is located in Sec. 1, T52N, R94W & Sec. 6, T52N, R93W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

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

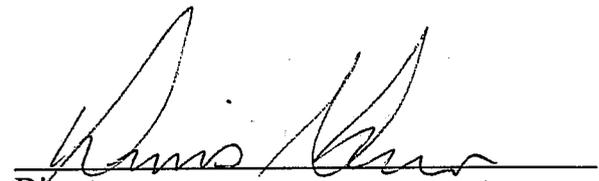
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

12-13-94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.

Permit to Construct 94-481R

2. of 4 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3. of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

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

JH/jm/nc 45695.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-481R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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

No

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

No

IV. Facilities not specifically covered by regulations.

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

N/A

B. Briefly state the basis for the deviation.

N/A

C. Permit based on general or statewide deviation contained in approved policy statement.

N/A

Statement of Basis
94-481R

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. *See footnote*¹

VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected.

A. Facility will not allow a discharge to groundwater. Briefly describe:

Unknown

B. Quality of wastewater is such that it will not cause a violation of groundwater standards. Briefly describe:

Unknown

C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

Unknown

D. Basis of facility design is that it will be operated so as not to violate groundwater standards. Briefly describe:

Facility meets groundwater separation requirements.

E. Discharge may result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

Upon abandonment of the disposal field, groundwater quality will return to background.

F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

The disposal field meets the site separation distance requirements which are intended to protect aquifer users from impact.

¹ Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

Statement of Basis
94-481R

- G. Briefly describe monitoring system. Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

None

VII. Documentation of Statement of Basis.

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

JH/JM/nc 45695.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-482
SPECIAL CONDITIONS

Laramie County Fire District No. 10 (Septic System)

This permit hereby authorizes the applicant:

Laramie Co. Fire Dist. 10
P.O. Box 71
Granite Canyon, WY 82059

to construct, install or modify septic system according to the procedures and conditions of the application number 94-482. The facility is located in NW 1/4 Section 16, T12N, R70W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

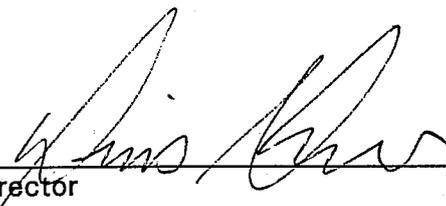
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-24-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 6 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 6 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 6 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

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

4 of 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 6 The septic tank shall have either a 6 inch cleanout or a manway extended to the ground surface.

6 of 6 The permittee shall notify the Laramie County Environmental Health Division at least (2) days prior to installation of this system to arrange for required inspections. Inspection of the installed system is required prior to backfilling. Laramie County Environmental Health charges a fee for these inspection services. Their offices are located at 100 Central Ave, Cheyenne, Wyoming 82007; or they can be reached by phone at (307) 633-4090

GLS/bb/44928.ltr

cc: Laramie County Environmental Health

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-482

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

Yes

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

No

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

No

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

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

N/A

B. Briefly state the basis for the deviation.

N/A

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

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

- VII. Documentation of Statement of Basis.

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

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

GLS/bb/44928.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-483
SPECIAL CONDITIONS

WYODAK POWER PLANT

This permit hereby authorizes the applicant:

PACIFIC POWER AND LIGHT
48 WYODAK ROAD
GILLETTE, WY 82718

to construct, install or modify monitor wells/boreholes according to the procedures and conditions of the application number 94-483. The facility is located in NE ¼, NE ¼, Sec 28, Township 50 North, Range 71 West in the county of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

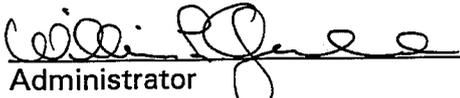
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue, Suite D, Sheridan, Wyoming 82801; telephone (307) 672-6457.

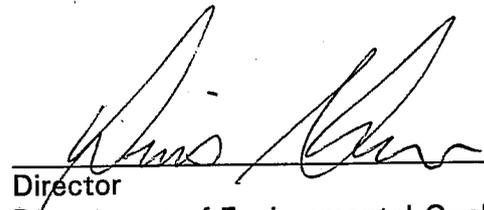
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any 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

10-25-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 11. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-483. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 11. Monitoring construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells must be constructed from materials free of material having the potential to contaminate groundwater samples.
- 3 of 11. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Land Quality Division.
- 4 of 11. 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 the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
- 5 of 11. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city and/or highway department requirements. No monitoring well shall be abandoned without prior approval from the Water Quality Division.
- 6 of 11. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.

- 7 of 11. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the nature and extent of the contamination.
- 8 of 11. In addition to the well construction information submitted with the permit application, the following items relating to construction shall be implemented when the wells are constructed, installed and developed:
- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
- 9 of 11. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 10 of 11. Within ninety (90) days of the issuance of this permit, a Report of Investigation (ROI) shall be submitted to WQD. (See attached for contents of the ROI.)
- 11 of 11. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for TPH and BTEXN according to EPA Methods 8015 and 8020, respectively, as submitted in the Permit to Construct Application.
- a. Upon review of the initial analytical results, the WQD may specify other EPA analytical methods than stated above in order to provide analyses for semi-volatile organics.
 - b. The results of these analyses shall be submitted to the Sheridan office by the last day of the month following the end of each quarter. The first set of results are due upon receipt.

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

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

PROJECT: **SITE CHARACTERIZATION**

FACILITY: WYODAK POWER PLANT

APPLICANT: Pacific Power and Light
 48 Wyodak Road
 Gillette, WY 82718

CONSULTANT: JBR Environmental Consultants, Inc.
 8160 South Highland Drive, Suite A-4
 Sandy, UT 84093

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-483

EXISTING NEW AS BUILT

TITLE: WYODAK POWER PLANT: ADDITIONAL SITE INVESTIGATION WORKPLAN

PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/REPORT: Workplan rec. 8/29/94

Chapter 3 app. rec. 10/14/94

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

 'CONDITIONS' TO ANY WQD PERMIT? NO YES

 AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING GEOLOGIST: _____

(Signature)

DATE OF THIS REVIEW: 10/24/94

ACTION: **AUTHORIZED FOR CONSTRUCTION**

COMMENTS: GROUNDWATER SECTION

I. **SUMMARY OF EXISTING CONTAMINATION:**

SAMPLE I.D.	DATE SAMPLED	DEPTH INTERVAL	TPH DIESEL	TPH GASOLINE	TOTAL EXTRACT HYDROCAR
SB-1,1	5/9/94	8.0-9.5	71.0	ND	77.0
SB-1,2	5/9/94	10.0-11.5	75.0	54.0	82.0
SB-1,3	5/9/94	15-16.5	ND	ND	ND
SB-2,1	5/9/94	8.0-9.5	279.0	ND	453.0
SB-3,1	5/9/94	8.0-9.5	ND	ND	ND
SB-4,1	5/9/94	8.0-9.5	ND	ND	ND
SB-4,2	5/9/94	9.5-11.0	132.0	ND	143.0
SB-4,3	5/9/94	11.0-12.5	ND	ND	ND
SB-5,1	5/10/94	8.0-9.5	452.0	ND	614.0
SB-6,1	5/10/94	8.0-9.5	31.0	ND	38.0
SB-7,1	5/10/94	8.0-9.5	2660.0	1440.0	4640.0
SB-7,2	5/10/94	11.5-13.0	95.0	ND	94.0
SB-8,1	5/10/94	8.0-9.5	1600.0	ND	2280.0
SB-9,1	5/10/94	3.0-4.5	ND	128.0	ND
SB-9,2	5/10/94	8.0-9.5	2540.0	ND	2880.0
SB-10.1	5/10/94	8.0-9.5	415.0	ND	810.0
SB-11.1	5/10/94	6.0-7.5	115.0	ND	141.0
SB-12.1	5/10/94	8.0-9.5	ND	ND	ND
SB-13.1	5/10/94	8.0-9.5	ND	ND	ND
SB-14.1	5/10/94	8.0-9.5	831.0	ND	11,120

TABLE 1: TPH SOIL SAMPLE ANALYTICAL RESULTS

Results are reported in mg/kg
ND = Not Detected

The preceding table indicates that soil contamination is present at this facility. According to the Subsurface Investigation Report, dated June 21, 1994, the contamination is probably the result of a 1984 release from an underground heating oil piping system. TPH, benzene, and toluene were detected in the majority of the samples analyzed. Diesel fuel was the predominant contaminant identified. The highest concentration of total extractable hydrocarbons was found in sample SB-14.1, in the southwestern section of the investigation area.

Ground water was encountered at the site at a depth of approximately 12.5 feet. No free product was observed in the ground water in Soil Boring SB-9; however, a strong hydrocarbon odor was detected in the groundwater.

II. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

Fourteen soil borings have been drilled at this facility. However, as stated in the permit application, the May, 1994 investigation did not fully define the horizontal extent of hydrocarbon contamination in the soils. The horizontal and vertical extent of both soil and groundwater contamination for this site must be delineated.

To date, the samples have been analyzed for only volatile organic compounds. Diesel fuel also contains semi-volatile compounds, several of which have established Maximum Contaminant Levels (MCL's). If analytical results reveal that the groundwater is contaminated, the DEQ/WQD shall require sampling and analyses for semi-volatile organics to determine if MCL's are being exceeded.

III. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

Permit to Construct number 94-483 is authorized under the following conditions:

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-483. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Monitoring construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells must be constructed from materials free of material having the potential to contaminate groundwater samples.
3. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Land Quality Division. *NOTE: Since the area of concern is within the boundaries of a mine permit, the Solid and Hazardous Waste Division of the DEQ will not authorize the disposal of any contaminated cuttings.
4. 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 the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
5. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city and/or highway department requirements. No monitoring well shall be abandoned without prior approval from the Water Quality Division.

6. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
7. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the nature and extent of the contamination.
8. In addition to the well construction information submitted with the permit application, the following items relating to construction shall be implemented when the wells are constructed, installed and developed:
 - a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together.
9. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
10. Within ninety (90) days of the issuance of this permit, a Report of Investigation (ROI) shall be submitted to WQD. (See attached for contents of the ROI.)
11. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for TPH and BTEXN according to EPA Methods 8015 and 8020, respectively, as submitted in the Permit to Construct Application.
 - a. Upon review of the initial analytical results, the WQD may specify other EPA analytical methods than stated above in order to provide analyses for semi-volatile organics.
 - b. The results of these analyses shall be submitted to the Sheridan office by the last day of the month following the end of each quarter. The first set of results are due upon receipt.

END OF REVIEW

**"WDEQ/WQD Minimum Content Requirements for a Subsurface
Investigation (SSI) Report of Investigation (ROI)"**

The ROI shall include the following:

1. A chronology of events leading up to the investigation;
2. Final location, "as-built" construction details and lithologic logs (including olfactory or original vapor sensing instrument data) of monitor wells and boreholes;
3. A site map showing:
 - a. physical features (i.e. structures, utilities, etc.);
 - b. monitoring well and borehole locations;
 - c. existing treatment, recovery and containment systems.
4. Geohydrologic maps and cross sections that clearly describe the subsurface distribution of geologic materials and elevations of groundwater;
5. Depth to water and product thickness measurements;
6. Monitor well and soil boring installation procedures utilized, including well development method;
7. A map delineating the extent of the subsurface contamination including LNAPL (free product), soil and dissolved groundwater contamination, including contaminant isopach maps for BETX and TPH concentrations, and product layer thickness;
8. A potentiometric surface map showing the direction and gradient of groundwater flow;
9. Interpretation of the data and summary conclusions of the investigation results;
10. A recommended **Corrective Action Plan** and schedule for either:
 - A. Development and implementation of additional **Subsurface Investigation** work;

OR

 - B. Development and implementation of **Corrective Measures** to:
 1. Control (contain) the migration of contaminated (dissolved) groundwater;
 2. Restore the quality of groundwater to within Wyoming groundwater quality standards.

OR

 - C. Development and submittal of **Statement of Basis** to justify **Project (Site) Closure**.

NOTE: All plans and schedules for implementation of **Subsurface Investigations, Corrective Measures** and **Project (Site) Closure** require **Department of Environmental Quality, Water Quality Division (WDEQ/WQD)** approval prior to their implementation;

11. **Sampling and Analysis Plan (SAP)** for continued groundwater monitoring and reporting. The SAP shall include at a minimum:

A. Description of sampling procedures to be followed, including:

1. Sample Collection Procedures

- a. measurement of static water level elevation
- b. detection of immiscible layers
- c. well evacuation
- d. sample withdrawal
- e. Disposal of purged waters (groundwater samples);
- f. Disposal of decontamination rinsates;

2. Sample Preservation and Handling Procedures

- a. sample containers
- b. sample preservation.

3. Chain of Custody Record

4. Analytical Procedures

B. Description of Quality Assurance/Quality Control to be followed, including:

1. Field QA/QC Program
2. Laboratory QA/QC Program

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-484
SPECIAL CONDITIONS

Carbon County UCG, Wastewater Holding Tank

This permit hereby authorizes the applicant:

Carbon County UCG, Inc.
P.O. Box 70
Tulsa, OK 74101-2926

to construct, install or modify Wastewater Holding Tank according to the procedures and conditions of the application number 94-484. The facility is located in Section 11, SE1/4, T21N, R89W in the county of Carbon County, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

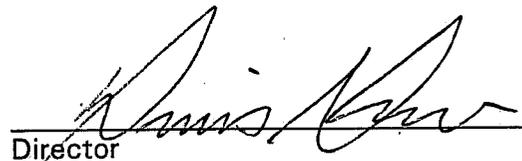
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10/27/94

Date of Issuance

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

Conditions for Permit to Construct 94-484

- 1 of 3. Carbon County UCG, Inc. shall report by telephone any release into the spill containment system within 24 hours of becoming aware that such a release has occurred. Within 7 days of this telephone report, a release shall be confirmed in writing. This written report shall contain an estimate of the amount released, and the measures taken to clean up the release. These reports shall be addressed to the Water Quality Division, 122 West 25th Street, Cheyenne, WY 82002, (307) 777-7781 and the Land Quality Division, 122 West 25th Street, Cheyenne, WY 82002, (307) 777-7756.
- 2 of 3. The secondary containment system shall be kept pumped out and relatively free of rain and snowmelt. It is a violation of this permit for the secondary containment system to ever be allowed to have less reserve capacity than the full volume of the wastewater tank. As long as there has been no spill from the tank, rain and snow melt may be discharged to the surface from the secondary containment system without being subject to the reporting requirements in condition 1 above.
- 3 of 3. All wastes stored in this tank shall be disposed of at approved disposal facilities. This requires that the operator obtain a copy of a letter from the Water Quality Division to the operator of the disposal facility authorizing each disposal facility to accept this waste.

RL/mad/bb 44994.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-484

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

Yes

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

No

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

No

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

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

NOT Applicable

B. Briefly state the basis for the deviation.

NOT Applicable

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

NOT Applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 15. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Applicable

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

- A. Facility will not allow a discharge to groundwater. Briefly describe:

This facility is a steel tank for holding wastewater on site prior to disposal in an approved location off site. This facility includes a secondary containment system and sufficient storage within that secondary containment system to contain a failure of the tank itself.

- B. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

In addition to the liner, native soil under this installation has been shown to be of very low permeability.

- VII. Documentation of Statement of Basis.

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

33615.DOC

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-485
* **CONDITIONED** *

Powers Septic Tank/Leach Field
(Name of Facility)

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

Duane Powers

P. O. Box 391

Greybull, WY 82426

to construct a septic tank/leach field for 4 bedroom house according to the procedures and conditions of the application No. 94-485. The facility is located in SE1/4, SW1/4, Sec. 2, T52N, R93W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

10-25-94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.

Permit to Construct 94-485
Powers Septic Tank/Leach Field

2. of 4 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3. of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

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

JH/jm/nc 44936.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-485

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. YES

B. Chapter XII. NO

III. Basis for issuing permit.

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

YES

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

NO

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

NO

IV. Facilities not specifically covered by regulations.

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

N/A

B. Briefly state the basis for the deviation.

N/A

C. Permit based on general or statewide deviation contained in approved policy statement.

N/A

Statement of Basis
94-485

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

APPLICABLE

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected.

- A. Facility will not allow a discharge to groundwater. Briefly describe:

UNKNOWN

- B. Quality of wastewater is such that it will not cause a violation of groundwater standards. Briefly describe:

UNKNOWN

- C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

UNKNOWN

- D. Basis of facility design is that it will be operated so as not to violate groundwater standards. Briefly describe:

Facility meets ground water separation requirements.

- E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

Upon abandonment of the disposal field, ground water quality will return to background.

- F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

The disposal field meets the site separation distance requirements which are intended to protect aquifer users from impact.

Statement of Basis
94-485

- G. Briefly describe monitoring system. Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

NONE

VII. Documentation of Statement of Basis.

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

JH/jm/nc 44936.LTR

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-486
* **CONDITIONED** *

Daniel Maintenance and Repair Shop Small Wastewater
(Name of Facility)

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

James Licking, et al

P.O. Box 172

Daniel, WY 83115

to construct a small wastewater system according to the procedures and conditions of the application No. 94-486. The facility is located in NW¼ S2 T33N R111W in the County of Sublette, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

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

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

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

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

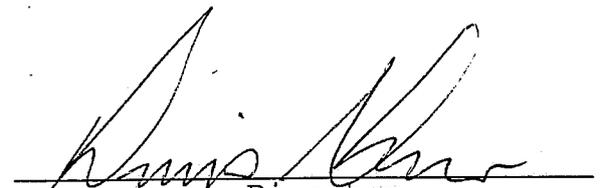
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

10-26-94

Date of Issuance

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

CONDITIONS 1 through 5

1. of 5 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.

Permit to Construct

94-486

Daniel Maintenance and Repair Shop Small Wastewater

Page 3

2. of 5 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
3. of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
4. of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".
5. of 5 Consistent with DEQ/WQD policy 9.1.1 of 10/6/87 discharges of shop sump waste to the leachfield are banned. These waste must be contained within a leak proof vessel and hauled to a DEQ authorized disposal site. This permit is only for the discharge of common domestic waste to the leachfield.

RRT/mad 44990.LTR

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-486
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. Yes
- B. Chapter XII. No
- III. Basis for issuing permit.
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
- Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
- No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
- No
- IV. Facilities not specifically covered by regulations.
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
- NA
- B. Briefly state the basis for the deviation.
- NA
- C. Permit based on general or statewide deviation contained in approved policy statement.
- NA

Statement of Basis
94-486
October 24, 1994

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote¹

Not Applicable

- VI. Documentation of Statement of Basis.

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

¹ Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-487
SPECIAL CONDITIONS

Buffalo Municipal Water Treatment Facility

This permit hereby authorizes the applicant:

City of Buffalo
Box 100
Buffalo, Wyoming 82834

to construct, install or modify a water treatment facility according to the procedures and conditions of the application number 94-487. The facility is located in the NE/4 of Section 06, Township 50 North, Range 82 West in the county of Johnson, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

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

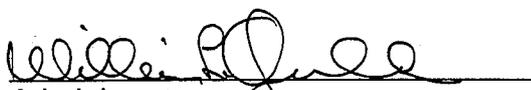
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue, Suite D, Sheridan, Wyoming 82801; telephone (307) 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 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

12-19-94

Date of Issuance

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

STANDARD CONDITIONS

- 1 of 5. The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 5. The applicant will provide immediate oral and/or written notice to the Northeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 5. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

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

4 of 5. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 5. An O&M Manual for the water treatment facility shall be provided to the Sheridan District Office for approval prior to the operation of the water treatment facility. The O&M Manual shall contain all pertinent information necessary to satisfy the requirements of Chapter XII, Section 16 of the Wyoming Water Quality Rules and Regulations.

BDM/pr:12/12/94

b/45745.ltr

Attachments: Notification Post Card
Certification of Completion Form
Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-487

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

A. Chapter XI. yes

B. Chapter XII. yes

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

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

yes

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

yes

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

yes

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

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

Chapter XI Section 9.d. requires manholes to be spaced at not more than 400 feet for sewers 15 inches or less in diameter.

B. Briefly state the basis for the deviation.

Similar deviations have been granted in the past. The City of Buffalo has indicated in writing that they can clean lines as long as those in this proposal.

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

Policy 14.8.3. Washwater volume is less than that required by Chapter XII Section 10.(i)(ii)(B)(IV) of WWQRR. The engineer has documented pilot test studies indicating reduced washwater volumes are acceptable. Previously permitted project has used this policy statement to approve washwater volumes of lesser volume than those required by WWQRR.

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

not applicable

- VII. Documentation of Statement of Basis.

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

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

BDM/b/45745.ltr

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-488R
* **CONDITIONED** *

Brush Creek Ranch Wastewater System
(Name of Facility)

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

Dave Schuhmacher

Brush Creek Ranch

1660 17th Street, Suite 225

Denver, CO 80202

to construct a small wastewater system according to the procedures and conditions of the application No. 94-488R. The facility is located in NW¼ S27 T16N R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does

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

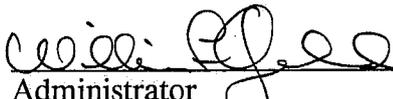
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

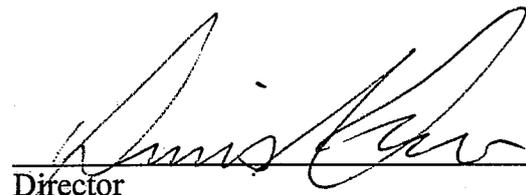
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

11/04/94

Date of Issuance

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

CONDITIONS 1 through 5

1. of 5 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.

Permit to Construct 94-488
Brush Creek Ranch Wastewater System

2. of 5 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
3. of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
- a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
4. of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".
5. of 5 The seasonal high groundwater levels for System 1 serving the Main House and the Saratoga Cabin are a critical issue for this permit. Between 01 April and 30 June of 1995, and prior to the construction of System 1, the groundwater levels are to be checked in this area and reported to the Engineer and to the DEQ/WQD District office in Lander at 332-3418. Prior to System 1 construction the groundwater levels are to be verified as being consistent with the design assumptions and previous site investigations.

RRT/nc 45151.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-488R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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

No

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

No

IV. Facilities not specifically covered by regulations.

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

NA

B. Briefly state the basis for the deviation.

NA

C. Permit based on general or statewide deviation contained in approved policy statement.

NA

Statement of Basis
94-488R

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. *See footnote*¹

Not Applicable

- VI. Documentation of Statement of Basis.

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

RRT/nc 45151.LTR

¹ Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

PERMIT TO CONSTRUCT

New
Renewal
 Modified

PERMIT NO. 94-489
SPECIAL CONDITIONS
Reference 94-279

Eastland Village Development

This permit hereby authorizes the applicant:

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

to construct, install or modify public distribution and collection system according to the procedures and conditions of the application number 94-489. The facility is located in NE 1/4 Section 26, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

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

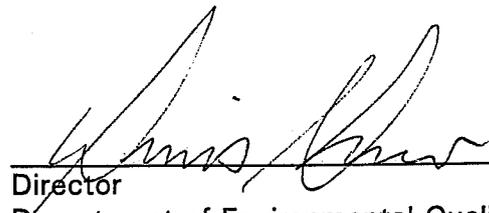
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division.



Director
Department of Environmental Quality

11/4/94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 5 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 5 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

Permit #94-489

- d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
- 4 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".
- 5 of 5 This permit replaces Construction Permit No. 94-279 in it's entirety and all permit conditions of this permit shall be met in accordance with Water Quality Rules and Regulations.

GLS/nc 45061.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-489

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

A. Chapter XI. Yes

B. Chapter XII. Yes

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

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

Yes

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

No

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

No

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

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

Yes

B. Briefly state the basis for the deviation.

N/A

Permit #94-489

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

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

- VII. Documentation of Statement of Basis.

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

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

GLS/nc 45061.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-490
SPECIAL CONDITIONS

Penning Home Septic System

This permit hereby authorizes the applicant:

Christopher Penning
P.O. Box 370
Hulett, Wyoming 82720

to construct, install or modify a septic system according to the procedures and conditions of the application number 94-490. The facility is located in the NE/4 of the SW/4 of Section 12, Township 54 North, Range 65 West in the county of Crook, in the State of Wyoming. This permit shall be effective for a period of one year from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue, Suite D, Sheridan, Wyoming 82801; telephone (307) 672-6457.

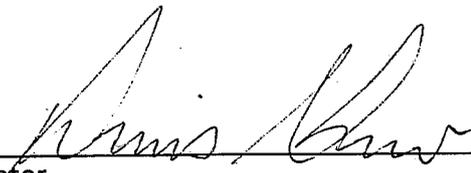
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or 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

11/4/94

Date of Issuance

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

STANDARD CONDITIONS

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

BDM/pr:10/28/94 - 45044.ltr

Attachments: Notification Post Card
Certification of Completion Form
Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-490

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

A. Chapter XI. yes

B. Chapter XII. no

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

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

yes

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

no

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

no

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

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

not applicable

B. Briefly state the basis for the deviation.

not applicable

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

not applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

not applicable

VII. Documentation of Statement of Basis.

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

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

33954.DOC

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-491
* **CONDITIONED** *

Hubbs Mtn. Cabin Small Wastewater
(Name of Facility)

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

Dale L. Hubbs

Star Route 8A

Saratoga, WY 82331

to construct a small wastewater system according to the procedures and conditions of the application No. 94-491. The facility is located in SW¼ S28 T16N R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

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

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

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

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

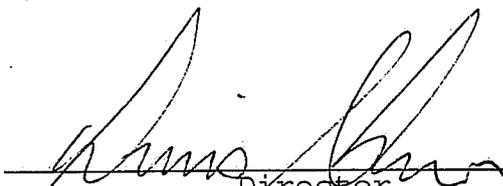
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

10-26-94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4 The applicant will notify the appropriate district office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.

Permit to Construct
Hubbs Mountain Cabin Small Wastewater
94-491
Page 3

2. of 4 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3. of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

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

RRT/mad 44991.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-491

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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

No

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

No

IV. Facilities not specifically covered by regulations.

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

NA

B. Briefly state the basis for the deviation.

NA

C. Permit based on general or statewide deviation contained in approved policy statement.

NA

Statement of Basis
94-491
October 24, 1994

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote¹

Not Applicable

- VI. Documentation of Statement of Basis.

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

¹ Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

PERMIT TO CONSTRUCT

X New
 Renewal
 Modified

PERMIT NO. 94-492
SPECIAL CONDITIONS

Cheyenne Airport Addition Lot 1 (Monitoring Wells)

This permit hereby authorizes the applicant:

Southwest Partners, LTD
2800 E. Camel Back Road #105
Phoenix, AZ 85016

to construct, install or modify monitoring wells according to the procedures and conditions of the application number 94-492. The facility is located in Section 30, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

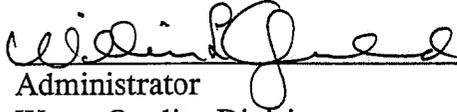
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the

project. The authorized representative in your area can be contacted at the following address: Southeast District Office, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

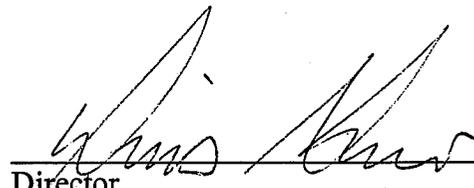
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

11/4/94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 20. The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 20. The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 20. Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and

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

4 of 20. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 20. The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-492. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).

6 of 20. Monitoring well/piezometer construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well/piezometer casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells/piezometers must be constructed from materials free of material having the potential to contaminate groundwater samples.

7 of 20. All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.

8 of 20. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.

9 of 20. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.

10 of 20. After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city and/or highway department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.

11 of 20. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the

division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.

- 12 of 20. The applicant is responsible for obtaining any permits required by the State Engineer's Office (777-7354).
- 13 of 20. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells/piezometers shall be installed to define the nature and extent of the contamination.
- 14 of 20. In addition to the well/piezometer construction information submitted with the permit application, the following items relating to well/piezometer construction shall be implemented when the wells/piezometers are constructed, installed and developed:
- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. For water table (unconfined) aquifers, the screened interval shall extend at least two (2) feet above the highest expected groundwater level. Monitoring wells/piezometers installed in confined and semi-confined aquifers shall be constructed in accordance with Chapter XI, Section 68 of Water Quality Division Rules and Regulations. Factory screen or slotted casing is recommended for the perforated interval;
 - c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
 - d. To minimize the entrance of fine grained material into the well/piezometer, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to a minimum of one (1) foot above the screened interval;
 - e. Filter pack, annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;
 - f. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal;

- g. The annular space above the bentonite seal to within one (1) foot of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout;
- h. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer;
- i. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from entering the well/piezometer; and
- j. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.

15 of 20. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.

16 of 20. Within ninety (90) days of the issuance of this permit, a report of investigation shall be submitted to WQD. This report shall contain at a minimum:

- a. A chronology of events leading up to the investigation;
- b. A site map showing the physical features, monitoring well/piezometer/borehole locations, and mean sea level elevations of the top of casing/measuring point;
- d. Final location, construction details and lithologic logs of monitor wells/piezometers/boreholes;
- e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
- f. Depth to water and product thickness measurements if product exists;
- g. Sample collection procedures;
- h. Sampling analytical results;
- i. If subsurface contamination exists a map delineating the extent of the subsurface contamination including LNAPL (free product), soil and dissolved groundwater contamination and concentrations;
- j. A potentiometric surface map showing the direction and gradient of groundwater flow; and

- k. Interpretation of the data and conclusions of the investigation, including additional recommended investigation and remedial measures, and a schedule for implementation of these measures.
-
- 17 of 20. Proper monitoring well/piezometer evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.
 - 18 of 20. All monitor wells/piezometers associated with this facility that are sampled and the groundwater analyzed shall have the results submitted to DEQ/WQD within 60 days of receiving the results.
 - 19 of 20. Water which is collected during monitoring well/piezometer development or sampling must be disposed of properly. The applicant must contact the city for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.
 - 20 of 20. The results of any analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.

GLS/nc 45025.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-492

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

No

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

Yes

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

No

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

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

Chapter XI, Section 63(a) requires a minimum depth of seal of 20 feet

B. Briefly state the basis for the deviation.

Physical features of the site may prevent the placement of 20 feet of seal.

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

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

- VII. Documentation of Statement of Basis.

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

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

GLS/nc 45025.LTR

PERMIT TO CONSTRUCT

New
Renewal
 Modified

PERMIT NO. 94-493
SEE SPECIAL CONDITIONS

Lost Soldier Unit

This permit hereby authorizes the applicant:

Amoco Production Company
P.O. Box 38
Bairoil, Wy 82322

to construct, install or modify site assessment/site characterization according to the procedures and conditions of the application number 94-493. The facility is located in NW 1/4 Section 11, T26N, R90W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of 3 years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, 3030 Energy Lane, Suite 200, Casper, Wyoming 82604; telephone (307) 473-3465.

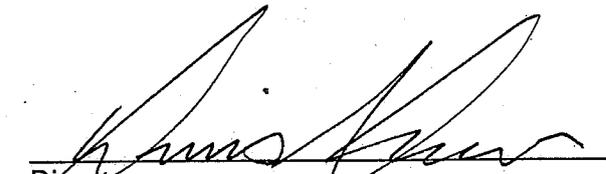
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

2/3/95

Date of Issuance

LF/jn - 50464.ltr

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

Standard Monitoring Well/Piezometer Conditions

- 1 of 13 The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application materials. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 13 Monitoring well construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells must be constructed from materials free of material having the potential to contaminate groundwater samples.
- 3 of 13 All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
- 4 of 13 Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
- 5 of 13 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 the

ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.

- 6 of 13 After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well shall be abandoned without prior approval from the Water Quality Division.
- 7 of 13 Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the Division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 8 of 13 The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
- 9 of 13 The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the nature and extent of the contamination.
- 10 of 13 In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. For water table (unconfined) aquifers, the screened interval shall extend at least two (2) feet above the highest expected groundwater level. Monitoring wells installed in confined and semi-confined aquifers shall be constructed in accordance with Chapter XI, Section 68 of Water Quality Division Rules and Regulations. Factory screen or slotted casing is recommended for the perforated interval;
 - c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
 - d. To minimize the entrance of fine grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic

materials encountered within the perforated interval. The filter pack shall extend to a minimum of one (1) foot above the screened interval;

- e. Filter pack, annular seal, and surface seal material shall be entered into the well in a manner such that no voids or bridging occur;
 - f. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal.
 - g. The annular space above the bentonite seal to within one foot (1') of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout.
 - h. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well;
 - i. A top and bottom cap of the same material as the well casing shall be installed to prevent sediment and surface water from entering the well;
 - j. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
- 11 of 13 DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 12 of 13 Proper monitoring well evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.
- 13 of 13 Water which is collected during monitoring well development or sampling must be disposed of properly. The Applicant must contact the City for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.

COMMENTS: GROUNDWATER SECTION

I. SUMMARY OF EXISTING CONTAMINATION:

1. This facility was originally identified as contaminated during the excavation for removal of 2 Underground Storage Tanks resulting in the issuance of an NOV. Subsequent evaluation of the entire site identified multiple potential sources for the contamination. Several site characterizations as well as an evaluation of the relative contribution to the plume for each source has been completed for the sources identified to date.

II. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

1. This facility has a long history with many different proven and suspected contamination sources. Prior to this work plan, there was a meeting to discuss the site difficulties which included the owner, their consultant and several members of the WDEQ/GPC staff. During this meeting several items were mutually agreed upon which remained unaddressed by earlier studies. Of the agreed upon procedures all are addressed in this Work Plan.

III. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

1. A Report of Investigation (ROI) shall be submitted to the WDEQ/WQD Casper office within sixty (60) days of completion of the subsurface investigation work. The ROI shall include the information specified in WDEQ/WQD's "Minimum Content Requirements for a Subsurface Investigation (SSI) Report of Investigation (ROI)". A copy of this document is enclosed.
2. The following standard monitoring well conditions shall apply to all wells installed under this permit:

Standard Monitoring Well/Piezometer Conditions

- | | |
|---------|--|
| 1 of 13 | The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application materials. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD). |
| 2 of 13 | Monitoring well construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells must be constructed from materials free of material having the potential to contaminate groundwater samples. |
| 3 of 13 | All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination. |
| 4 of 13 | Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division. |
| 5 of 13 | 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 the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice. |

- 6 of 13 After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well shall be abandoned without prior approval from the Water Quality Division.
- 7 of 13 Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the Division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 8 of 13 The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
- 9 of 13 The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the nature and extent of the contamination.
- 10 of 13 In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. For water table (unconfined) aquifers, the screened interval shall extend at least two (2) feet above the highest expected groundwater level. Monitoring wells installed in confined and semi-confined aquifers shall be constructed in accordance with Chapter XI, Section 68 of Water Quality Division Rules and Regulations. Factory screen or slotted casing is recommended for the perforated interval;
 - c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
 - d. To minimize the entrance of fine grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to a minimum of one (1) foot above the screened interval;

- e. Filter pack, annular seal, and surface seal material shall be entered into the well in a manner such that no voids or bridging occur;
- f. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal.
- g. The annular space above the bentonite seal to within one foot (1') of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout.
- h. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well;
- i. A top and bottom cap of the same material as the well casing shall be installed to prevent sediment and surface water from entering the well;
- j. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;

- 11 of 13 DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 12 of 13 Proper monitoring well evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.
- 13 of 13 Water which is collected during monitoring well development or sampling must be disposed of properly. The Applicant must contact the City for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.

END OF REVIEW

**"WDEQ/WQD Minimum Content Requirements for a Subsurface
Investigation (SSI) Report of Investigation (ROI)"**

The ROI shall include the following:

1. A chronology of events leading up to the investigation;
2. Final location, "as-built" construction details and lithologic logs (including olfactory or original vapor sensing instrument data) of monitor wells/piezometers/boreholes;
3. A site map showing:
 - a. physical features (i.e. structures, utilities, etc.);
 - b. monitoring well/piezometer/test pit/borehole locations;
 - c. surface waters/wetlands;
 - d. existing treatment, recovery and containment systems.
4. Geohydrologic maps and cross sections that clearly describe the subsurface distribution of geologic materials and elevations of groundwater;
5. Depth to water and product thickness measurements;
6. Monitor well and soil boring installation procedures utilized;
7. Sample collection procedures utilized and analytical results;
8. A map delineating the extent of the subsurface contamination including LNAPL (free product), soil and dissolved groundwater contamination, including contaminant isopach maps for BETX and TPH concentrations, and product layer thickness;
9. A potentiometric surface map showing the direction and gradient of groundwater flow;
10. Interpretation of the data and summary conclusions of the investigation results;
11. A recommended **Corrective Action Plan** and schedule for **either**:

A. Development and implementation of additional **Subsurface Investigation** work;

OR

B. Development and implementation of **Corrective Measures** to:

1. Remove LNAPL (Free-product);
2. Control the migration of LNAPL (free-product)
3. Control (contain) the migration of contaminated (dissolved) groundwater;
4. Restore the quality of groundwater to within Wyoming groundwater quality standards.

OR

C. Development and submittal of **Statement of Basis** to justify **Project (Site) Closure**.

NOTE: All plans and schedules for implementation of Subsurface Investigations, Corrective Measures and Project (Site) Closure require Department of Environmental Quality, Water Quality Division (WDEQ/WQD) approval prior to their implementation;

12. **Sampling and Analysis Plan (SAP)** for continued groundwater monitoring and reporting. The SAP shall include:
- A. Proposed format for reporting data;
 - B. Proposed frequency of sampling and reporting events;
 - C. A site map showing physical features and the location of monitoring wells;
 - D. Proposed parameters for water sample analyses and lab analytical procedures. The proposed parameters for analyses must include those characteristics of the suspected contamination (e.g. for petroleum hydrocarbon contamination sites, TPH, benzene, ethylbenzene, toluene, xylene, etc.). EPA procedures for volatile organic analyses (VOA) must be followed;
 - E. Description of sampling procedures to be followed, including:
 - 1. A description of (or reference to) groundwater sampling equipment to be used;
 - 2. QA/QC plan (including decontamination procedures) to be used;
 - F. Mean sea level elevations of the top of the casing/measuring point and depth to water of the monitoring wells;
 - G. A potentiometric surface map showing the direction and gradient of groundwater flow;
 - H. Time vs. concentration graph illustrating historical groundwater monitoring elevations and sample results for each monitoring/sampling location.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-494
SPECIAL CONDITIONS

Tom Berg Residential Septic System

This permit hereby authorizes the applicant:

Tom Berg
P.O. Box 763
Wheatland, WY 82201

to construct, install or modify residential septic system according to the procedures and conditions of the application number 94-494. The facility is located in NE 1/4 Section 5, T23N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

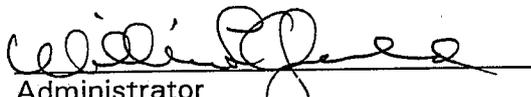
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

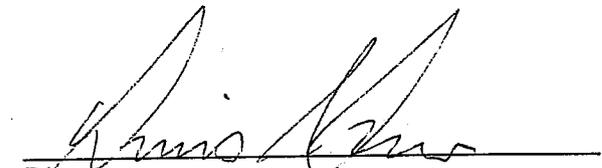
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

11/4/94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 5 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 5 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

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

4 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 5 The septic tank shall have either a 6 inch cleanout or manway extended to the ground surface for each compartment.

GLS/bb/45077.ltr

STATEMENT OF BASIS

i. General information.

A. Permit Number: 94-494

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

Yes

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

No

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

No

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

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

N/A

B. Briefly state the basis for the deviation.

N/A

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

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter . See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

- A. Facility will not allow a discharge to groundwater. Briefly describe:

N/A

- B. Quality of wastewater is such that it will not cause a violation of groundwater standards. Briefly describe:

- C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

- D. Basis of facility design is that it will be operated so as not to violate groundwater standards (example: maintenance of manure pack at animal waste treatment facility). Briefly describe:

- E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

- F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

- G. Briefly describe monitoring system (parameters, frequency, etc.). Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

- VII. Documentation of Statement of Basis.

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

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

GLS/bb/45077.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-495
SPECIAL CONDITIONS

Bairoil CO2 Cycling Plant - Condensate Line

This permit hereby authorizes the applicant:

Amoco Production Company
P.O. Box 38
Bairoil, WY 82322

to construct, install or modify monitoring wells according to the procedures and conditions of the application number 94-495. The facility is located in NE 1/4 Section 18, T26N, R89W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of 3 years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, 3030 Energy Lane, Suite 200, Casper, Wyoming 82604; telephone (307) 473-3465.

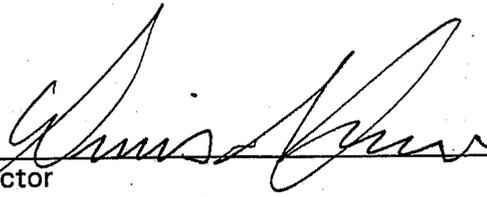
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

2/3/95

Date of Issuance

LF/jn - 50465.ltr

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

Standard Monitoring Well/Piezometer Conditions

- 1 of 16. The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-495. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 16. Monitoring well/piezometer construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well/piezometer casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells/piezometers must be constructed from materials free of material having the potential to contaminate groundwater samples.
- 3 of 16. All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
- 4 of 16. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
- 5 of 16. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
- 6 of 16. After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city and/or highway department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.

- 7 of 16. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 8 of 16. The applicant is responsible for obtaining any permits required by the State Engineer's Office (777-7354).
- 9 of 16. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells/piezometers shall be installed to define the nature and extent of the contamination.
- 10 of 16. In addition to the well/piezometer construction information submitted with the permit application, the following items relating to well/piezometer construction shall be implemented when the wells/piezometers are constructed, installed and developed:
- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. For water table (unconfined) aquifers, the screened interval shall extend at least two (2) feet above the highest expected groundwater level. Monitoring wells/piezometers installed in confined and semi-confined aquifers shall be constructed in accordance with Chapter XI, Section 68 of Water Quality Division Rules and Regulations. Factory screen or slotted casing is recommended for the perforated interval;
 - c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
 - d. To minimize the entrance of fine grained material into the well/piezometer, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to a minimum of one (1) foot above the screened interval;
 - e. Filter pack, annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;
 - f. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal.
 - g. The annular space above the bentonite seal to within one foot (1') of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout.
 - h. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer;

- i. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from entering the well/piezometer;
 - j. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
- 11 of 16. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 12 of 16. Within ninety (90) days of the issuance of this permit, a report of investigation shall be submitted to WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
 - b. A site map showing the physical features, monitoring well/piezometer/borehole locations, and mean sea level elevations of the top of casing/measuring point;
 - c. The permittee shall provide the exact latitude and longitude for each of the monitor wells/piezometers being constructed under this permit. These figures shall be accurate to the nearest one (1) second of latitude and longitude;
 - d. Final location, construction details and lithologic logs of monitor wells/piezometers/boreholes;
 - e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
 - f. Depth to water and product thickness measurements;
 - g. Sample collection procedures;
 - h. Sampling analytical results;
 - i. A map delineating the extent of the subsurface contamination including LNAPL (free product), soil and dissolved groundwater contamination and concentrations;
 - j. A potentiometric surface map showing the direction and gradient of groundwater flow; and
 - k. Interpretation of the data and conclusions of the investigation, including additional recommended investigation and remedial measures, and a schedule for implementation of these measures.

13 of 16. Proper monitoring well/piezometer evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

14 of 16. All monitor wells/piezometers associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters according to the EPA Method stated:

EPA Method 624.5

- a. After the second monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the second monitoring event. WQD may substitute less expensive methods for the above listed methods depending on the results of the first monitoring.
- b. The results of these analyses shall be submitted to the DEQ/WQD Casper office by the last day of the month following the end of each quarter. The first set of results are due 60 days following completion of the wells.

15 of 16. Water which is collected during monitoring well/piezometer development or sampling must be disposed of properly. The applicant must contact the city for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.

16 of 16. The results of any analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
3030 Energy Lane, Suite 200
Casper, Wyoming 82604

PROJECT: **Installation of Monitoring Wells**

FACILITY NAME: **Bairoil CO2 Cycling Plant - Condensate Line**

APPLICANT: **Amoco Production Company
P.O. Box 38
Bairoil, WY 82322**

ENGINEER/
CONSULTANT: **Steven F. Moldt
Inberg-Miller Engineers
1120 East C Street
Casper, WY 82601**

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: **94-495**

EXISTING NEW AS BUILT

TITLE: Work Plan For Evaluation of Condensate Line Bairoil CO2 Cycling Plant, Carbon County, Wyoming

PLANS SPECS PROPOSAL REPORT
[Check all that APPLY]

DATE ON PROPOSAL/PLANS/REPORT: October 25, 1994
IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES [PERMIT #]
AN LOV, NOV OR OTHER ENFORCEMENT? NO YES [DATE]

REVIEWING GEOLOGIST:

(Signature)

REVIEWING ENGINEER:

(Signature)

APPROVING ENGINEER:

(Signature)

DATE OF THIS REVIEW: December 12, 1994

ACTION: **AUTHORIZED**

COMMENTS: GROUNDWATER SECTION

I. SUMMARY OF EXISTING CONTAMINATION:

Contamination resulting from a condensate line leak. Preliminary readings from PID within soil excavations showed high concentrations.

II. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

The proposal is to delineate and characterize the full extent of the contamination by completing multiple soil borings and installing monitor wells as required to sample and provide sufficient characterization of the contamination to complete plans for remediation.

III. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

A. FOLLOW-THROUGH ON THOSE RECOMMENDATIONS AS PROPOSED IN REPORT.

B. The following standard monitoring well conditions shall apply to all wells installed under this permit:

Standard Monitoring Well/Piezometer Conditions

- 1 of 16. The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-495. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 16. Monitoring well/piezometer construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well/piezometer casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells/piezometers must be constructed from materials free of material having the potential to contaminate groundwater samples.
- 3 of 16. All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
- 4 of 16. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
- 5 of 16. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
- 6 of 16. After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city and/or highway department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.

- 7 of 16. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 8 of 16. The applicant is responsible for obtaining any permits required by the State Engineer's Office (777-7354).
- 9 of 16. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells/piezometers shall be installed to define the nature and extent of the contamination.
- 10 of 16. In addition to the well/piezometer construction information submitted with the permit application, the following items relating to well/piezometer construction shall be implemented when the wells/piezometers are constructed, installed and developed:
- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. For water table (unconfined) aquifers, the screened interval shall extend at least two (2) feet above the highest expected groundwater level. Monitoring wells/piezometers installed in confined and semi-confined aquifers shall be constructed in accordance with Chapter XI, Section 68 of Water Quality Division Rules and Regulations. Factory screen or slotted casing is recommended for the perforated interval;
 - c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
 - d. To minimize the entrance of fine grained material into the well/piezometer, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to a minimum of one (1) foot above the screened interval;
 - e. Filter pack, annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;
 - f. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal.
 - g. The annular space above the bentonite seal to within one foot (1') of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout.
 - h. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer;

- i. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from entering the well/piezometer;
 - j. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
- 11 of 16. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 12 of 16. Within ninety (90) days of the issuance of this permit, a report of investigation shall be submitted to WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
 - b. A site map showing the physical features, monitoring well/piezometer/borehole locations, and mean sea level elevations of the top of casing/measuring point;
 - c. The permittee shall provide the exact latitude and longitude for each of the monitor wells/piezometers being constructed under this permit. These figures shall be accurate to the nearest one (1) second of latitude and longitude;
 - d. Final location, construction details and lithologic logs of monitor wells/piezometers/boreholes;
 - e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
 - f. Depth to water and product thickness measurements;
 - g. Sample collection procedures;
 - h. Sampling analytical results;
 - i. A map delineating the extent of the subsurface contamination including LNAPL (free product), soil and dissolved groundwater contamination and concentrations;
 - j. A potentiometric surface map showing the direction and gradient of groundwater flow; and
 - k. Interpretation of the data and conclusions of the investigation, including additional recommended investigation and remedial measures, and a schedule for implementation of these measures.

- 13 of 16. Proper monitoring well/piezometer evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.
- 14 of 16. All monitor wells/piezometers associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters according to the EPA Method stated:
- EPA Method 624.5
- a. After the second monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the second monitoring event. WQD may substitute less expensive methods for the above listed methods depending on the results of the first monitoring.
- b. The results of these analyses shall be submitted to the DEQ/WQD Casper office by the last day of the month following the end of each quarter. The first set of results are due 60 days following completion of the wells.
- 15 of 16. Water which is collected during monitoring well/piezometer development or sampling must be disposed of properly. The applicant must contact the city for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.
- 16 of 16. The results of any analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.

END OF REVIEW

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-496
SPECIAL CONDITIONS

Holly Sugar Corporation Sanitary Sewer System

This permit hereby authorizes the applicant:

Holly Sugar Corporation
P.O. Box 1052
Colorado Springs, CO 80901

to construct a private sewer collection line and connection to South Torrington collection system according to the procedures and conditions of the application number 94-496. The facility is located in SW 1/4 Section 15, T24N, R61W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the

project. The authorized representative in your area can be contacted at the following address: Southeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

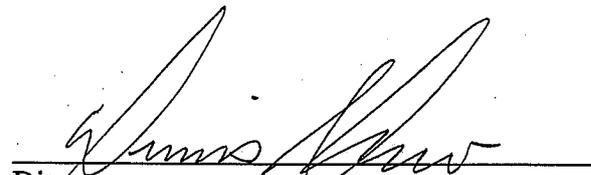
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2-7-95

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 6 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 6 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 6 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and

Permit to Construct 94-496

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

4 of 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 6 The permittee shall submit a copy of the contract or a letter from the South Torrington Water and Sewer district accepting the wastewater from this facility. The letter shall be submitted to this office prior to placing the private collection line in service.

6 of 6 The private collection line is being permitted for domestic waste only.

GLS/nc 50572.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-496

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

No

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

Yes

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

No

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

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

Chapter XI Section 10(e)(i) requires that pump stations have a minimum of 2 pumps.

B. Briefly state the basis for the deviation.

The proposed lift station has small flows and emergency procedures have been developed if the lift station fails. Also if the lift station fails the wastewater will overflow into a gravity flow line to the collection system.

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

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

- VII. Documentation of Statement of Basis.

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

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

GS/nc 50572.LTR

R7

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Holly Sugar Corporation Sanitary Sewer System

ENGINEER: James H. Roeder
Holly Sugar Corporation
P.O. Box 1052
Colorado Springs, CO 80901

APPLICANT: Holly Sugar Corporation
P.O. Box 1052
Colorado Springs, CO 80901

WATER QUALITY REFERENCE NUMBER: 94-496

APPROVING ENGINEER: Gary Steele



DATE OF REVIEW: November 4, 1994

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

- 1 of 5. The permit application package as submitted is incomplete. Water Quality Rules and Regulations require that the design package include specifications. The specifications need to either meet the requirements of Chapter XI Section 7(d) or a set of standard specifications approved by this office may be indicated on the plans. The Wyoming Public Works Standard Specifications have been approved by this office.
- 2 of 5. Please provide the design information which pertains to this facility under Chapter XI Section 10 of the Water Quality Rules and Regulations. Section 10(e) requires that the lift station be provided with a minimum of 2 pumps. If it is proposed to only install 1 pump then information justifying a deviation to this section must be provided. The deviation request must include an emergency action plan to be put into place if the single pump ever goes out.
- 3 of 5. The bury depth of the sewer line under the highway seems shallow. Will this bury depth be adequate to protect the sewer line from freezing?
- 4 of 5. The plans indicate that a water line exists at an unknown location. If the proposed sewer line is not 18" or more below the water line at the crossing then the sewer line must either be placed in a separate casing pipe or the sewer line needs to be constructed with water grade pipe. Both protective measures must extend a minimum of 10 feet on both sides of the crossing.
- 5 of 5. The lift station and sewer line that originates on the south side of the facility and only service one building is not covered by the Water Quality Rules and Regulations at this time. If Holly Sugar ever anticipates another connection to this line it will require a construction permit and the line will be addressed under the Water Quality Rules and Regulations.

PERMIT TO CONSTRUCT

[X] New
Renewal
Modified

PERMIT NO. 94-497
STANDARD CONDITIONS

PIERCE ROAD WATERLINE

This permit hereby authorizes the applicant:

Sheridan Area Water Supply Joint Powers Board
224 South Main Street
Sheridan, WY 82801

to construct, install or modify a waterline according to the procedures and conditions of the application number 94-497. The facility is located in the NW/4 of the SE/4 and SW/4 of NE/4 of Section 2 Township 55 North Range 85 West in the county of Sheridan, in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue, Suite D, Sheridan, Wyoming 82801; telephone (307) 672-6457.

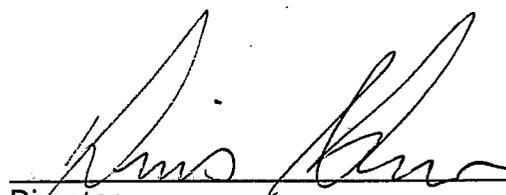
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any 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

11/4/94

Date of Issuance

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

STANDARD CONDITIONS

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

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

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

DRM/pr:11/01/94

b/45084.ltr

cc: SAWS Pierce Road 94-497 File

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-497

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

A. Chapter XI. No.

B. Chapter XII. Yes.

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

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

Yes.

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

Not Applicable (N/A).

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

N/A.

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

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

N/A.

B. Briefly state the basis for the deviation.

N/A.

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

N/A.

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter 1. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A.

VII. Documentation of Statement of Basis.

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

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

DRM/bb/45084.ltr

LAND APPLICATION PERMIT

New

PERMIT NO. 94-498

Renewal

(SEE SPECIAL CONDITIONS)

Modified

BOOS FEDERAL #22-30 ROAD APPLICATION

(Name of Facility)

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

DCD, Inc.
2740 Coulter Lane
Gillette, WY 82716

to land apply crude oil contaminated soil according to the procedures and conditions of the application No. 94-498. The application site is located in the W/2 of Section 30 of Township 47 North Range 70 West, in the County of Campbell in the State of Wyoming. This permit shall be effective until December 15, 1994.

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 land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal will meet applicable state requirements.

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

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

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

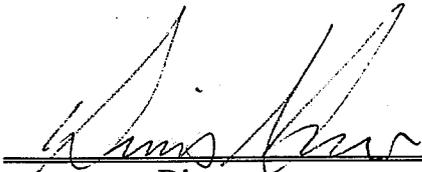
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

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 land application permit.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

11/8/94

Date of Issuance

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

SPECIAL PERMIT CONDITIONS

- 1 of 9. The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division (DEQ/WQD) of the anticipated project commencement and completion dates with the attached post card. At least 48 hours advance notice is required. The authorized representative in your area can be reached at the following address: Wyoming DEQ/WQD, Sheridan District Office, 1043 Coffeen Avenue, Suite D, Sheridan, Wyoming 82801, telephone number 307/672-6457.
- 2 of 9. The permittee shall provide immediate oral and/or written notification, in accordance with Section 9 of Chapter III, to the Sheridan District Office of any changes or modifications which are not consistent with the terms of this permit.
- 3 of 9. Within sixty (60) days of the project completion the applicant will submit to the Sheridan District Office the form provided (Certification Of Completion).
- 4 of 9. The permittee shall submit a contour map depicting only those sections of road that actually received crude oil contaminated soil within sixty (60) days of the project completion to the Sheridan District Office.
- 5 of 9. The review and approval of this permit is based upon the items identified in the attached Statement Of Basis.
- 6 of 9. The crude oil contaminated soil shall be applied uniformly.

PERMIT #94-498

- 7 of 9. The application of the crude oil contaminated soil shall not be conducted at times when saturated soil conditions exist or when the ground is frozen.
- 8 of 9. The application site slope shall not exceed eight percent (8%) for vehicular application.
- 9 of 9. The application of the crude oil contaminated sand shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

DRM/pr:11/07/94

b/45167.LTR

Attachments: Notification Post Card
Certification of Completion Form
Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-498

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

A. Chapter XI. No.

B. Chapter XII. No.

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

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

No.

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

No.

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

No.

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

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

There are no numeric standards or criteria in Chapter XI for road application. W.S. 35-11-301 (a) (iii) requires a permit to be issued when any disposal system capable of causing or contributing to pollution is constructed, installed, modified, or operated.

B. Briefly state the basis for the deviation.

Road application is permitted when DEQ authorized disposal facilities are not readily available, a beneficial use of the waste to be applied is possible, and significant impact to waters of the State is minimized.

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

District Policy numbers 10.1 (4/9/91), 10.2 (10/17/86), 10.3 (8/1/91), 10.4 (10/24/91), and 10.6 (12/03/90) address the statutory authority to regulate the road application of waste, establish the criteria for characterizing the waste, and determine acceptable conditions for the application of the waste to roadbeds to minimize impact to waters of the State.

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Applicable.

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

- A. Facility will not allow a discharge to groundwater. Briefly describe:

The opportunity for direct or indirect discharge, percolation, or filtration to groundwater is minimized by uniformly applying the crude oil contaminated soil into the roadbed. Repeated applications of waste to the same sections of road will be monitored by roadbed analyses.

- VII. Documentation of Statement of Basis.

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

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

DRM/bb/45167.LTR

PERMIT TO CONSTRUCT

[X] New
Renewal
Modified

PERMIT NO. 94-499
STANDARD CONDITIONS

FALCON RIDGE DEVELOPMENT

This permit hereby authorizes the applicant:

Falcon Ridge Development
P.O. Box 665
Sheridan, WY 82801

to construct, install or modify water distribution and sewer collection lines according to the procedures and conditions of the application 94-499. The facility is located in the SW/4 of the NE/4, the SE/4 of the NW/4, the NE/4 of the SW/4, and the NW/4 of the SE/4 of Section 3 in Township 55 North Range 84 West in the county of Sheridan, in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

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

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

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

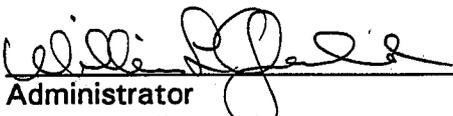
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Wyoming Department of Environmental Quality, Water Quality Division, 1043 Coffeen Avenue, Suite D, Sheridan, Wyoming 82801; telephone (307) 672-6457.

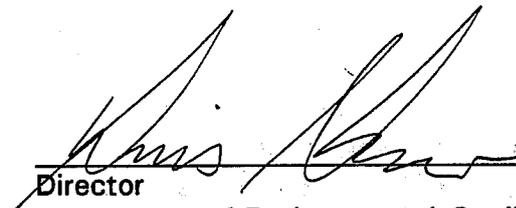
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any 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

12-13-94

Date of Issuance

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

STANDARD CONDITIONS

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

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

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

JFK ✓
DRM/pr:12/08/94

Enclosures: Statement of Basis
Post Card
Certification of Completion Form

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-499

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

A. Chapter XI. Yes.

B. Chapter XII. Yes.

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

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

Yes.

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

No.

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

No.

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

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

Not Applicable (N/A).

B. Briefly state the basis for the deviation.

N/A.

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

N/A.

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. in the Statement of Basis.)

N/A.

VII. Documentation of Statement of Basis.

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

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

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