

244

PERMIT TO CONSTRUCT

Permit No. 80-551R

New

Renewal

Modified

Squaw Ranch Common Area Trailer Holding Tank Disposal Facility
(Name of Facility)

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

Squaw Ranch Homeowners' Association

341 East "E" Street, Suite 185

Casper, WY 82601

to construct, install, or modify a small subsurface wastewater disposal facility according to the procedures and conditions of the application No. 80-551R. The facility is located in Section 27, T28N, R74W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

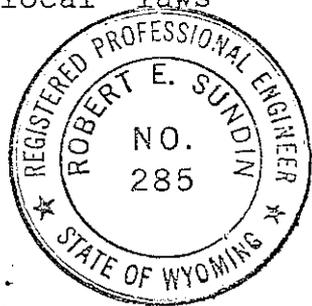
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

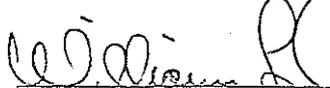
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

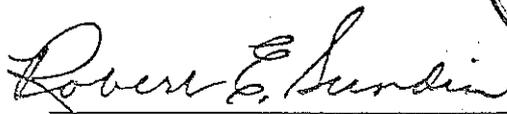
AUTHORIZED BY:




WILLIAM L. GARLAND
479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

Administrator
Water Quality Division

March 12, 1981
Date of Issuance


Director
Dept. of Environmental Quality

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

cc: Robert L. Kumpe, Jr.
Kumpe & Associates
341 East "E" Street
Suite 185
Casper, WY 82601

LEJ

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Squaw Ranch Common Area Holding Tank Disposal Facility

ARCHITECT OR ENGINEER: Robert L. Kumpe, Jr., Kumpe and Associates
341 East E Street, Suite 185, Casper, WY
82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-551

REVIEWING ENGINEER: *LeRoy C. Feusner*
LeRoy C. Feusner, P.E.

DATE OF REVIEW: November 12, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The application for a Permit to Construct must be signed by the applicant.
2. The plans must carry the signature or seal of a professional engineer licensed in Wyoming.
3. The proposed septic tank is undersized. A minimum volume for a septic tank would be at least 4320 gallons for a daily flow of 4250 gallons. The required volume could be achieved by one septic tank or by two, in series, with the first unit at least twice the size of the second in order to provide adequate sludge volume.
4. When the quantity of sewage exceeds the amount that can be disposed of in about 500 lineal feet of leach field pipe, a dosing tank is recommended in conjunction with the septic tank in order to obtain proper distribution of the sewage throughout the disposal area and give the absorption bed a chance to rest or dry out between dosings. The dosing tank should be designed to discharge every three-four hours, and have a capacity equal to about 60-75% of the interior capacity of the leach field to be dosed.
5. The leach field should be protected or posted to prevent vehicle traffic from collapsing the field pipe.
6. A splash/runoff curb should be provided for the surface inlet structure to help prevent discharges to the ground surface during mobile home/camper emptying operations. How will the connection be accomplished?
7. What do the small rectangles on the Plan Sheet refer to?

LEB

PERMIT TO CONSTRUCT



New

Permit No. 80-552



Renewal



Modified

Wickes Lumber Company

(Name of Facility)

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

Wickes Lumber Company

515 North Washington Avenue

Saginaw, MI 48607

to construct, install, or modify a 6 inch potable water service connection with a fire hydrant

facility according to the procedures and conditions of the application

No. 80-552. The facility is located in Section 1 & 6,

T33N, R78W and R79W

in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

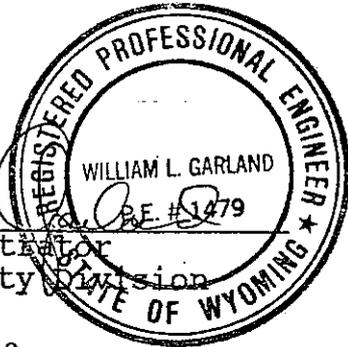
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

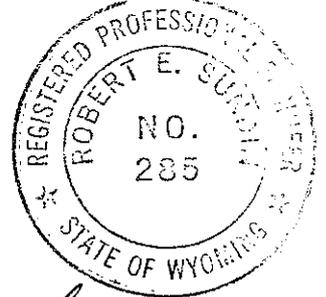
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



William L. Garland

Administrator
Water Quality Division



Robert E. Sunden

Director
Dept. of Environmental Quality

November 12, 1980
Date of Issuance

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

cc: Russ Donley
501 North Sun Drive
Casper, WY 82601

PERMIT TO CONSTRUCT

New

Permit No. 80-553RR

Renewal

Modified

Valley Hi Motel Small Wastewater Facilities

(Name of Facility)

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

Anna Mae and Andrew Harrower

Valley Hi Motel

Cokeville, WY 83114

to construct, install, or modify a five leach fields, two septic tanks

facility according to the procedures and conditions of the application

No. 80-553RR. The facility is located in Sec. 8, T. 24N, R. 119W

in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

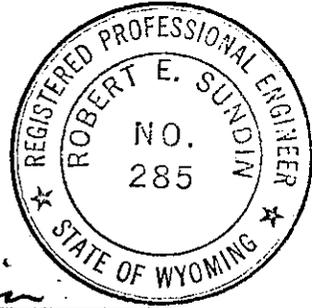
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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AUTHORIZED BY:



William L. Garland
Administrator
Water Quality Division
P.E. # 1479
November 18, 1980
Date of Issuance

A circular seal for a Registered Professional Engineer. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM L. GARLAND" and the number "P.E. # 1479".

Robert E. Sundin
Director
Dept. of Environmental Quality

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

FL/kn

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 80-554R

Bowen Tools Wastewater System
(Name of Facility)

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

Bowen Tools Inc.

P.O. Box 1492

Rock Springs, WY 82901

to construct, install, or modify a Small Wastewater

facility according to the procedures and conditions of the application

No. 80-554R. The facility is located in East 120' Lot 8

and West 30' Lot 7; Block 15, Mountaineer 5th Sec. 9, SE $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 9,

T. 19N, R. 105W

in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two years (five (5) years maximum) from the date of issuance of this permit.

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

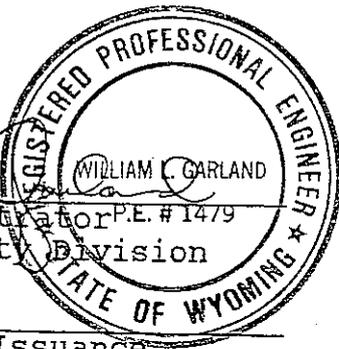
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

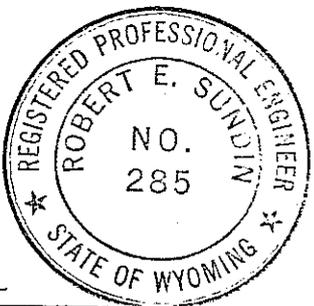
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William C. Garland
Administrator P.E. #1479
Water Quality Division
November 5, 1980
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

FL/yh

CONDITIONS PERMIT TO CONSTRUCT

1. The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Rock Springs Area Regional Wastewater Treatment System requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned and integrated into the regional system in accordance with the requirements of the Rock Springs Area Regional Wastewater Treatment System.
2. The intent to participate in an approved regional system will be formalized by the execution of an intergovernmental agreement between County of Sweetwater, City of Rock Springs, Inter-City Sewer and Water District, and White Mountain Water and Sewer District. This agreement will be executed and submitted to the Department of Environmental Quality, Water Quality Division by _____.
It is recognized that this agreement will include a provision for updating and revising the agreement as additional cost estimates and the schedule for various components are developed during the facility planning process.

PRELIMINARY

6.6

PERMIT TO CONSTRUCT

Permit No. 80-555R

New

Renewal

Modified

With Condition

Arch Mineral Corporation - Seminole II Mine
(Name of Facility)

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

Arch Mineral Corporation

Hanna, WY 82327

to construct, install, or modify a potable water supply facility according to the procedures and conditions of the application No. 80-555RR. The facility is located in Sections 8 & 9, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

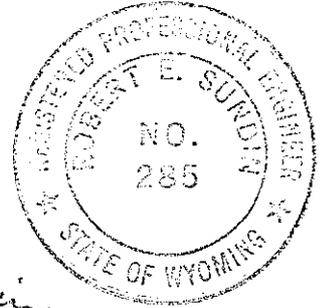
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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AUTHORIZED BY:



William L. Garland

WILLIAM L. GARLAND
Administrator P.E. # 1473
Water Quality Division
April 3, 1981
Date of Issuance

Robert E. Surdin

Director
Dept. of Environmental Quality

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

cc: Robert Jack Smith & Associates
Paul McCarthy
Box 1104
Rawlins, WY 82301

CONDITION

The water storage tank shall be fenced to prevent trespassing, vandalism and sabotage.

M
12 3-80

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Arch Mineral Corp., Seminole II Mine, Carbon Co.

ARCHITECT OR ENGINEER: Paul McCarthy, P.E., Rob't Jack Smith & Assoc.
P.O. Box 1104, Rawlins, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 80-555R

REVIEWING ENGINEER: Theodore D. Coyer, P.E. *Theodore D. Coyer*

DATE OF REVIEW: December 2, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The Town of Hanna's water supply must be protected at the booster pump station with a reduced pressure zone backflow preventer.
2. A detailed drawing showing the installation of the backflow preventer, booster pump and related equipment must be provided. If the installation is to be installed in a pit, the pit must be properly drained.
3. The booster pump characteristics and a description of the air relief system must be provided.
4. The effects of the booster pump on the pressures in Hanna's system must be determined and presented.
5. A minimum pressure of 20 psi must be maintained throughout the distribution system under all conditions of flow.
6. The well pump installation must be shown on the plans along with complete design characteristics.

L 86

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Arch Mineral Corp. - Seminole II Mine, Carbon Co.

ARCHITECT OR ENGINEER: Paul McCarthy, P.E., Robert Jack Smith & Associates, P.O. Box 1104, Rawlins, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 80-555

REVIEWING ENGINEER: Theodore D. Coyer

Theodore D. Coyer

DATE OF REVIEW: November 13, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Plans were not sealed or signed by an engineer registered in Wyoming.
2. Provide complete details and specifications for the proposed 3-inch water main. The plans were too incomplete for review.
3. Provide details of the proposed storage tank. How will the potable water supply be protected?

cc: Arch Mineral Co.
Hanna, WY 82327

PERMIT TO CONSTRUCT

New

Permit No. 80-556

Renewal

Modified

EAGLE BUTTE NPDES 007 RESERVOIR

(Name of Facility)

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

AMAX Coal Company, c/o Mike Brown

P.O. Box 3005

Gillette, Wyoming 82716

to construct, install, or modify a pit water retention pond

facility according to the procedures and conditions of the application

No. 80-556. The facility is located in Section 10,

T.51N., R.72W.

in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

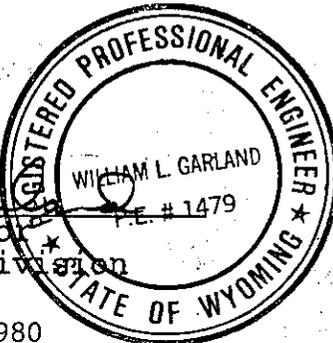
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

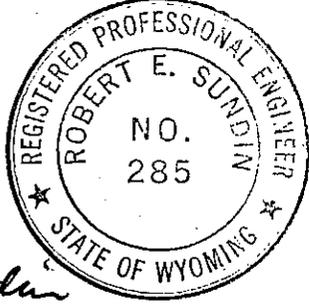
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division


Robert E. Sundin
Director
Dept. of Environmental Quality

November 21, 1980
Date of Issuance

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

Norma

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

April 7, 1981

Mr. Clay McAlpine
ARIX
609 East Madison, Suite 1
Riverton, WY 82501

Re: Change Orders for Jackson Sewer
Interceptor Line, Schedule I & II
DEQ Reference #80-557RRR

Dear Clay:

I have reviewed the above referenced change orders. Before I can give the Construction Grants people my approval, the following points need to be addressed:

1. DEQ must have three complete sets of the finalized drawings and specifications.
2. You must justify elimination of the steel casing through open highway cuts with the necessary calculations.
3. Does the manufacturer of ductile iron pipe recommend Class C bedding? If so, provide this information.
4. Engineering justification is needed for the elimination of the steel casing and concrete ballast on the Flat Creek crossings.

Mike Hackett is holding on to the change orders. When the above points have been resolved to the satisfaction of this office, he will put the change orders through.

If you have any questions, contact me at this office.

Yours truly,

Frank LaBarge
Water Quality Evaluator
Southwest District

FL/kn

cc: Cheyenne DEQ/WQD
Mike Hackett - Cheyenne DEQ/WQD

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-557RRR
Ref. No. 80-493
C560102-13

Jackson Sewer Interceptor Line - Schedule I and II
(Name of Facility)

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

Town of Jackson

P.O. Box 1687

Jackson, WY 83001

to construct, install, or modify a sewer interceptor

facility according to the procedures and conditions of the application
No. 80-557RRR. The facility is located in Sec. 27, 28,
T. 41N, R. 116W

in the County of Teton, in the State of Wyoming. This permit
shall be effective for a period of two (2) years (five (5) years
maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environ-
mental 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 responsi-
bility of the applicant, owner, or operator.

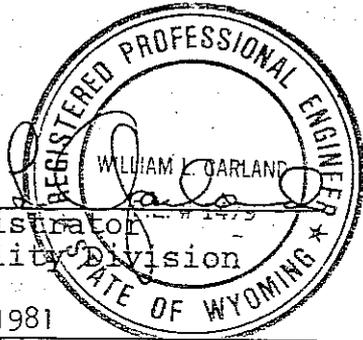
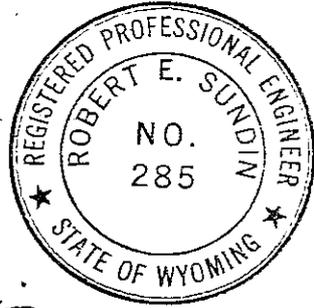
The authority to construct granted by this permit does not mean or
imply that the Wyoming Department of Environmental Quality guarantees
or insures that the permitted facility, when constructed, will meet
applicable discharge permit conditions or other effluent or oper-
ational requirements.

The permittee shall allow authorized representatives from the Depart-
ment of Environmental Quality, Water Quality Division, upon the pre-
sentation 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.

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AUTHORIZED BY:



William L. Garland
Administrator
Water Quality Division
February 16, 1981
Date of Issuance

Robert E. Sundin
Director
Dept. of Environmental Quality

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

FL/kn

PERMIT TO CONSTRUCT

Permit No. 80-558

- New
- Renewal
- Modified

Land Utilities
(Name of Facility)

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

City of Cheyenne
2101 O'Neil Avenue
Cheyenne, WY 82001

to construct, install, or modify an 8-inch water main extension in Rock Springs Ave., North of Ridge Road and an 8-inch sanitary sewer between Rock Springs Ave. and Land Court extending north of Ridge Road according to the procedures and conditions of the application No. 80-558. The facility is located in Sec. 21, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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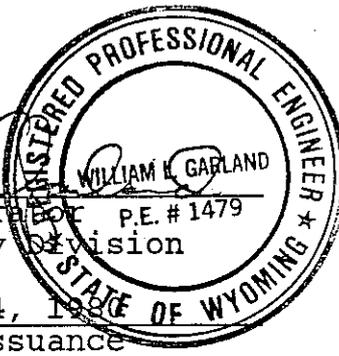
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

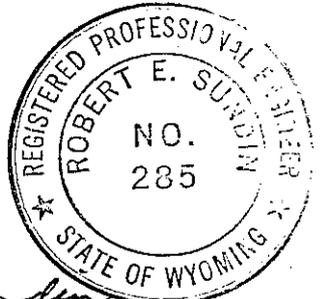
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AUTHORIZED BY:


William K. Garland
Administrator P.E. # 1479
Water Quality Division
November 14, 1988
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Jeff Couch
BRW/Noblitt
1912 Capitol, Suite 200
Cheyenne, WY 82001

LEB

PERMIT TO CONSTRUCT

New

Permit No. 80-559

Renewal

Ref. No. 80-423

Modified

Sunnyside II
(Name of Facility)

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

City of Cheyenne

2101 O'Neil Avenue

Cheyenne, WY 82001

to construct, install, or modify a Municipal water distribution and wastewater collection systems

facility according to the procedures and conditions of the application

No. 80-559. The facility is located in Section 27,
Ref. No. 80-423
T14N, R66W

in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

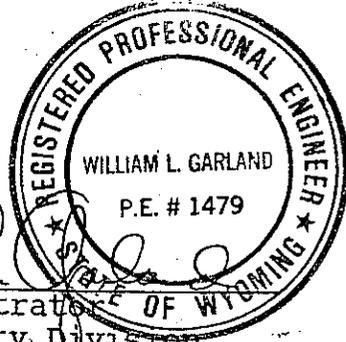
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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location,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

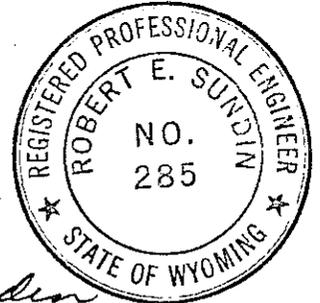
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AUTHORIZED BY:



William L. Garland
Administrator OF WYOMING
Water Quality Division



Robert E. Sunden
Director
Dept. of Environmental Quality

November 12, 1980
Date of Issuance

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

cc: Jeff Couch
BRW Noblitt
1912 Capitol, Suite 300
Cheyenne, WY 82001

PERMIT TO CONSTRUCT



New

Permit No. 80-560R



Renewal



Modified

K-MART SANITARY SEWER EXTENSION- City of Cody

(Name of Facility)

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

K&M Development Company

2625 Butterfield Road

Oakbrook, IL 60521

to construct, install, or modify a Sewer Line Extension

~~facility~~ according to the procedures and conditions of the application

No. 80-560R. The facility is located in Sec. 8, T 52N,

R 101W

in the County of Park, in the State of Wyoming. This permit shall be effective for a period of Two years (five (5) years maximum) from the date of issuance of this permit.

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

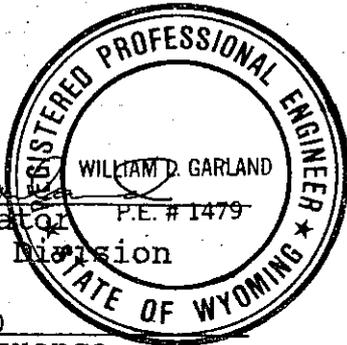
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

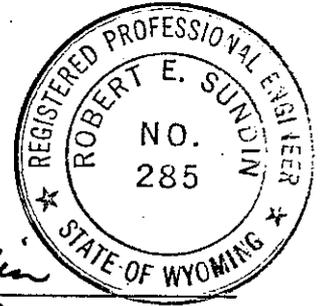
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



William D. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director
Dept. of Environmental Quality

November 14, 1980
Date of Issuance

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

MRC/yh

PERMIT TO CONSTRUCT



New

Permit No. 80-561



Renewal



Modified

2nd PIONEER ADDITION WATER AND SEWER, CITY OF GILLETTE

(Name of Facility)

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

Mr. Steven Tarver

P.O. Box 127

Gillette, Wyoming 82716

to construct, install, or modify a water distribution and
sewage collection

facility according to the procedures and conditions of the application

No. 80-561. The facility is located in Section 20,

T.50N., R.72W.

in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

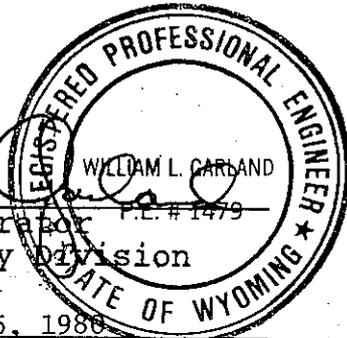
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING
November 25, 1986
Date of Issuance


Robert E. Sundin
ROBERT E. SUNDIN
NO. 285
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Director
Dept. of Environmental Quality

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

cc: Kanti Patel
310 4J Road
Gillette, WY 82716

PERMIT TO CONSTRUCT



New

Permit No. 80-562RR



Renewal



Modified

EIGHT MILE SUBDIVISION WATER SYSTEM

(Name of Facility)

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

Ronald T.A. Derksen

2300 Country Club Road

Gillette, Wyoming 82716

to construct, install, or modify a public water supply

facility according to the procedures and conditions of the application

No. 80-562RR. The facility is located in Section 5,

T.49N., R.73W.

in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

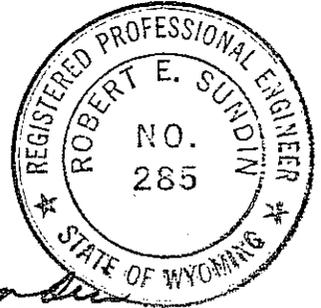
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

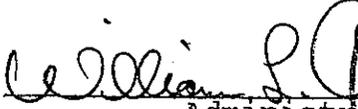
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

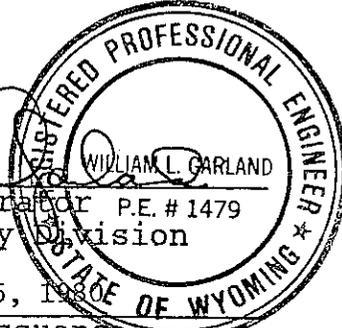
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

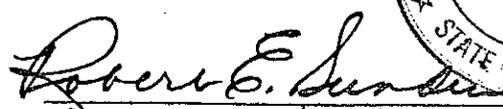
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:




WILLIAM L. GARLAND
Administrator P.E. #1479
Water Quality Division
December 15, 1988
Date of Issuance

A circular seal for a Registered Professional Engineer. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM L. GARLAND".


Director
Dept. of Environmental Quality

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

cc: Ed Scott
Scott Engineering
P.O. Box 2097
Gillette, Wyoming 82716

PERMIT TO CONSTRUCT



New

Permit No. 80-563R



Renewal



Modified

PONDEROSA LODGE SMALL WASTEWATER FACILITY

(Name of Facility)

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

William Mizell
Jesse R. McIntire

Box 832

Pinedale, WY 82941

to construct, install, or modify a Small Wastewater

facility according to the procedures and conditions of the application

No. 80-563R. The facility is located in SE $\frac{1}{4}$ of the NE $\frac{1}{4}$,

Sec. 9, T 34N, R 108W

in the County of Sublette, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

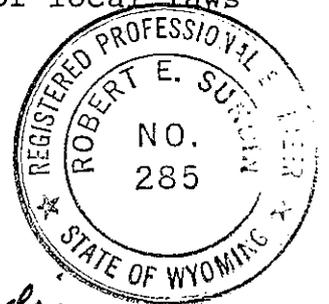
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

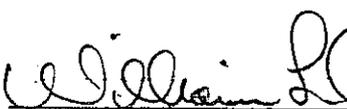
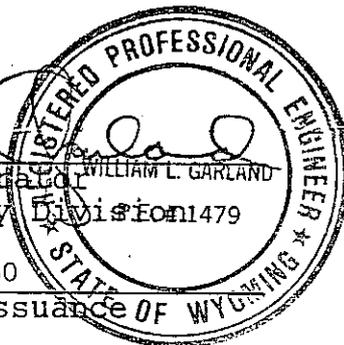
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

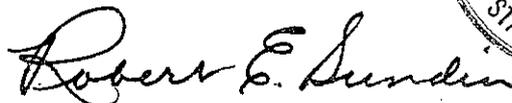
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:




Administrative 
Water Quality Division
December 18, 1980
Date of Issuance


Director
Dept. of Environmental Quality

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

FL/yh

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.

(307) 332-3144

PROJECT: Ponderosa Lodge Wastewater Treatment Facility

ENGINEER: Robert Harrower
Rio Verde Engineering
P.O. Box 67
Pinedale, WY 82941

OWNER: William Mizell and Jesse R. McIntire
Ponderosa Lodge
Box 832
Pinedale, WY 82941

WATER QUALITY DIVISION REFERENCE NUMBER: 80-563

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: November 3, 1980

ACTION: NOT AUTHORIZED.

COMMENTS: The following points have to be clarified to complete the review of the proposed wastewater facility before a "Permit to Construct" can be issued.

1. How many patrons per day will be served at the restaurant?
2. How many people per day will be using the rental rooms?
3. The septic tank should provide for approximately two days of detention time.
4. Please provide details of the pumping chamber. It should have a minimum capacity of 500 gallons, an alarm system, air vent and an access for maintenance and pump removal. What is the designation of the 2 inch PVC pipe? Is a pump curve available for the proposed pump?
5. More information is needed on the roadway. What type of traffic uses this road and how often?
6. A letter from the Forest Service and/or whoever owns the road and is responsible for the maintenance of the road stating that they will allow the leach field to be installed is required. They should also state in the letter that they are aware of the potential problems that could develop and will be prepared to take whatever corrective action may be necessary.
7. What is the elevation difference between the bottom of the septic tank and the surface of the lake?



8. A minimum distance of six feet is required from edge of trench to edge of trench in the leach field. This distance is not measured from pipe to pipe as shown on drawing.
9. This office requires three sets of the design drawings and engineering reports.
10. Please show the following distances on the plan sheet:

- from the restaurant to the septic tank
- from the well to the septic tank
- from the lake to the septic tank
- from any water lines to the septic tank
- from any water lines to the leach field
- from the septic tank to the pumping chamber
- from the well to the leach field
- from the lake to the leach field
- from the septic tank and leach field to the property boundaries

Please submit the required information and revised drawings, in triplicate, to this office. If you have any questions, please call.

FL/kn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

*Uinta Co.
Change Order*

PROJECT: Grass Valley Mobile Home Park

ENGINEER: Rocky Mountain Engineering & Surveying, Inc.
P.O. Box 805
Evanston, WY 82930 ATTN: Jim Golding

OWNER: Broken Circle Cattle Co., Phillip Myers, President
P.O. Box 725
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 80-564RRRRR CO #1

REVIEWING ENGINEER: Al Berreth *ajl*

DATE OF REVIEW: May 22, 1981

ACTION: Not authorized.

COMMENTS: Before final evaluation of change order #1, the following information or changes are needed:

1. The parts list needs to be modified to accommodate the ten-horsepower pumps.
2. What are the inlet and outlet elevations on the overflow and inflow piping?
3. Please show piping on plan view.

AB:nb

cc: Cheyenne DEQ/WQD
Wayne Shepard

AIC

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

August 18, 1981

Mr. Dale E. Peterson, P.E.
Rocky Mt. Eng. & Surveying, Inc.
PO Box 805
Evanston, WY 82930

RE: Grass Valley Mobile Home Park Lift
Station, 80-564RRRRR Change Order #1

Dear Mr. Peterson:

The plans which you have submitted appear to meet minimum design standards and are accepted.

Should you have further questions, please call.

Respectfully,

Albert J. Berreth

Albert J. Berreth
Southwest District Engineer

AJB/ch

xc: File (4)
Broken Circle Cattle Co.
PO Box 725
Evanston, WY 82930

Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: GRASS VALLEY MOBILE HOME PARK NO. 1

ENGINEER: Great Basin Engineering, Inc.
P.O. Box 9307
Ogden, UT 84409

OWNER: -----

WATER QUALITY DIVISION REFERENCE NUMBER: 80-564RRRRR

REVIEWING ENGINEER: Al Berreth *af*

DATE OF REVIEW: October 27, 1981

ACTION: Not authorized.

COMMENTS: Before acceptance of the plans and specifications, the following items need to be addressed:

1. When the plans were originally reviewed, the degree of change was not fully perceived. The changes made constitute major revisions and, as a result, a modified permit will need to be obtained. Regular construction drawings will need to be submitted, including profiles.
2. During the field visit, particular attention will be focused on manholes 9 and 20. It appears that they may provide a location for excessive solids build-up. Revisions may be requested.
3. Any changes with the alignment of the force main must be shown.
4. During the inspection, special attention will be given to the riser details.
5. Valve locations appear to be adequate; however, the requirement that no more than 20 homes be without water service at one time appears unmet.
6. After the on-site visit and receipt of final plans, a final review will be made.

AB:nb

Copy: Cheyenne DEQ/WQD; Wayne Shepherd; File (4)

A, B, C

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

March 25, 1981

Mr. Dale E. Peterson, P.E.
Rocky Mountain Engineering & Surveying, Inc.
P.O. Box 805
Evanston, WY 82930

Re: Grass Valley Mobile Home Park, DEQ Ref. No. 80-564RRRRR

Dear Mr. Peterson:

Provided that the changes made are no more significant than those you described in the office the day you were here, there should be no problem with submitting as-built drawings at the completion of the project. The as-built drawings will be reviewed for compliance with "Wyoming Water Quality Rules and Regulations" when they are received. Any non-compliance will need to be rectified.

Respectfully,

A handwritten signature in cursive script that reads "Albert J. Berreth".

Albert J. Berreth, P.E.
Southwest District Engineer

AJB:nb
cc: Wayne Shepard

11
1-19-81

PERMIT TO CONSTRUCT

New

Permit No. 80-564RRRRR

Renewal

Modified

Grass Valley Mobile Home Court

(Name of Facility)

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

Broken Circle Cattle Company; Phillip Myers, President

P.O. Box 725

Evanston, WY 82930

to construct, install, or modify a water and sewer system for a
197 unit mobile home park

facility according to the procedures and conditions of the application

to 80-564RRRRR. The facility is located in Sec. 27, T. 15N,
R. 120W

in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

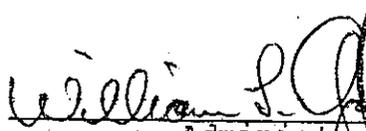
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

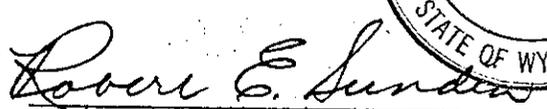
AUTHORIZED BY:


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

Administrator
Water Quality Division

January 12, 1981

Date of Issuance


ROBERT E. SUNDIN
NO. 285
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

Director
Dept. of Environmental Quality

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

AJB/kn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Grass Valley Mobile Home Court

ENGINEER: Dale E. Peterson
P.O. Box 805
Evanston, WY 82930

OWNER: Broken Circle Cattle Company
Phillip Myers, President
P.O. Box 725
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 80-564RRRRR

REVIEWING ENGINEER: Albert J. Berreth, P.E. *AJB*

DATE OF REVIEW: January 12, 1981

ACTION: ~~XXX~~ authorized.

COMMENTS:

That when a schedule of construction is established, the Department of Environmental Quality in Lander will be notified. An inspector from the office may visit the job to check compliance with the permit.

AJB/kn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Grass Valley Mobile Home Court/Evanston

ENGINEER: Dale E. Peterson, P.E.
Rocky Mountain Engineering
P.O. Box 805
Evanston, WY 82930

OWNER: Broken Circle Cattle Company
c/o Phillip Myers, President
P.O. Box 725
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 80-564RRRR

REVIEWING ENGINEER: A. Berreth, P.E. *AJB*

DATE OF REVIEW: December 29, 1980

ACTION: Not authorized.

COMMENTS: The note for sheet 2/6 refers to sewer service only. Both water and sewer service connections must extend 4 inches above ground. The other revisions were satisfactory, however, three (3) copies of each change are needed for processing the permit. As soon as the material is received the permit will be processed.

AJB/yh

cc: Wayne Shepard,
City Engineer of Evanston

A, B, C

Review

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520
PHONE: (307) 332-3144



PROJECT: Grass Valley Mobile Home Court/Evanston

ENGINEER: Rocky Mountain Engineer
Dale Peterson
P.O. Box 805
Evanston, WY 82930

OWNER: Broken Circle Cattle Company
c/o Phillip Myers, President
P.O. Box 725
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 80-564RR R

REVIEWING ENGINEER: Albert J. Berreth, P.E. *AJB*

DATE OF REVIEW: December 9, 1980

ACTION: Not authorized.

COMMENTS: Before a "Permit to Construct" can be issued the following items need further clarification.

1 - Water System

- a. There is some confusion on valve locations on sheet 4 of 6. The valve at station 18+13 is drawn at the wrong location.
- b. On the detail for the connection to the existing system, a thrust block is needed on the reducer.
- c. The note calling out that cover is measured from top of pipe could not be located.
- d. Are two (2) pressure reducing valves required? Many times two (2) are required because of the wide range of flows which can result in cavitation in the large valves at lower flows.

2 - Service Connections - Please note the service connections need to extend a minimum of four (4) inches above the surface.

AJB/yh

A, B, C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Grass Valley Mobile Home Court/Evanston

ENGINEER: Rocky Mountain Engineering
Dale E. Peterson
P.O. Box 805
Evanston, WY 82930

OWNER: Broken Circle Cattle Company
c/o Phillip Myers, President
P.O. Box 725
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 80-564RR

REVIEWING ENGINEER: Albert J. Berreth, P.E. *AJB*

DATE OF REVIEW: November 21, 1980

ACTION: Not authorized.

COMMENTS: Before a "Permit to Construct" can be issued, the following items must be clarified:

1. Submission of a request for a 402 permit is needed for the force main and water line crossing of the ditch.
2. The depth to groundwater needs to be noted.
3. The following items pertain to the sewer system:
 - a. Please note the rim elevations on the profile.
 - b. Where the sewer line size changes from 8 inches to 10 inches, some provision for drop through the manhole must be made.
 - c. The flow scheme for manhole number 2 is not acceptable.
 - d. A detail must be provided for manholes numbered 19, 20, and 21. There needs to be a provision for a small drop from the branch line to the main line.
 - e. A calculation of the adequacy of the pipe strength due to surface loads and overburden is needed.
 - f. Please calculate the maximum velocity in the system.

A, B, C

4. The following items pertain to the lift station and force main:
 - a. Has flow measurement been considered? Are there running time meters on each pump?
 - b. The location of power panel and alarm needs to be shown.
 - c. Are the sewage pumps capable of passing a 3 inch sphere? If so, please note in specifications.
 - d. Has a screen or basket been considered?
 - e. The dry well sump pump requires dual check valves.
 - f. What is the probability of flooding?
 - g. Calculations showing that the lift station and overflow tank will not "float" during high water table conditions are needed.
 - h. A profile of the force main is needed.
 - i. Invert elevations on the manhole where the force main joins the city system are required.

5. The following items pertain to the water system and extension:
 - a. In addition to the thrust blocking table, the location of thrust blocking needs to be shown on the plan.
 - b. The thrust blocking needs to be shown on the detail of the connection with the city system.
 - c. A pressure reducing valve needs to be installed.
 - d. A profile of the water line extension is needed.
 - e. A better detail of the highway crossing is needed.
 - f. Please note on the drawings that cover will be measured from the top of the pipe.
 - g. A yard hydrant will not be adequate for flushing the dead end line.

6. The following items pertain to the service connections:
 - a. Sewer wyes are required rather than tees.
 - b. Details of the risers are needed.
 - c. A detail of the service tap is needed.
 - d. The 10 foot separation does not scale, This needs to be noted.

PERMIT TO CONSTRUCT

Permit No. 80-565RRRRR

- New
 Renewal
 Modified

Ridgewater Estates No. 3
(Name of Facility)

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

Vernon G. Smith

Ridgewater Development

325 South 4th Street

Douglas, WY 82633

to construct, install, or modify a water distribution system well, storage tank, pumps for 41 lot subdivision facility according to the procedures and conditions of the application No. 80-565RRRRR. The facility is located in S 1/4, Section 13, T32N, R72W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

5-19
Lef

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Ridgewater Estates No. 3

ARCHITECT OR ENGINEER: James R. Graves, J & J Engineering
3100 East Sinclair, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-565RRRR

REVIEWING ENGINEER: Thomas S. Norman *T. S. Norman*

DATE OF REVIEW: May 18, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Plans

1. The well at Ridgewater No. 3 shows the distribution line going through the well. Is this correct?
2. The blow-off detail is not permissible.
 - a. A fire hydrant cannot be connected to a line that is not designed for fire flow.
 - b. The labels designated as "concrete thrust block" and "gravel" point to the same area.
 - c. The pressure valve will not work in a concrete thrust block. I am unfamiliar with this type of pressure valve. Please submit specs on it.
3. The height and length of the pumphouse building are not shown.
4. Air release mechanisms are required at all high points in the distribution system.
5. Will supports be needed in the pumphouse to hold the meter, chlorinator, etc. and to prevent against thrust?
6. The piping arrangement out of the pump house on the plan view does not correspond to the cross-section view.
7. Inadequate chlorine contact time is provided with the chlorinator on the effluent line.
8. A compound pressure gauge must be installed on suction side of centrifugal pump.

Specifications

The following items have not been adequately covered in the specifications. All materials used in construction must be specified.

1. Pressure by-pass valve. The "black box" approach does not provide any detail on materials, size, specific location, etc.
2. Chlorination system. Need explanation of how system works and how it fits into the electrical schematic, flow capacity, extra tanks for mixing. Will chlorinator work with variable flow situations?
3. Pressure gauge and compound pressure gauge.
4. "Metal" pipe for pumphouse and blow-off.
5. Check valve, gate valves, corporation stops, curb stops. Are curb stops of the "stop and drain" type?
6. Water meter both at well and in pump house. Size, type, minimum & maximum capacities, measuring, recording.
7. Roof material on pumphouse.

General

Approximately 3157 l.f. of distribution main has been proposed. The invoices which were submitted showed only 2540 l.f. of 4 inch pipe and another 800 l.f. of 3 inch pipe. Numerous other 3 inch material was purchased including 3" x 3" x 3/4" tees generally used for taps. This leads me to believe that 3" material was installed which is in conflict with the submitted as-builts. I must have an explanation of this.

L 3/10

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Ridgewater Estates No. 3

ARCHITECT OR ENGINEER: James R. Graves, 3100 East Sinclair Place
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-565RRR

REVIEWING ENGINEER: T. S. Norman

DATE OF REVIEW: April 21, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Well Development

1. The well data information has not been recieved by DEQ.
2. The pipe from the well is shown entering the side of the storage tank on the plan view while the cross-section shows it entering on the end. Please clarify.
3. The pumphouse detail shows a submersible pump above grade. Is this correct?
4. The pumphouse does not show any doors. Is this correct? Without a door, maintenance and inspection will be neglected.

Storage Tank & Booster Pumps

1. Please explain and justify how your pump system will work without pressure tanks.
2. What is the extra pipe into the well used for?
3. A tap should be installed in the pump house for sampling purposes.
4. Why the use of a submersible pump? How will maintenance be performed on it? It seems like the entire tank must be drained to get to the pump.
5. By having the well pump inlet and the distribution pump outlet close together, good circulation is not provided in the tank.

6. A plan view of the pump house piping still has not been provided.
7. The recent changes in design (submersible pumps, elimination of pressure tanks) have not been reflected in the specifications.
8. The following items have not been covered in the specifications: chlorination equipment, water meters, valves, valve boxes, pressure gauges, level control equipment.
9. An electrical schematic still has not been provided.
10. How are the submersible pumps controlled?

Distribution System

1. the invoices that were submitted showed 800 l.f. of 3" water pipe. Where was this used.
2. The blow-off detail is unacceptable as it permit contamination and will be difficult to shut-off while the water is running. Is the 4" C.M.P. correct?
- 3.A "DETAIL" still has not been submitted showing the connection to Ridgewater #1.
4. Does the water distribution main connect directly to well as shown?

General

1. Information concerning a certified operator has not been submitted.

*Department of Environmental Quality**Water Quality Division*

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7731

April 21, 1981

CertifiedVernon G. Smith
Ridgewater Development
Rt. 1, Box 257
Esterbrook Road
Douglas, WY 82633RE: Ridgewater Estates No. 3 - Water System, DEQ Review No.
80-565RRR

Dear Mr. Smith:

Enclosed is the review of the plans and specifications for the water system on Ridgewater Estates No. 3. I feel the plans and specifications are getting farther away from approval rather than getting closer. The comments that are included are not complete but show the general problems. Your engineer should review the requirements of the "Recommended Standards for Water Works" as they must be met. I recommend that a meeting between your engineer and myself be set up to more efficiently resolve these problems. Since you are in continual violation of the Consent Decree filed in court, I suggest a meeting within the next 7 to 10 days.

Sincerely,

*Thomas S. Norman*Thomas S. Norman
Water Quality EngineerTSN/pjb
Enclosurescc: ✓ Steve Jones, Assistant Attorney General
James Graves, Project Engineer

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Ridgewater Estates No. 3

ARCHITECT OR ENGINEER: James R. Graves, 3100 East Sinclair Place
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-565RRR

REVIEWING ENGINEER: T. S. Norman *T.S. Norman*

DATE OF REVIEW: April 21, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Well Development

1. The well data information has not been recieved by DEQ.
2. The pipe from the well is shown entering the side of the storage tank on the plan view while the cross-section shows it entering on the end. Please clarify.
3. The pumphouse detail shows a submersible pump above grade. Is this correct?
4. The pumphouse does not show any doors. Is this correct? Without a door, maintenance and inspection will be neglected.

Storage Tank & Booster Pumps

1. Please explain and justify how your pump system will work without pressure tanks.
2. What is the extra pipe into the well used for?
3. A tap should be installed in the pump house for sampling purposes.
4. Why the use of a submersible pump? How will maintenance be performed on it? It seems like the entire tank must be drained to get to the pump.
5. By having the well pump inlet and the distribution pump outlet close together, good circulation is not provided in the tank.

- A plan view of the pump house piping still has not been provided.
7. The recent changes in design (submersible pumps, elimination of pressure tanks) have not been reflected in the specifications.
 8. The following items have not been covered in the specifications: chlorination equipment, water meters, valves, valve boxes, pressure gauges, level control equipment.
 9. An electrical schematic still has not been provided.
 10. How are the submersible pumps controlled?

Distribution System

1. The invoices that were submitted showed 800 l.f. of 3" water pipe. Where was this used?
2. The blow-off detail is unacceptable as it permits contamination and will be difficult to shut-off while the water is running. Is the 4" C.M.P. correct?
3. A "DETAIL" still has not been submitted showing the connection to Ridgewater #1.
4. Does the water distribution main connect directly to well as shown?

General

1. Information concerning a certified operator has not been submitted.

M
2/20/81

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Ridgewater Estates No. 3, Converse Co.

ARCHITECT OR ENGINEER: James R. Graves
3100 E. Sinclair Pl., Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-565RR

REVIEWING ENGINEER: T.S. Norman, E.I.T. *T.S. Norman*

DATE OF REVIEW: February 19, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

New Comments

1. Shut-off valves are shown at Stations 12+46 and 15+40, but it is not clear on which lines they will actually be installed.
2. The storage tank detail shows a submersible pump. Is this correct?
3. The drain in the well pumphouse is not screened nor does it show a splash plate.

Old Comments

Enclosed are my review comments of November 28, 1980. Since not all my comments were addressed, the following review will designate those areas which require your response:

Well Development

Item 1. The data provided was for the Ridgewater No. 1 Well (Hope Well). The only data on the Ridgewater No. 3 well was a water analysis. No well data was provided.

Item 2 & 3. Satisfactory.

Storage Tank and Booster Pumps

Item 1. Not addressed.

Item 2. Not addressed.

Item 3. No controls were shown for the booster pumps.

Item 4. Not shown for pumphouse.

Item 5-10. Satisfactory.
Item 11 & 12. Drain is not shown on plan view.
Item 13 & 14. Satisfactory.
Item 15. The drain is not shown on the plans.
Item 16-19. Satisfactory.
Item 20 & 21. Not addressed.
Item 22 & 23. Satisfactory.

Ridgewater #1

Item 1. Not addressed.
Item 2. Satisfactory.

Pipe Section

Item 1. Blow-off is shown but no detail is provided.
Item 2-4. Satisfactory.

General

Item 1. Not addressed.
Item 2. Satisfactory.

cc: Vernon G. Smith

Attachment: November 28, 1980 Review Comments

*Department of Environmental Quality**Water Quality Division*

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

February 20, 1981

CERTIFIEDVernon G. Smith
Ridgewater Development
Rt. 1, Box 257
Esterbrook Road
Douglas, WY 82633

RE: Ridgewater Estates No. 3 - Water System

Dear Mr. Smith:

) Enclosed is the review of the plans and specifications for the water system on Ridgewater Estates No. 3. As you can see, there are a considerable amount of comments that need to be addressed prior to approval.

You are reminded that under the Consent Decree filed in court on October 28, 1980, an agreement was made (Section 10.6) to have a completed application to DEQ within 90 days. The 90 day limit ended the last part of January, 1981 and thus you are in violation of the Consent Decree as a completed application has not been approved. In an effort to cooperate, we suggest that a response to this review be prepared as soon as possible so that further legal action is not necessary.

If you have any questions, please feel free to contact this office.

Sincerely yours,

A handwritten signature in cursive script that reads "Thomas S. Norman".

Thomas S. Norman
Water Quality EngineerTSM/com/nc
Enclosurescc: Steve Jones, Attorney General's Office
James Graves, J & J Engineering & Surveying

M
12-3-80

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Ridgewater Estates No. 3

ARCHITECT OR ENGINEER: James R. Graves, 3100 East Sinclair Pl.,
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-565

REVIEWING ENGINEER: T.S. Norman, E.I.T. *T.S. Norman*

DATE OF REVIEW: November 28, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: PLEASE RESPOND TO THE FOLLOWING ITEMS:

Well Development

1. No data was provided on the well such as well pumping tests, pump characteristics and capacity, static water level, draw down, water analysis, etc.
2. A construction detail of the well is necessary including sizing.
3. Are the minimum separations between the well and septic system maintained?

Storage Tank and Booster Pumps

1. A pipe and valve schematic or a plan view of the pump house showing the pressure tanks, pumps, valves, gauges, meter, etc. is required from the well to the distribution system.
2. An electrical schematic of the pump and level controls must be submitted.
3. No level controls were shown in the tank for the well pump or booster pumps.
4. Pipe and valve sizes shall be shown on the plans.
5. What are the elevations of the tank compared to the profile map?
6. Where does the overflow pipe drain to? Are the contours around the storage tank natural or manmade? What is the size of the overflow drain? A splash plate shall be provided at the outlet. The 20 mesh screen does not agree with the 24 mesh screen in the report. The pipe should open downward.
7. Will the pressure tanks fit through the door for maintenance or replacement purposes?

8. What is the separation between the air vent outlet and the top of the storage tank?
9. What are the expected pressure ranges within the distribution system?
10. Have the pressure settings between Ridgewater #1 and #3 been matched? Is it possible that one system could be supplying all the water because of inadequate pressure settings?
11. The storage tank shall have a floor drain.
12. The storage tank floor shall be sloped and have an adequate drain.
13. The procedure for disinfecting the water tank does not appear to be correct. What is the strength of the chlorine solution and how long will it be allowed to remain in contact with the walls?
14. Are the joints in the storage tank sealed?
15. The pump house must have sloped floors with a suitable drain.
16. All pipes entering the storage tank must have an adequate seal to prevent contamination.
17. What type of heating is used in the pump house?
18. Is adequate lighting provided?
19. How will your pumps maintain adequate prime?
20. Are the requirements of Section 6.6.3 (Ten State Standards - TSS) met concerning gauges and meters?
21. Do the pumps alternate (TSS 6.6.5)?
22. Is the pump house protected against trespassers or vandalism?
23. The water system requires stand-by chlorination equipment in case the water supply degrades or for use under emergency conditions. The applicable sections of Part 4 and Part 5 of TSS shall be met.

Ridgewater #1

1. A detail of the connection to the Ridgewater #1 system is required.
2. A shut-off valve should be placed on the water main going to Ridgewater #1, preferable close to #1 hook-up station 8+70.

Pipe System

1. A blow-off is required at Station 4+01.7E.
2. The 60 psi test pressure appears to be inadequate as the system must be tested at 1.5 times the highest working pressure.

3. The disinfection procedure for the distribution system was incorrect. After the 24 hour detention period, the chlorine residual should have been checked. If a residual of 25 ppm was not obtained, the disinfection procedure should have been repeated (AWWA 601).
4. Is there a maintenance easement across lot 15 and lot 24.

General

1. The system shall have a certified operator. Please submit the name and certification status.
2. Some items are marked 'proposed' on the plans. Is this correct or is everything constructed as stated in the engineering report?

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 6, 1980

James R. Graves
3100 East Sinclair Place
Casper, WY 82601

Subject: Ridgewater Estates #3
Water Distribution System
and Storage Tank
DEQ Review No. 80-565

Dear Mr. Graves:

The enclosed "Application for Permit to Construct" must be completed and submitted for the review on Ridgewater Estates #3. Also, three copies of the plans and specifications are required rather than the two copies you submitted. These items are needed to make the application complete before review may begin.

Sincerely,

Thomas S. Norman

T.S. Norman
Water Quality Engineer

TSN/com/pjb



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

May 6, 1982

Mr. Gary Jenkins
Hoback Ranches
PO Box 1045
Evanston, WY 82930

RE: Cottonwood Subdivision Water System
DEQ Permit #80-566RRRR

Dear Mr. Jenkins:

As a result of my May 5, 1982 on-site inspection, it appears that all of the concerns expressed by this department in regard to the above referenced water system have been resolved.

Please consider this letter acceptance of the water system by this department. This office now considers the matter closed.

Yours truly,

A handwritten signature in cursive script that reads "Francis LaBarge".

Francis LaBarge
Water Quality Evaluator
Southwest District

FL:ch

cc: Cheyenne DEQ/WQD
Steve Jones-Ass't Attorney Gen.
Gary Hess-Cottonwood Property Owners Assoc.
Marc Alcorn-Farmers Home Ad.
File (2)

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 80-566RRRR

Cottonwood Subdivision
(Name of Facility)

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

Hoback Ranches, Inc.

Box 248

Afton, Wyoming 83110

to construct, install, or modify a well and water distribution
system

facility according to the procedures and conditions of the application

No. 80-566RRRR. The facility is located in

Sec. 31, T. 31N, R. 118W

in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two years (five (5) years maximum) from the date of issuance of this permit.

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

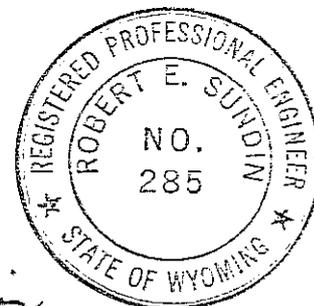
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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.

ing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



William L. Garland
REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
February 4,
Date of Issuance

Robert E. Sundin
Director
Dept. of Environmental Quality

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

FL/nb



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 23, 1980

CERTIFIED MAIL

Mr. Doyle Child
Hoback Ranches, Inc.
Box 248
Afton, WY 83110

Re: Cottonwood Subdivision
80-566 RRR

Dear Mr. Child:

I am in receipt of Uinta Engineering's reply to my December 5, 1980 review letter. The following points remain to be clarified:

1. A profile of the new four (4) inch water line was not supplied. It is stated on the plans that the line will be installed in accordance with the Wyoming Public Works Standards. Please be advised the line should be buried a minimum of five (5) feet deep, measured from the top of the pipe to the ground surface.
2. I have not, as of yet, received a copy of the chemical analysis of the water.
3. The plans submitted to this office do not carry the seal or signature of the engineer. Please have your engineer submit three (3) copies of the finalized plans to this office which carry his seal or signature and registration number on each sheet. Also, have him add a note on the plans stating the water line is to be buried a minimum of five (5) feet as stated above.

Once these matters have been taken care of, it appears the plans will meet minimum design standards. A "Permit to Construct" will be issued for installation of the water line and pressure tank and other modifications. It is the decision of this department that the Cottonwood Subdivision water system be in complete compliance by June 1, 1981. During the first week of June 1981, personnel from this office will make an on-site inspection to determine if the system is in compliance. If it is, a letter stating such will be issued. If it is not, the matter will be turned over to the Attorney General's office.

If you have any questions, please call me at this office. Please respond to this letter as soon as possible.

Respectfully,

Francis LaBarge
Francis LaBarge
Water Quality Engineer
Southwest District

cc: Cheyenne DEQ/WQD
Jake Strohmman
Ann DeHoff
Robert L. Coffman

Ken Walker

A.C.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Cottonwood Subdivision

ENGINEER: Kenneth Walker
Uinta Engineering and Surveying, Inc.
P.O. Box 746
Evanston, WY 82930

OWNER: Hoback Ranches, Inc.
Box 248
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 80-566RR

REVIEWING ENGINEER: Francis LaBarge *J*

DATE OF REVIEW: December 5, 1980

ACTION: Not authorized. "As Built"

COMMENTS: This office has reviewed your response to our November 12, 1980 review and the following points have to be clarified.

1. Forward the chemical analysis of the water as soon as you get the test results.
2. Details are needed of:
 - how the gas chlorinator is vented,
 - where the water supply for the ejector is coming from including all connections,
 - the diffuser and its connection.
3. A chlorine contact time of at least 30 minutes is required before reaching consumers. Will this be provided? Supply details.
4. Can this chlorinator provide a free chlorine residual of at least 2 mg/l after a contact time of at least 30 minutes when maximum flow rates coincide with anticipated maximum chlorine demands?
5. How and where will chlorine residuals be tested? Information is needed on what type of chlorine residual test equipment is to be used.
6. Is the pump house heated? The chlorination system must be kept within the temperature ranges specified in the manufacturers literature.

A, B, C

7. What type of chlorine leak detection alarm system is being used at the pump house?
8. Is a gas mask available? Where will it be kept?
9. The pump house should be vented as per Ten State Standards.
10. Chlorine lines should be painted yellow so they can be easily identified.
11. Details of how the connection of the access to the water storage tank is being made are requested.
12. What size is the overflow on the storage tank? A splash plate or drainage inlet structure is needed. Provide details.
13. The pressure tank is unacceptable. Pressure tanks shall meet ASME code requirements and Ten State Standard requirements. A new tank meeting all of these specifications must be installed. Details of the new tank are requested including any piping changes which may be made.
14. Details, including a cross section, of the meter pit are needed.
15. Where will the generator be located and how will it tie-in to the system. Does it come on automatically if a power outage results or is it manually activated?
16. Specifications are needed on the valves and tees in the water distribution system.
17. Installation details are needed on bedding, blocking pressure and leakage testing, disinfection and installation procedures of the new 4 inch water line. This includes thrust blocking.
18. Specifications are needed on the corporation stops, curb stops, saddles and bands.

This review must be answered as soon as possible. If there are any questions, contact me so all of these questions will be resolved properly in your reply. The required information should be submitted in triplicate.

FL/kn

cc: Jake Strohman
Robert L. Coffman

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: Cottonwood Subdivision

ENGINEER: Kenneth Walker
Uinta Engineering and Surveying, Inc.
P.O. Box 746
Evanston, WY 82930

OWNER: Hoback Ranches, Inc.
Box 248
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 80-566R

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: November 12, 1980

ACTION: ~~NOTIFIED~~ "As Built" Not complete.

COMMENTS: The following points have to be clarified to complete the review of the water system.

Well

1. A complete chemical analysis for drinking water is required.
2. This system must be put on a routine monthly sampling schedule for bacteriological analysis.
3. A standby chlorination system is recommended.
4. Please provide details of the standby pump and the inservice pump including pump curves.
5. Does this well have a screen? If so, supply details.
6. Was this well gravel packed? If so, supply details.
7. Is a soil profile of the well hole available?
8. How far down does the grout extend? A complete cross section of the entire depth of the well is requested.
9. The discharge pipe should be equipped with a shut off valve and a sampling tap.
10. Is the well vented? Provide details.
11. Location of the check valve in the well is questionable. Why is it not located closer to the pump?

A.C

12. What material is the drop pipe made of? What size is it?

Storage Tank

13. Calculations are required to justify the size of the storage tank.
14. Access into the storage tank should be elevated 24 to 36 inches above the top or covering sod.
15. The access should be fitted with a solid watertight cover which overlaps the framed opening and extends down around the frame at least 2 inches.
16. The access cover should be hinged at one side and have a locking device.
17. Is the vent screened? Please provide details.
18. Is the overflow screened? Please provide details.
19. Any pipes running through the roof or sidewalls of a finished water storage structure must be welded, or properly gasketed in metal tanks. Please provide details.
20. The opening, in the storage tank, to accommodate the control apparatus, should be curved and sleeved with proper additional shielding to prevent the access of surface water into the structure.
21. The area surrounding the tank should be graded in a manner that will prevent surface water from standing within 50 feet of it.
22. Please specify exactly what type of inner and outer coatings were used on this tank and how and where they were applied.
23. Was this tank disinfected? What method was used?
24. Does the pressure tank meet ASME code requirements?
25. What size is this tank?
26. What type of protection does this tank have?
27. The tank should have bypass piping to permit the operation of the system while it is being repaired or painted.
28. The tank should have an access manhole. Does it?

Water Distribution System

29. Calculations are required for this system. These should include maximum and minimum pressures and flows in the system.
30. Is the distribution piping ASTM 2241 or AWWA C-900?

31. A single source is adequate providing it has a capacity of 6 to 10 times the average daily demand and a standby pump is available.
32. What is the average daily demand of this system?
33. The system should have a metering device. Please provide details.
34. Does this system have standby power?
35. A profile of the system is required.
36. This system should be looped. Any dead-end line should have an approved flushing device.
37. Please provide details of the drain valves.
38. Thrust blocking is required. The plans should show this.
39. Was this system pressure tested and leakage tested?
40. Was this system disinfected? What method was used?

Water Service Connections

41. A more detailed drawing of the water service connection is requested.
42. Service clamps or saddles should be used on PVC pipe.
43. Have corporation stops been installed?
44. What material is the service pipe made of?

Please submit the required information and revised drawings, in triplicate, to this office. If you have any questions, please call me.

FL/kn

cc: Robert L. Coffman
Jake Strohman

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 3, 1980

Doyle Child
Hoback Ranches, Inc.
P.O. Box 248
Afton, WY 83110



Re: Cottonwood Subdivision Water System

Dear Mr. Child:

Please fill out the enclosed "Application for Permit to Construct" but do not sign it. Return it to this office. A review of your submitted plans will be completed with in a week.

Respectfully,

Francis LaBarge
Water Quality Engineer
Southwest District

FL/yh

Enclosure

cc: Cheyenne DEQ/WQD

PERMIT TO CONSTRUCT



New

Permit No. 80-567



Renewal



Modified

RUTH MINE EVAPORATION PONDS

(Name of Facility)

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

URANERZ USA, Inc.

120 West First Street

Casper, Wyoming 82601

to construct, install, or modify wastewater evaporation ponds

facility according to the procedures and conditions of the application

No. 80-567. The facility is located in Sections 13 and 14,

T.42N., R.77W.

in the County of Johnson, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

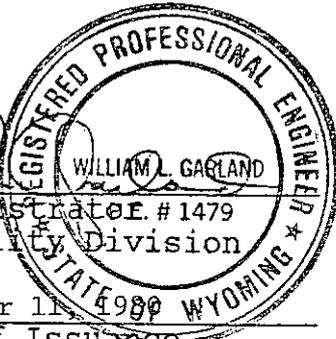
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

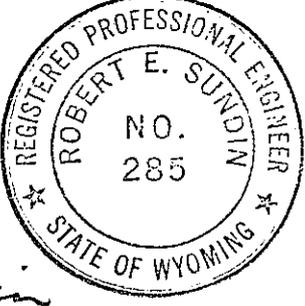
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Gaerland
WILLIAM L. GAERLAND
Administrator # 1479
Water Quality Division
STATE OF WYOMING
December 11, 1989
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

NOTE: See conditions attached to this permit.

cc: Gray Wangelin
Engineering Inspection Testing Service
P.O. Box 4075
Casper, Wyoming 82604

Conditions to Accompany

Permit to Construct No. 80-567

for URANERZ USA, Inc.

The leak detection system for the reservoirs authorized by this Permit is to be monitored, when there is liquid in the reservoirs, at a minimum two-week interval. The detection of any liquid within the leak detection system shall be reported to the Water Quality Division within forty-eight (48) hours, and the results of all analyses of such liquids, required by Land Quality Division regulations, licenses or permits, shall be reported to the Division in writing as soon as they are available.

PERMIT TO CONSTRUCT



New

Permit No. 80-568R



Renewal



Modified

MONTGOMERY WARDS CONVENIENCE AREA B

(Name of Facility)

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

Sugarland Development Company

1842 Sugarland Drive, Suite 101

Sheridan, Wyoming 82801

to construct, install, or modify a water distribution and sewage collection

facility according to the procedures and conditions of the application

No. 80-568R. The facility is located in Section 35,

T.56N., R.84W.

in the County of Sheridan, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

AUTHORIZED BY:


William L. Garland
Administrator # 1475
Water Quality Division
December 16, 1980
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Roger Reich
Pilch Engineering & Surveying
45 E. Loucks
Sheridan, Wyoming 82801

PERMIT TO CONSTRUCT

New

Permit No. 80-569

Renewal

Modified

UPTON WATER LINE REPLACEMENT

(Name of Facility)

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

Town of Upton

P.O. Box 203

Upton, Wyoming 82730

to construct, install, or modify a water distribution line

facility according to the procedures and conditions of the application

No. 80-569. The facility is located in Section 35,

T.48N., R.65W.

in the County of Weston, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

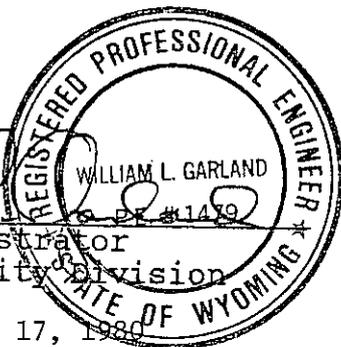
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

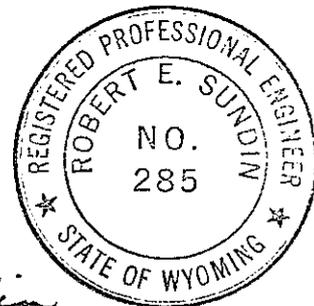
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



William L. Garland
Administrator
Water Quality Division

December 17, 1980
Date of Issuance



Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Plains Engineering
P.O. Box 727
Newcastle, WY 82701

12-14-80

PERMIT TO CONSTRUCT

New

Permit No. 80-570R

Renewal

Modified

ABM Specialty (Small Wastewater Facility)
(Name of Facility)

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

Billingsley, Bill

Box 542

Rock Springs, WY 82901

to construct, install, or modify a 1 septic tank, 1 leach field

facility according to the procedures and conditions of the application

No. 80-570R. The facility is located in Sec. 12, T. 18N,

R. 106W U.S. 30, SE 1/4

in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two years (five (5) years maximum) from the date of issuance of this permit.

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

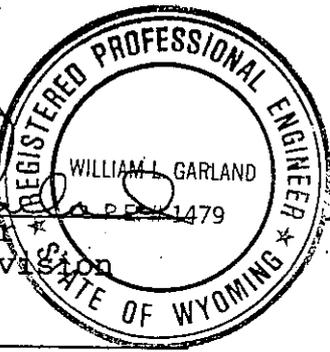
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

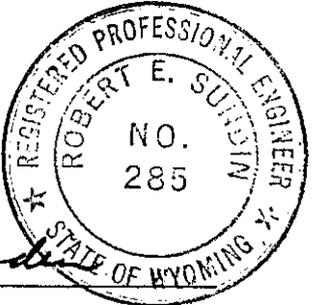
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
December 2, 1980
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

AJB/yh

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: ABM Specialty - Waste Treatment Facility

ENGINEER: Harry J. Kessner
P.O. Box 1324
Rock Springs, WY 82901

OWNER: Bill Billingsley
Star Route 2 West
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 80-570

REVIEWING ENGINEER: Albert J. Berreth, P.E. *JB for AJB*

DATE OF REVIEW: November 12, 1980

ACTION: NOT AUTHORIZED.

COMMENTS: The following items must be clarified before a "Permit to Construct" can be issued:

1. The estimated flow of 5 gpd seems to be very low. Can you justify such a low estimate?
2. The application and drawings need to be stamped by a registered professional engineer.
3. The distances from septic tank to a) trailer, b) office, and c) leach field need to be shown on the Plan Sheet.
4. The location of the community water line needs to be shown. Also the location of the water service connections with appropriate distances shown.
5. The location of and detail of the sewer service junction or manner of installation of two entrances to the septic tank needs to be shown. Cleanouts are recommended for any junction such as this.
6. It should be noted that where PVC pipe is used, sand bedding is required to a depth of 4 inches beneath the pipe and to a depth of 6 inches over the pipe.
7. Please note location of percolation test holes on Plan Sheet.

AJB/kn

AJB

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-571RRRR

FMC CORPORATION SLUDGE PITS

(Name of Facility)

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

FMC Corporation
Box 872
Green River, WY 82935

to construct, ~~XXXXXX~~, ~~XXX~~ ~~XXXXXX~~ & two sludge pits

facility according to the procedures and conditions of the application

No. 80-571RRRR. The facility is located in _____

Sec. 23, T. 19N, R. 110W

in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two years (five (5) years maximum) from the date of issuance of this permit.

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

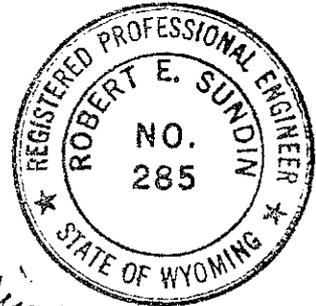
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

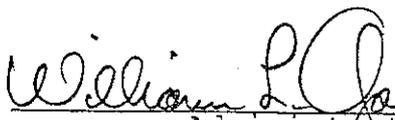
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

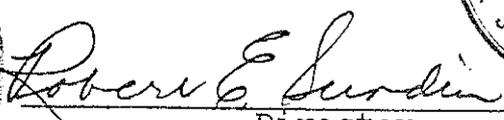
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:




WILLIAM L. GARLAND
1479
Administrator
Water Quality Division
STATE OF WYOMING


Director
Dept. of Environmental Quality

April 22, 1981
Date of Issuance

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

FL:nb

cc: Rick Engelmann, DEQ/LQD - Lander

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: FMC Corporation Sludge Pits

ENGINEER: Keith A. Bithell
Bithell Engineering, Inc.
P.O. Box 2226
Pocatello, ID 83201

OWNER: FMC Corporation Attn: Walt Kobler
Box 872
Green River, WY 82935

WATER QUALITY DIVISION REFERENCE NUMBER: 80-571RRR

REVIEWING ~~ENGINEER~~ EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: March 31, 1981

ACTION: Not authorized.

COMMENTS:

The following points need to be resolved before a "Permit to Construct" can be issued:

- 1) All drawings need to have the stamp or signature of the designing engineer on them. A piece of paper glued to the drawings is unacceptable. The drawings are being returned for the proper signature or stamp.
- 2) A complete set of specifications is needed for this project. They should include complete specs on all materials used in the project & complete construction and installation procedures, such as dike compaction requirements, pipe installation, pipe cover, pressure testing, etc. All pertinent information which has been furnished in response to the previous reviews should be included.

If you have any questions, contact me at this office.

FL:nb

Enclosure

cc: Rick Engelmann - Land Quality Division, Lander

A, B, C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: FMC Corporation Sludge Pits

ENGINEER:

OWNER: FMC Corporation
Box 872
Green River, WY 82935
Attn: Walt Kobler

WATER QUALITY DIVISION REFERENCE NUMBER: 80-571RR

REVIEWING ~~ENGINEER~~ EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: February 24, 1981

ACTION: Not authorized.

COMMENTS: As we discussed over the phone, the following points remain to be clarified before a permit to construct can be issued:

1. Will a protective coating be required on the splash plates? If not, why?
2. A layer of sand, or equivalent material, should be placed beneath the liners for protection against puncturing. This should be shown on Drawing 4-8533.
3. The PVC liner will require protection against the sun's rays and wind action after it is installed. Please note on Drawing 4-8533 how this will be accomplished.
4. Potable water lines should be located to one side of the trench at least 18 inches above the top of the return line. Ideally, the water line should be located on an undisturbed earth shell. The return line should be located at the opposite side of the trench.

Please provide a brief narrative explaining why it is not practical to locate the potable water line in a separate trench. Section A on Drawing 4-8521 should be changed to show the revised location of the piping. All distances should be shown, also.

A, B, C

FMC Corporation Sludge Pits
Review of Plans and Specifications
Date of Review - February 24, 1981
Page Two

5. Is Mr. Keith Bithell of Bithell Engineering, Inc. still the engineer on this project? If not, who is?

6. All drawings should carry the stamp or signature of a professional engineer who is registered in the State of Wyoming. I am returning the drawings to you so they can be stamped.

7. Normally any industrial pond is required to have a leak detection system. In this case you have presented several very good reasons why one shouldn't be required. We are going to attach a stipulation to the permit to construct which will state:

"Any liner break will be immediately reported to the Department of Environmental Quality - Water Quality Division. The Water Quality Division is to be informed of when the break occurred, size of the break, how the break will be repaired, and a time schedule within which it will be repaired."

Do you concur?

If you have any questions, please contact me at this office.

FL:nb

cc: Tony Mancini - Environmental Engineer, Cheyenne DEQ/WQD
Rick Engelman - Land Quality Division, Lander

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: FMC Corporation Sludge Pits

ENGINEER: Keith Bithell
Bithell Engineering, Inc.
Box 226
Pocatello, Idaho 83201

OWNER: FMC Corporation
Box 872
Green River, WY 82935

Att: Walt Kobler
WATER QUALITY DIVISION REFERENCE NUMBER: 80-571R

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: December 2, 1980

ACTION: Not authorized.

COMMENTS:

The following points have to be clarified to complete the review of the proposed sludge pits before a "Permit to Construct" can be issued.

1. I am in receipt of your letter dated November 24, 1980. The question of pH has been answered to the satisfaction of this office.
2. Please supply complete design calculations used to size the pits.
3. What is the location of the proposed ponds in respect to any wells or buildings?
4. Please provide a description including maps showing elevations and contours of the site and adjacent area.
5. Have any soil borings been made? Please provide subsurface soil characteristics. At least one boring should be a minimum of 25 feet in depth or into bedrock, whichever is shallower.
6. Adequate provision must be made to divert stormwater runoff around the ponds and to protect pond banks from erosion. Please supply details of how this will be accomplished.

A, B, C

7. Will there be a noticeable odor associated with these ponds? The pond site should be located a minimum of $\frac{1}{4}$ mile from habitation or any area which may be built up within a reasonable future period. Will the prevailing winds be in the direction of uninhabited areas?
8. As I understand it these ponds will be constructed below the ground surface. Is this correct? Please provide complete details of how the pond walls and bottoms will be prepared.
9. What is the slope of the pond walls?
10. A minimum of three feet of freeboard is required.
11. What is the operating depth of the ponds?
12. A justification and detailed discussion of the method of erosion control which encompasses all relative factors such as pond location, size, seal material, etc. is requested.
13. Please provide information on how the area will be reseeded including depth of topsoil and type of seed.
14. Information is requested on the permeability, durability and integrity of the proposed liners for this application. Results of a testing program which substantiates the adequacy of the proposed seal must accompany the engineer report. Standard ASTM procedures or acceptable similar methods should be used for all tests.
15. A leak detection system will be required under both ponds. Complete details are requested.
16. The pond bottom should be as level as possible. Please provide the proposed finished elevations of the ponds.
17. Details are needed of the joint between the PVC liner and the hypolon nylon reinforced liner.
18. Details are needed of how the hypolon liner will be anchored.
19. Details are needed of all the piping involved in these ponds. This should include the complete piping layout as well as the pipe material and specifications. Will this pipe react with the liquor. Please provide details.
20. A manhole or vented cleanout wye should be installed prior to the entrance of the influent line and located as close to the bank as possible.
21. Please provide details of the location of the influent line showing elevation and how the liner seals around the pipe

22. Details of the point of discharge are requested.
23. Details of how all penetrations through the liner will be sealed are requested.
24. Details of how the liner will be protected are requested.
25. How will the liner be placed and by whom?
26. Details of the pump pit are requested.
27. Details of the piping between the two ponds are requested. Recommended devices to regulate pond depth are valves, slide tubes or dual slide gates. Regulators should be designed so that they can be preset to stop flows at any pond elevation. Please provide details.
28. All ponds should have a pond drain to allow complete emptying. Please provide details.
29. Details of emergency overflows are requested.
30. If it is discovered that a leak has developed what course of action would be taken? How would: the location of the leak be detected, the pond be emptied, what would be done with the pond contents and how would the leak be repaired?
31. If the ponds ever have to be cleaned what will be done with the sludge? Where will it be disposed of and how?
32. The pond area should be completely fenced in. All access gates should have locks. What type of fence will be used?
33. Warning signs should be placed on each side of the site and one for every 500 feet of its perimeter.
34. Pond level gages should be provided. Please supply details.

This does not necessarily constitute the final review. Please submit the required information and revised drawings, in triplicate, to this office. The drawings should be the same ones that will be used by the contractor when the facility is built, on full size drawing paper. If you have any questions, please call me.

FL/yh

cc: Tony Macini
Rick Engleman

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 13, 1980

Mr. Walt Kobler
FMC Corporation
Box 872
Green River, WY 82935

Re: Sludge Pit Application
DEQ #80-571

Dear Mr. Kobler:

Please find enclosed the information you requested. We will be in contact with you after we have reviewed your initial submittal.

If you have any questions, please call me.

Respectfully,

A handwritten signature in cursive script that reads "Francis LaBarge".

Francis LaBarge
Water Quality Engineer
Southwest District

FL/kn

Enclosures

cc: Cheyenne - DEQ/WQD

165

PERMIT TO CONSTRUCT



New

Permit No. 80-572



Renewal



Modified

Commercial Warehouse
(Name of Facility)

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

Larson Construction Company

P.O. Box 1527

Mills, Wyoming 82644

to construct, install, or modify a subsurface wastewater disposal facility according to the procedures and conditions of the application No. 80-572. The facility is located in Section 34, T34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

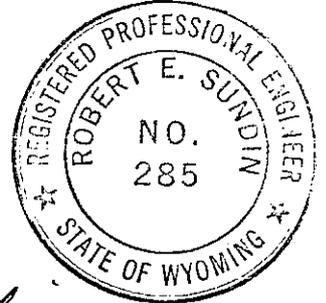
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

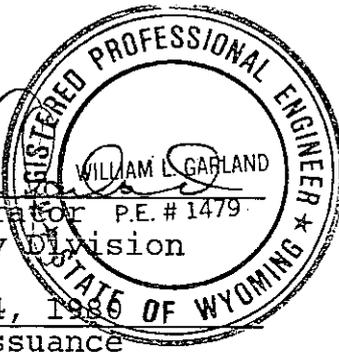
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:




William L. Garland
Administrator P.E. #1479
Water Quality Division
November 14, 1986
Date of Issuance

Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Detmer R. Knapp
P.O. Box 2308
Mills, WY 82644

PERMIT TO CONSTRUCT



New

Permit No. 80-573



Renewal



Modified

Lot 4, Westgate Park II
(Name of Facility)

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

Larson Construction Company

P. O. Box 1527

Mills, WY 82644

to construct, install, or modify a industrial subsurface disposal waste treatment facility according to the procedures and conditions of the application No. 80-573. The facility is located in Lot 4, Westgate Park II, Sec. 27, T34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

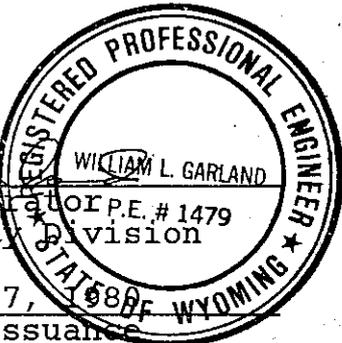
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
November 17, 1986
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Detmer R. Knapp
P. O. Box 2308
Mills, WY 82644

2-7-84



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

February 6, 1984

Bob Moore
Wardwell Water & Sewer
P.O. Box 728
Mills, WY - 82644

Dear Mr. Moore:

On January 14, 1982, a status letter was sent to you concerning a permit to construct, reference number 80-574, facility name Wardwell Water & Sewer District, Standard Specifications. The application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

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

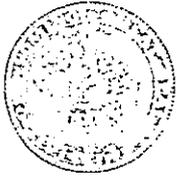
Sincerely,

LeRoy C. Feusner, P.E.
Southeast District Supervisor
Water Quality Division

LCF/nc

cc: Western Engineers
501 N. Sun Drive
Casper, WY 82601

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 14, 1982

CERTIFIED

Bob Moore, Manager
Wardwell Water & Sewer District
P.O. Box 728
Hills, WY 82644

Dear Mr. Moore:

Our records indicate your application for a permit to construct, Reference Number 80-574, Facility Name Wardwell Water & Sewer Standards, has not been resubmitted to this office. Please indicate below the status of your application.

- The application will not be resubmitted. The application is to be removed from DEQ files.
- The application will be resubmitted within 30 days.
- The facility has been constructed, or is under construction.
- Other remarks _____

If this letter is not returned within 30 days, your application will be removed from our files.

Sincerely,

A handwritten signature in cursive script that reads "Thomas S. Norman".

Thomas S. Norman
Water Quality Division

THE STATE



OF WYOMING



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

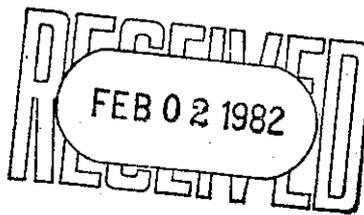
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 14, 1982

CERTIFIED

Bob Moore, Manager
Wardwell Water & Sewer District
P.O. Box 728
Mills, WY 82644



Dear Mr. Moore:

Our records indicate your application for a permit to construct, Reference Number 80-574, Facility Name Wardwell Water & Sewer Standards, has not been resubmitted to this office. Please indicate below the status of your application.

- The application will not be resubmitted. The application is to be removed from DEQ files.
- The application will be resubmitted within 30 days.
- The facility has been constructed, or is under construction.
- Other remarks Under new application 1982 Standard Specs will be submitted

If this letter is not returned within 30 days, your application will be removed from our files.

Sincerely,

Thomas S. Norman
Water Quality Division

Western Engineers-Architects, Inc.
501 N. Sun Drive
Casper, WY 82601

cc: Bob Moore, Wardwell Water & Sewer District

L.E.B.

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Wardwell Water and Sewer District
Water Service Installation Standards

ARCHITECT OR ENGINEER: Bob Moore, Manager
P. O. Box 728, Mills, WY 82644

WATER QUALITY DIVISION REFERENCE NUMBER: 80-574

REVIEWING ENGINEER: T. S. Norman, E.I.T.

T.S. Norman

DATE OF REVIEW: November 17, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

General Conditions:

1. Article 10 - Changes in the Work. Any change orders or changes in the specifications must be submitted to DEQ for review and approval prior to issuance to the contractor.
2. Article 13.13 - Defective Work. All defective work which is submitted to the Owner or Engineer for approval must also be submitted to DEQ for review and approval. In general, DEQ will not accept defective work.

Specifications:

1. The maximum stone size for type 1 bedding is too large. Stones no larger than one inch diameter are recommended.
2. Section 201.08 A. - Utilities. Not only must the contractor meet the Wyoming State Statutes but so must the architect, engineer, or other persons described in W.S. 37-12-302 b which requires the nature and location of all utilities to be made part of the plan.
3. Section 301.07 G - Disinfection. The disposal location of the heavily chlorinated water must be carefully selected such that it will not cause adverse environmental impacts on any surface water. DEQ shall be contacted when potential problems exist.

Standard Details:

1. Since the meter pit details do not have a positive form of drainage and are not protected from flooding as required by Ten State

Standards, Section 8.43, they should not be installed where groundwater or surface water may enter the pit. It is suggested that drain rock be placed in the bottom.

2. The Standard Detail for the "3", 4", or 6" Meter Box and Installation" has the gate valve located on the wrong side of the meter which does not allow removal of the meter for maintenance.

General:

Attached is a policy statement on the requirements for submittal to DEQ for Construction Permits on sewer and water supply services. Special attention is directed towards items II b, c, and d. Final approval of your submitted specifications for "Water Service Installations" will not alleviate the owner from acquiring specific construction permits for water services that (1) contain fire hydrants, (2) are sized larger than two inches in diameter, or (3) have any appurtenance that will impact on the quality or quantity of the supply.

80-575

Letter dated 11-19-80
covering both

80-519 & 80-575

filed under

80-519

A, B, C

PERMIT TO CONSTRUCT

New

Permit No. 80-576RRRRR

Renewal

Modified

Mountain Meadow Subdivision

(Name of Facility)

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

Keith Martin

P.O. Box 172

Lyman, Wyoming 82937

to construct, install, or modify a 2-cell lagoon and sewer and
water system for 131 mobile home lots

facility according to the procedures and conditions of the application

No. 80-576RRRRR. The facility is located in _____

Sec. 1, T. 15N, R. 115W

in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two years (five (5) years maximum) from the date of issuance of this permit.

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

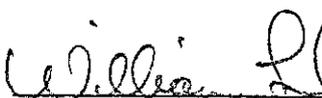
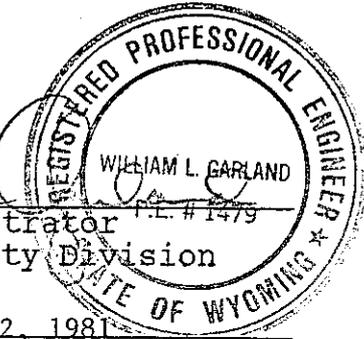
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

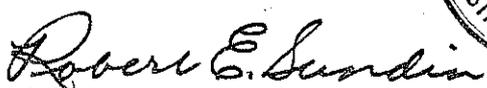
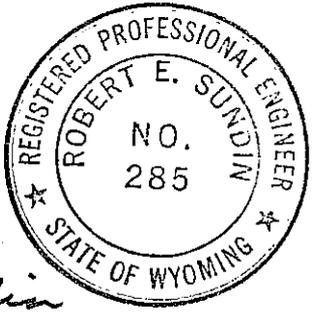
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


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



ROBERT E. SUNDIN
NO. 285
Director
Dept. of Environmental Quality


February 2, 1981
Date of Issuance

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

AJB/nb

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Mountain Meadows Subdivision

ENGINEER: Rocky Mountain Engineering & Surveying, Inc.
Attn: Dale Peterson
P.O. Box 805
Evanston, Wyoming 82930

OWNER: Partnership. Applicant, Keith Martin
P.O. Box 172
Lyman, Wyoming 82937

WATER QUALITY DIVISION REFERENCE NUMBER: 80-576RRR

REVIEWING ENGINEER: A. Berreth, P.E. *AB*

DATE OF REVIEW: January 21, 1981

ACTION: Not authorized.

COMMENTS:

The following points were made during the phone review:

- 1) Lagoon size needs to be increased to the calculated 6.1 acres required. Surface area is as important as volume.
- 2) Please describe bend between the last manhole and lagoon.
- 3) Please send two copies of sheet 2/5.
- 4) Please send information on the auxillary pump:
 - a. Pump curve or table
 - b. Storage location
 - c. Screen detail
 - d. Automatic operation

A, B, C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Mountain Meadow Subdivision

ENGINEER: Carlton & Carlton
c/o Rocky Mountain Engineering
P.O. Box 805
Evanston, WY 82930

OWNER: Keith Martin
P.O. Box 172
Lyman, WY 82937

WATER QUALITY DIVISION REFERENCE NUMBER: 80-576RR

REVIEWING ENGINEER: A. Berreth, P.E. *AB*

DATE OF REVIEW: January 8, 1981

ACTION: Not authorized.

COMMENTS: Three copies of the drawings are needed. The following points need further clarification:

- A. Sewer Main System - okay.
- B. Lift Station - okay.
- C. Lagoon System
 - 1. Influent line, as drawn, is subject to ice and wind action.
 - 2. My calculations show about a 0.5 acre difference. The pond sizes need to be increased accordingly.
 - 3. Okay
 - 4. The high water take-off is okay, but the low water take-off needs revision. (At what level does it operate?)
 - 5. Okay
- D. Water Main System
 - 1. The water line needs to be shown on the plans and labeled as existing.
- E. Service Connections
 - 1. Only the note describing the water service riser was sent. The sewer also needs to be 4 inches above ground surface.

AB/kn

A, B, C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Mountain Meadow Subdivision

ENGINEER: Carlton & Carlton
c/o Rocky Mountain Engineering
Attention: Dale Peterson
P.O. Box 805
Evanston, WY 82930

OWNER: Partnership - Applicant: Keith Martin
P.O. Box 172
Lyman, WY 82937

WATER QUALITY DIVISION REFERENCE NUMBER: 80-576R

REVIEWING ENGINEER: Albert J. Berreth, P.E. *AJB*

DATE OF REVIEW: December 16, 1980

ACTION: Not authorized.

COMMENTS: Before a "Permit to Construct" can be issued, the following items need further clarification:

A. Sewer Main System

1. How are the most westerly lots of Block 1, north of Manhole 1, and Block 5, south of Manhole 12, to be served by sewer?

B. Lift Station

1. The plans show a 4 foot diameter wet well and the buoyancy analysis seems to use a 5 foot diameter. Which is intended?

C. Lagoon System

1. In the profile, the inlet appears to be suspended over the splash pad.
2. In the calculations for lagoon size, 14 ac-in/yr is used for precipitation. Precipitation falls equally over the lagoon area, therefore, volume of precipitation caught by the lagoon is a function of the lagoon area.
3. A 180 day detention is required between the 2 and 5 foot water levels.
4. The take-off from Cell 1 to Cell 2 may be lowered to accommodate operating between the 2 and 5 foot levels.

AC

5. Please show west side of fence and gate on plans.

D. Water Main System

1. What line will the most westerly units tap onto?

E. Service Connections

1. Details are good but the 4 inch minimum rise above the ground surface needs to be called out for the risers.

AJB/kn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: Mountain Meadow Subdivision/Uinta County/South of Urie ½ Mile

ENGINEER: Carlton & Carlton
737 8th Street
Evanston, WY 82930

OWNER: Partnership - Applicant: Keith Martin
P.O. Box 172
Lyman, WY 82937

WATER QUALITY DIVISION REFERENCE NUMBER: 80-576

REVIEWING ENGINEER: Albert J. Berreth, P.E. *ASB*

DATE OF REVIEW: November 20, 1980

ACTION: NOT AUTHORIZED.

COMMENTS: Before a "Permit to Construct" can be issued, the following points need to be clarified:

A. SEWER MAIN SYSTEM

1. Line size, including infiltration and peak hour, needs to be justified.
2. Invert elevations need to be shown to the nearest 0.01 foot. Also, finished rim elevations should be shown.
3. Buoyancy analysis on the sewer main is needed.
4. Manholes need to be numbered or lettered on both plan and profile with direction of flow shown on the plan.

B. LIFT STATION

1. An overflow with overflow tank is needed.
2. Buoyancy calculations will be needed for both the lift station and overflow tank.
3. A valve and valve box should be installed on the force main outside the lift station.
4. Unless the pumps are the grinder type, they must be capable of passing spheres of at least 3 inches in diameter and pump suction and discharge piping shall be at least 4 inches in diameter.

A, B, C

5. The plans show the distance from the last manhole to the lift station to be 128.5 feet and 158.5 feet.
6. The design flow rate, 145 gpm, is more than the sewage pump is capable of pumping at 13+ feet of head.
7. Drainage needs to be shown for the purpose of demonstrating flood protection.
8. Please provide a profile of the force main.

C. LAGOON SYSTEM

1. Because of the high groundwater table, a separation of 4 feet must be maintained between the lagoon bottom and top of high groundwater.
2. The lagoon should be located at least $\frac{1}{4}$ mile from the nearest dwelling.
3. Rainfall has not been considered in the analysis.
4. The BOD₅ loading for lagoon 1 seems to be excessively high.
5. Percolation tests need to be run on the clay that is to be used for a liner.
6. Please show the distance to the closest water supply wells.
7. If the direction of groundwater movement is known, please show it on the plans.
8. The high water overflow from lagoon 1 to lagoon 2 needs to be shown.
9. The detention time for lagoon 1 needs to be calculated.
10. Provision for partially filling the lagoon cells after construction needs to be made to protect the liner from degradation.
11. A profile is needed from manhole to parshall flume to distribution box to lagoon inlet. Also, details will be needed of these items.
12. All control structures must have locking covers.
13. The method of protecting the clay liner at the points where piping goes through it needs to be shown.
14. For submerged takeoffs, intakes shall be located a minimum of 10 feet from the toe of the dike and 2 feet from the top of the seal, and shall employ vertical withdrawal.
15. Fencing is shown on 3 sides of the lagoon, the lagoon needs fencing on all sides. In addition, since the lagoon is relatively close to the housing, a woven fabric fence material should be employed.

PERMIT TO CONSTRUCT



New

Permit No. 80-577



Renewal

(Ref. 79-39RRR)



Modified

Porter Chopping/Mountain View Subdivision #2 Wastewater Disposal System
(Name of Facility)

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

Porter Chopping - Agent: Elmo G. Peterson, P.E.

1625 North Highway 26

Riverton, WY 82501

to construct, install, or modify septic tanks/subsurface
disposal bed

facility according to the procedures and conditions of the application

No. 80-577. The facility is located in Sec. 30, T. 1N,

R. 4E

in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

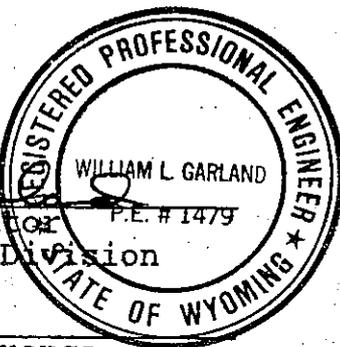
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

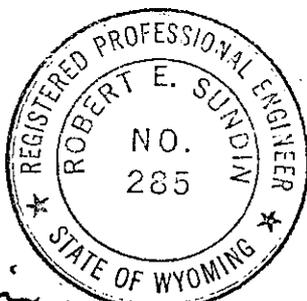
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
November 18, 1980
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

MRC/kn



Department of Environmental Quality
Water Quality Division

30 EAST GRINNELL

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6488

December 23, 1980

Ash Creek Mining Company
c/o Doyle Fritz
Hydrology Associates, Inc.
P.O. Box 3042
Sheridan, Wyoming 82801

RE: PSO Mine No. 1 Sediment Trap
Reservoir (DEQ No. 80-578)

Dear Mr. Fritz:

This office has reviewed the as-built plans and specifications for aforementioned sediment control pond which you submitted for the PSO Mine in Sheridan County and found that they meet the minimum State requirements.

We do not issue permits for the as-built facilities. However, this letter serves as concurrence of this office with the project.

If you have any questions, please let me know.

Sincerely,

A handwritten signature in cursive script that reads "Dan Kim".

Dan H. Kim
Environmental Engineer

DHK/ls

12-10-10

PERMIT TO CONSTRUCT

New

Permit No. 80-579

Renewal

Modified

TOMAHAWK APARTMENTS
(Name of Facility)

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

Western Construction Company

5044 Midland Road

Billings, Montana 59101

to construct, install, or modify a water distribution and
sewage collection

facility according to the procedures and conditions of the application

No. 80-579. The facility is located in Section 20,
T.50N., R.72W.

in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

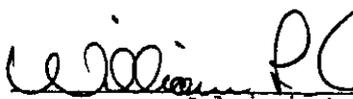
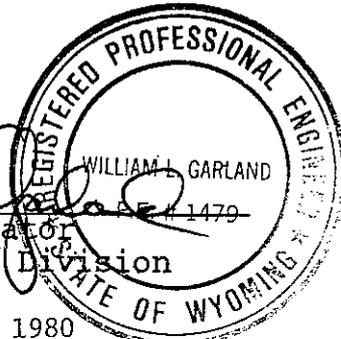
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

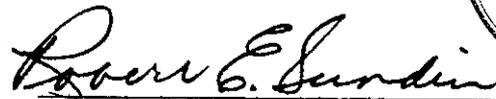
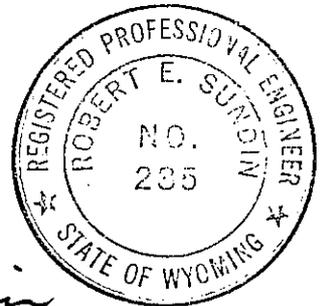
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
No. 1479
Administrator
Water Quality Division
STATE OF WYOMING



ROBERT E. SUNDIN
NO. 235
Director
Dept. of Environmental Quality
STATE OF WYOMING

December 2, 1980
Date of Issuance

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

cc: Russell Larson
Larson & Brimacombe
1901 Energy Court, Suite 120
Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
30 East Grinnell
Sheridan, Wyoming 82801

PROJECT: Antelope Coal Mine Wastewater Ponds

ARCHITECT OR ENGINEER: NERCO, Inc.
111 SW Columbia, Suite 800
Portland, Oregon 97201
Attention: Mr. William Lyons

WATER QUALITY DIVISION REFERENCE NUMBER: 80-517, 80-580, 80-581

REVIEWING ENGINEER: Tom Mueller, P.E. *TJM*

DATE OF REVIEW: November 18, 1980

ACTION: Not Authorized for Construction (see comments)

COMMENTS:

1. Additional, revised drawings for ponds SP-1, SP-2 and SP-3 have been received. It would be helpful if this office was apprised of the reasons for the revisions, and also if table MP-15 of the applications for ponds SPF-1 and SPF-2 is intended to supplant table 4 of the applications for ponds SP-1, SP-2 and SP-3.
2. No ponds are to have an uncontrolled discharge. The discharge structures for ponds SP-1, SP-2 and SP-3 must be capable of complete shutoff. The structures proposed for ponds SPF-1 and SPF-2 are adequate.
3. There is no indication of the relationship of the various ponds to the overall mine facilities or to the NPDES permit outfall numbers. Specifically, what wastewaters (e.g., runoff only, wash down water, pit water) will enter these different ponds? Which ponds will require designated outfall numbers? Please provide some guidance on this matter. Note that for any pond with an NPDES outfall, flow measurement and sampling capability must be provided.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-580RR

ANTELOPE MINE WASTEWATER POND SPF-1

(Name of Facility)

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

Antelope Coal Company

111 SW Columbia, Suite 800

Portland, Oregon 97201

to construct, install, or modify a mine wastewater pond

facility according to the procedures and conditions of the application

No. 81-580RR. The facility is located in

Section 2, T.40N., R.71W.

in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

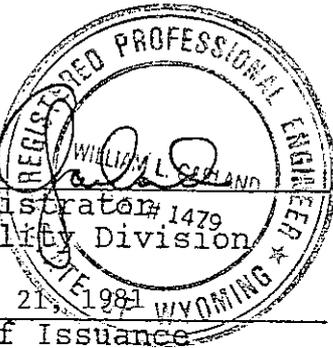
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

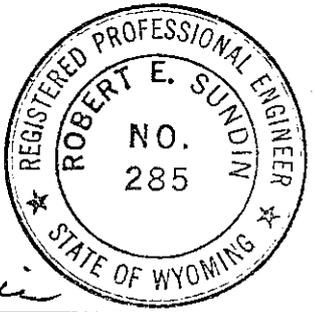
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Sealand
Administrator # 1479
Water Quality Division
April 21, 1981
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

xc: Converse County Courthouse
107 North 5th
Douglas, WY 82633

PERMIT TO CONSTRUCT



New

Permit No. 80-581RR



Renewal



Modified

ANTELOPE COAL MINE WASTEWATER POND SPF-2
(Name of Facility)

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

Antelope Coal Company

111 SW Columbia, Suite 800

Portland, Oregon 97201

to construct, install, or modify a mine wastewater pond

facility according to the procedures and conditions of the application

No. 80-581RR. The facility is located in

Section 2, T.40N., R.71S.

in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

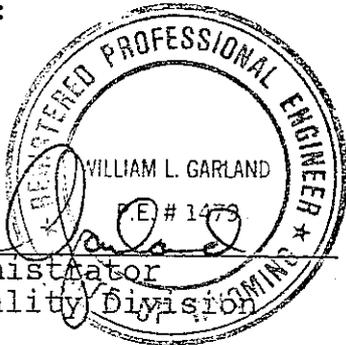
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

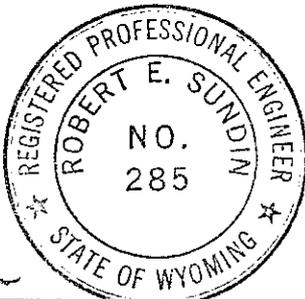
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
P.E. # 1473
Administrator
Water Quality Division


Robert E. Sundin
Director
Dept. of Environmental Quality

April 21, 1981

Date of Issuance

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

xc: Converse County Courthouse
107 North 5th
Douglas, WY 82633

PERMIT TO CONSTRUCT



New

Permit No. 80-582R



Renewal



Modified

Thermopolis - Springview Sewer Extension

(Name of Facility)

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

Town of Thermopolis - Agent: Donald J. Livingston, P.E.

P.O. Box 603

Thermopolis, WY 82443

to construct, install, or modify a sanitary sewer extension

~~facility~~ according to the procedures and conditions of the application

No. 80-582R. The facility is located in Sec. 36, T. 43N,

R. 95W

in the County of Hot Springs, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

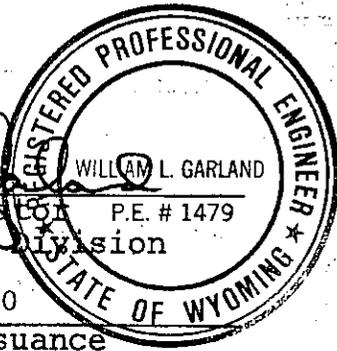
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

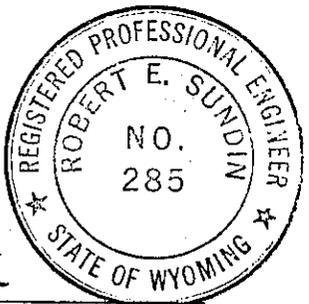
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William L. Garland
WILLIAM L. GARLAND
P.E. # 1479
Administrative
Water Quality Division
November 18, 1980
Date of Issuance



Robert E. Sundin
Director
Dept. of Environmental Quality



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

MRC/kn

PERMIT TO CONSTRUCT

New

Permit No. 80-583RRR

Renewal

SEE SPECIAL CONDITION

Modified

Arch Mineral Corporation, Seminole Mine No. 1
(Name of Facility)

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

Arch Mineral Corporation

P. O. Box 530

Hanna, WY 82327

to construct, install, or modify a runoff control plan facility according to the procedures and conditions of the application No. 80-583RRR. The facility is located in Section 1,2,12, T22N, R84W: Section 1-18, 22, T22, R83W: Section 19, 29-32, T22N, R82W: Section 5,6, T21N, R82W in the County of Carbon, in the State of Wyoming.

This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

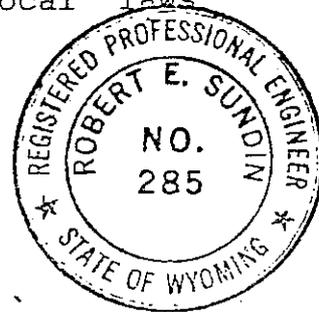
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

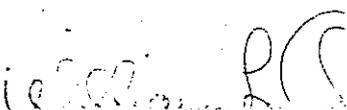
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

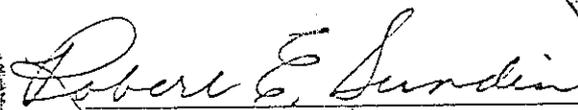
AUTHORIZED BY:





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

APR 21 1981
Date of Issuance



Director
Dept. of Environmental Quality

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

cc:

SPECIAL CONDITIONS

1. Sediment Control facilities for topsoil stockpiles shall be completed within 15 days after the need arises, all other control structures shall be constructed before the lands are affected.
2. Within 30 days following completion of construction of an individual facility, the permittee shall furnish the Water Quality Division with the following: a) the exact size, location and capacity of the facility, amount of disturbed area and other information used to size the facility, b) certification that the facility was constructed to meet the approved design requirements and sizing criteria.

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 21, 1981

Lonnie Norman
Arch Mineral Corporation
Seminole Mine #1 & #2
P. O. Box 530
Hanna, WY 82327

RE: Letter of Approval for Pond Repair and General Permit
to Construct

Dear Lonnie:

The Water Quality Division has reviewed the report on the repair of the sedimentation ponds at Seminole Mine No. 2 and has determined it to be acceptable.

Enclosed is the General Permit to Construct for the runoff control plan for Seminole Mine No. 1. You are reminded that the sediment control for topsoil stockpiles must be installed within 15 days after the need arises and all other sediment control must be constructed before the lands are disturbed. As-builts of all construction must be submitted within 30 days of construction (see Special Conditions in the Permit). Since the need has already arisen for sediment control and that construction is 80% complete, DEQ is expecting as-builts in the near future.

Sincerely,

A handwritten signature in cursive script that reads "Thomas S. Norman".

Thomas S. Norman
Water Quality Engineer

TSN/ad
Enclosures

cc: John Erickson, DEQ/LQD, Lander

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Seminole I Mine, Arch Mineral Corporation, Carbon Co.

ARCHITECT OR ENGINEER: Ted J. Hall, Hydrologist, Arch Mineral Corp.
P.O. Box 490, Hanna, WY 82327

APPLICANT:

WATER QUALITY DIVISION REFERENCE NUMBER:

REVIEWING ENGINEER: 80-583RRR - "As Built" Plans

DATE OF REVIEW: Thomas S. Norman *Thomas S. Norman*

ACTION: NEED ADDITIONAL INFORMATION

COMMENTS:

1. The retention sumps on sheet 2/4 were never approved in the initial submittal. The design, plans and specifications on them are necessary. Are they similar to sedimentation ponds without a discharge?
2. The disturbed area referred to in the "as builds" does not mean the disturbed area of the ditch but rather the disturbed area which will be draining into the ditch.
3. The symbols for retention ditch and haul roads are the same. Is there a way to clarify this?
4. I need to know exact location of the check dams in the retention ditch to assure they are placed close enough to contain all runoff. Obviously, a ditch that is flat will not need any check dams, but as the slope increases, the dams must be placed closer and closer together. I suggested to Lonnie Norman that maybe a chart could be designed that would have dam spacing versus ground slope.
5. As I explained on the phone, "as builds" must be submitted within thirty days after the construction of any sediment control structure. You cannot wait until the entire mine is done since construction is constantly changing. According to your permit, sediment control structures must be constructed before the lands are disturbed with the exception of topsoil stockpiles which can be completed within fifteen days after the need arises.

TSN/nc

8+7

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Arch Mineral Corporation, Seminoe Mine No. 1 & No. 2

ARCHITECT OR ENGINEER: Malalur K. Suteesha
500 North Broadway, St. Louis MI 63102

WATER QUALITY DIVISION REFERENCE NUMBER: 80-583RR

REVIEWING ENGINEER: T. S. Norman *T.S. Norman*

DATE OF REVIEW: March 18, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1. To clarify the size of retention ditches in respect to drainage, a table relating the length of a retention ditch in relation to the slope of drainage ditch would be helpful. For example, at 0% slope no retention ditch is needed; but how many linear feet of retention ditch is needed for one hundred feet of drainage ditch at 10% slope? This table would make review of the as-builts very simple when they are submitted after construction.

I assume that the retention ditches will be built perpendicular to the over burden piles in order to contain the necessary water. Is this correct?

I also assumed that when a mining pit is advancing uphill that retention ditches are not needed as the drainage ditches will route all drainage into the pit. Is this correct?

- 2. I am waiting a letter from your construction inspector stating the specific installation requirements and subsequent compliance for the repair of the sedimentation ponds.

cc: Lonnie Norman
Arch Mineral Corporation
P. O. Box 530
Hanna, Wyoming 82327

Lef

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Arch Mineral Corporation, Seminoe Mines No. 1 & 2

ARCHITECT OR ENGINEER: Malalur K. Sateesha, Arch Mineral Corporation
500 North Broadway, St. Louis, MI 63102

WATER QUALITY DIVISION REFERENCE NUMBER: 80-583R

REVIEWING ENGINEER: T. S. Norman, EIT

DATE OF REVIEW: February 17, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Please submit a compliance schedule showing a time table of events that need to take place prior to any spring runoff events for all the sediment control structures.
2. In those areas where a sedimentation pond is used in conjunction with retention ditches, the Water Quality Division is only concerned with the sedimentation pond as the retention ditches are viewed as soil conservation practices. See attached memo dated October 29, 1980.
3. The initial application stated that the sediment ponds will also be used for pit dewatering. Please state the anticipated flows and affects on the sizing of the sedimentation ponds. A specific permit to construct is required for this type of facility. See attached memo dated October 29, 1980.
4. Where ditches are intended only for transferring water and not for storage, extra capacity for storage must be provided downstream. These ditches designated as 'retention' are not adequately sized.
5. Wherever a sediment control process is used, it must be designed for a 10 year-24 hour precipitation event. This includes topsoil piles. The Land Quality Division may be contacted for where sediment control is required. It is my understanding that some topsoil piles may be exempt.
6. 'Retention' ditches are subject to the 10 year-24 hour flood precipitation or a discharge permit requirement regardless if they intercept a natural drainage channel or not. If a sediment facility accepts runoff from undisturbed area, a permit to con-

struct is needed prior to construction. See attached memo dated October 29, 1980.

The permit application must contain a statement concerning the completion times of sediment structures. See item #4 of attached memo dated October 29, 1980.

8. The permit application must contain provisions for dewatering. See item #2 of attached memo dated October 29, 1980.
9. The permit application must contain typical construction specification (i.e. compaction requirements, dewatering methods and equipment, any outfalls, minimum and maximum slopes, etc.). Concern is shown for the proposed 45° inner slope as to constructability, stability, and ease of maintenance and cleaning. See attached memo dated October 29, 1980.
10. The 'Notice of Violation and Order' dated September 23, 1980 (Docket No. 779-80) ordered that the sedimentation ponds be restored within 45 days and a written report be submitted to DEQ within seven days after completion. To date, DEQ has received no such documentation.

Attachments



Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

February 17, 1981

Certified

Lonnie Norman
Arch Mineral Corporation
P. O. Box 530
Hanna, WY 82327

RE: Seminoe # 1 and # 2, Notice of Violation and Order,
Docket No. 779-80

Dear Mr. Norman:

Due to the delays of obtaining a Permit to Construct and the nearness of spring runoff problems, DEQ requests that Arch Mineral submit a compliance schedule showing events which need to be accomplished in order to have acceptable runoff control facilities installed prior to spring runoff. This compliance schedule must be submitted to DEQ within 15 days of receipt of this letter. If a permit to construct and subsequent construction cannot be obtained prior to spring runoff, the remaining failed ponds must be repaired.

Arch Mineral is in violation of the 'Notice of Violation and Order' that was issued September 23, 1980 as the requirements stated in the 'Order' have not been met. Please respond to the requirements of the 'Order'.

If correspondence pertaining to the above topics is not received by DEQ within fifteen (15) days of receipt of this letter, the matter will be turned over to the Attorney General's office for enforcement action.

Sincerely,

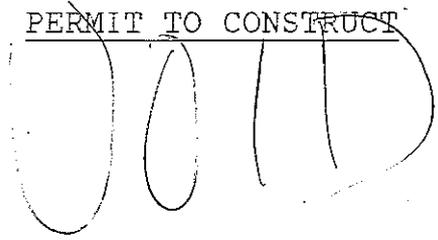
Thomas S. Norman

Thomas S. Norman
Water Quality Engineer

LE
5-4-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified



Permit No. 80-583RRR

SEE SPECIAL CONDITION

Arch Mineral Corporation, Seminole Mine No.2
(Name of Facility)

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

Arch Mineral Corporation

P. O. Box 530

Hanna, WY 82327

to construct, install, or modify a runoff control plan facility according to the procedures and conditions of the application No. 80-583RRR. The facility is located in Section 1,2,12, T22N, R84W: Section 1-18, 22, T22, R83W: Section 19, 29-32, T22N, R82W: Section 5,6, T21N, R82W in the County of Carbon, in the State of Wyoming.

This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

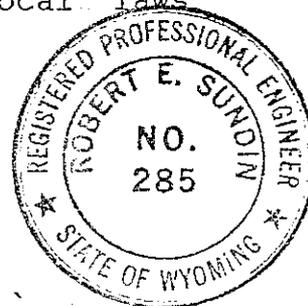
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

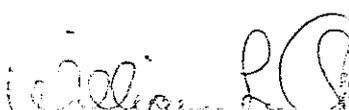
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

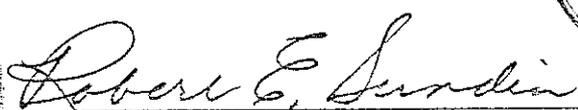
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:




WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
April 21, 1981
Date of Issuance


Director
Dept. of Environmental Quality

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

cc:

SPECIAL CONDITIONS

1. Sediment Control facilities for topsoil stockpiles shall be completed within 15 days after the need arises, all other control structures shall be constructed before the lands are affected.
2. Within 30 days following completion of construction of an individual facility, the permittee shall furnish the Water Quality Division with the following: a) the exact size, location and capacity of the facility, amount of disturbed area and other information used to size the facility, b) certification that the facility was constructed to meet the approved design requirements and sizing criteria.

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 21, 1981

Lonnie Norman
Arch Mineral Corporation
Seminole Mine #1 & #2
P. O. Box 530
Hanna, WY 82327

RE: Letter of Approval for Pond Repair and General Permit
to Construct

Dear Lonnie:

The Water Quality Division has reviewed the report on the repair of the sedimentation ponds at Seminole Mine No. 2 and has determined it to be acceptable.

Enclosed is the General Permit to Construct for the runoff control plan for Seminole Mine No. 1. You are reminded that the sediment control for topsoil stockpiles must be installed within 15 days after the need arises and all other sediment control must be constructed before the lands are disturbed. As-builts of all construction must be submitted within 30 days of construction (see Special Conditions in the Permit). Since the need has already arisen for sediment control and that construction is 80% complete, DEQ is expecting as-builts in the near future.

Sincerely,

A handwritten signature in cursive script that reads "Thomas S. Norman".

Thomas S. Norman
Water Quality Engineer

TSN/ad
Enclosures

cc: John Erickson, DEQ/LQD, Lander

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-584RR

Angle Mountain
(Name of Facility)

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

Williams Company
1451 Larimer St. Suite 200
Denver, Co 80202

to construct, install, or modify a sewage retention pond

facility according to the procedures and conditions of the application

No. 80-584RR. The facility is located in unsurveyed
area

in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two years (five (5) years maximum) from the date of issuance of this permit.

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

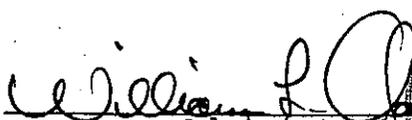
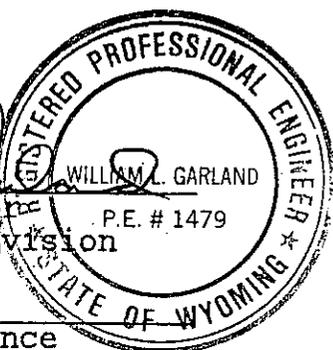
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

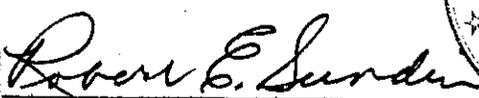
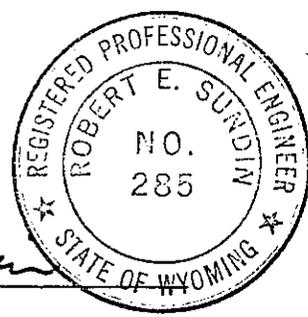
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


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



ROBERT E. SUNDEN
Director
Dept. of Environmental Quality


December 2, 1980
Date of Issuance

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

AJB/yh

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: Angle Mountain / Teton Co.

ENGINEER: C.E. Spurlock Jr. & Associates Inc.
Box 0
Lander, WY 82520

OWNER: Williams Co.
1451 Larimer Street
Suite 200
Denver, CO 80202

WATER QUALITY DIVISION REFERENCE NUMBER: 80-584

REVIEWING ENGINEER: Albert J. Berreth P.E. *NR*

DATE OF REVIEW: November 20, 1980

ACTION: NOT AUTHORIZED.

COMMENTS:

Before a "Permit to Construct" can be issued the following items must be clarified:

1. What is the waste being contained?
2. Where is the waste coming from? How long is the influent line?
Is a profile available?
3. How long is the discharge going to occur? Is the discharge seasonal?
Calculations must be submitted which justify the size of the lagoon.
4. It should be noted, that, if a liner is not used, and any possibility
ground water pollution exists, a ground water pollution control permit
will be required as is outlined in Chapters 8 & 9 of the Wyoming Water
Quality Rules and Regulations.
5. The depth to groundwater must be noted.
6. Percolation tests and soil information are required.
7. The pond appears to be close to drainage ways. Will it be subject
to flooding and how much?
8. What is the average strength of the waste?
9. The minimum dike ^{top} width is 8 feet.
10. The maximum allowable slope is 3:1.
11. Provision for erosion control and seeding must be made.
12. Sewer pipe material must be specified. Also, calculations must be sub-
mitted which justify its size and slope.

A, B, C

13. A manhole or vented cleanout wye shall be installed prior to entrance of the influent line into the primary cell and shall be located as close to the dike as topography permits. Its invert shall be at least 6 inches above the maximum operating level of the pond and provide sufficient hydraulic head without surcharging the manhole.
14. The influent line should enter near the bottom and above the seal.
15. The influent line shall discharge horizontally into a shallow, saucer shaped, depression. A minimum size concrete apron of 2 feet square shall be provided.
16. The pond must be fenced and have a locking gate large enough to allow entrance of mowing equipment.
17. Year-round access should be provided.
18. Adequate warning signs must be posted.
19. A flow measuring device needs to be provided.
20. Ground water monitoring may be required.
21. Three copies of the application are needed.

AB/yh

17 2-10-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-585R

~~City of Lander Water Headworks Chemical Feeder Station~~
(Name of Facility)

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

~~City of Lander - Mayor Del McOmie~~
183 S. 4th Street
Lander, WY 82520

to construct, install, or modify an intake structure with two
chemical feeders

facility according to the procedures and conditions of the application
 No. 80-585R. The facility is located in Sec. 9, T. 32N,
R. 100W

in the County of Fremont, in the State of Wyoming. This permit
 shall be effective for a period of two years (five (5) years
 maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environ-
 mental 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 responsi-
 bility of the applicant, owner, or operator.

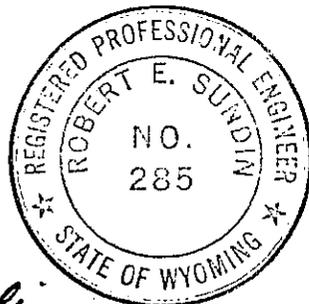
The authority to construct granted by this permit does not mean or
 imply that the Wyoming Department of Environmental Quality guarantees
 or insures that the permitted facility, when constructed, will meet
 applicable discharge permit conditions or other effluent or oper-
 ational requirements.

The permittee shall allow authorized representatives from the Depart-
 ment of Environmental Quality, Water Quality Division, upon the pre-
 sentation 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:



William L. Garland
WILLIAM L. GARLAND
P.E. # 1479
Administrator
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

Robert E. Sundin
Director
Dept. of Environmental Quality

December 2, 1980
Date of Issuance

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

MRC/yh

12-15-88

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-586R

MOUNTAIN BELL PROPERTY WATER IMPROVEMENT
(Name of Facility)

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

Mountain Bell

P.O. Box 428

Cheyenne, Wyoming 82001

to construct, install, or modify a water distribution

facility according to the procedures and conditions of the application

No. 80-586R. The facility is located in Section 34,
T.50N., R.72W.

in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

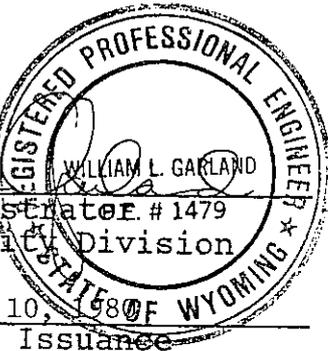
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

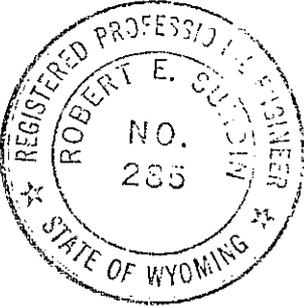
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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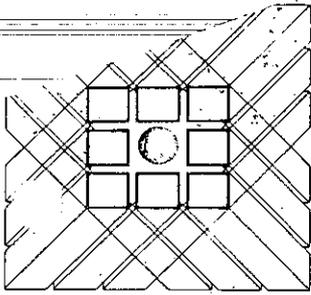
AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
STATE OF WYOMING
December 10, 1980
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Robert Rothermel
Brady Consultants, Inc.
P.O. Box 1329
Gillette, WY 82716



Merrick
and comp
inc
projects

(303) 641-5871

80-5871

gunnison, colorado
(303) 641-4300

hazen, north dakota
(701) 748-2773

sheridan, wyoming
(307) 647-8253

RECEIVED
WATER QUALITY
DIVISION
WYOMING

December 18, 1980

Ref: 276-3461

Mr. T. S. Norman
Wyoming Department of Environmental Quality
Water Quality Division
401 West 19th Street
Cheyenne, Wyoming 82002

Subject: Improvements to the Water Supply System, Baggs, Wyoming
D.E.Q. reference number 80-587-

Dear Mr. Norman:

After conversations with the Town of Baggs, various contracting personnel, and representatives from the Farmers Home Administration, Merrick & Company has revised the project phasing. The revised phasing postpones the improvements to the infiltration gallery until the spring when this will be constructed along with the rest of the water system improvements.

Because of this change, we are no longer requesting a permit to construct these first phase improvements. Instead, we will prepare one set of plans and specifications covering the total project and submit them for review and comment and apply for a Permit to Construct for the entire project.

The revised schedule we will be working under is as follows:

1. Incorporation of comments from D.E.Q., E.P.A. and Fm.H.A. regarding the preliminary engineering report and project scope - Jan. 1, 1981
2. Preparation of Preliminary Plans and Specifications and submittal to E.P.A., D.E.Q., and F.H.A. Feb. 15, 1981
3. Submittal of Final Plans and Specifications and application for Permit to Construct Mar. 15, 1981
4. Advertise for Bids Apr. 15, 1981

Wyoming Department of Environmental Quality
Page 2
December 18, 1980

- | | |
|--------------------------------------|--------------|
| 5. Award Contract | May 1, 1981 |
| 6. Begin Construction | May 15, 1981 |
| 7. Substantial Completion of Project | August 1981 |

The enclosed preliminary engineering report discusses the proposed improvements and pertinent background information. If you have any comments regarding the project or schedule, please contact me.

Sincerely,

MERRICK & COMPANY



Douglas Brown
Project Manager

DB/dlr
Encl.

cc Mr. Merrill Cornelius, Fm.H.A.
Mr. Mike Hackett, D.E.Q.
Mr. Mark Alston, E.P.A. 3-3-837-2731

M
12-12-80

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Baggs Water Supply Improvements, Carbon Co.

ARCHITECT OR ENGINEER: Merrick & Co., Engineers & Architects
P.O. Box 22026, Denver, CO 80222

WATER QUALITY DIVISION REFERENCE NUMBER: 80-587

REVIEWING ENGINEER: T. S. Norman, E.I.T. *T. S. Norman*

DATE OF REVIEW: December 8, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

General

1. An "Application for Permit to Construct" must be submitted (attached).
2. The plans and specifications must be sealed by an engineer registered in Wyoming.
3. This project will require a "Dredge & Fill" permit from the Corps of Engineers. Specific requirements can be obtained from the following address:

Corps of Engineers
650 Capitol Mall
Sacramento, CA 95814
916-449-2580

4. Three copies of plans and specifications must be submitted.

Contract Documents

Section 13. "Changes in the Work". Any change orders or field orders must be submitted to DEQ for approval. Failure to comply would be a violation of DEQ regulations and the owner may be penalized.

Specifications

1. Sec. 2.03. Bars for the trash grillage are not shown on the plans. Where will they be located?
2. Sec. 2.05. The type class for the ductile iron pipe is not stated. The minimum size pipe allowed for fire hydrants is six inch diameter.

3. What is the size and type of material for the cleanout pipe?
4. Sec. 3.01. The actual compaction densities shall be called out.
5. Sec. 3.02. Is the gallery or the line being surged? What line is being pumped?

Plans

1. Stand pipe
 - a. Why is the fire hydrant turned horizontally?
 - b. How will the fire hydrant standpipe be kept from freezing?
 - c. The valve stem and box are not shown on the 12" GV.
2. Intake gallery
 - a. I am not convinced that the sediment cleanout device is adequate or workable. With the interior filled with gravel, how will the sediment be removed? How can one tell when the intake gallery needs to be cleaned? What will be used to pump out the gallery?
 - b. What is the depth of the gallery?
 - c. How high does the cleanout pipe extend above the gallery cover? Will it be accessible during high water? Is it capped?
 - d. What will be the affect of annual flooding and the 100-year flood on the structure?
 - e. How will the structure be protected from erosion, washout, and ice flows?
 - f. The GV and box is not shown on cross-section?
 - g. The intake pipe must have sufficient cover to prevent washout. Three feet is recommended.
3. Horizontal well
 - a. How far above the claystone bedrock will the perforated pipe be placed?
 - b. How much gravel pack will be placed above the pipe?

PERMIT TO CONSTRUCT

New

Permit No. 80-588

Renewal

Modified

Chances 'R' Trucking Truck Waste Disposal System
(Name of Facility)

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

Chances 'R' Trucking Company

P.O. Box 308

Wamsutter, WY 82336

to construct, install, or modify a collection system, 2 septic tanks, leach field

facility according to the procedures and conditions of the application

No. 80-588. The facility is located in Sec. 34, T. 20,

R. 94

in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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.

PERMIT TO CONSTRUCT



New

Permit No.

80-589



Renewal

Reference 79-173



Modified

CENTENNIAL SUBDIVISION — MOORCROFT

(Name of Facility)

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

Ike Carroll, c/o Ralph Goodson

Box 130

Sundance, Wyoming 82729

to construct, install, or modify a water and sewer line

facility according to the procedures and conditions of the application

No. 80-589. The facility is located in Section 6,

T.49N., R.67W.

in the County of Crook, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

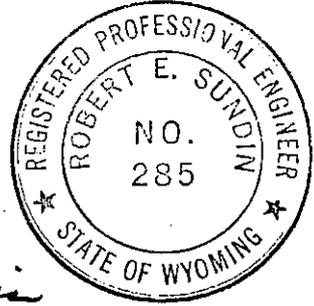
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

AUTHORIZED BY:



William C. Garland
Administrative
Water Quality Division
November 19, 1980
Date of Issuance

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM C. GARLAND" and the number "P.E. #1479".

Robert E. Sundin
Director
Dept. of Environmental Quality

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

PERMIT TO CONSTRUCT



New

Permit No. 80-590



Renewal



Modified

Texasgulf Chemicals Soda Ash Operation Small Wastewater Facility
(Name of Facility)

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

Texasgulf Chemicals Co.
P. O. Box 100
Granger, WY 82934

to construct, install, or modify a Small Wastewater

facility according to the procedures and conditions of the application

No. 80-590. The facility is located in Northwest 1/4 Sec. 36,
T 20N, R 111W,

in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of Two years (five (5) years maximum) from the date of issuance of this permit.

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

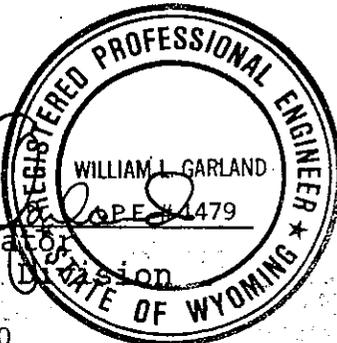
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

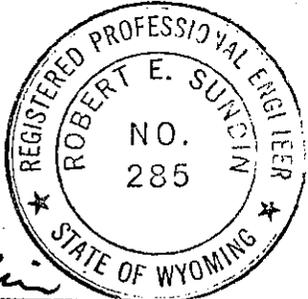
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
November 24, 1980
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

FL/yh

12 00 10

PERMIT TO CONSTRUCT

New

Permit No. 80-591

Renewal

Modified

I-90 ADDITION — CITY OF GILLETTE

(Name of Facility)

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

City of Gillette

P.O. Box 3003

Gillette, Wyoming 82716

to construct, install, or modify a water distribution and
sewage collection

facility according to the procedures and conditions of the application

No. 80-591. The facility is located in Section 28,

T.50N., R.72W.

in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

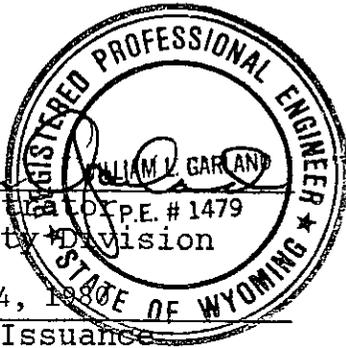
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

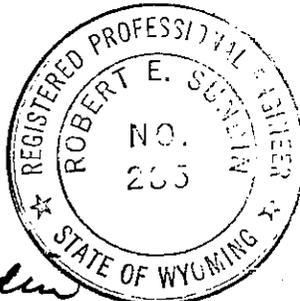
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

AUTHORIZED BY:


William V. Garland
Administrator P.E. # 1479
Water Quality Division
December 4, 1980
Date of Issuance


Robert E. Sunden
Director
Dept. of Environmental Quality

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

cc: Mike McDill
McDill Engineering
3308 Sutherland Drive
Gillette, WY 82716

PERMIT TO CONSTRUCT

New

Permit No. 80-592

Renewal

Modified

CAMPBELL COUNTY SOLID WASTE TRANSFER STATION

(Name of Facility)

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

Attention: William Flaherty, County Engineer
Campbell County, Wyoming

505 Warren Avenue

Gillette, Wyoming 82716

to construct, install, or modify a septic wastewater treatment

facility according to the procedures and conditions of the application

No. 80-592. The facility is located in Section 28,

T.51N., R.72W.

in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

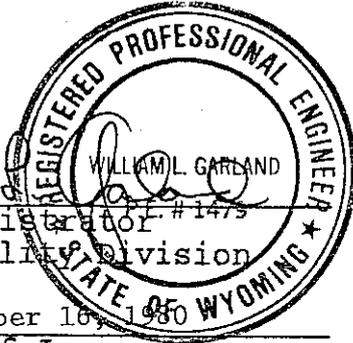
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

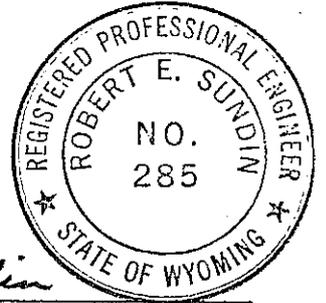
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AUTHORIZED BY:



William L. Garland
Administrator
Water Quality Division
December 16, 1950
Date of Issuance



Robert E. Sundin
Director
Dept. of Environmental Quality

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

10-16-80

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 80-593R

Adragna Veterinary Clinic
(Name of Facility)

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

JoAnne Mill

600 East 19th

Cheyenne, WY 82001

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 80-593R. The facility is located in Section 7, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

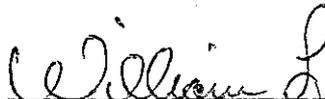
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

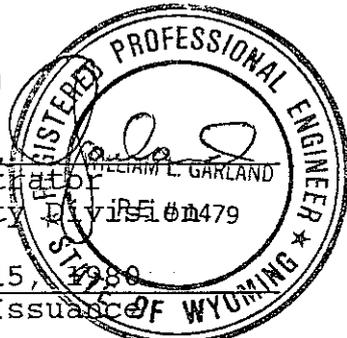
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

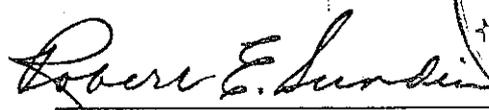
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

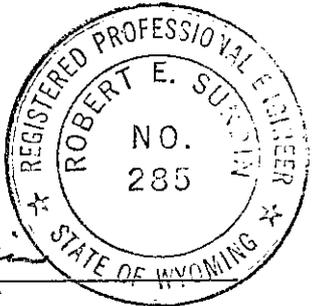
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrative
Water Quality Division 479
December 15, 1980
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Jon L. Anderson
A.V.I. Engineering
7300 Yellowstone Rd.
Cheyenne, WY 82001

M
12-3-80

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Adragna Veterinary Clinic, Laramie Co.

ARCHITECT OR ENGINEER: Jon L. Anderson, P.E., A.V.I. Engineering
7300 Yellowstone Rd., Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 80-593

REVIEWING ENGINEER: Theodore D. Coyer, P.E.

Theodore D. Coyer

DATE OF REVIEW: December 2, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Are there any wells south of the proposed drainfield location?
2. Is there a subsurface disposal field west of the proposed well location? This should be checked even though it is a private well.
3. The plans must be either sealed or signed by an engineer registered in Wyoming.

1-20-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-594RR

SEE SPECIAL CONDITIONS

Commercial-Shop and Office-Lot 56
(Name of Facility)

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

Bob Meloy

1832 Jim Bridger

Casper, WY 82601

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 80-594RR. The facility is located in Section 56, T34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

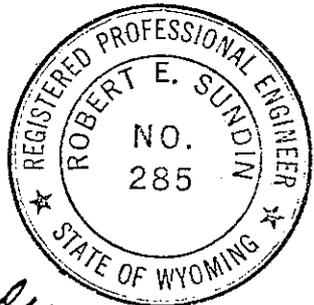
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

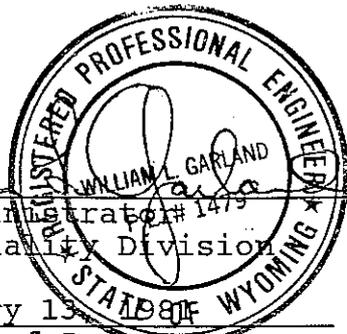
AUTHORIZED BY:



Robert E. Sundin

Director

Dept. of Environmental Quality



William L. Garland

Administrative # 1473

Water Quality Division

January 13, 1988

Date of Issuance

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

cc: Detmer R. Knapp, P. E.
P. O. Box 2308
Mills, WY 82644

Chuck Davis
City-County Planner
200 N. David
Casper, WY 82061

Conditions to Permit to Construct

The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Casper Urban Water Quality Management Plan requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned on integrated into the regional system in accordance with the requirements of the Casper Urban Water Quality Management Plan and the Final 201 Facility Plan.

10-3-80

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Shop/Office, Bob Meloy, Lot 56, Natrona Co.

ARCHITECT OR ENGINEER: Detmer R. Knapp, P.O. Box 2308
Mills, WY 82644

WATER QUALITY DIVISION REFERENCE NUMBER: 80-594

REVIEWING ENGINEER: Theodore D. Coyer, P.E.

Theodore D. Coyer

DATE OF REVIEW: November 26, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Does the volume of wastewater (750 GPD) specified on the application include the volume generated from the vehicle and general shop washing and maintenance activities.
2. Details of the septic tanks and oil and sand separation tank must be shown.
3. Please provide the percolation test data for review since the percolation rate shown does not typically result from the soil type (sandy clay) indicated.
4. Your "original" of the plans is being returned for revisions as appropriate.

cc: Bob Meloy
1832 Jim Bridger
Casper, WY 82601



THE STATE OF WYOMING.

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 22, 1980

Detmer R. Knapp, P.E.
P. O. Box 2308
Mills, WY 82644

Subject: Shop/Office, Bob Meloy,
Lot 28 (80-595R) and
Shop/Office, Bob Meloy,
Lot 56 (80-594R), Natrona
County

I r Mr. Knapp:

Before we can issue construction permits for the above projects, we need at least two copies of the plans. Therefore, I am returning your "original" sheets so that you can make the copies, since we do not have the capabilities of making them.

As soon as I receive two copies of each of the site plans and one copy of the tank details, the permits will be processed.

Very truly yours,

Theodore D. Coyer

Theodore D. Coyer, P.E.
Environmental Engineer
Water Quality Division

TDC/com/pjb

1-20-81

PERMIT TO CONSTRUCT

Permit No. 80-595RR

SEE SPECIAL CONDITIONS

- New
 Renewal
 Modified

Commercial-Shop and Office-Lot 28
(Name of Facility)

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

Bob Meloy

1832 Jim Bridger

Casper, WY 82601

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 80-595RR. The facility is located in Section 34, T34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

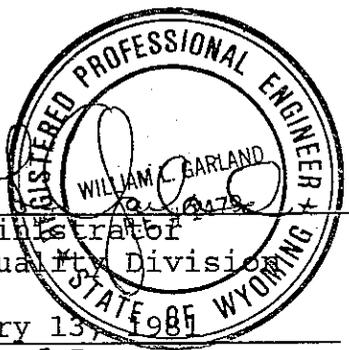
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

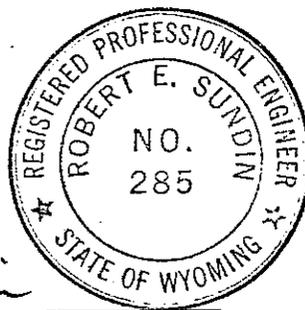
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
STATE OF WYOMING
January 13, 1985
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Detmer R. Knapp, P. E.
P. O. Box 2308
Mills, WY 82644

Chuck Davis
City-County Planner
200 N. David
Casper, WY 82061

Conditions to Permit to Construct

The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Casper Urban Water Quality Management Plan requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned on integrated into the regional system in accordance with the requirements of the Casper Urban Water Quality Management Plan and the Final 201 Facility Plan.

M
12-3-80

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Shop/Office, Bob Meloy, Lot 28, Natrona Co.

ARCHITECT OR ENGINEER: Detmer R. Knapp, P.O. Box 2308
Mills, WY 82644

WATER QUALITY DIVISION REFERENCE NUMBER: 80-595

REVIEWING ENGINEER: Theodore D. Coyer, P.E. *Theodore D. Coyer*

DATE OF REVIEW: November 26, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Does the volume of wastewater (750 GPD) specified on the application include the volume generated from the vehicle and general shop washing and maintenance activities.
2. Details of the septic tanks and oil and sand separation tank must be shown.
3. Please provide the percolation test data for review since the percolation rate shown does not typically result from the soil type (sandy clay) indicated.
4. Your "original" of the plans is being returned for revisions as appropriate.

cc: Bob Meloy
1832 Jim Bridger
Casper, WY 82601

1-20-84

PERMIT TO CONSTRUCT

Permit No. 80-596RR

- New
 Renewal
 Modified

Ben Nevis Subdivision
(Name of Facility)

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

Energy Housing, Inc.

820 West Spruce

Rawlins, WY 82301

to construct, install, or modify a wastewater collection and potable water distribution facility according to the procedures and conditions of the application No. 80-596RR. The facility is located in Section 9, T21N, T87W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

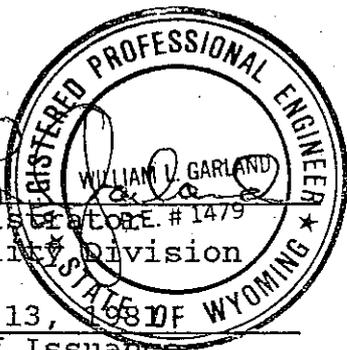
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

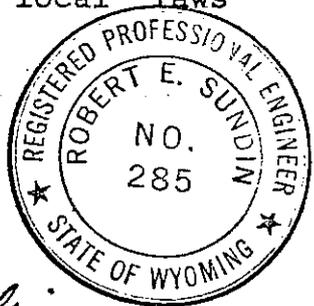
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
Administrator, # 1479
Water Quality Division
January 13, 1980
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc; Paul McCarthy
Robert Jack Smith & Assoc.
P. O. Box 1104
Rawlins, WY 82301

M
12-3-80

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Ben Nevis Subdivision, Carbon Co.

ARCHITECT OR ENGINEER: Paul McCarthy, P.E., Rob't Jack Smith & Assoc.
P.O. Box 1104, Rawlins, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 80-596

REVIEWING ENGINEER: Theodore D. Coyer, P.E. *Theodore D. Coyer*

DATE OF REVIEW: November 28, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The application must be signed by a responsible corporate official of Energy Housing, Inc. Also, the original of the application must be submitted.
2. Section 101, page 25 of 33, "Acceptance of Defective Work", is not acceptable as written. If defective work alters or modifies the plans and specifications as approved by the reviewing agencies, the defective work must also be acceptable to the reviewing agencies before it can be allowed to remain.
3. Table 1, Section 301, page 7 of 17 of the specifications for allowable leakage from water mains does not agree with the leakage allowed using the formula on page 7 of 16.
4. The sites for flushing the chlorinated water from the water mains after disinfection must be shown on the plans. This water must not be allowed to enter a surface body of water without dechlorination.
5. The sewer design information on sheet 2 of 6 is incorrect. Please check.
6. The specifications for the fiberglass water main must include all items as outlined in DEQ's policy statement date February 26, 1979 (copy attached).

PERMIT TO CONSTRUCT

New

Permit No. 80-597R

Renewal

Modified

Donald Bird
(Name of Facility)

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

Donald S. Bird

P.O. Box 1363

Laramie, WY 82070

to construct, install, or modify a commercial subsurface disposal wastewater facility according to the procedures and conditions of the application No. 80-597R. The facility is located at 12th St. & Bill Nye St. (extended), Section 4, T15N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

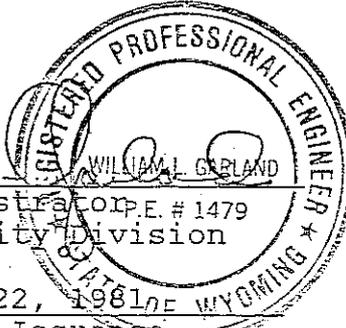
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

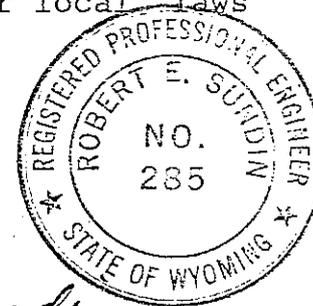
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William R. Garland
Administrator P.E. # 1479
Water Quality Division
January 22, 1981
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Don Lamb
Associated Engineers
910 Garfield St.
Laramie, WY 82070

M
12-3-80

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Donald Bird & Dorothy Bird, Shop & Storage Bldg.
P.O. Box 1363, Laramie, WY 82070

ARCHITECT OR ENGINEER: None

WATER QUALITY DIVISION REFERENCE NUMBER: 80-597

REVIEWING ENGINEER: T. S. Norman, E.I.T. *T.S. Norman*

DATE OF REVIEW: November 26, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Water Quality Rules & Regulations, Chapter III, Section 4.B. requires all plans (except for single family homes) to carry the seal of a Wyoming Registered Engineer.
2. If the soil type is gypsum, I suspect the site to be unacceptable for a septic system. Please provide background information of similar systems within your area. Gypsum is noted for developing 'sinkholes' where the application of water is frequent.

*File w/permit
80-598R*



ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

March 25, 1981

Mr. Mike McDill
McDill Engineering
3308 Sutherland Drive
Gillette, Wyoming 82716

Dear Mike:

This letter is to clarify the Condition attached to Permit to Construct No. 80-598R, for the Freedom Hills Water System. The 20 day period referred to in the Condition is to begin at the time of well testing, not at receipt of the permit.

Thanks for calling this to my attention.

Yours truly,

A handwritten signature in cursive script that reads "Tom Mueller".

Tom Mueller
District Supervisor

TM/lis

xc: Jake Strohman



PERMIT TO CONSTRUCT



New

Permit No. 80-598



Renewal



Modified

FREEDOM HILLS STORAGE TANK AND PUMP SYSTEM
(Name of Facility)

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

Mr. Mike McDill

3308 Sutherland Drive

Gillette, Wyoming 82716

to construct, install, or modify a public water supply

facility according to the procedures and conditions of the application

No. 80-598. The facility is located in Section 23,

T.50N., R.71W.

in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

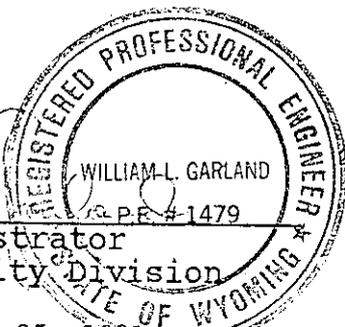
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

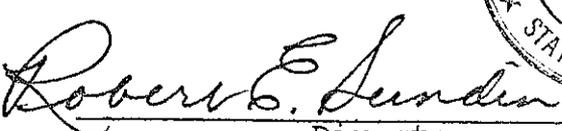
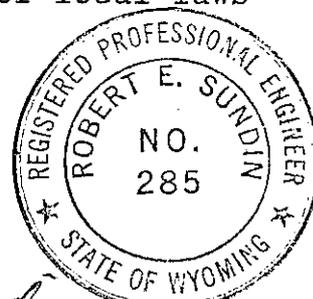
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
R.P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING
February 25, 1981
Date of Issuance



ROBERT E. SUNDIN
NO. 285
Director
Dept. of Environmental Quality

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

PERMIT CONDITION

The water well for this Public Water Supply must be tested for firm yield, and drawdown at that yield. The well must be capable of producing one hundred thirty (130) gallons per minute on a continuous basis, or an additional well must be drilled. If the additional well is necessary, application for modification of this Permit is to be made within 20 days, and the additional well is to be completed within 120 days of issuance of a modified Permit. If this condition is not complied with, this Permit (80-598R) shall become null and void.

Cheyenne
Compton
Ramos

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
30 East Grinnell
Sheridan, Wyoming 82801



PROJECT: Freedom Hills Storage Tank and Pump System

ARCHITECT OR ENGINEER: McDill Engineering
3308 Sutherland Drive
Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 80-598

REVIEWING ENGINEER: Tom Mueller *T.M.*

DATE OF REVIEW: January 5, 1981

ACTION: Not Authorized for Construction. See Comments

COMMENTS:

1. Several safety items for the chlorine system are needed:
 - viewing window for chlorine room.
 - ventilator mounted with intake near floor of chlorine room.
 - light and ventilator switches mounted outside the chlorine room.
 - safety chains for holding the chlorine cylinders upright.
2. Ten States Standards require that where pumps are installed, a minimum of two units shall be installed with either unit capable of supplying peak demand.
3. It is noted that the proposed pump system will be extremely inefficient, resulting in very high operating costs since a high horsepower pump will be operating continuously, even at zero flow. Were smaller pumps considered?
4. No permit can be issued until the foundation design for the storage tank is received.
5. The Permit to Construct, when issued, will contain a requirement that the water well be tested for yield and drawdown and be capable of providing a sustained yield of 130 gpm.

A, B, C

PERMIT TO CONSTRUCT

New

Permit No. 80-599RRRR

Renewal

Modified

CLOVIS POINT MINE RESERVOIRS 6 and 7

(Name of Facility)

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

Kerr-McGee Coal Corporation

Caller Box 3014

Gillette, Wyoming 82716

to construct, install, or modify sediment control reservoirs

facility according to the procedures and conditions of the application

No. 80-599RRRR. The facility is located in

Section 16, T.50N., R.71W.

in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

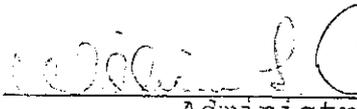
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

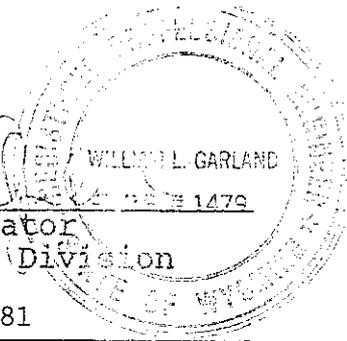
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AUTHORIZED BY:

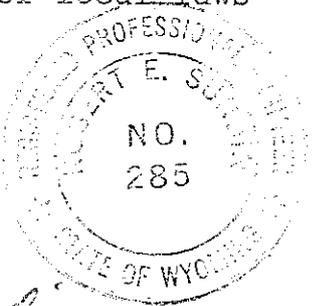


WILLIAM L. GARLAND
1479
Administrator
Water Quality Division
April 8, 1981
Date of Issuance





ROBERT E. SURTAIN
Director
Dept. of Environmental Quality



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

cc: Doyl Fritz
Western Water Consultants
P.O. Box 3042
Sheridan, Wyoming 82801

M-100

PERMIT TO CONSTRUCT

New

Permit No. 80-600

Renewal

Modified

REEVES INDUSTRIAL SUBDIVISION WATER LINE
(Name of Facility)

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

Reeves, Inc.
c/o Timm & Associates
P.O. Box 726

Gillette, Wyoming 82716

to construct, install, or modify a public water supply extension

facility according to the procedures and conditions of the application
No. 80-600. The facility is located in Section 20,
T.50N., R.72W.

in the County of Campbell, in the State of Wyoming. This permit
shall be effective for a period of two (2) years (five (5) years
maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environ-
mental 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 responsi-
bility 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 oper-
ational requirements.

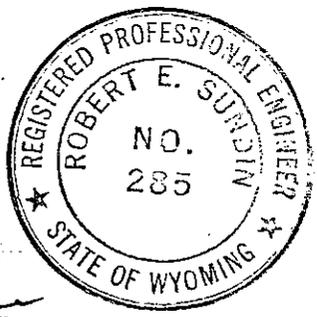
The permittee shall allow authorized representatives from the Depart-
ment of Environmental Quality, Water Quality Division, upon the pre-
sentation of credentials and during working hours, to have access to
inspect the facilities, at the above location, for the purpose of
compliance with the provisions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

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AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
STATE OF WYOMING


Robert E. Sundin
Director
Dept. of Environmental Quality

January 5, 1981
Date of Issuance

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