

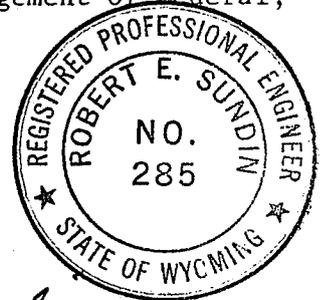
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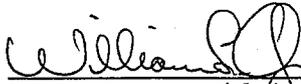
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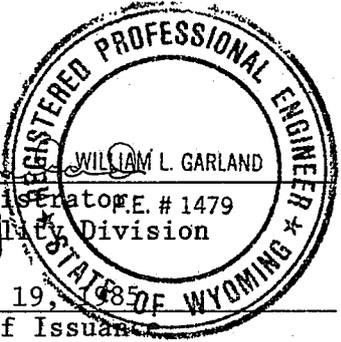
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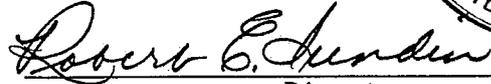
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AUTHORIZED BY:




WILLIAM L. GARLAND
Administrator, E. # 1479
Water Quality Division
April 19, 1985
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 "E. # 1479".


Director
Dept. of Environmental Quality

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

xc: J. E. Hickle, Hickle-Wayland & Assoc.

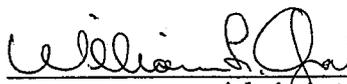
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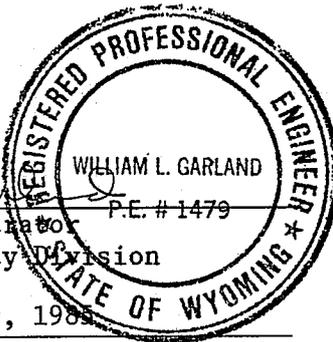
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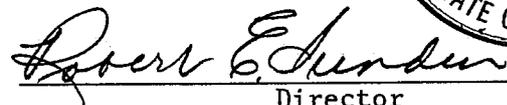
AUTHORIZED BY:



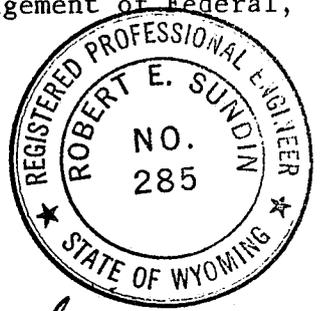
Administrator
Water Quality Division
April 19, 1988

Date of Issuance





Director
Dept. of Environmental Quality



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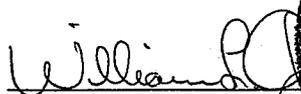
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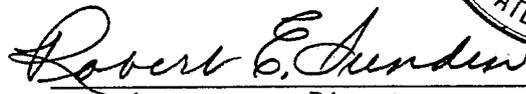
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WILLIAM L. GARLAND
PE # 1479
Administrator
Water Quality Division
STATE OF WYOMING
April 19, 1985
Date of Issuance


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

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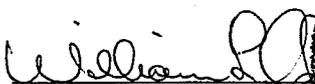
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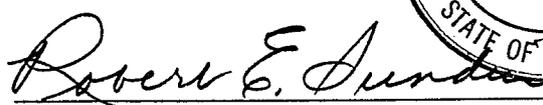
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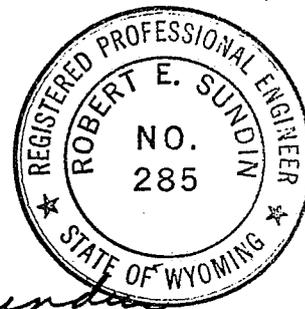
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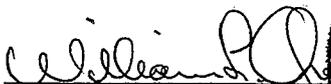
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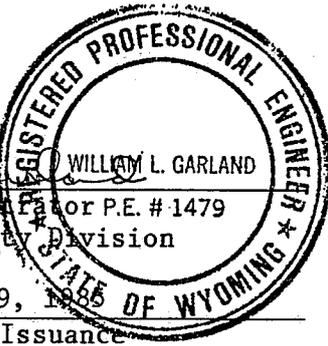
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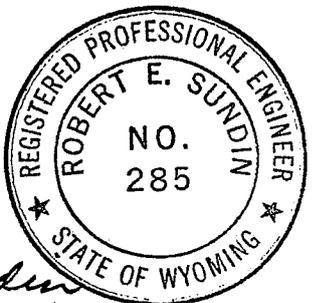
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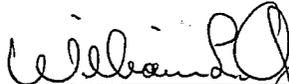
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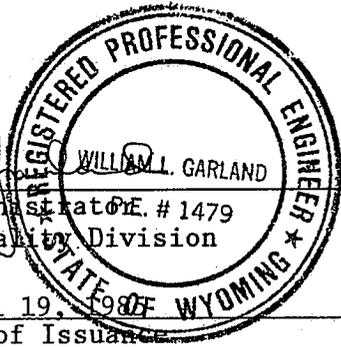
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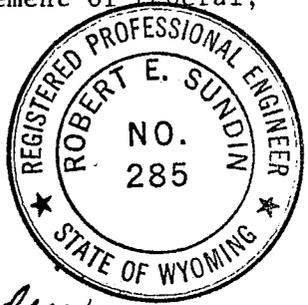
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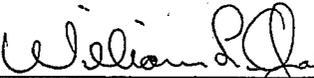
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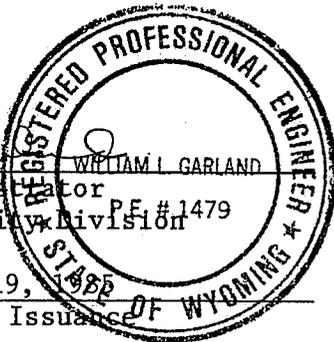
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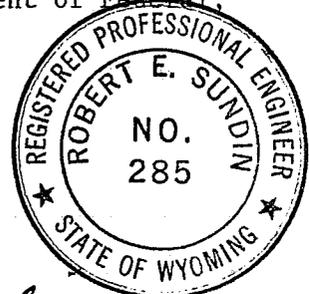
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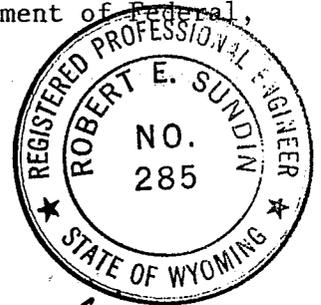
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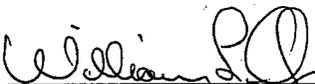
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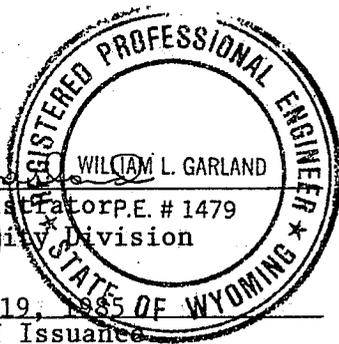
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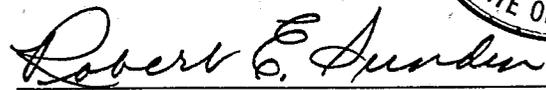
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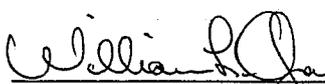
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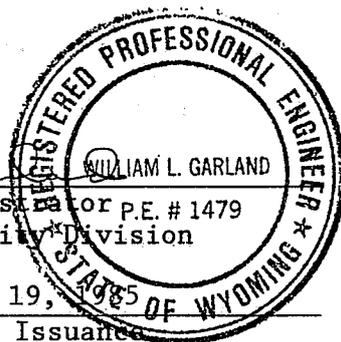
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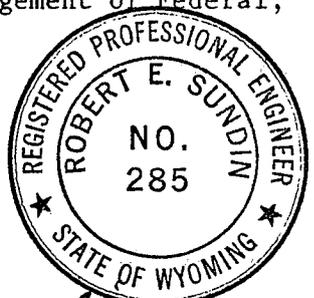


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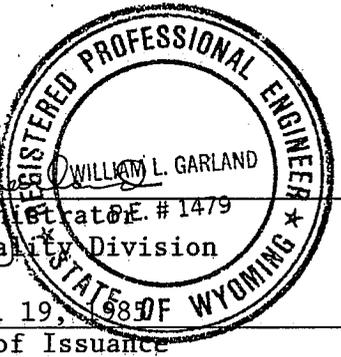
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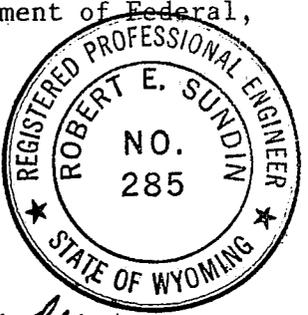
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AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
Administrator E. # 1479
Water Quality Division
STATE OF WYOMING
April 19, 1989
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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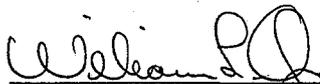
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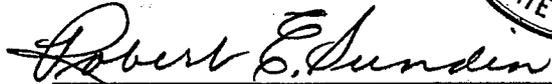
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Water Quality Division
PE # 1479
April 19, 1985
Date of Issuance





ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



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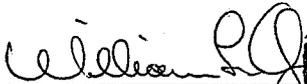
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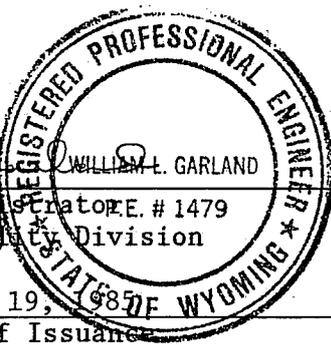
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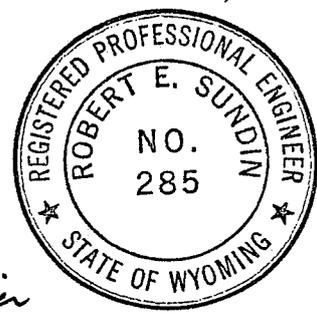
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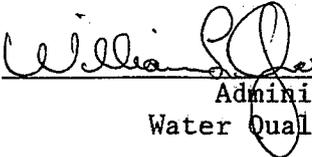
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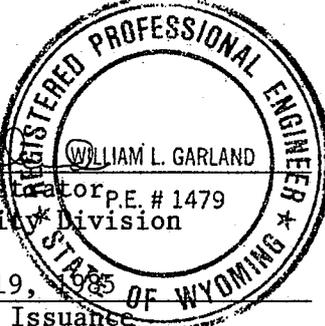
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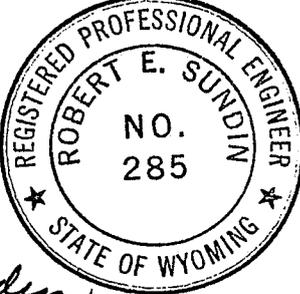


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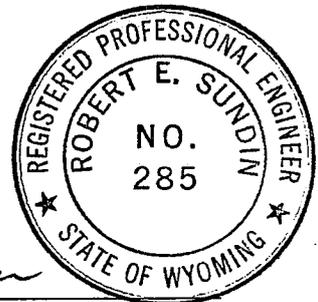
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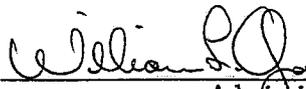
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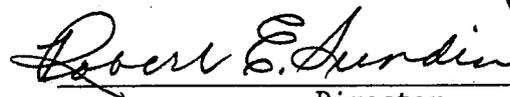
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:




WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
April 19, 1985
Date of Issuance


Director
Dept. of Environmental Quality

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

xc: J. E. Hickie, Hickie-Wayland & Assoc.

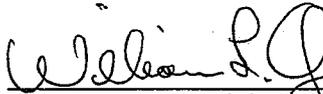
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

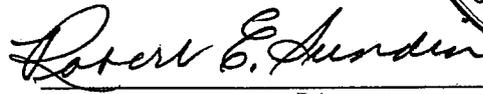
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
STATE OF WYOMING
April 19, 1985
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.

xc: J. E. Hickle, Hickle-Wayland & Assoc.

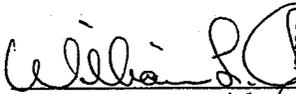
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AUTHORIZED BY:


WILLIAM L. GARLAND
P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING
April 19, 1988
Date of Issuance


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

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xc: J. E. Hickle, Hickle-Wayland & Assoc.

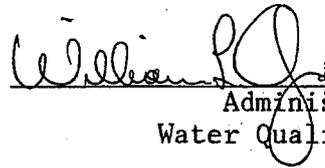
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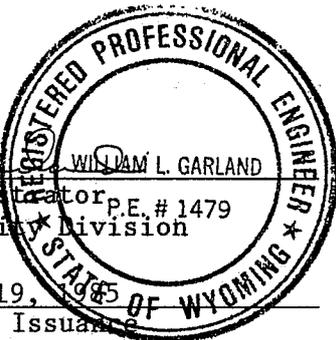
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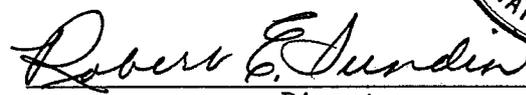
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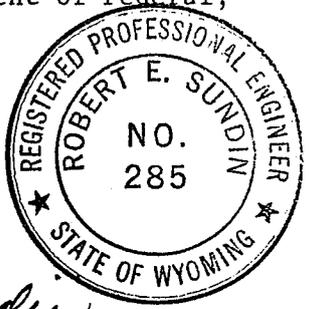
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
April 19, 1985
Date of Issuance




Director
Dept. of Environmental Quality



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

xc: J. E. Hickle, Hickle-Wayland & Assoc.

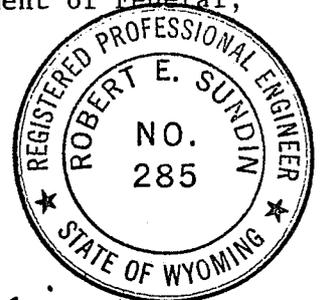
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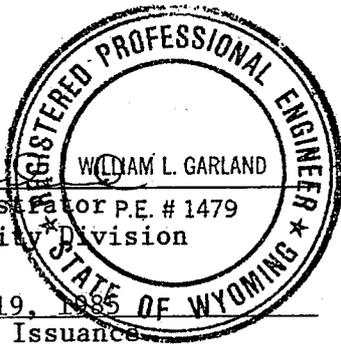
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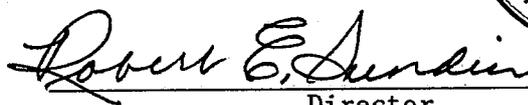
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AUTHORIZED BY:




WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
April 19, 1985
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.

xc: J. E. Hickle, Hickle-Wayland & Assoc.

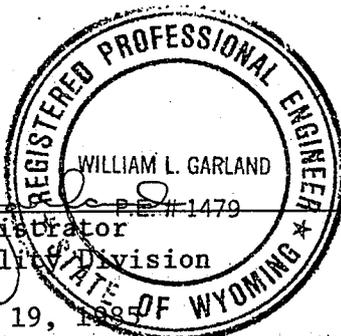
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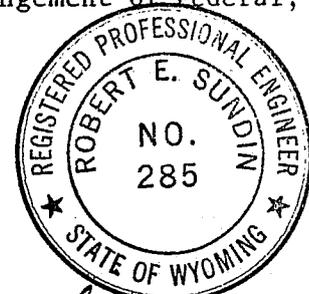
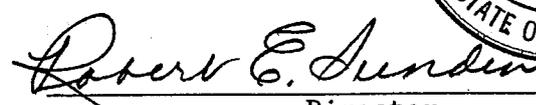
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AUTHORIZED BY:



WILLIAM L. GARLAND
P.E. #1479
Administrator
Water Quality Division
STATE OF WYOMING
April 19, 1995
Date of Issuance



Director
Dept. of Environmental Quality

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J. E. Hickle, Hickle-Wayland & Assoc.

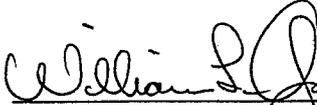
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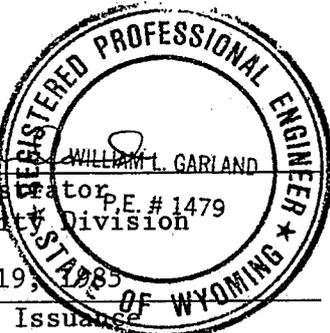
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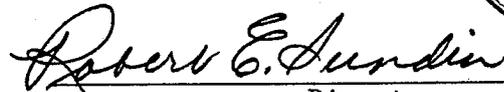
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AUTHORIZED BY:

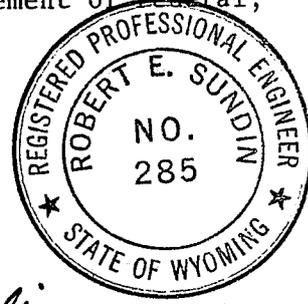


Admin. Director, P.E. # 1479
Water Quality Division
April 19, 1985
Date of Issuance





Director
Dept. of Environmental Quality



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

xc: J. E. Hickle, Hickle-Wayland & Assoc.

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Dry Fork Mine Sediment Reservoirs

ARCHITECT OR ENGINEER: J. E. Hickle, Jr.
Hickle-Wayland & Associates
2701-C West 15th
Plano, Texas 75075

WATER QUALITY DIVISION
REFERENCE NUMBERS: 85-49 through 85-71

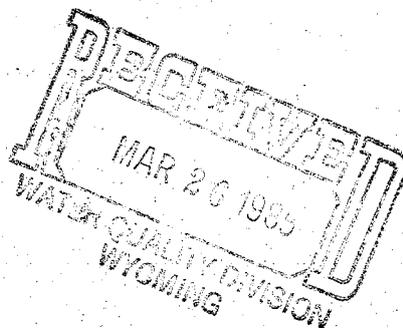
REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: March 22, 1985

ACTION: Not Authorized

COMMENTS:

- 1.) Most of the results of the runoff calculations for the sediment ponds presented in Table 3 agree closely with those derived from our computer program which utilizes the SCS method. Two discrepancies exist. Our calculations reveal runoff volumes of 2.1 and 18.6 ac. ft. for sediment ponds SR-C and SR-E, respectively. This compares with your figures of 1.4 and 12.9 ac. ft. Can you explain the difference?
- 2.) I do not understand why the drainage area, water course length, elevation drop, and CN of SR-D and SR-E as listed in Table 3 are different for the pond volume design versus the spillway design. Perhaps this will help explain the discrepancy noted in comment number 1.
- 3.) The estimated soil loss in tons/year listed in Table A-1 is not obtainable from the USLE parameters given in the Table. Also, the tons/year do not agree with the ac. ft./year listed.
- 4.) The soil loss calculations for SR-F are not included in Table A-1.
- 5.) Are the sedimentation reservoirs going to receive pit water? If so, has this been taken into account in the design of the ponds?
- 6.) Your NPDES discharge permit will require flow measurement at all discharge points. Please show that this capability exists for the effluent pipes from the reservoirs. The flow measuring device must be accurate within 10%.



Dry Fork Mine Sediment Reservoirs
DEQ Reference Numbers 85-49 thru 85-71
March 22, 1985
Page Two

- 7.) I understand you have applied for an NPDES discharge permit. What is the Permit Application number? I will enter it on the Permit to Construct application sheet.
- 8.) Some additional construction details are needed for the sedimentation reservoirs:
 - Material and construction specifications for dikes built above grade.
 - Seeding of exterior dike slopes.
 - Riprap or erosion control for interior dike slopes unless it can be shown that erosion will not occur. (Incised ponds and ponds with less than 2.0 acres of surface area are exempt.).
 - Anti-seep collars for discharge pipes protruding through dikes.
- 9.) SRP-G does not show a control wheel for the discharge pipe canal gate. How will the gate be controlled?

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 601
SHERIDAN, WYOMING 82801

PROJECT: Dry Fork Mine Sediment Reservoirs

ARCHITECT OR ENGINEER: J. E. Hickle, Jr.
Hickle-Wayland & Associates
2701-C West 15th
Plano, Texas 75075

WATER QUALITY DIVISION
REFERENCE NUMBERS: 85-49R through 85-71R

REVIEWING ENGINEER: Rich Ruyle *RR*

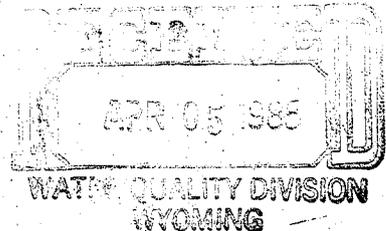
DATE OF REVIEW: April 4, 1985

ACTION: Not Authorized

COMMENTS:

- 1.) Table 3 now lists acceptable runoff volumes for SR-C and SR-E. The changes must be included in the plan sheets for the reservoirs. Please make the appropriate changes on the drawings and in the capacity charts.
- 2.) Provisions for anti-seep collars are still not included on the discharge piping from all of the ponds.
- 3.) Do you have any more information on pit water pumpage and treatment? Do you know what size pump will be used in the pit sump?
- 4.) I noticed what I believe is a typographical error on sheet 5 for SR-B. Cross-section B-B shows a spillway crest elevation of 4291.15. I believe this should be 4292.0.
- 5.) I have noticed a wastewater treatment plant and oily water pond on sheet 10. Please be advised that these will require a Permit to Construct prior to being built.

xc: Ted Rybicki



WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

Let to
Sherridan
3-12-85

APPLICATION NUMBER 85-49 through 85-71

DATE SUBMITTED FOR REVIEW 3-11-85

NAME AND LOCATION OF FACILITY Dry Fork Mine Reservoir &
Temporary Diversion Channels
S 19, 24, 25, 30, 31, 35, 36 - T 51, R 72
Campbell Co.

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Richard Lenny
TITLE Eng. Eval
DATE 3-12-85

ACCEPTED FOR RECORD 3/12/85
(Date)

ajm
Groundwater Control Supervisor

2-25-85

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-72

MA 14542

Pershing & Henderson Watermain Update
 (Name of Facility)

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

Cheyenne Board of Public Utilities

2100 Pioneer Avenue

Cheyenne, WY 82003

to construct, install, or modify a municipal water distribution improvements facility according to the procedures and conditions of the application No. 85-72. The facility is located in Section 31 and 32, 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.

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

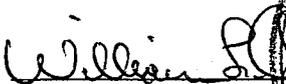
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

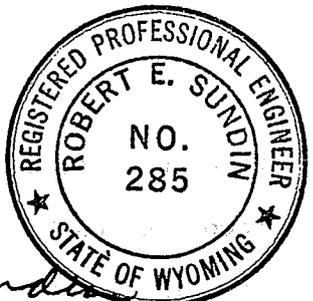
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AUTHORIZED BY:


WILLIAM C. GARLAND
Administrator # 1479
Water Quality Division
February 1981
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Carroll Aamold
Cheyenne Board of Public Utilities
2100 Pioneer Ave.
Cheyenne, WY 82003

3-1-85

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-73R
MA 14542

Equipment Maintenance Shop and Supporting Facilities - Peacekeeper Project
(Name of Facility)

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

Base Civil Engineer

90 CSG/DE

F.E. Warren AFB, WY 82005

to construct, install, or modify a public water supply distribution system and waste-water collection system with an oil/water separator facility according to the procedures and conditions of the application No. 85-73R. The facility is located in Section 22, T14N, R67W 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.

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

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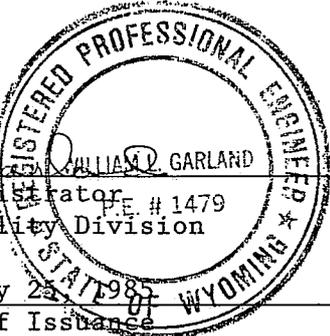
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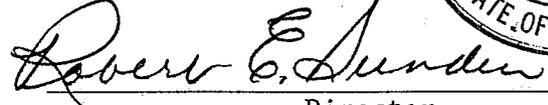
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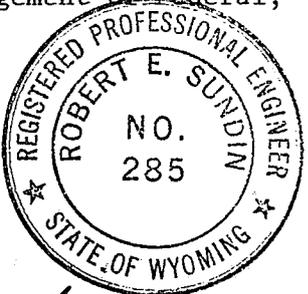
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM GARLAND
Administrator, P.E. # 1479
Water Quality Division
February 25, 1985
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Kenneth Moore
Banner Associates, Inc.
P.O. Box 550
Laramie, WY 82070

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Equipment Maintenance Shop and Supporting Facilities, Peacekeeper Project, Laramie Co.

ARCHITECT OR ENGINEER: Kenneth Moore, Banner Associates, Inc.
P.O. Box 550, Laramie, WY 82070

APPLICANT: Base Civil Engineer
90 CSG/DE, F.E. Warren AFB, WY 82005

WATER QUALITY DIVISION REFERENCE NUMBER: 85-73

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

DATE OF REVIEW: February 15, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide legal description for project location.
2. Parts 5.1.7 and 5.1.8, page 2D-6, Specifications. Filament Wound and Centrifugally Cast Reinforced Thermosetting Resin Pipes are not currently authorized for water distribution pipe in Wyoming unless it meets AWWA Specification C950. If they do, add AWWA Specification C950 to existing specifications. Otherwise, remove these pipe specifications from authorized pipe material listing.
3. Part 6.3.1, page 2D-12, Adjacent Facilities, Sewer Lines. Minimum horizontal separation shall be 10 feet where the water main is less than 18 inches (not 12 inches) above the elevation of the sewer. Minimum vertical separation shall be 18 inches at crossings. Joints in sewers at crossings shall be located at least 10 feet from water mains. The upper line of a crossing shall be specially supported. Where vertical and/or horizontal clearances cannot be maintained, the sewer shall be placed in a separate conduit pipe.
4. Part 7.2, page 2D-19, Leakage Test. Show how stated leakage equation, $L=0.000135NDX$, simplifies from the standard AWWA C600, Section 4, Hydrostatic Testing Equation:

$$L = \frac{SD\sqrt{P}}{133,200}$$

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-74R
 MA 14543

Canister Processing Facility and Open Storage - Peacekeeper Project
 (Name of Facility)

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

Base Civil Engineer

90 CSG/DE

F.E. Warren AFB, WY 82005

to construct, install, or modify a public water supply distribution system and waste-water collection system with an oil/water separator facility according to the procedures and conditions of the application No. 85-74R. The facility is located in Section 15, T14N, R67W 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.

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

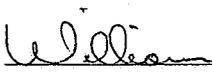
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

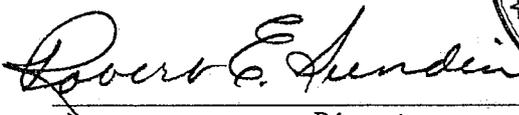
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

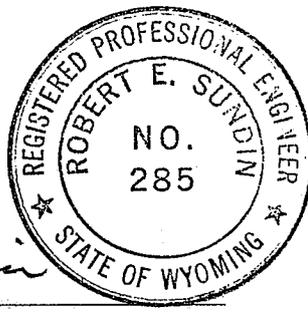
AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator #1479
Water Quality Division
STATE OF WYOMING
February 25, 1988
Date of Issuance



Director
Dept. of Environmental Quality



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

cc: Kenneth Moore
Banner Associates, Inc.
P.O. Box 550
Laramie, WY 82070

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Canister Processing Facility and Open Storage, Peacekeeper Project, Laramie Co.

ARCHITECT OR ENGINEER: Kenneth Moore, Banner Associates, Inc.
P.O. Box 550, Laramie, WY 82070

APPLICANT: Base Civil Engineer
90 CSG/DE, F.E. Warren AFB, WY 82005

WATER QUALITY DIVISION REFERENCE NUMBER: 85-74

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

DATE OF REVIEW: February 15, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Parts 5.1.7 and 5.1.8, page 2D-6, Specifications. Filament Wound and Centrigugally Cast Reinforced Thermosetting Resin Pipe. These pipe materials are not currently authorized for water distribution pipe in Wyoming unless it meets AWWA Specification C950. If they do, add AWWA Specification C950 to existing specifications. If they don't, remove from authorized materials listing in specifications.
2. Part 6.3.1, page 2D-12, Adjacent Facilities, Sewer Lines. Minimum horizontal separation shall be 10 feet where the water main is less than 18 inches (not 12 inches) above the elevation of the sewer. Minimum vertical separation shall be 18 inches at crossings. Joints in sewers at crossings shall be located at least 10 feet from water mains. The upper line of a crossing shall be specially supported. Where vertical and/or horizontal clearances cannot be maintained, the sewer shall be placed in a separate conduit pipe.
3. Part 7.2, page 2D-19, Leakage Test. Show how stated leakage equation, $L=0.000135NDX$, simplifies from the standard AWWA C600, Section 4, Hydrostatic Testing Equation:

$$L = \frac{SD\sqrt{P}}{133,200}$$

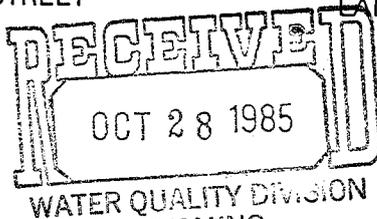


Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144



October 25, 1985

Chevron Chemical Company
ATTN: J.P. Creagh, Environmental
& Health Supervisor
505 Broadway
Rock Springs, WY 82901

RE: Chevron Gypsum Storage Impoundment Permit No. 85-75R

Dear Joe:

The plans and specifications for the gypsum water return pump station and the seepage water return pump station for the above project have been reviewed and determined to meet the minimum design standard for the State of Wyoming. The design of these facilities is therefore acceptable to this department. In addition, by approving these plans and specifications this satisfies the first condition of the permit to construct referenced above. Please retain a copy of this letter with the permit to construct as proof of acceptance.

Would you please submit an additional copy of these plans for our files.

Sincerely,

Bill Locke, P.E.
Water Quality Engineer

BL/jw

413 ✓

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-75R
Conditions on Permit
MA-14689
MA-14542

Chevron Gypsum Storage Impoundment
(Name of Facility)

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

Chevron Chemical Company

505 Broadway

Rock Springs, WY 82901

to construct, install, or modify a gypsum byproduct storage impoundment,
non-process make up water reservoir, seepage collection ditch and
pumpback station and facility according to the procedures and conditions of the
monitoring wells
application No. 85-75R. The facility is located in

Sec. 16, 17, T18N, R104W

in the County of Sweetwater,

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.

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

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

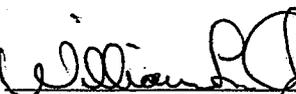
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

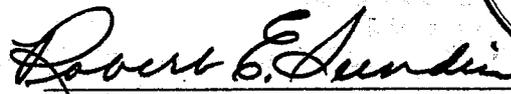
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator, P.E. # 1479
Water Quality Division
STATE OF WYOMING
April 27, 1990
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.

* CONDITIONS ON PERMIT *

1. The water level in the seepage collection ditch will be controlled by pumping. Details and specifications for the pump station must be submitted and accepted by this department prior to construction.
2. Water Quality Rules and Regulations, Chapter III, stipulates the duration of construction permits shall not exceed five (5) years from date of issuance. This "Permit to Construct" will be effective for five (5) years, which shall allow the gypsum stack to be developed to an elevation of 6,630 feet. Upon expiration of "Permit to Construct" No. 85-75, a new application for increased gypsum stack development shall be submitted. The submittal shall evaluate the effects this facility has had on waters of the State.
3. When operations commence, water in the seepage collection ditch shall be sampled and analyzed to evaluate the facility's performance. The sampling shall be done on a routine basis and results submitted with the quarterly sampling reports.

cc: Kate Laudon

REVIEW OF PLANS AND SPECIFICATIONS

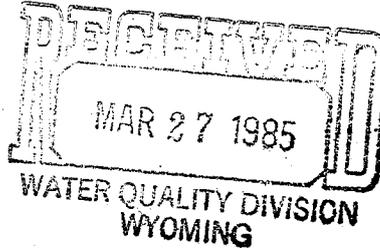
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Chevron Gypsum Storage Area

ENGINEER: John E. Garlanger
Ardaman and Associates, Inc.
P.O. Box 13003
Orlando, FL 32859

OWNER: Chevron Chemical Co.
ATTN: Dean Forsgren
505 Broadway
Rock Springs, WY 82901



WATER QUALITY DIVISION REFERENCE NUMBER: #85-75

REVIEWING EVALUATOR: Jack Bedessem, Kate Laudon

DATE OF REVIEW: March 20, 1985

ACTION: Not authorized.

COMMENTS: The plans, specifications and design information for this project has been reviewed. I would like to mention that we were very impressed with the completeness and content of the design information.

As with any project a few items need to be addressed and/or resolved before a "Permit to Construct" can be issued.

1. Three complete sets of plans, specifications and design information must be submitted. The plans and specifications must be stamped or signed by a registered Wyoming Professional Engineer.

a) Only one copy of the ammendment (Additional boring and ditch relocation) has been received by this department. Two additional copies are needed.

b) Our groundwater section would like to retain one complete set of plans, specifications and design information for their records. Please submit one additional set.

2. The design and construction report (Chapter 5) mentions that sedimentation control during construction will be in accordance with Wyoming DEQ/Water Quality Rules and Regulations Chapter XI. If you are planning to construct additional runoff/sedimentation control pond(s) a "Permit To Construct(s)" must be obtained.

3. Chapter 2 of the design and construction report indicates that the site structural geology dips to the west. The location of piezometers PZB1-4 are located south west of the gypsum storage area. Clarify and/or address provisions for monitoring potential seepage to the west-north-west.

AC

Draw of Plans and Specifications

Chevron Gypsum Storage Area

March 20, 1985

Page Two

4. Determination of background water quality for the potentially affected aquifer should include the parameters indicated in Chapter 6 of the design report. It should be clarified that to establish background groundwater quality a minimum of two separate sampling events be performed. The sampling events shall produce consistent analytical results or additional sampling will be required until consistent results are obtained.

5. Chapter 6 also indicates that routine groundwater sampling will include monitoring parameters: specific conductance, pH, chloride, sulfate, flouride.

Leaching test results indicate natural ground soils are very effective in attenuating leachate flouride concentrations. Also neutralization of the flousilicic acid should reduce the flouride content of the gypsum process water.

With this design information it may be more efficient to monitor for a more mobil parameter such as zinc, TDS or another trace metal.

6. The laboratory testing program described in Chapter 3 indicates the use of acid process water from Chevron's Salt Lake City plant. Once the Rock Springs plant has been put on line, the gypsum process water should be analyzed and comparatively evaluated for its potential differences and effects.

7. A Wyoming DEQ/Water Quality Division "Permit To Construct" can be issued for a maximum of five years. As discussed during our November 29, 1984 meeting, this permit can be written to reflect increasing the gypsum storage area elevations for the initial five years. Address the gypsum stack elevation at the end of the five year period.

When this initial "Permit To Construct" (85-75) expires (five years) a new application must be submitted. This submittal must evaluate the effects this facility has had on waters of the state.

8. The design report, Chapter 4 indicates that seepage will be controlled by an open relief ditch. The water level in the ditch is to be controlled by pumping. The plans should detail the pump(s) and location. Address pumping rates in relation to seepage and seasonal groundwater variations. Also address alternate power sources, alarm systems, spare pumps, etc. in the event of some failure.

Submit the required information to this office in triplicate. If you have any questions please feel free to contact Kate Laudon or me.

JB/KL:dlb

Kate
Kept 1 copy

Returned to
Laudon
3/26/85

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-75

DATE SUBMITTED FOR REVIEW 2-14-85

NAME AND LOCATION OF FACILITY Chevron Phosphate Plant
Sec. 8, 9, 16, 17, 21 T18N R104 W
Sweetwater County

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Kate Laudon
TITLE Engineer Evaluator
DATE 3-25-85

ACCEPTED FOR RECORD 3/25/85
(Date)

[Signature]
Groundwater Control Supervisor

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor

FROM: Kate Laudon, Groundwater Engineering Evaluator *RgZ*

DATE: March 25, 1985

SUBJECT: Groundwater Review, Chevron Phosphate Plant Gypsum Impoundment, WQD
Ref. No. 85-75

Chevron has applied for a permit to construct a gypsum storage facility, an auxiliary water impoundment, and a seepage control ditch at their phosphate plant located in parts of Sections 8, 9, 16, 17 and 21, T18N, R104W, in Sweetwater County.

Gypsum stored at the facility will be a by-product of phosphoric acid production. Phosphoric acid is used in the manufacture of fertilizer. Gypsum will be slurried to the disposal area where it will be deposited through sedimentation.

Seepage of process water from the gypsum storage area will be intercepted by a seepage collection ditch which will be constructed down gradient from the gypsum pond. Water collected in the ditch will be pumped back to the storage area for reuse. An example of the expected process water quality is attached. Parameters of concern include: chloride, sulfate, flouride, iron, manganese, aluminum, cadmium, chromium, vanadium, zinc, TDS, pH, and ammonia.

Groundwater in the vicinity occurs in the highly weathered upper portion of the Blair formation, and the overlying alluvium. Water level data presented in the permit application indicate that groundwater flows toward the south discharging to Sweetwater Creek. The Blair formation dips west to northwest at about 5°. This could result in a component of groundwater flow in that direction, although the report does not address that possibility.

The seepage collection ditch will be constructed south of the gypsum impoundment. The ditch will be excavated through the weathered zone, and is expected to act as a local groundwater sink. Four monitor wells will be installed between the seepage collection ditch, and Sweetwater Creek. Once background water quality has been established, these wells will be monitored quarterly for water levels, and for a list of indicator parameters.

The following concerns should be addressed by the applicant before a permit is issued.:

1. The applicant should determine if groundwater flow is occurring down-dip towards the west. Additional monitor wells may be required along the western side of the gypsum impoundment to detect seepage in that direction.
2. The leaching tests presented in the permit application indicate that flouride will be relatively immobile under the expected field conditions. A more mobile constituent such as zinc, and TDS should be added to the list of indicator parameters.

3. Once the gypsum impoundment and seepage collection ditch are operational, samples of the wastewater should be collected periodically from both the gypsum storage area and the seepage collection ditch.

Table 3.5

PROCESS WATER QUALITY*

<u>Parameter</u>	<u>Acid Water**</u>
Calcium	1019
Magnesium	414
Sodium	2068
Potassium	340
Chloride	2892
Sulfate	2300
Bicarbonate	<1.22
Carbonate	0
Orthophosphate, P	2720
Fluoride	2320***
Boron	2.83
Iron	106
Manganese	1.6
Aluminum	83.8
Arsenic	0.01
Cadmium	0.10
Chromium	6.72
Copper	.82
Lead	.02
Lithium	1.69
Mercury	<0.0005
Selenium	<0.005
Silver	<0.01
Vanadium	1.10
Zinc	31.1
Gross α , pCi/l	332
Gross β , pCi/l	748
TDS	22,190
TOC	18.3
pH (lab)	1.8***
Conductivity (lab) μ mhos	23,500
Temperature (field), $^{\circ}$ C	—
Carbon Dioxide	2250
NO ₃ -N	1.68
NH ₄ -N	212
Ra 226, pCi/l	18.5 [±] 2.8
Ra 228, pCi/l	0.4 [±] .2
Silica	0.7
Total Alkalinity	1

* Analyses were performed by Orlando Laboratories, Inc., Orlando, Florida.

** All units are mg/l unless otherwise noted.

*** Present plans call for neutralization of fluosilicic acid at the Rock Springs Plant to pH 4, which will reduce the acidity and fluoride content of the gypsum process water substantially below that measured for the Salt Lake City process water.

85-76
MA 14542
JW



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

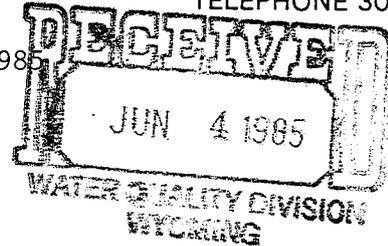
Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

March 20, 1985



Mr. Jim Short
Marathon Oil Company
P.O. Box 2659
Casper, WY 82602

RE: "As Built" Marathon/Tierney S24
Evaporation Pit-Cell #1 (3.5 acres)
(#85-76) Sec. 24, T19N, R94W
Sweetwater County, Wyoming

Dear Mr. Short:

The plans and specifications have been reviewed and they appear to meet the minimum design standards for the State of Wyoming. Acceptance of this facility is based upon the following conditions:

1. These ponds are designed for the disposal of produced water from natural gas wells. Authorization for the disposal of any other types of wastes must be obtained from this office.
2. Hazardous wastes as defined by the USEPA or the State of Wyoming may not be disposed of in these ponds.
3. An approved leak detection system shall be installed with the expansion of this facility or by September 1, 1985 whichever should come first. Once the leak detection system is installed it shall be monitored at least once per month.
4. A log shall be kept with the following information: quantity of each load, source and location of each load, the haulers name and date.

Retain this letter as verification that this facility has been accepted, with the above conditions, by the Wyoming Department of Environmental Quality. A "Permit to Construct" cannot be issued owing to the fact that the facility has already been constructed.

If you have any questions, please feel free to contact Jack Bedessem or me.

Sincerely,

Steven P. Gerber, P.E.

cc: Plans #85-76
Tom Williams, DEQ/WQD Cheyenne
File (4)

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

returned to
Lander
3-28-85

APPLICATION NUMBER (85-130)
84-573 AND 85-76

DATE SUBMITTED FOR REVIEW 2/22/85

NAME AND LOCATION OF FACILITY MARTINUS TIERNEY SZ4
EVAPORATION FACILITY
SHEETWATER COUNTY, WYOMING

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Thomas R. Williams
TITLE GROUNDWATER COMPLIANCE SPECIALIST
DATE 3/28/85 E.I.T. NO. 2242

ACCEPTED FOR RECORD 3/28/85 _____
(Date) Groundwater Control Supervisor

Reviewed by Tom
Williams Lander
Supervisor by PJ
Marion WY PF #1803

MEMORANDUM

TO: Steven P. Gerber, Water Quality Engineering Evaluator

THROUGH: ^{AW} A. J. Mancini, Groundwater Control Supervisor

FROM: Thomas R. Williams, Groundwater Compliance Specialist TRW

DATE: March 27, 1985

SUBJECT: Addendum to Comments on Permit to Construct Application Numbers 84-573 and 85-76 for the Tierney Evaporation Facility in Sweetwater County, Wyoming

The 3 1/2 acre evaporation pond applied for in permit application number 85-76 has already been constructed. A synthetic liner was installed without a leak detection system. The leak detection program for the expanded ten acre evaporation pond site applied for in permit to construct application number 84-573 should also address potential leakage from the 3 1/2 acre evaporation pond. Plans and specifications of the pond leakage monitoring program should be submitted to the Water Quality Division for review.

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 84-573 and 85-76

DATE SUBMITTED FOR REVIEW 2/22/85

NAME AND LOCATION OF FACILITY MARATHON / TIERNY SZ4
EXPANSION OF EVAPORATION PIT
SWEETWATER COUNTY, WYOMING

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Thomas R. Williams
TITLE GROUNDWATER COMPLIANCE SPECIALIST
DATE 3/26/85

ACCEPTED FOR RECORD 3/24/85
(Date)

gjm
Groundwater Control Supervisor

*Reviewed by Tom Williams
under supervision of
BY PE # 1803*

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Steven P. Gerber, Water Quality Engineering Evaluator

THROUGH: ^{AM} A. J. Mancini, Groundwater Control Supervisor

FROM: Thomas R. Williams, Groundwater Compliance Specialist TRW

DATE: March 25, 1985

SUBJECT: Comments on permit to construct application numbers 84-573 and 85-76 for the Tierney Evaporation Facility in Sweetwater County, Wyoming

Tony Mancini and I have reviewed permit to construct application numbers 84-573 and 85-76 for the Tierney Evaporation Facility in Sweetwater County, Wyoming. It is out understanding that the 3 1/2 acre evaporation pond applied for in permit application number 85-76 has already been constructed. Therefore, we can only address our comments to the expanded ten acre evaporation pond site applied for in permit application number 84-573.

All of the exploratory boreholes drilled at the ten acre site encountered silty clay with numerous calcite and gypsum crystals and small nodules. Immediately below this silty clay interval is an intensely weathered mud/claystone that in turn overlies an unweathered claystone.

The configuration of the evaporation pond system at the ten acre site has not been specified in the permit application. After discussing this application with Steven Gerber and Jack Bedessem of the Water Resources Division, Lander District Office, it was learned that the expanded ten acre site will include an L-shaped four cell evaporation pond system that will lie north and west of the already constructed 3 1/2 acre evaporation pond. The applicant proposes to install a natural soil liner in the four cell pond system.

Our experience with evaporation ponds lined with natural soils is that they will leak. The silty clay contains both calcite and gypsum that can go into solution and alter the natural permeability of the soil liner. Also, although the weathered claystone has a permeability of 3.9×10^{-8} cm/sec in laboratory tests, similar sites constructed using a weathered fine-grained material such as this claystone have seeped. Perhaps this is due to the heterogeneous nature of the lining material.

Our concern is not that groundwater resources will be impacted. Information provided in the application indicates that usable groundwater is approximately 150 feet below the surface at this site. However, leakage from the pond could become perched immediately above the unweathered claystone and saturate the intensely

weathered diopside. Sandstone lenses such as those encountered in locations 1 through seven could transmit this perched pond water away from the site to surface of a stream.

To ensure that potential pond leakage can be monitored, we recommend that a leak detection system be installed. This system should be capable of determining which of the four cells is leaking. This can be accomplished in a number of ways, two of which are:

1. Providing a leak detector beneath the liner of each of the four cells;
2. Installing monitoring wells at close enough intervals to detect any pond leakage. If any leakage is ever detected, additional wells will need to be installed to determine the source of the leakage.

Plans and specifications of the leak detection system should be submitted to the Water Quality Division for review.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
STATE OF WYOMING
April 26, 1985
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.

CONDITION

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 facilities authorized by this permit will be operated until services are available through the regional system. At that time, these facilities will be abandoned or integrated into the regional system.

cc: Wayne R. Haug
Haug Engineering & Surveying
c/o Quality Service, Inc.
P.O. Box 2848
Gillette, Wyoming 82716

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

Norma-
Returned to
Sheridan
3-27-85

APPLICATION NUMBER 85-77

DATE SUBMITTED FOR REVIEW 2-28-85

NAME AND LOCATION OF FACILITY High View Mobile Home Park
Sec 2 T 49N R 72W
Campbell Co.

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Richard Leann
TITLE Eng. Seal
DATE 3-27-85

ACCEPTED FOR RECORD 3/27/85
(Date)

AM
Groundwater Control Supervisor

** DATA TAKEN FOR ADDITION TO
CLASS V (septic system > 2000 gal/day)
Inventory.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: High View Mobile Home Park
Sewer Leach System Expansion

ARCHITECT OR ENGINEER: Haug Engineering & Surveying
c/o Quality Services, Inc.
P.O. Box 2848
Gillette, Wyoming 82716

WATER QUALITY DIVISION

REFERENCE NUMBER: 85-77

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: February 26, 1985

ACTION: Not Authorized

COMMENTS:

- 1.) Since we are not certain just how frequently the lift station pumps will come on, some means of protecting the pressure line from freezing is needed. Provisions should be made for draining the pressure line back to the lift station tank after each pump cycle. This will entail eliminating the check valve or providing a weep hole in the tank piping and putting the tank discharge piping on a single grade. Another option would be to place the discharge piping at sufficient depth to prevent freezing and use valve boxes instead of a manhole for the gate valves.
- 2.) If there are any elbows in the pressure line, details should be submitted to verify that they are adequately restrained or blocked.
- 3.) If more than 50 trailers are served by the lift station, we should receive a statement that a portable generator or other alternate power source is available for the lift station.
- 4.) The Permit to Construct will contain a condition that the mobile home park be hooked up to city sewer at the earliest possible date.

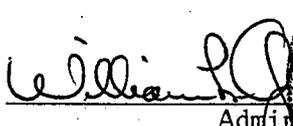
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

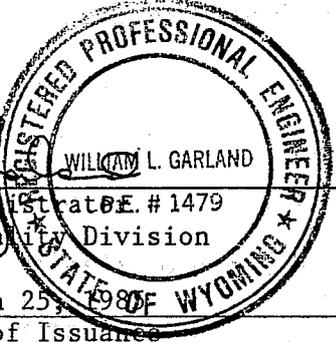
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

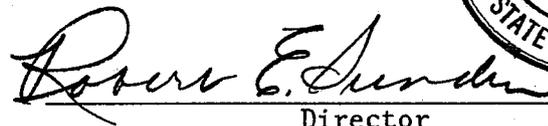
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

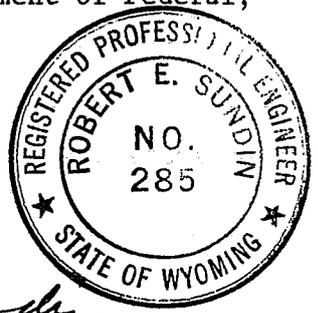
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
March 25, 1980
Date of Issuance




Director
Dept. of Environmental Quality



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

CONDITION

- 1) The inside face of the reservoir embankment must be revegetated for erosion protection.

xc: Frank Ferris

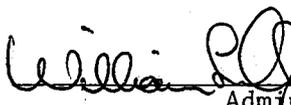
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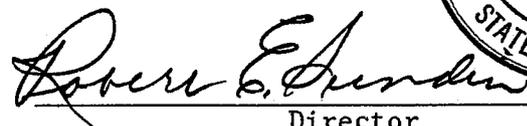
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator #1479
Water Quality Division
STATE OF WYOMING
March 25, 1988
Date of Issuance


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

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xc: Frank Ferris

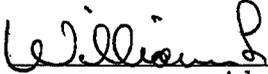
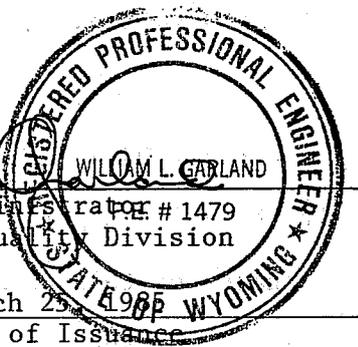
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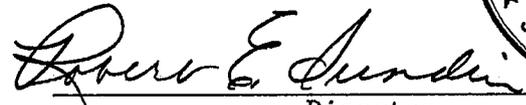
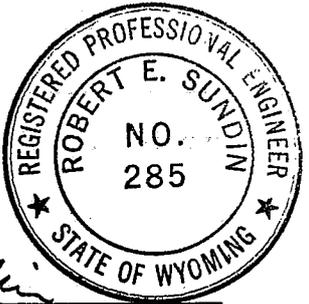
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
March 25, 1988
Date of Issuance



Director
Dept. of Environmental Quality

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CONDITION

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xc: Frank Ferris

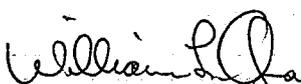
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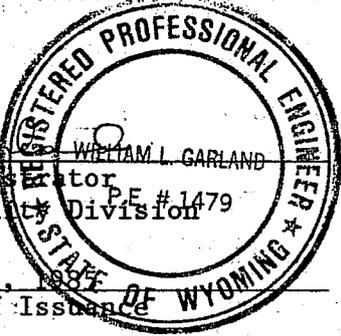
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

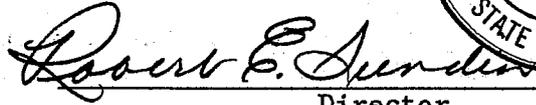
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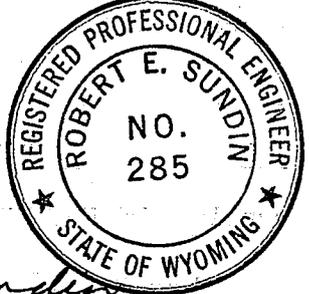
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AUTHORIZED BY:


Adminisrator
Water Quality Division
PE # 1479
April 3, 1987
Date of Issuance




Director
Dept. of Environmental Quality



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

This permit authorizes you to dispose of 150,000 gallons in six months of treated sewage lagoon waters on the adjoining 45 miles of road, a total possible liquid application of 3 gallons/foot of roadway.

CONDITIONS TO PERMIT TO CONSTRUCT 85-81R

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes, reservoirs, and residences. Further, as indicated on the site plan, roads: In 10½, Rd 13½, and In 12½ shall not receive applications of wastewaters.



THE STATE OF WYOMING

Korona
85-82 RR
MA 14542
ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 13, 1985

Mountain Fuel Resources, Inc.
ATTN: Larry Bodyfelt, P.E.
P.O. Box 1129
Rock Springs, WY 82902

RE: South Baxter Sweetening Plant Evaporation Pond, 85-82RR

Dear Mr. Bodyfelt:

This office has completed its review of the as-built plans, specifications and supporting information for the evaporation pond at the South Baxter Sweetening Plant. The information provided indicates that the construction of the facility meets the intent of the applicable regulations.

The facility as constructed is therefore accepted by this office with the following conditions of acceptance:

1. No hazardous wastes as defined by the U.S. EPA or State of Wyoming shall be placed in this facility. Before any wastes, other than those specified by your application, may be disposed of in this facility, authorization must be obtained from DEQ/WQD.
2. In the event that seepage or a leak is detected or suspected, the DEQ//WQD in Lander must be notified immediately. Investigative or mitigative measures must be accepted by the DEQ/WQD.
3. Should monitoring be required, the results of all groundwater monitoring and analyses shall be submitted to: Tony Mancini, DEQ/WQD, Herschler Building, 122 W. 25th Street, Cheyenne, Wyoming, 82002 within 30 days following each sampling event.
4. The DEQ/WQD shall be contacted prior to the reclamation of this facility. The method of reclamation must be accepted by this department.

Thank you for your cooperation in resolving this matter. Please feel free to contact either Jack Bedessem or me if you have any questions.

Sincerely,

Jeff Hermansky
Jeff Hermansky
Water Quality Evaluator

JH/jw
copy: Plans

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: South Baxter Sweetening Plant Evaporation Pond

ENGINEER: Larry Bodyfelt, P.E.
Mountain Fuel Resources, Inc.
P.O. Box 1129
Rock Springs, WY 82902

OWNER: Mountain Fuel Resources, Inc.
79 South State St.
Salt Lake City, UT 84147

WATER QUALITY DIVISION REFERENCE NUMBER: 85-82R

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: September 4, 1985

ACTION: Not authorized.

COMMENTS:

Thank you for addressing all the questions and comments listed in this offices' March 27, 1985 review letter. Your response has left me with a couple of items that need further clarification:

1. Did your geotechnical engineer give you any indication why groundwater was found in test borings 1 and 2 but not in 3 and 4?

2. The borings where groundwater was encountered must be developed as monitoring wells. After the wells are developed, water samples must be collected and tested for the parameters listed in Table I of Chapter VIII of the Water Quality Rules and Regulations. The samples do not need to be analyzed for the radiological parameters. Please submit the test results.

Thank you for your cooperation. Feel free to contact either Jack Bedessem or me if you have any questions.

JH/jw

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 LINCOLN

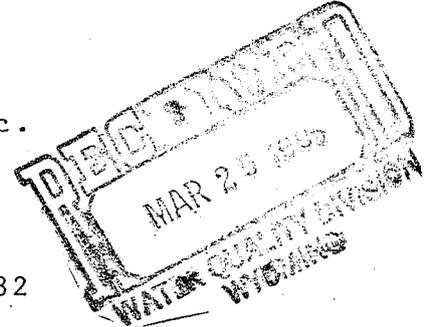
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: South Baxter Sweetening Plant Evaporation Pond
Sec. 16, T.16N., R.104W. *Sweetwater*

ENGINEER: Larry Bodyfelt
1005 D. Street
Rock Springs, WY 82902

OWNER: Mountain Fuel Resources, Inc.
79 South State Street
Salt Lake City, UT 84147



WATER QUALITY DIVISION REFERENCE NUMBER: 85-82

REVIEWING ENGINEER: Steven P. Gerber, P.E. *SPG*

DATE OF REVIEW: March 27, 1985

ACTION: Not authorized.

COMMENTS: An initial review of your plans and specifications has been completed. The following items need to be addressed and/or resolved.

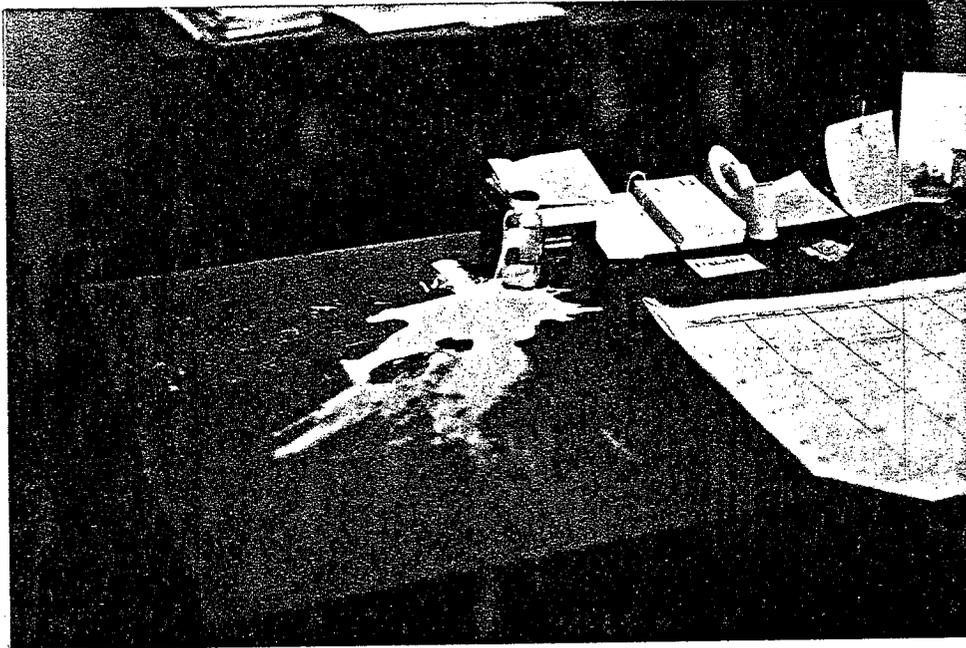
1. Provide a location map showing topography and area drainage. All ponds shall be protected from structural damage during the 100-years flood event.
2. Identify the maximum water level and maximum solids level to be obtained within the pond. In computing the total volume available a minimum freeboard of two feet is required. Also the influent pipe invert should be at least six inches above the maximum operating level of the pond. It appears that the inlet pipes will eventually be submerged by water and solids build up. Discuss what affect this will have on the operation.
3. Provide data on permeability of the native soils! The leak detection system assumes a soil permeability that will direct any leakage to the perforated pipe. Verify that this in fact will occur.
4. Report findings of a visual inspection of the synthetic liner to verify the liner integrity and present condition.
5. Submit evidence to show that the liner is compatible with the wastewater characteristics.
6. A sample of the Sulfa-Check solution was submitted to our office. After sitting on a desk for several days the bottle exploded (See attached photo). Please explain.

Review of Plans and Specifications
South Baxter Sweetening Plant Evaporation Pond
March 27, 1985
Page Two

7. Provide information on the shallowest groundwater elevation on the site.
8. Provide location and status of all wells within a one mile radius of the facility.
9. Prior to reclamation of the site DEQ Solid Waste Management must be notified.

SG:dlb

cc: Kate Laudon, DEQ/WQD Cheyenne
File (2)



Exploded Bottle of Sulfu - Check Solution

Returned
to Landon
3/26/85

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-82

DATE SUBMITTED FOR REVIEW 2-21-85

NAME AND LOCATION OF FACILITY South Baxter Sweetening Plant
Section 16 T16N R104W
Sweetwater County

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Kate Landon
TITLE Engineer Evaluator
DATE 3-26-85

ACCEPTED FOR RECORD 3/24/85
(Date)

gjm
Groundwater Control Supervisor

MEMORANDUM

TO: Jeff Hermansky, Southwest District Engineering Evaluator
FROM: Kate Laudon, Groundwater Engineering Evaluator KQL
DATE: March 26, 1985
SUBJECT: Groundwater Review, South Baxter Sweetening Plant, WQD Ref. No. 85-82

Mountain Fuels Inc. has submitted as-built plans for an evaporation pond at the South Baxter Sweetening plant located in Section 16, T16N, R104W, in Sweetwater County. The following questions should be addressed before the plans are approved:

1. A location map should be provided by the applicant.
2. If the "Sulfa-Check" process is to be substituted for the "Slurry-Sweet" process, an example of the resulting wastewater characteristics should be provided.

3-7-85 JN

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-83R

MA 14592

Town of Wheatland Water Main Replacements
(Name of Facility)

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

Town of Wheatland

600 9th Street

Wheatland, WY 82201

to construct, install, or modify a public water supply distribution system facility according to the procedures and conditions of the application No. 85-83R. The facility is located in Sections 12 & 13, T24N, R68W in the County of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

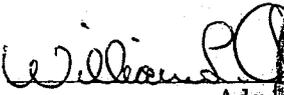
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

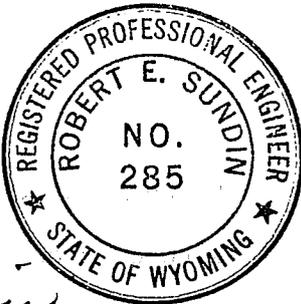
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AUTHORIZED BY:



WILLIAM C. GARLAND
Administrator # 1479
Water Quality Division
March 5, 1985
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: J. Kenneth Kennedy
Kennedy Engineering
P.O. Box 1089
Wheatland, WY 82201

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Town of Wheatland Water Main Replacements, Platte Co.

ARCHITECT OR ENGINEER: J. Kenneth Kennedy, Kennedy Engineering
P.O. Box 1089, Wheatland, WY 82201

APPLICANT: Town of Wheatland
600 9th Street, Wheatland, WY 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 85-83

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

DATE OF REVIEW: February 25, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide two additional copies of the proposed plans and specifications. They must carry the signature or seal of a professional engineer licensed in Wyoming.
2. Section 10.30, Specifications, Page 1 Materials. Ductile iron water pipe must meet AWWA Specification C151. Changes are needed in specifications to reflect this requirement. Words "cast iron" should be changed to indicate ductile iron pipe.
3. No specification was provided for water main/sewer line separation. Minimum horizontal separation shall be 10 feet where the invert of the water main is less than 18 inches above the crown of the sewer line. Minimum vertical separation shall be 18 inches at crossings. Joints in sewers at crossings shall be located at least 10 feet from water mains. The upper line of a crossing shall be specially supported. Where vertical and/or horizontal cleaners cannot be maintained, the sewer or water line shall be placed in a separate conduit pipe.

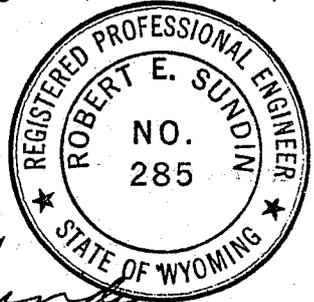
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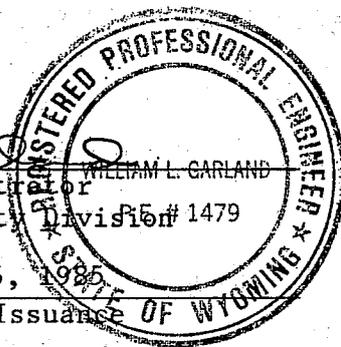
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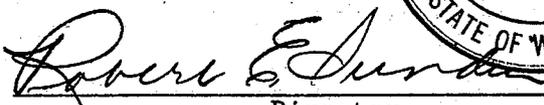
AUTHORIZED BY:





Administrative Director
Water Quality Division # 1479
March 26, 1985
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 L. GARLAND" and the number "# 1479".



Director
Dept. of Environmental Quality

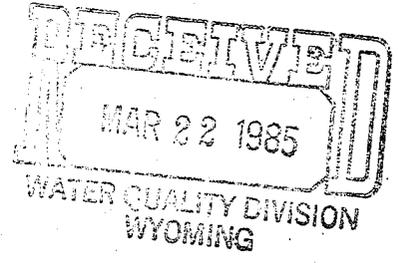
This permit does not supercede the requirements for obtaining any permit from local agencies.

xc: Tom Peterson

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801



PROJECT: Fairview Reservoir, Caballo Mine
ARCHITECT OR ENGINEER: Thomas C. Peterson
The Carter Mining Company
P.O. Box 3007
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBER: 85-84

REVIEWING ENGINEERS: Susan Holmes, Rich Ruyle *SA RR*

DATE OF REVIEW: March 21, 1985

ACTION: Not Authorized

COMMENTS:

- 1) Because Fairview Reservoir will be included in the NPDES permit, the discharge must have provisions for flow monitoring.
- 2) Riprap or other erosion protection is required on the inside face of the embankment, unless justification is provided that excessive erosion will not occur.
- 3) Please provide a typical cross-section of the containment ditches and enough design information to indicate the freeboard and velocity in the ditches for 10-year storm.

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

*Norma
Ret to Standard
3-6-85*

APPLICATION NUMBER 85-84

DATE SUBMITTED FOR REVIEW 2-21-85

NAME AND LOCATION OF FACILITY CARSAUCO Mine Fanview Reservoir
Sec 11 & 12 T48N R71W
Campbell Co.

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED *Richard A. Lennep*
TITLE *Eng Eval*
DATE *2-6-85*

ACCEPTED FOR RECORD *3/6/85*
(Date)

ajm
Groundwater Control Supervisor

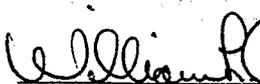
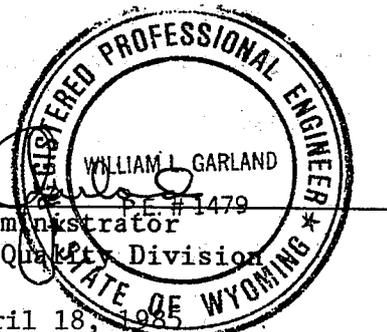
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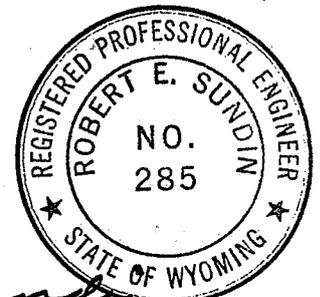
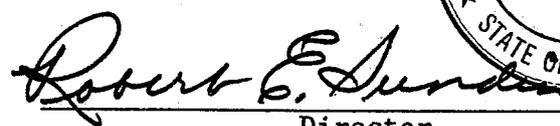
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AUTHORIZED BY:



WILLIAM J. GARLAND
P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING
April 18, 1985
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Engineering Inc. of Wyoming
45 East Loucks, Suite 301
Sheridan, WY 82801

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Ranchester Sewer Line Improvements

ARCHITECT OR ENGINEER: Jim S. Willey
Engineering, Inc. of Wyoming
45 East Loucks, Suite 301
Sheridan, Wyoming 82801

WATER QUALITY DIVISION
REFERENCE NUMBER: 85-85

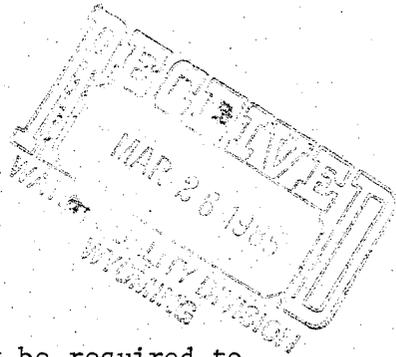
REVIEWING ENGINEERS: Susan Holmes, Rich Ruyle

DATE OF REVIEW: March 25, 1985

ACTION: Not Authorized

COMMENTS:

- 1) It appears that drop connections at MH 8 + 11 may be required to make the connections from the west and south. Please address these invert elevations on the profile or on the detail. A drop manhole is required if the difference in elevation is greater than 24 inches.
- 2) It appears a drop connection may be required at MH 9 + 11 to make the connection from the west. Please address this invert elevation.
- 3) The connections at MHS 3 + 50 = 9 + 43 and 3 + 50 = 15 + 43 should be shown as drop connections or the slope of the pipe increased to reduce the difference in invert elevations at the manholes to less than 24 inches.
- 4) How will the inverts of MHS 0 + 00 (A, B and C) be shaped? Special detail should be shown since these appear to be high points in the sewer line.
- 5) The Sewer Service Connection Detail shows the slope of the 4-inch service at 1/8" per foot minimum. This should be 1/4" per foot.
- 6) The maximum and minimum depths on the service connection are not shown.



Ranchester Sewer Line Improvements

WQD Reference No. 85-85

March 25, 1985

Page Two

- 7) The minimum separation between the sanitary sewer and water main and services needs to be identified, either on the plans or in the specifications. A special detail for vertical separation should be included.
- 8) A method of handling sewage flows during replacement of existing lines should be identified.
- 9) The specifications must be signed by a Professional Engineer registered in Wyoming.

3-1-85
JW

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-86
MA 14543

Training and Instruction Facility (Peacekeeper Project)
(Name of Facility)

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

Base Civil Engineer

90 CSG/DE

F.E. Warren AFB, WY 82005

to construct, install, or modify a publicly owned wastewater collection system with an oil/water separator facility according to the procedures and conditions of the application No. 85-86. The facility is located in Section 35, T14N, R67W 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.

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

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

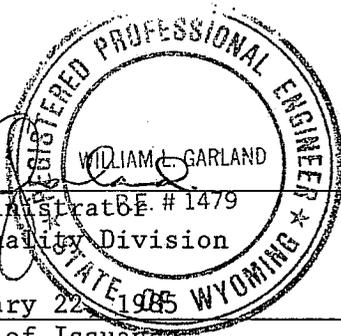
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

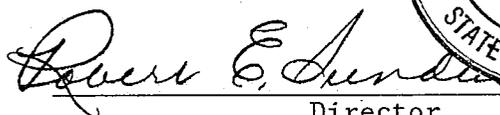
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

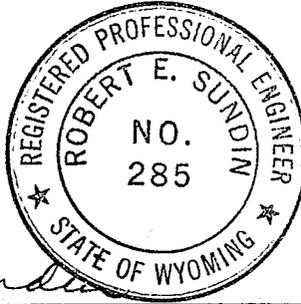
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
February 22, 1985
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: John Parks
McFall-Konkel & Kimball
3001 Henderson Drive
Cheyenne, WY 82001

9-27



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 26, 1985

Mayor Harry P. Pauli
Town of Burns
P.O. Box 66
Burns, WY 82053

RE: Operation and Maintenance Manual for Sewage Lagoon System

Dear Mayor Pauli:

The Town of Burns has submitted a final operation and maintenance manual for the sewage lagoon system in accordance with the conditions of the permit to construct #85-87R. The Water Quality Division has reviewed the manual and determined that it meets the requirements of the Water Quality Division Rules and Regulations, Chapter XI. Your engineering consultants should have supplied you with sufficient copies of the manual for the efficient and effective operation of your new sewage lagoons.

Please call if you have any questions.

Sincerely,

Thomas S. Norman
Water Quality Engineer

TSN/nc
Enclosures

cc: Eric Staab
AVI, P.C.
1700 Westland Road
Cheyenne, WY 82001



6-20

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

June 20, 1985

Eric Staab
AVI
1700 Westland Road
Cheyenne, WY 82001

85-07R

RE: Burns O & M Manual Wastewater Lagoon

Dear Eric:

The following are my comments concerning the draft O & M Manual for Burn's wastewater lagoon. You should reorganize my comments and insert them in the appropriate places.

Page 1.

- a. What is the operator supposed to do and look for on the daily inspections?
- b. A record of daily inspections should be kept. A log should be included.
- c. Chapter V requires a back-up operator. Chapter V also defines the principal operator and a back-up operator.
- d. A 3-ring notebook is a better O & M Manual.

Page 2.

- a. A plan view and flow diagram should be provided. Manholes and valves should be labeled for clarity.
- b. Instead of paragraph 3, I suggest inserting most of the information from the design report which includes design flows, detention times, loadings, etc.
- c. Information on the liner should be included: type, manufacturer, repairs, protection, cover, manufacturer's literature, warranty, etc.

Page 5.

- a. More emphasis is needed on the importance of keeping weeds out of the ponds: improve treatment, reduce odors, damage liner, attract animals and mosquitoes, short-circuiting, reduce wind and therefore dissolved oxygen, etc. The Department of Environmental Quality, Water Quality Division, needs to approve all herbicides. Spraying weeds is the least desirable solution. Most herbicides have never been approved. Contact John Wagner.

Eric Staab
June 20, 1985
Page 2

- b. Need to control erosion.
- c. A method of keeping and storing records should be set up for them.
- d. Problems associated with spring turnover should be discussed.
- e. Need to protect liner from erosion, weeds, sunlight, etc.
- f. General safety - manholes, fencing, hygiene.

Page 6.

- a. Shouldn't pH be field tested?
- b. A list of recommended labs should be included in the report.

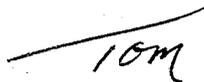
Page 7.

- a. More information on sampling is needed: how many samples, how large a sample, where do you sample at, how do you preserve it, what is maximum holding time, etc.
- b. Since the NPDES permit is available, the specifics of the "monitoring period" should be stated. Also, all sample measurements must be recorded.

Page 9.

- a. Initial filling of lagoon only needs to be to the 2 foot level to reduce possible water source problems. Continued operational depth should be three feet.

Sincerely,



Thomas S. Norman
Water Quality Engineer

TSN/nc

3-18-85
JW

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-87R

MA 14543

Town of Burn's Sewage Lagoon System
(Name of Facility)

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

Town of Burns

P.O. Box 66

Burns, WY 82503

to construct, install, or modify a 3-cell facultative wastewater lagoon facility according to the procedures and conditions of the application No. 85-87R. The facility is located in Section 18, T14N, R62W 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.

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

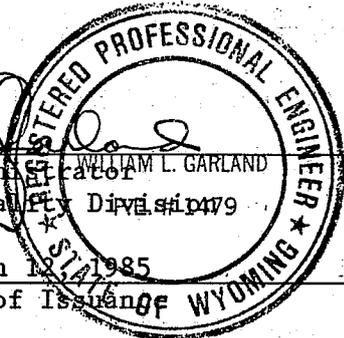
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

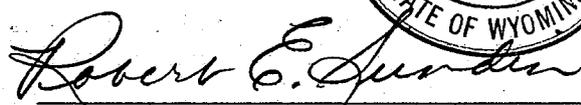
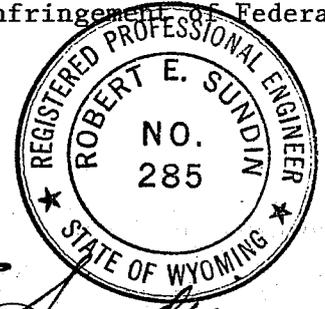
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


ADMINISTRATOR
WILLIAM L. GARLAND
Water Quality Division
March 12, 1985
Date of Issuance



Director
Dept. of Environmental Quality


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

cc: James Voeller
AVI p.c.
1700 Westland Road
Cheyenne, WY 82001

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Town of Burns Sewage Lagoon, Laramie Co.

ARCHITECT OR ENGINEER: James Voeller, AVI
1700 Westland Road, Cheyenne, WY 82001

APPLICANT: Town of Burns
P.O. Box 66, Burns, WY 82503

WATER QUALITY DIVISION REFERENCE NUMBER: 85-87

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

DATE OF REVIEW: February 27, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The owner (elected official) needs to sign the application form.
2. Three copies of the plans and specifications are required.
3. What method will be used to meet the flow monitoring requirements as specified in the NPDES permit.
4. The inside and outside slopes that are not riprapped need to be seeded to control erosion. I can't seem to find this requirement spelled out.
5. There needs to be more clarity on the type of material that will be placed next to the PVC liner. A maximum rock size or sieve gradation would be appropriate as this surrounding material is critical to the integrity of the liner. I suggest contacting a liner representative for more specifics.
6. Permanent bypass piping is required around the primary cell to allow for future cleaning. Since the bypass line will be installed anyway, I doubt if there will be any costs for leaving it in place.

4-2-85

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-88RR
 SEE CONDITION ON BACK OF PERMIT
 MA 14542

University of Wyoming - University Foundation House
 (Name of Facility)

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

University of Wyoming
206 Merica Hall
Laramie, WY 82071

to construct, install, or modify a municipal water distribution facility according to the procedures and conditions of the application No. 85-88RR. The facility is located in Section 33, T16N, 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.

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

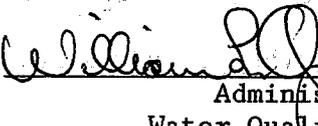
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

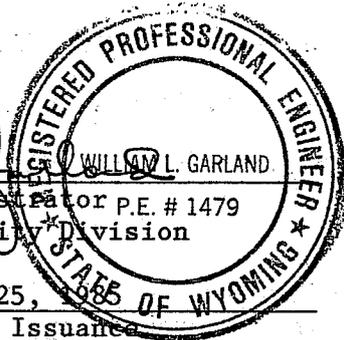
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

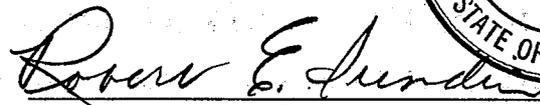
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

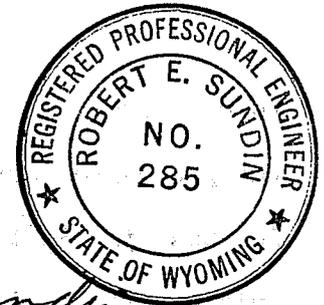
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
March 25,
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.

Condition to Permit to Construct #85-88RR

The five sprinkler piping system shall have an AWWA approved double check valve assembly proceeding it.

cc: Fred B. Crowell
University Architect's Office
211 Merica Hall
Laramie, WY 82071

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: U. W. Foundation House, Albany Co.

ARCHITECT OR ENGINEER: Fred B. Crowell, University Architect's Office
211 Merica Hall, Laramie, WY 82071

APPLICANT: University of Wyoming
206 Merica Hall, Laramie, WY 82071

WATER QUALITY DIVISION REFERENCE NUMBER: 85-88R

REVIEWING ENGINEER: Thomas S. Norman



DATE OF REVIEW: March 12, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Since the NFPA specifications are not a commonly referred to specification in our office, could you send us a copy of the portion that specifies the hydrostatic testing.
2. At a minimum, a double-check valve assembly is required on the fire protection system to protect against backflow.

2-25-85

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: U.W. Foundation House, Albany Co.

ARCHITECT OR ENGINEER: Fred B. Crowell, University Architect's Office
Construction Engineering Section, Room 202 Merica Hall
University of Wyoming, Laramie, WY 82071

APPLICANT:

WATER QUALITY DIVISION REFERENCE NUMBER: 85-88

REVIEWING ENGINEER: Thomas S. Norman *TS Norman*

DATE OF REVIEW: February 21, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application form (enclosed) was not submitted.
2. A letter from the City of Laramie is necessary stating that they will accept these improvements.
3. Specifications were not provided for pressure testing, disinfection, and bacteriological testing. Reference to AWWA standards should be made.
4. What type of fire protection system is used in the Foundation House so that we can determine if the level of backflow prevention is adequate?
5. What is a "detector check"?

3-25-85
J
R

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-89R

MA 14542

Baggs Water Treatment Plant Pretreatment System
(Name of Facility)

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

Town of Baggs

P.O. Box 300

Baggs, WY 82321

to construct, install, or modify a municipal water pretreatment system facility according to the procedures and conditions of the application No. 85-89R. The facility is located in Section 5, T12N, R91W 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.

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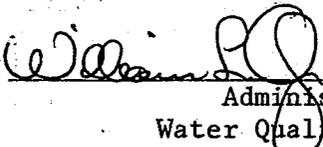
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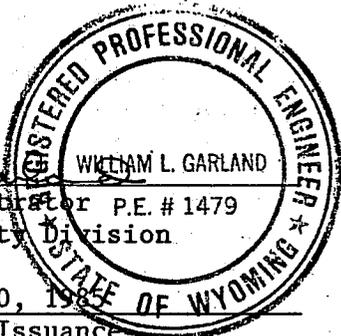
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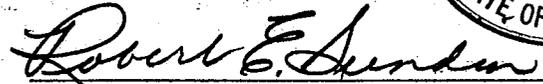
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
March 20, 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: Paul McCarthy
Robert Jack Smith & Associates
P.O. Box 1104
Rawlins, WY 82301

2-26-85

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Baggs Water Treatment Plant Pretreatment System, Carbon Co.

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

APPLICANT: Town of Baggs
P.O. Box 300, Baggs, WY 82321

WATER QUALITY DIVISION REFERENCE NUMBER: 85-89

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

DATE OF REVIEW: February 25, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Why is the existing pumphouse being bypassed? Why can't the strainer and desander be put in the existing building to reduce costs? If the existing pumphouse isn't necessary, it seems like it could be used instead of putting in the new building.
2. Please document that the backwash ponds are adequate to handle the increased flows.
3. Please send us the manufacturers drawings and specifications on the Neptune-Microfloc absorption clarifier. Our files do not have the AC-35 model. We would also like a copy of the process and design capabilities as required in the invitation to bid.
4. I am not clear on the following controls. Could you please clarify?
 - a. How will equal flow be maintained to both filters? How will you set this flow rate to keep it constant?
 - b. If the absorption clarifier backwashes, what happens to the filters? Do they drain or are there controls to shut them down? Are the chemicals shut down also?
 - c. If one side of the filter is down for backwashing, will the other side shut down? Will the filter drain without water coming in?
 - d. It seems like you greatly reduce the capacity of the plant if the absorption clarifier or either of the filters is being backwashed as the total system is shut down. Is there a way to prevent this as you no longer have a 300 gpm plant.
 - e. Also the literature shows that you shouldn't stop and start filters without having a filter to waste control mode (i.e., the filter that isn't

backwashed, should be kept operating to prevent contamination break through).

- e. Could you provide an overall flow control diagram showing what valves will be shut or open depending on what part is shut down, backwashing, operating, etc.?
5. I suggest that you include a bid item for jar testing equipment to help evaluate plant processes.
 6. Concerning the January 31, 1984 letter of violation, could you please address those items of violation and the status towards correcting them.

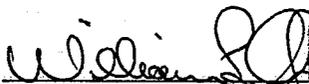
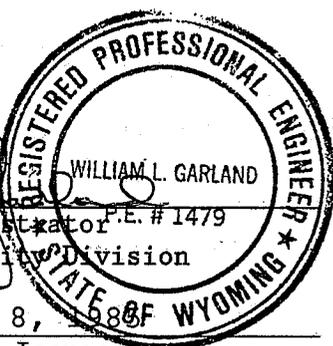
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

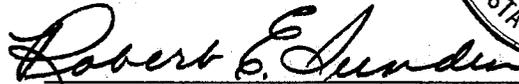
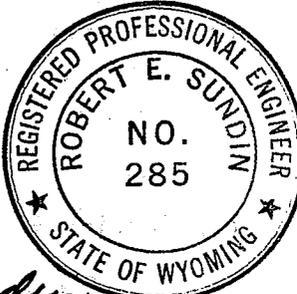
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
April 8, 1986
Date of Issuance



ROBERT E. SUNDIN
NO. 285
STATE OF WYOMING
Director
Dept. of Environmental Quality

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

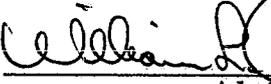
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

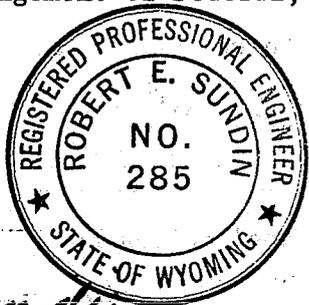
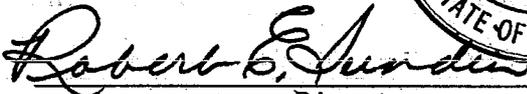
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



WILLIAM L. GARLAND
PE #1479
Administrator
Water Quality Division
STATE OF WYOMING
April 8, 1985
Date of Issuance

Director
Dept. of Environmental Quality

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

4-18 JSW

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-92
MA 14542

Exxon LaBarge Project Shute Creek Expanded Plant
(Name of Facility)

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

Exxon Company, USA
P.O. Box 1600
Midland, TX 79702

to construct, install, or modify a tail gas unit quench water pond which
discharges to a tributary of Clay Draw

facility according to the procedures and conditions of the
application No. 85-92. The facility is located in

Sec. 19, T22N, R11W

in the County of Sweetwater,

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

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

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

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

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

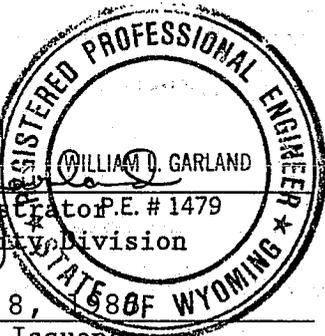
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

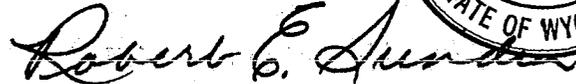
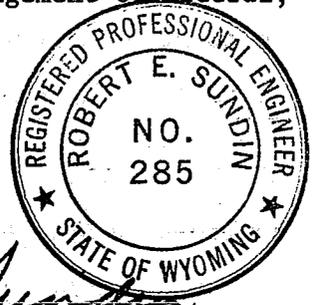
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM D. GARLAND
Administrator P.E. # 1479
Water Quality Division
APR 8 1980
Date of Issuance



Director
Dept. of Environmental Quality


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

PERMIT TO CONSTRUCT

4-18
452

- New
- Renewal
- Modified

Permit No. 85-93
MA 14342

Exxon LaBarge Project Shute Creek Expanded Plant
(Name of Facility)

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

Exxon Company, USA
P.O. Box 1600
Midland, TX 79702

to construct, install, or modify a two cell evaporation pond which receives washdown water, excess process water and effluent from the sewage lagoon facility according to the procedures and conditions of the application No. 85-93. The facility is located in

Sec. 19, T22N, R111W

in the County of Sweetwater,

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

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

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

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

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

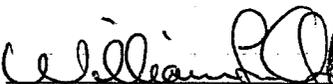
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

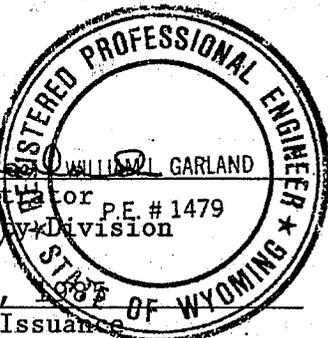
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

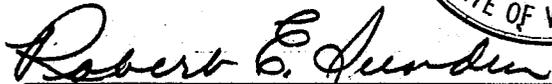
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

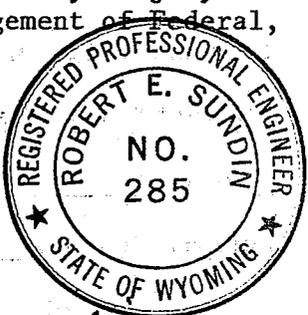
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator for P.E. #1479
Water Quality Division
APR 8 1987
Date of Issuance




Director
Dept. of Environmental Quality



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

PERMIT TO CONSTRUCT

4-18

W

- New
- Renewal
- Modified

Permit No. 85-94
MA 14542

Exxon LaBarge Project Shute Creek Expanded Plant
 (Name of Facility)

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

Exxon Company, USA
P.O. Box 1600
Midland, TX 79702

to construct, install, or modify a sewage collection system and treatment system

facility according to the procedures and conditions of the application No. 85-94. The facility is located in
Sec. 19, T22N, R111W

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

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

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

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

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

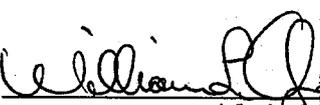
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

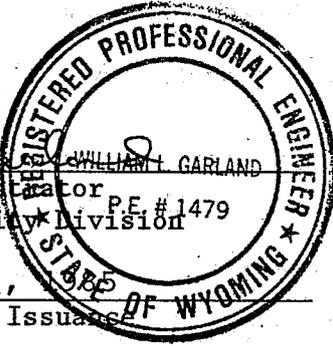
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

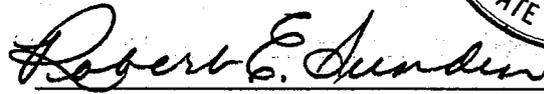
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

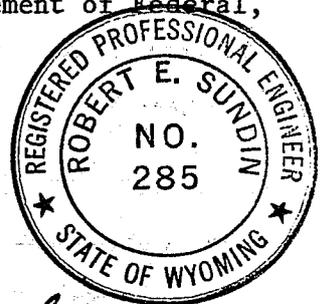
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


 WILLIAM L. GARLAND
 Administrator
 Water Quality Division
 PE # 1479
 APR 8 1985
 Date of Issuance




 Director
 Dept. of Environmental Quality



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

Norma, please
return plans to
Lander
4-22-85

Approved &
in outgoing
mail 1:45
4/22/85

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-90, 91, 92, 93, 94

DATE SUBMITTED FOR REVIEW 4-8-85

NAME AND LOCATION OF FACILITY Inxon La Barge Project
Lincoln County
Sweetwater

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Kate Lander
TITLE Engineer Evaluator
DATE 4-21-85

ACCEPTED FOR RECORD 4/22/85
(Date)

AJM
Groundwater Control Supervisor

4-11-85
25

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-95R
 EPA C560137-94
 MA 14689

Big Piney Sewer Line Replacement
 (Name of Facility)

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

Town of Big Piney

P.O. Box 70

Big Piney, WY 83113

to construct, install, or modify a new sewer lines in the Town of Big Piney east of Mickelson Street facility according to the procedures and conditions of the application No. 85-95R. The facility is located in Section 31, T30N, R111W in the County of Sublette, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

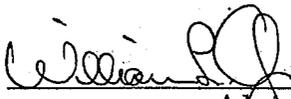
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

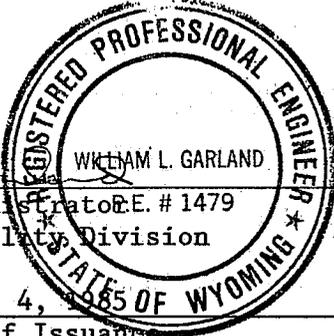
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

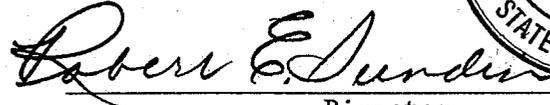
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

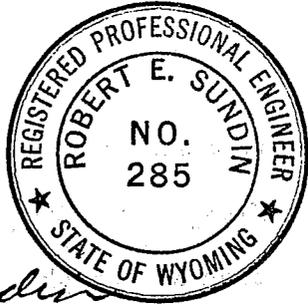


Admin.istrator E. # 1479
Water Quality Division
April 4, 1985
Date of Issuance





Director
Dept. of Environmental Quality



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

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Big Piney Sewer Line Replacement, Sublette Co.

ARCHITECT OR ENGINEER: Donald J. Livingston, Engineering Associates
P.O. Box 1900, Cody, WY 82414

APPLICANT: Town of Big Piney
P.O. Box 70, Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 85-95 (EPA C560137-94)

REVIEWING ENGINEER: Steve Gerber and Tom Conrardy *T.W.C.*

DATE OF REVIEW: March 8, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Bedding Material:
 - a) Where are the two types of pipe bedding shown on sheet 5/5 to be utilized?
 - b) Consideration should be given to including an item in the Bid Schedule for Bedding (C.Y.). This way if the contractor has to use additional bedding due to unstable soils, the unit price will be established and the change order cost will be more reasonable.
2. Bid items 21 & 22 provide enough casing pipe for only two water line crossings, however three are identified on the plans and three are included in bid item three.
3. There is a conflict between the plans and specifications regarding manhole steps. Sheet five, standard manhole detail, shows cast iron steps, while section A-A shows steel reinforced polyurethane manhole steps. Page 02730-6 of the specs requires noncorrosive steps be used.
4. Sewer Laterals:
 - a) At locations where sewer laterals have to cross the existing sewer to be tied into the new sewer; how will these be installed to maintain a proper slope in all laterals?
 - b) Existing and new laterals should be identified on the plans. New laterals installed to serve vacant lots will not be eligible for federal participation.
5. Type A backfill should be specified at the following additional locations on sheet 5/5:
 - a) Where sewer line five crosses Beach Avenue;

- b) Where sewer line four crosses Main Street;
- c) Where sewer line one crosses North Street;

Consideration should be given to providing Type A backfill from the existing manholes in Mickelson Street to the property lines and in the alleys.

- 6. Detail B on sheet 5 shows thrust blocks being poured on the elbows turning down. Thrust blocks on pressure lines should be poured against undisturbed soil. It is doubtful that the thrust block poured as indicated will be effective. Has the engineer considered a gravity type anchor with the elbow tied to it with rebar or a restrained joint system? Also I can find no criteria for sizing the thrust blocks.
- 7. It may not be necessary to tie manholes 4, 8, 12, and 16 to the existing manholes on Mickelson Street. The future extension of these lines up the alleys may be more easily performed if they are not tied in. Our feeling is that it is important to assure the existing lines are flushed properly before disconnecting them from the lagoon and using them as groundwater drains, however it may be preferable to flush all existing lines after all the new sewers are constructed.
- 8. Geotechnical and Groundwater:
 - a) What groundwater and soils data is to be provided to the contractors?
 - b) Consideration may be given to including a statement in the specifications that the contractor is responsible for making himself aware of subsurface conditions and providing proper dewatering, trench shoring and stabilization etc., as required at no additional cost to the owner.
- 9. Farmers Home Specifications:
 - a) FmHa pages 00490-1 and 2 should be removed because they may cause confusion.
 - b) Several items are duplicated between the FmHa general conditions and the EPA general conditions. It may be advisable to include a statement such that in the case of a conflict the EPA conditions shall control.
- 10. The geographical description should be provided on page 00800-4.
- 11. I have enclosed a copy of the applicable wage rate to be inserted in the specifications.
- 12. Page 00020-2 has the incorrect minority work force goal. This should be 5.1%. Page 00300-4 is correct.
- 13. The approximate location of water lines should be shown on the profile sheets.

4-10-85 JTW

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-96R
MA 14542

ADDITION

Fishing Bridge Wastewater Treatment Plant
(Name of Facility)

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

National Park Service
P.O. Box 168
Yellowstone National Park, WY 82190

to construct, install, or modify a septic tank disposal/holding tank at headworks of treatment plant

facility according to the procedures and conditions of the

application No. 85-96. The facility is located in Yellowstone National Park (undivided)

in the County of Park,
in the State of Wyoming.

This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

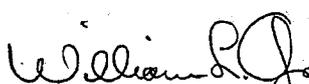
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

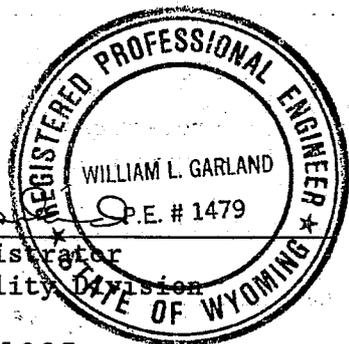
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

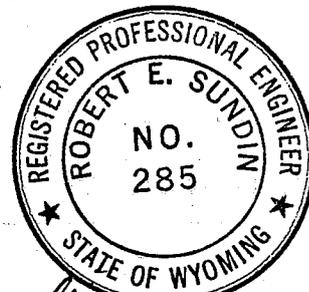
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


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




ROBERT E. SUNDIN
NO. 285
Director
Dept. of Environmental Quality
STATE OF WYOMING



April 3, 1985
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Fishing Bridge Wastewater Treatment Plant

ENGINEER: NPS - Env. Engineer
P.O. Box 168
Yellowstone Natl. Park 82190
ATTN: Dick Engle

OWNER: National Park Service
P. O. Box 168
Yellowstone Natl. Park 82190

WATER QUALITY DIVISION REFERENCE NUMBER: # 85-96

REVIEWING ENGINEER: Ed Baruth *Ed*

DATE OF REVIEW: March 6, 1985

ACTION: Not authorized.

COMMENTS: Please forward specifications on the pump. An explosion proof pump, motor, and control device would be in order.

ABC

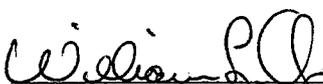
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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

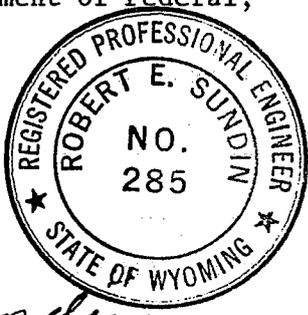
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Adminisrator P.E. # 1479
Water Quality Division
April 2, 1985
Date of Issuance




Director
Dept. of Environmental Quality



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

xc: Frank Ferris
2000 Knollwood Drive
Gillette, WY 82716

Returned to Sheridan
3/11/85

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-97 thru 85102 MA 14699

DATE SUBMITTED FOR REVIEW March 1, 1985

NAME AND LOCATION OF FACILITY Eagle Butte Mine
Sediment Reservoirs
Campbell Co.

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Matt Langenfeld
TITLE Groundwater Compliance Specialist
DATE 3/8/85

ACCEPTED FOR RECORD 3/8/85
(Date)

ajm
Groundwater Control Supervisor

Reviewed under supervision of AS M, PE #1803

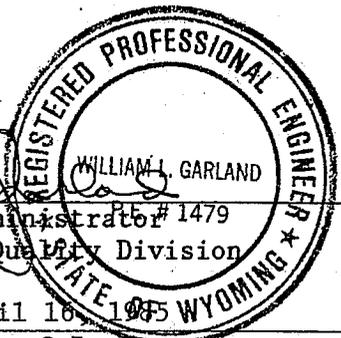
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

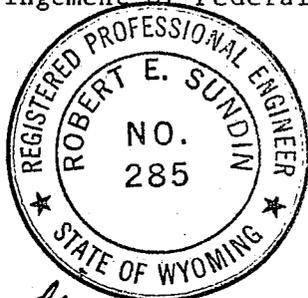
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
STATE OF WYOMING
April 16, 1975
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: Frank K. Ferris
2000 Knollwood Drive
Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Eagle Butte Mine
Sediment Reservoirs EB103 and EB105

ARCHITECT OR ENGINEER: Frank K. Ferris
2000 Knollwood Drive
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBERS: 85-98 and 85-100

REVIEWING ENGINEER: Susan Holmes ^{SH}

DATE OF REVIEW: April 1, 1985

ACTION: Not Authorized

COMMENTS:

EB103

- 1) The design of Reservoir EB103 does not include the drainage area bounded by EB104, EB105, the Ox-Bow Diversion and the pit. How is the runoff from this area to be controlled? If the area is disturbed and this runoff is simply to be impounded behind the EB103 dam, then the impoundment constitutes a sediment reservoir and a Permit to Construct is required. Please address the runoff generated within this area and provide some explanation for controlling it.

EB105

- 1) The drainage area used in the calculations for sizing this reservoir (141 acres) appears to be incorrect. My estimate of the area based on what is shown on the location map is on the order of 70 - 75 acres.

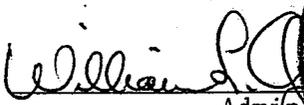
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

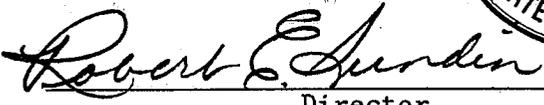
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AUTHORIZED BY:


WILLIAM L. GARLAND
P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING
REGISTERED PROFESSIONAL ENGINEER
April 2, 1985
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.

xc: Frank K. Ferris
2000 Knollwood Drive
Gillette, Wyoming 82716

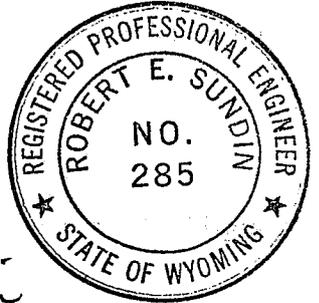
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

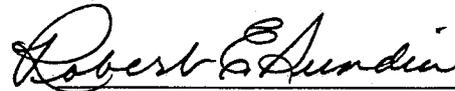
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:




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


Director
Dept. of Environmental Quality

April 16, 1985
Date of Issuance

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

xc: Frank K. Ferris
2000 Knollwood Drive
Gillette, Wyoming 82716

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Eagle Butte Mine
Sediment Reservoirs EB103 and EB105

ARCHITECT OR ENGINEER: Frank K. Ferris
2000 Knollwood Drive
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBERS: 85-98 and 85-100

REVIEWING ENGINEER: Susan Holmes *SH*

DATE OF REVIEW: April 1, 1985

ACTION: Not Authorized

COMMENTS:



EB103

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EB105

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