

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-201RR

CHEVRON U.S.A. INC., CARTER CREEK GAS PLANT SULFUR LOADING FACILITY
(Name of Facility)

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

Chevron U.S.A. Inc. Attn: Jeanette Marshall
P.O. Box 599
Denver. CO 80201

to construct, install, ~~modify~~ an evaporation pond, one septic tank, collection system and spill containment dikes

_____ facility according to the procedures and conditions of the application No. 81-201RR. The facility is located in _____
Sec. 25, T. 20N, R. 117W.

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

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

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

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.

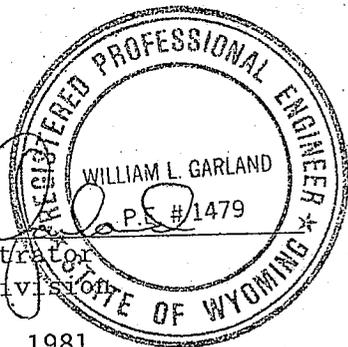
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, 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.

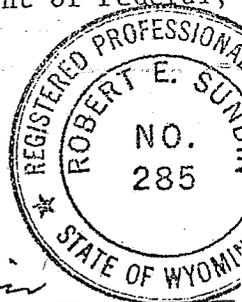
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director
Dept. of Environmental Quality



June 30, 1981
Date of Issuance

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

FL:nb
7/1/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Chevron U.S.A., Inc. Carter Creek Gas Plant Sulfur Loading Facility

ENGINEER: Fluor Engineers and Constructors, Inc.
P. O. Box 35000
Houston, Texas 77035
ATTN: J. J. Hainbach

OWNER: Chevron U.S.A., Inc.
P. O. Box 599
Denver, CO 80201
ATTN: Jeanette Marshall

WATER QUALITY DIVISION REFERENCE NUMBER: 81-201R

REVIEWING EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: June 5, 1981, - Additional Comments - June 12, 1981

ACTION: Not authorized.

COMMENTS:

The following comments were received from the groundwater section in Cheyenne on June 12, 1981. These comments are in addition to those in my June 5, 1981 review letter and were relayed to James Gillum by phone on June 12, 1981.

1. Please address the chemical and acid drains. What types (i.e. a chemical description) of fluids will be put in these drains? Can they harm the liner?
2. Will there be any Chromium in the boiler blowdown?
3. It appears additional monitoring wells may be required. (See question No. 3 of the June 5, 1981 review letter)
4. A cross-sectional view is needed of the leak detection sumps. (See question No. 2 of the June 5, 1981 review letter)

Upon receipt of the revised plans and additional information, the ground water section will conduct a second review. A "Permit to Construct" cannot

be issued until the Lander District Office and the Groundwater Section in Cheyenne both sign off on the plans.

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

FL/dl

cc: Tony Mancini - Groundwater Control Supervisor, Cheyenne DEQ-WQD

Handwritten initials/signature

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Chevron U.S.A., Inc. Carter Creek Gas Plant Sulfur Loading Facility

ENGINEER: Fluor Engineers and Constructors, Inc.
P. O. Box 35000
Houston, Texas 77035
ATTN: J. J. Hainbach

OWNER: Chevron U.S.A., Inc.
P. O. Box 599
Denver, CO 80201

WATER QUALITY DIVISION REFERENCE NUMBER: 81-201R

REVIEWING EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: June 5, 1981

ACTION: Not authorized.

COMMENTS:

The following items need to be addressed before a permit to construct can be issued for this project:

1. The pond operation specifications must state what will be done if a leak is detected (i.e., notify DEQ within one working day of the discovery of the leak, provide a copy of the lab analysis, state when the pond will be isolated, state when repairs will be completed, etc.).
2. The leak detection system should be modified as we discussed (i.e. add one additional pipe per cell with equal spacing between the pipes and hold a second liner). Please provide details of the lead observation sumps.
3. Please provide a statement that Chevron will agree to install any additional monitoring wells required by DEQ and at locations approved by DEQ.
4. Please provide a statement that standby power is available.
5. Please verify the 1/16 inch clearance specified for the lift station pumps is adequate.
6. Please provide a statement on liner compatibility with the proposed wastewater.

Creek Gas Plant
#81-201R

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

FL/dl

cc: Tony Mancini

MEMORANDUM

TO : Tony Mancini
FROM : Francis LaBarge *FL*
DATE : June 5, 1981
SUBJECT: Chevron, U.S.A., Inc. Carter Creek Gas Plant Sulfur Loading Facility - DEQ No. 81-201

On June 5, 1981, I met with Chevron officials and discussed their hand delivered reply to my April 21, 1981, review letter. Attached is a copy of my second review letter as a result of this meeting.

For your information:

- Depth to groundwater is seven and one half feet.
- A copy of the groundwater analysis is included.
It appears to be Class III
- The bottom of the ponds at the low point is four feet above the high groundwater table.
- Soil permeability below the bottom of the pond is 20 min/inch.

Based upon this information, I asked them to add one additional leak detection pipe per pond and double line the pond. I also requested they commit to installing additional monitoring wells at locations selected by DEQ. They have agreed to all of this and are now revising their plans and reports.

I told them I felt this would satisfy all your requirements. They plan to have the revisions completed by June 12, 1981. If you have any comments, please contact me. I feel I can answer any questions you may have.

FL/d1
Attachments

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Chevron U.S.A., Inc. Carter Creek Gas Plant Sulfur Loading Facility, Evaporation Ponds, Emergency Sulfur Storage

ENGINEER: Fluor Engineers and Constructors, Inc.
P.O. Box 35000
Houston, Texas 77035
Attn: J. J. Hainbach

OWNER: Chevron U.S.A., Inc.
P.O. Box 599
Denver, CO 80201

WATER QUALITY DIVISION REFERENCE NUMBER: 81-201

REVIEWING ~~ENGINEER~~ EVALUATOR: Francis LaBarge

DATE OF REVIEW: April 21, 1981

ACTION: Not authorized.

COMMENTS:

The following items need to be addressed before a permit to construct can be issued for this project:

1) All applications must include three distinct and separate parts. They are:

Engineering Report - This report must contain a narrative of the proposed project, complete and detailed calculations justifying all aspects of the design and all other information needed to determine compliance with applicable standards. You must remember, we can only review the information given. If it is not presented in the application, we cannot make assumptions.

Specifications - These are the construction specs and should be complete in every detail. We prefer they be bound together and clearly identified. These specs are the ones the project is to be constructed by.

Plans - The plans must be the ones the contractor will use. They must be complete in every detail. Any materials not specified on the plans must be specified in the construction specs. The plans must show all dimensions, line plan and profile views, etc. ~~Separate 8½" x 11" sheets showing construction plans are unacceptable.~~ All plans must be on full size sheets. Small sheets tend to get lost easily.

... /2

A, B, C

- 2) All applicable information requested in "Guidelines for Wastewater Pond Construction Permit Applications Requiring Liners," copy enclosed, must be submitted. This application does not contain all of the required information.
- 3) Identify the type of fence to be constructed on the plan.
- 4) Complete design calculations and drawings are needed of the lift station.
- 5) The depth to groundwater is needed.
- 6) A site specific soil profile is required. At least one boring should be made a minimum of 25 feet in depth or into bedrock, whichever is shallower. If bedrock is encountered, rock type, structure, and corresponding geological formation data should be provided. The boring hole should be filled and sealed.
- 7) Relationship to adjacent projects must be addressed.
- 8) Isolation from any water supplies must be addressed.
- 9) Drawing No. 653116-52-4-052 shows a septic tank-leach field facility. You have applied for a permit to construct an evaporation pond (DEQ #81-200). Please explain.
- 10) Is this area in a flood plain?
- 11) What is the proposed construction schedule?

Evaporation Ponds

- 1) An annual evaporation rate of 73.3 inches is too high. Our references show a 47-inch annual evaporation rate.
- 2) The assumption that 15% of the precipitation will be absorbed into the soil needs to be justified.
- 3) The ponds should be designed for a minimum detention time of 150 days.
- 4) What is the 10-year, 24-hour rainfall?
- 5) Where did the figure of 6" of precipitation during a three-month period come from? The ponds must be designed by a mass-balance. That is, inflow plus precipitation equals outflow plus evaporation. An allowance must be made for sediment volumes, also.
- 6) A minimum freeboard of two feet is required.

Review of Plans and Specifications - Chevron U.S.A., Inc. Carter Creek (81-201)
Date of Review - April 21, 1981
Page Three

- 7) In case of a liner break, each pond must have the capacity to hold the contents of the other pond. This must be verified by the necessary calculations.
- 8) A narrative is needed on the procedures to be implemented if a leak is detected.
- 9) A leak detection monitoring schedule is needed.
- 10) How will the contents of one pond be transferred to the other? This needs to be addressed.
- 11) Compaction specs are needed for the leak detection trenches.
- 12) A liner covering the bottom and extending beyond the top of the perforated pipe in the leak detection trench is required.

Emergency Sulfur Dump

- 1) Complete design calculations and detailed plans are required.

Sulfur Tanks Dike

- 1) Please explain the calculations. Where are the berms that are referenced? Detailed plans are needed.

Please submit the required information and revised drawings, in triplicate, to this office. This does not necessarily constitute the final review. If you have any questions, contact me at this office.

FL:nb
Enclosure

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-202R

SESSIONS SMALL WASTEWATER FACILITY
(Name of Facility)

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

Alan Sessions
N.E. of Afton
Afton, WY 83110

to construct, install, or modify a single septic tank and leach
field

facility according to the procedures and conditions of the application

No. 81-202R. The facility is located in Lot 9, Sessions Village Subdivision, Sec. 19, T. 32N, R. 118W

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

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

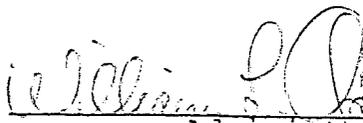
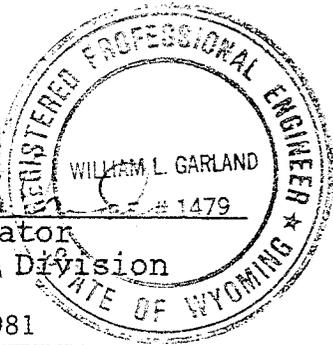
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

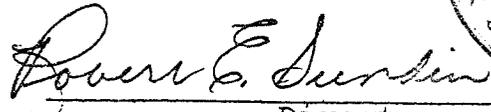
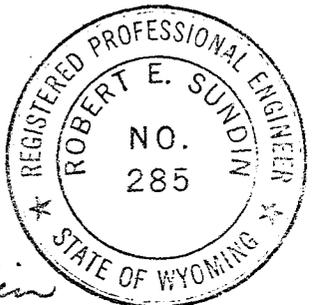
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
1479
Administrator
Water Quality Division



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

May 1, 1981
Date of Issuance

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

RR:nb

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Alan Sessions 8-Plex

ENGINEER: H.N. Carlton
P.O. Box 435
Evanston, WY 82930

OWNER: Alan Sessions
NE of Afton
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 81-202

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: April 20, 1981

ACTION: Not authorized.

COMMENTS: According to Chapter III of the Wyoming Water Quality Rules and Regulations, "small wastewater facilities" means sewerage systems, disposal systems, and treatment works for a single family house, or a single mobile home unit.

Your facility is not in this category. Consequently, all plans and specifications submitted must be signed or stamped by the designing engineer, who is a registered engineer in the State of Wyoming.

A review cannot be made until this requirement is met.

You can reach me at this office with questions.

RR/kn

A, B, C

2-4-82

PERMIT TO CONSTRUCT

New

Permit No. 81-203R

Renewal

Modified

Arrow Industrial Park
(Name of Facility)

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

City of Rawlins

P.O. Box 953

Rawlins, WY 82301

to construct, install, or modify potable water distribution and sewage collection facilities according to the procedures and conditions of the application No. 81-203R.

The facility is located in Sections 10 and 15, T21N, R87W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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.

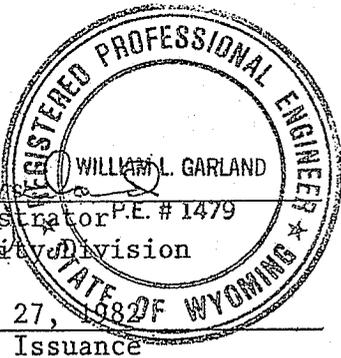
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

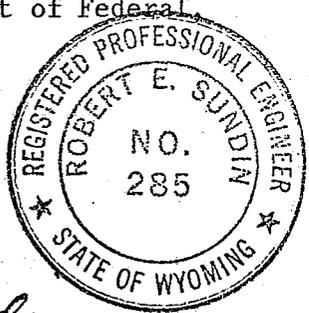
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
Water Quality Division
January 27, 1982
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: Rex A. Behrends
Robert Jack Smith & Assoc.
P.O. Box 1104
Rawlins, WY 82301

9-17-81
Carbon



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 15, 1981

Rex A. Behrends, P.E.
Robert Jack Smith & Associates
P.O. Box 1104
Rawlins, WY 82302

RE: Proposed Sanitary Sewer Construction - Arrow Industrial Park, Carbon Co., DEQ/WQD Ref. No. 81-203R

Dear Mr. Behrends:

On May 7, 1981, I wrote to you concerning the fact that a construction permit could not be issued for the above referenced project until construction of the "Rawlins Interceptor Sewer" was complete.

A permit was issued to the City of Rawlins to construct the interceptor sewer on July 8, 1981. Has this construction been completed? If so, I will complete the permitting of your project.

Very truly yours,

A handwritten signature in cursive script that reads "Theodore D. Coyer".

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

TDC/nc

LEB

Review of Plans and Specifications

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

PROJECT: Arrow Industrial Park

ARCHITECT OR ENGINEER: Rex A. Behrends, P.E., Robert Jack Smith & Associates
P. O. Box 1104, Rawlins, WY 82302

WATER QUALITY DIVISION REFERENCE NUMBER: 81-203R

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

DATE OF REVIEW: May 7, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: A construction permit cannot be issued for this project until a permit has been issued for the proposed industrial area interceptor sewers and the sewers are built.

U.S.

Review of Plans and Specifications

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

PROJECT: Arrow Industrial Park

ARCHITECT OR ENGINEER: Rex A. Behrends, P.E., Robert Jack Smith &
Assoc.
P. O. Box 1104, Rawlins, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 81-203

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

Theodore D. Coyer

DATE OF REVIEW: April 28, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A "blow-off" should be provided at the end of the water main stub at the east end of Murry Street and the south end of Airport Road.
2. The area where the water main crosses the storm water drain is considered a surface water crossing and must meet the requirements as such. However, I am most concerned with the valving at both sides of the main and at least one tap at either side that can be used for leak detection. The tap should be located in a manhole.
3. The water main under the storm water drainage tubes in Airport Road should be protected from freezing and damage due to settling of the tubes. I suggest that the water main be encased in a larger tube which would facilitate repairs of the water main at a latter date if needed.
4. A manhole is required at the end of the sanitary sewer (Sta 1+20) in Airport Road.
5. A construction permit has not been issued for the "existing" sanitary sewers noted on the plans. A construction permit cannot be issued for this project until the plans for the new inter-ceptor sewers are approved.

LEJ

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-204

See Special Conditions

Corab Services
(Name of Facility)

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

Jim Rose

P. O. Box 2956

Casper, WY 82601

to construct, install, or modify a subsurface commercial wastewater disposal facility according to the procedures and conditions of the application No. 81-204. The facility is located in NW 1/4, SW 1/4, Section 35, T34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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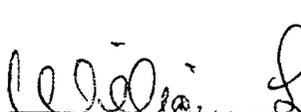
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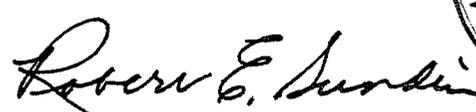
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING

April 30, 1981
Date of Issuance


ROBERT E. SUNDIN
Director
Dept. of Environmental Quality
STATE OF WYOMING

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

cc: Gray C. Wangelin, P.E.
Engineering Inspection Testing Service
Box 4075
Casper, WY 82604

Chuck Davis, Natrona Planner

Conditions to Permit to Construct

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

12/10/81

PERMIT TO CONSTRUCT

Permit No. 81-205RR

- New
 Renewal
 Modified

Rocky Mountain Federal Savings & Loan, Laramie, WY
(Name of Facility)

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

Rocky Mountain Federal Savings & Loan Association

500 East 18th Street

Cheyenne, WY 82001

to construct, install, or modify a municipal water distribution and wastewater collection systems facility according to the procedures and conditions of the application No. 81-205RR. 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.

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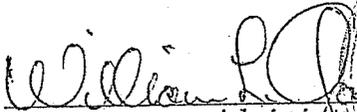
~~The permittee shall allow~~ authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

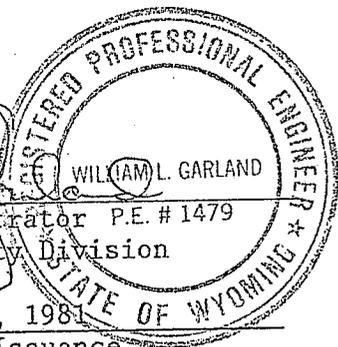
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

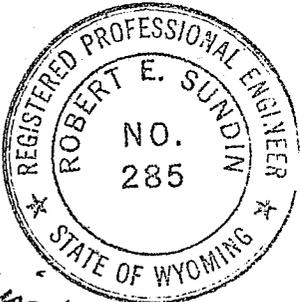
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
July 8, 1981
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, Suite M
Cheyenne, WY 82001

M
6-9-81

Review of Plans and Specifications

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

PROJECT: Rocky Mountain Federal Savings and Loan - Laramie, WY

ARCHITECT OR ENGINEER: John Parks, McFall, Konkel & Kimball
3001 Henderson, Suite M, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 81-205R

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

DATE OF REVIEW: June 5, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide a letter from the City of Laramie indicating that they can adequately supply at least 350 gallons/day of drinking water at a minimum pressure of 20 psi under all conditions of flow.
2. Provide a letter from the City of Laramie indicating that they can adequately transport and treat the additional hydraulic & organic loading in their sewer system and lagoon wastewater treatment plant.

LEB 5-1-81

Review of Plans and Specifications

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

PROJECT: Rocky Mountain Federal Savings & Loan, Laramie, WY

ARCHITECT OR ENGINEER: John Parks, McFall, Konkell & Kimball
3001 Henderson, Suite M, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 81-205

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

DATE OF REVIEW: April 29, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Plans must carry signature or seal of a professional engineer licensed in Wyoming. Registered Architect is not acceptable.
2. What material/construction specifications will be used? Provide a note on drawing if Wyoming Public Works Standard Specifications or provide two copies.
3. Provide a letter from the City of Laramie indicating that they can adequately supply at least 350 gallons/day of drinking water under all conditions of flow.
4. Provide a letter from the City of Laramie indicating that they adequately transport and treat the additional hydraulic & organic loading in their sewer and lagoon system.

2.5

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-206

Wiloth Residences
(Name of Facility)

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

David Wiloth

2911 Pioneer

Cheyenne, WY 82001

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 81-206. The facility is located in Section 15, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

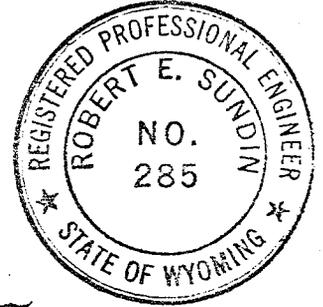
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

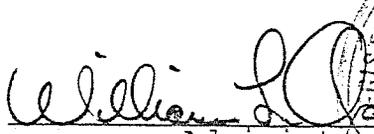
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

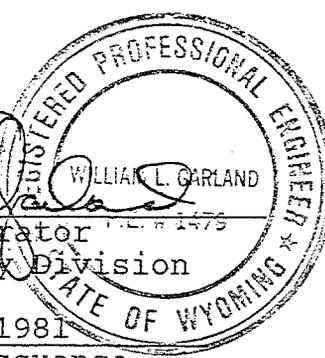
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

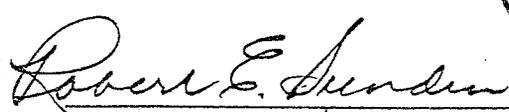
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:




WILLIAM L. GARLAND
Administrator
Water Quality Division
April 28, 1981
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 "1475".


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Mike Gust, P.E.
1800 Westland Road
Cheyenne, WY 82001

696 5-1-81

Review of Plans and Specifications

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

PROJECT: Arch Mineral Welding Shop (Seminoe Mine No. 2)

ARCHITECT OR ENGINEER: Robert Shanks, Arch Mineral Corp.
500 N. Broadway
St. Louis Missouri 63102

WATER QUALITY DIVISION REFERENCE NUMBER: 81-207

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

DATE OF REVIEW: April 29, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The disposal field area is based on the area of the trench not the total area of the field. Your plan sheet shows 310 l.f. of trench at 18 inches wide for a disposal field area of 465 sq. ft. which is inadequate for your proposed useage as stated by your design criteria. Please revise.

cc: Lonnie Norman
P. O. Box 530
Hanna, WY 82327

PERMIT TO CONSTRUCT

Permit No. 81-207R

- New
 Renewal
 Modified

Arch Mineral Welding Shop (Seminole No. 2)
(Name of Facility)

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

Arch Mineral Corporation

P. O. Box 530

Hanna, WY 82327

to construct, install, or modify a commercial subsurface disposal waste treatment facility according to the procedures and conditions of the application No. 81-207R. The facility is located in adjacent to County Rd 291, NW 1/4, Section 9, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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.

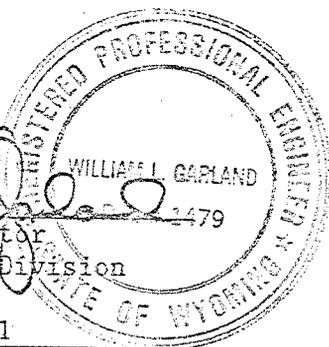
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

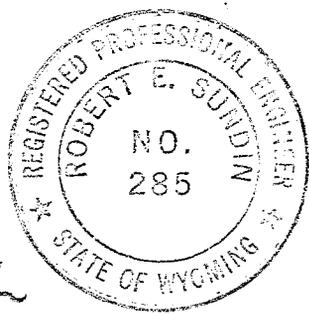
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
Water Quality Division
May 26, 1981
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Lonnie Norman
Arch Mineral
P. O. Box 490
Hanna, WY 82327

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-208

Ref. No. 80-39RRR

SEE SPECIAL CONDITIONS

Toe Extension to Split Rock Mill Tailings Embankment
(Name of Facility)

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

Western Nuclear, Inc. - c/o Grey Bogden

134 Union Boulevard

Lakewood, CO 80228

to construct, install, or modify a toe berm of approximately 300' length and 50' width according to the procedures and conditions of the application No. 81-208. The facility is located in Sec. 1 & 2, T29N, R92W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone, 332-3144.

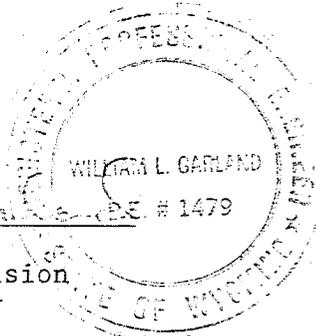
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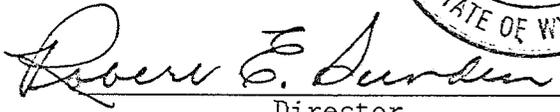
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AUTHORIZED BY:

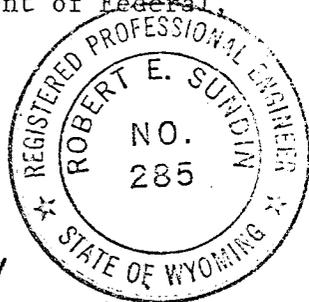


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



May 8, 1981
Date of Issuance

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

SPECIAL CONDITIONS

The granting of this permit by the Department of Environmental Quality does not in any way waive any of the terms and conditions of the Stipulation entered into between the permittee and the Department of Environmental Quality, dated March 20, 1981 (Environmental Quality Council Docket No. 643-79). This permit does not satisfy any terms and conditions of the said Stipulation.

The embankment shall be compacted to meet 80% relative density and/or 90% modified dry density.

cc: Michael J. Taylor
D'Appolonia Consulting Engineers, Inc.
7400 S. Alton Ct.
Englewood, CO 80112

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Ave., Suite 301
Sheridan, Wyoming 82801

PROJECT: Black Thunder Mine 16-SR 12 Reservoir

ARCHITECT OR ENGINEER: Charles B. Smith
Black Thunder Mine
P.O. Box 406
Wright, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBER: 81-209

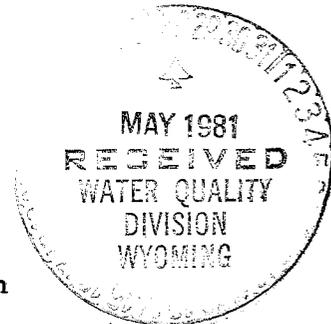
REVIEWING ENGINEER: Dan H. Kim, P.E. *DKim*

DATE OF REVIEW: May 26, 1981

ACTION: Not Authorized for Construction

COMMENTS:

1. Hydrologic design information should be provided, (i.e., drainage area, disturbed area, 10-year, 24-hour storm runoff, sediment yield, peak flow, pit water pump rate, etc.).
2. It is not clear whether this reservoir is intended to store pit water along with the runoff. If so, a discharge outfall number must be applied for and obtained from the permit section of this office.
3. Is a shutoff valve provided for the 8 inch CMP decant pipe? This valve should be installed such that it can be operated from the top of the dike.
4. Erosion protection is needed for the areas where water enters the pond by the inlet ditch and where it could leave via the spillway.
5. Construction specifications are needed including embankment preparation, degree of compaction, pipe installation, etc.
6. Are cutoff structures needed for 8 inch decant pipe?



JUN 29 1981

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 81-209R

BLACK THUNDER MINE 16-SR12 RESERVOIR
(Name of Facility)

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

ARCO c/o Mr. Roger Funston
Box 5300
Denver, Colorado 80217

to construct, install, or modify a runoff/sediment/pit water control pond

facility according to the procedures and conditions of the application No. 81-209R. The facility is located in Sec. 16, T.43N., R.70W.

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

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

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or 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

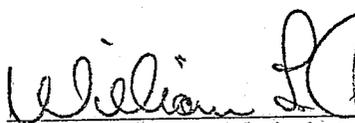
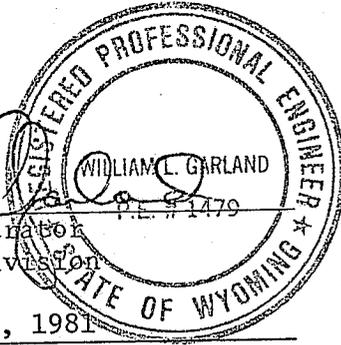
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

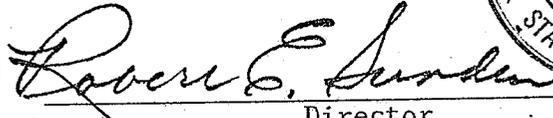
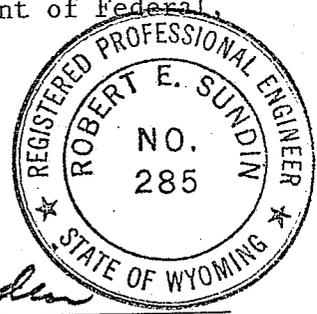
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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


Administraton
Water Quality Division



Director
Dept. of Environmental Quality


June 15, 1981
Date of Issuance

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

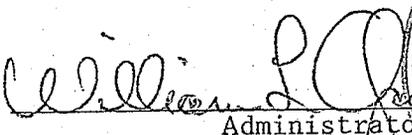
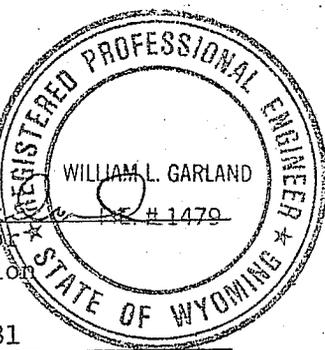
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

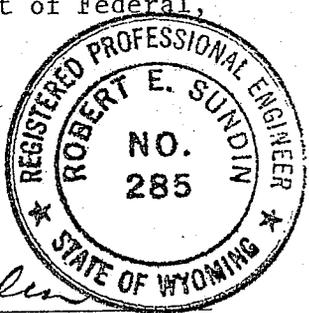
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AUTHORIZED BY:


WILLIAM L. GARLAND
#1479
Administrator
Water Quality Division



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


July 29, 1981
Date of Issuance

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

xc: Ed S. Scott, P.E.
Scott Engineering Company
P.O. Box 2097
Gillette, WY 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Ave., Suite 301
Sheridan, Wyoming 82801

PROJECT: J.W. Kraft & Company On-Site Sewage Disposal System

ARCHITECT OR ENGINEER: Edward S. Scott, P.E.
Scott Engineering Company
P.O. Box 2097
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBER: 81-210

REVIEWING ENGINEER: Dan H. Kim, P.E. *DK*

DATE OF REVIEW: May 27, 1981

ACTION: Not Authorized for Construction (See comments)

COMMENTS:

1. Design information should be provided, including per capita flow, wastewater produced, size determination of the septic tank and leach field, depth of groundwater table, etc. (Also, please complete the attached "Check List" and return to us.)
2. Are trenches used or is a leaching bed used? Please state the trench width if trenches are used. The disposal area is the bottom area of the trenches. If a leaching bed were used, a safety factor of 1.5 should be accounted for.
3. It appears that percolation rates on the proposed site vary significantly (197 min/in - 9 min/in). Therefore, it is recommended that six or more holes be used, spaced uniformly over the proposed leach field site. Also, water should be kept in the hole for at least 12 hours to allow the soil to swell.
4. Untreated building papers need to be laid above the perforated pipes.
5. Please indicate how the runoff will be diverted away from the leach field site.

ALL REPLIES SHOULD BE DIRECTED TO Dan H. Kim REF. NO. 81-210

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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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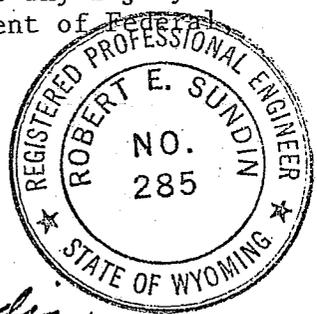
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal State or local laws or regulations.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director
Dept. of Environmental Quality



June 10, 1981
Date of Issuance

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

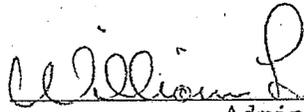
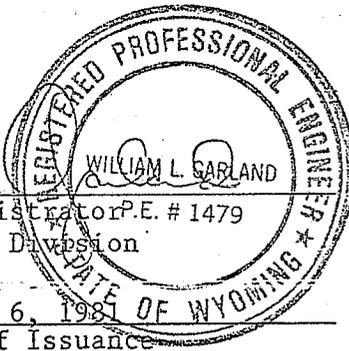
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

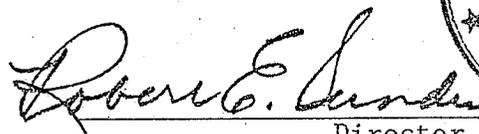
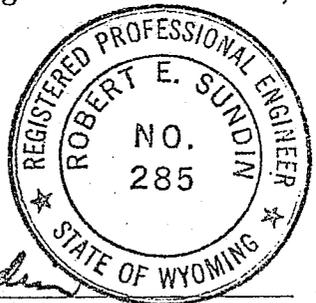
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, 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

July 6, 1981
Date of Issuance


ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

JCH:nb
7/6/81

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: HOLLY SUGAR CORPORATION MUD POND--WORLAND FACTORY

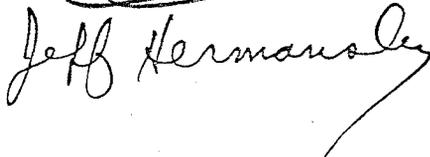
ENGINEER: SID K. M. WIN, HOLLEY SUGAR CORP.

OWNER: HOLLY SUGAR CORPORATION
P.O. BOX 1052
COLORADO SPRINGS, CO 80901

WATER QUALITY DIVISION REFERENCE NUMBER: 81-212 R

REVIEWING ENGINEER: JEFF HERMANSKY

DATE OF REVIEW: JUNE 10, 1981



ACTION: NOT AUTHORIZED.

COMMENTS: The information that has been submitted in your May 5, 1981 letter and enclosures has answered all the questions asked in my April 28, 1981 review of the project. However, the information submitted has revealed an area of concern.

Since the groundwater is 6 feet down from the ground surface and the proposal pond bottom is 5 feet below the ground surface, there would be only a one foot separation between the groundwater and wastewater. A minimum separation of 4 feet is required since the wastewater quality is so poor.

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

JH:sj

A, B

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Holly Sugar Corp. Mud Pond - Worland Factory

ENGINEER: Sid K. M. Win, Holly Sugar

OWNER: Holly Sugar Corporation
P.O. Box 1052
Colorado Springs, CO 80901

WATER QUALITY DIVISION REFERENCE NUMBER: 81-212

REVIEWING ENGINEER: Jeff Hermansky



DATE OF REVIEW: April 28, 1981

ACTION: Not authorized.

COMMENTS:

The following questions and comments need to be addressed before a "Permit to Construct" can be issued:

- 1) An analysis of the wastewater to be contained in the proposed pond must be submitted. The analysis should include BOC, TSS, phosphates, nitrates and temperature. Grab samples will be adequate.
- 2) Supply information regarding the total yearly quantity of wastewater expected and the loading rate of the aforementioned parameters.
- 3) How will the mud (sludge) be disposed of?
- 4) What is the depth to groundwater in the area of the proposed pond?
- 5) What soil type(s) is found at the proposed pond bottom elevation?
- 6) It would appear that you plan to construct the pond dikes from the material in the existing dike as well as from the excavated area for the new pond. Is this correct? If so, please submit information regarding the soil to be excavated so that I can evaluate its suitability for dike construction.

If you have any questions, please contact either Robin Collins or myself.

cc: Marion Yoder

AIC

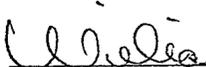
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

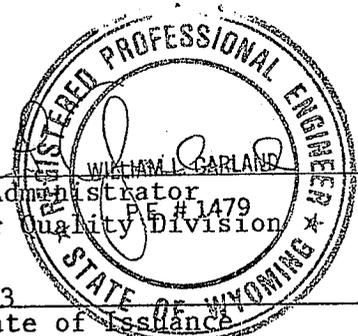
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

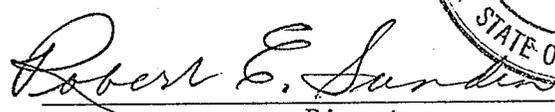
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

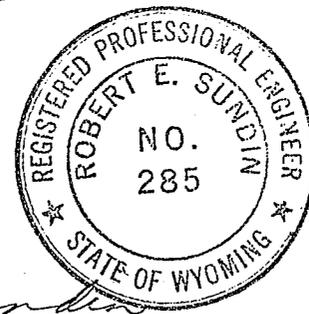
AUTHORIZED BY:



WILLIAM J. GARLAND
Administrator
Water Quality Division
PE # 1479

April 12, 1983

Date of Issuance



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

FL:dcn
(4/13/83)

WESTERN NUCLEAR, INC.



P. O. BOX 630 · JEFFREY CITY, WYOMING 82310 · (307) 544-2291

April 7, 1983

Mr. Frank LaBarge
Water Quality District Engineer
Department of Environmental Quality
Water Quality Division
210 Lincoln Street
Lander, Wyoming 82520

Re: Green Mountain Reservoir #1; Permit #81-213R

Dear Mr. LaBarge:

This letter is to state that in Western Nuclear's request for an extension of the Permit to Construct the Green Mountain Reservoir #1 the design and plan of construction is as originally submitted and approved.

Sincerely,

R.J. Cronk
Chief Engineer

cc: W. Almas
G. Bogden
L. Fenske



/bw

81-213R

WESTERN NUCLEAR, INC.



P. O. BOX 630 · JEFFREY CITY, WYOMING 82310 · (307) 544-2291

April 5, 1983

Mr. Frank LaBarge
Water Quality District Engineer
Department of Environmental Quality
Water Quality Division
210 Lincoln Street
Lander, Wyoming 82520

Re: Green Mountain Reservoir #1; Permit #81-213R

Dear Mr. LaBarge:

Western Nuclear, Inc. filed for a Permit to Construct, Permit #81-213R for the Green Mountain Reservoir #1 and a Permit was approved on May 5, 1981 by the DEQ-WQD. The purpose for construction of the new reservoir was to replace the Roberts #2 Reservoir which was to be destroyed during the course of mining operations.

Due to the current depressed state of the uranium market, mining operations have been placed on a maintenance/standby mode. Therefore, Roberts #2 Reservoir is still active and Western Nuclear has no immediate need for the Green Mountain #1 Reservoir. However, mining operations are expected to resume at some time in the future making construction of the new reservoir necessary. Therefore, an extension of three (3) years from the May 4, 1983 expiration date is requested. Please notify Western Nuclear prior to May 5, 1983 as to whether an extension has been granted.

If there are any questions regarding this matter please contact me at our Jeffrey City Office.

Sincerely,

R.J. Cronk
Chief Engineer



81-213R

cc: L. Fenske
W. Almas
G. Bogden

/bw

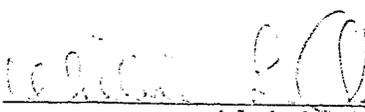
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

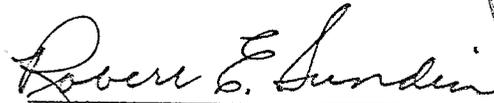
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

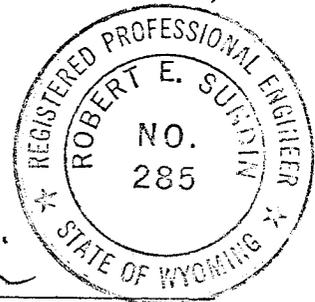
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
1470
Administrator
Water Quality Division


ROBERT E. SUNDEIN
Director
Dept. of Environmental Quality



May 5, 1981
Date of Issuance

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

MRC/pm

Takc

81-213



WESTERN NUCLEAR, INC.

P. O. BOX 630 • JEFFREY CITY, WYOMING 82310 • (307) 544-2291

February 16, 1988

Mr. Steve Gerber
Water Quality Supervisor
WDEQ-Water Quality Division
210 E. Lincoln St.
Lander, WY 82520

81-213

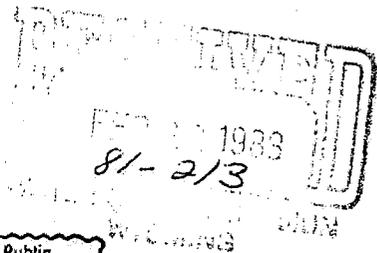
Dear Mr. Gerber:

This letter is to notify you that Western Nuclear, Inc. (WNI) has sold the mining properties collectively known as the Crooke Gap Mines encompassing the entire WDEQ-LQD Permit # 381-C Amendments A1, A2, A3 and A5 to U.S. Energy-Crested Corp. (USE-CC) effective February 9, 1988. WNI requests that permit # 81-213 R (WY STE ENG # 8571R) for the Green Mtn # 1 Reservoir associated with the proposed Congo Pit (381 C Amendment A 5) be transferred to U.S. Energy/Crested Corp. , 877 W. 8th West, Riverton, WY 82501.

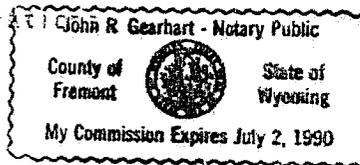
Thank you for your assistance in this matter.

Sincerely,

Roland W. Collins
General Manager Wyoming Operations



STATE OF WYOMING)
)
) SS.
COUNTY OF FREMONT)



The foregoing instrument was acknowledged before me this 16th day of February, 1988 by Roland W. Collins

Notary Public

My commission expires: July 2nd 1990
My address is: 130 E SUNSET DR RIVERTON WY 82501

cc: TAK-WNI
JRB-WNI
JL -USECC

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-214

CITY OF WORLAND'S TWO ARTESIAN WATER SUPPLY WELLS
(Name of Facility)

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

Board of Public Utilities
Agent - LaVerne Nelson, P.E.
P.O. Box 816
Worland, WY 82401

to construct, install, or modify two 16-inch diameter artesian
water wells

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

No. 81-214. The facility is located in _____
Well #2 - SE $\frac{1}{4}$, Sec. 35, T. 50N, R. 91W.
Well #3 - SW $\frac{1}{4}$, Sec. 1, T. 49N, R. 91W

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

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

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

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

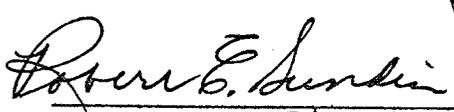
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

April 27, 1981
Date of Issuance


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

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

MRC:nb

Comments:

The aforementioned project is authorized and permitted for construction. The following comments are given as confirmation of action to be taken by the owner:

All well holes which have to be abandoned will be properly plugged, according to the standards from the State Engineer's Office.

MEMORANDUM

TO: Plans - DEQ #81-215
File

FROM: Frank LaBarge *FL*

DATE: June 24, 1981

SUBJECT: Creston Junction Trailer Court



On June 23, 1981, Melvin Roggow and Bob Konrath, of Creston Junction Trailer Court, met with me at the Lander office. They requested a meeting in response to my June 8, 1981 letter. Roggow was quite upset about the statement that if the plans are not approved quickly the matter would be referred to the Attorney General's Office.

He wanted to know what the problems were with the plans, so we went over them and my April 29, 1981 review letter. I inquired as to why the plans showed a liner. I explained that DEQ had informed his engineer, Rob Roy Logan, on May 13, 1981 that a liner was not required. This conversation with Logan is documented in my phone log.

Konrath and Roggow said they were unaware that the plans showed a liner. I then told them what I needed in order to approve the plans. The following information was requested:

- 1) A statement that there are not any wells, other than the one serving the trailer court, within one mile of the lagoon.
- 2) Show the direction of groundwater flow on the plans. Logan has previously stated the groundwater flows from the well towards the lagoon.
- 3) The depth of the static water level in their well.
- 4) Recalculate the lagoon size, using the appropriate percolation rate in the mass balance equation.
- 5) Answer my April 29, 1981 review letter. Question #3 (chemical and physical analysis of the well water) doesn't have to be done as per Tony -- see May 13, 1981 conversation in phone log. Questions 7, 9 and 12 don't need to be answered, as they are about the liner.

Roggow stated he would tell Logan to resubmit the plans and the above information as soon as possible. On this, the meeting concluded.

FL:nb

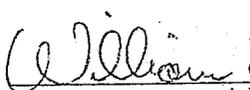
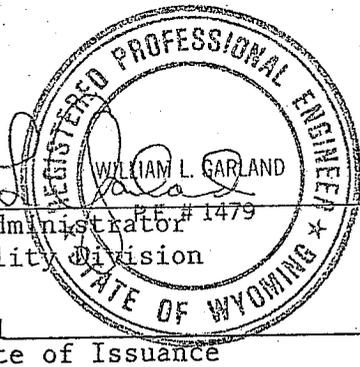
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

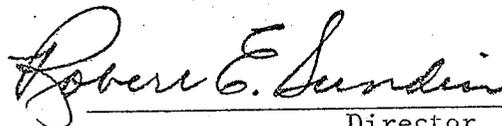
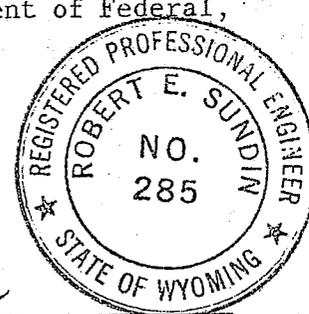
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, 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 # 1479
Water Quality Division

July 7, 1981
Date of Issuance


Director
Dept. of Environmental Quality


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

FL:ch

Change

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Creston Junction Trailer Court Lagoon Modifications

ENGINEER: Rob Roy Logan
R & E Engineering
Box 494
Rawlins, WY 82301

OWNER: Melvin Roggow
Creston Junction Trailer Court
Creston Junction, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 81-215RR

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

DATE OF REVIEW: July 1, 1981

ACTION: Not authorized.

COMMENTS: It was my understanding, as a result of my June 23, 1981 meeting with Mr. Roggow, that your reply would be complete and this matter resolved. However, after reviewing your submittal the following items still have not been properly addressed. You are hereby requested to respond to this review letter within two weeks. Upon a satisfactory reply, a "Permit to Construct" will be issued.

- 1) The direction of groundwater flow needs to be shown on the plans.
- 2) Several points in my April 29, 1981 review letter still have not been answered. They are:
 1. Resolved.
 2. Construction specs are needed.
 3. Resolved.
 4. A manhole detail is needed, including a flow channel detail.
 5. Resolved.
 6. Are the dimensions shown those of the pond that was recently constructed? If not, they should be.
 7. Resolved.
 8. Resolved.
 9. Resolved.

AIC

Review of Plans and Specifications

Creston Junction Trailer Court Lagoon Modifications, DEQ #81-215RR

Date of Review - July 1, 1981

Page Two

10. Resolved.
 11. How will the dikes be protected from erosion? This should be included in the specs.
 12. Resolved.
 13. Resolved.
 14. Resolved.
- 3) How did you arrive at the pond size? Calculations are needed.

Please submit the required information, in triplicate, to this office.

FL:nb
7/1/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Creston Junction Trailer Court Lagoon Modifications

ENGINEER: Rob Roy Logan
R & E Engineering
Box 494
Rawlins, WY 82301

OWNER: Melvin Roggow
Creston Junction Trailer Court
Creston Junction, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 81-215

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

DATE OF REVIEW: April 29, 1981

ACTION: Not authorized.

COMMENTS:

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

- 1) The previous application, DEQ #80-415RR, has been withdrawn per your requests.
- 2) Please submit the required construction specifications for this revised project. The specs should include a section on installation of the bentonite liner, including how the liner will be tested to verify the seepage rate called out in the specs.
- 3) This office requires copies of the physical and chemical tests run on the well. As of this date we have not received the results of these tests.
- 4) A manhole is required where the four sewer lines all join.
- 5) A sewer line profile is required from the manhole to the lagoon. Calculations verifying line capacities are required. Pipe material and specifications are needed.
- 6) Show the top of the dike dimensions in both directions.
- 7) The bentonite liner should extend to the top of the dike.

... /2

A, B, C

Review of Plans and Specifications

Creston Junction Trailer Court Lagoon Modifications (81-215)

Date of Review - April 29, 1981

Page Two

- 8) How much freeboard is allowed? It appears to be 3', but since the plans are not to scale this needs to be clarified.
- 9) How thick will the bentonite liner be? This must be shown on the plans.
- 10) The plan view does not show the cleanout shown on the cross-section.
- 11) How will the dikes be protected from erosion?
- 12) Results are needed of the tests run on the proposed seal material. The required liner thickness can then be determined from this test.
- 13) The pond bottom should be level. This is not shown.
- 14) The influent line needs to be anchored.

I have reviewed the design calculations, and the following points must be resolved.

- 1) An evaporation rate of 0.17 gal/day/ft.² is equal to an annual evaporation rate of 99.5 in./yr. This is much too high. Our references indicate an annual evaporation rate of 55 in./yr. in that area.
- 2) My calculations indicate a surface area of 105,642 ft.², or 2.43 acres, is required. Using a retention time of 150 days, the required depth would be 3.6 feet. These values were arrived at by a mass balance using a precipitation rate of 9 in./yr., evaporation rate of 55 in./yr., percolation rate of 0, and inflow rate of 8,300 gal./day.

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



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 17, 1981

R & E Engineering
P.O. Box 494
Rawlins, WY 82301

ATTN: Rob Roy Logan

RE: Creston Junction Trailer Court Modifications, DEQ #81-215

Dear Mr. Logan:

In reply to your June 12, 1981 letter I would like to offer the following comments.

I agree with your figure of 0.17 gpd for the evaporation rate. Assuming seven months of evaporation, this equals 58 inches of evaporation per year. This is acceptable. Following is my mass-balance calculation which you requested:

INFLOW: 8,300 gpd = 111.56 ac.-in/yr

PRECIPITATION: 9 in/yr

EVAPORATION: 55 in/yr

PERCOLATION: 0

$$\text{Inflow} + \text{Precipitation} = \text{Percolation} + \text{Evaporation}$$

$$111.56 \frac{\text{ac-in}}{\text{yr}} + 9 \text{ in/yr} = 0 + 55 \text{ in/yr}$$

ac. = 2.43 = 105,642 ft² of surface area required

RETENTION TIME: Use 150 days as minimum

REQUIRED DEPTH: $\frac{150 \text{ days } (8,300 \text{ gpd})}{7.481 \text{ gal/ft}^3 (43,560 \text{ ft}^2/\text{ac}) (2.43 \text{ ac})} + 2 \text{ ft} = 3.6 \text{ ft.}$

B.O.D. LOADING: 220 mg/l x 3.785 l/gal x 8,300 gal/day x 1 lb/453,592 mg = 15.24 lb/day;
therefore

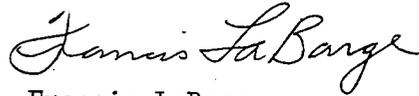
$$\frac{15.24 \text{ lb/day}}{2.43 \text{ ac.}} = 6.27 \text{ lb. of B.O.D./ac/day}$$

A

R & E Engineering
June 17, 1981
Page Two

A reply to my April 29, 1981 review letter is needed as soon as possible, If you have any questions, contact me at this office.

Yours truly,



Francis LaBarge
Water Quality Evaluator
Southwest District

FL:nb

cc: Cheyenne DEQ/WQD

Melvin Roggow, Creston Junction Trailer Court. Creston Junction, WY 82301

PERMIT TO CONSTRUCT NewPermit No. 81-216R Renewal ModifiedGIFFORD ELECTRIC SUPPLY, INC. WASTEWATER DISPOSAL SYSTEM
(Name of Facility)

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

Gifford Electric Supply, Inc.

c/o J. H. Kincheide11th St. and Kno PlaceRapid City, SD 57701to construct, install, or modify a septic tank - absorption bed

facility according to the procedures and conditions of the application

No. 81-216R. The facility is located in _____Sec. 8, T. 52N, R. 101Win the County of Park, in the State of Wyoming. This permit shall be effective for a period of two years (five (5) years maximum) from the date of issuance of this permit.

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

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

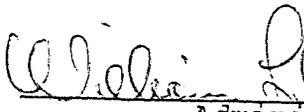
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

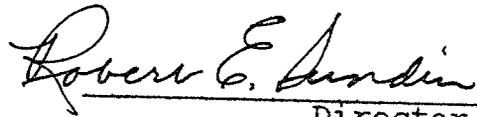
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:




WILLIAM L. GARDAND
Administrator # 1479
Water Quality Division
April 29, 1987
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. GARDAND".


Director
Dept. of Environmental Quality

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

MRC:nb

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Gifford Electric Supply, Inc. Wastewater Disposal System

ENGINEER: Engineering Associates
P.O. Box 1900
Cody, WY 82414
Attn: R. L. Jacobson, P.E.

OWNER: Gifford Electric Supply, Inc.
11th St. & Kno Place
Rapid City, SD 57701
Attn: J. H. Kinchelde

WATER QUALITY DIVISION REFERENCE NUMBER: 81-216

REVIEWING ENGINEER: M. Robin Collins, P.E. *M. Robin Collins*

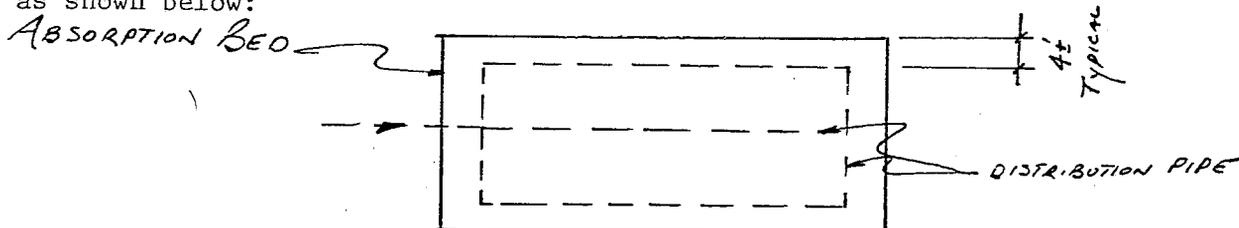
DATE OF REVIEW: April 24, 1981

ACTION: Not authorized.

COMMENTS:

The following comments and recommendations are given in order to assist you in obtaining the necessary permit:

- 1) A letter of approval from the property owner of Ressay Road, for placing the evapotranspiration bed less than ten feet from their property line, is required.
- 2) Recommend the distribution piping within the evapotranspiration bed follow the pattern as shown below:



- 3) Recommend the bed be at least four feet in depth with roughly 6-9 inches of sandy topsoil. Also, green plants which will not form a heavy mat should be specified for the bed's cover.

If further information is required, please do not hesitate to advise.

A.B.C

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.

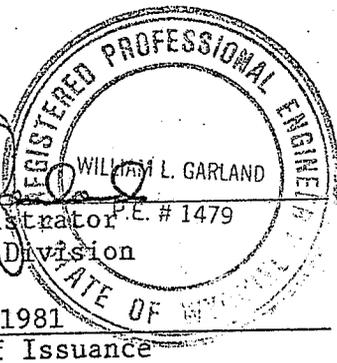
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

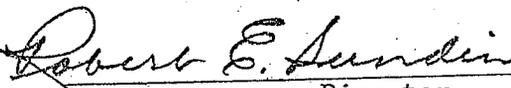
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

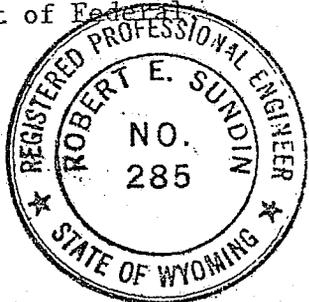
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 12, 1981
Date of Issuance




Robert E. Sundin
Director
Dept. of Environmental Quality



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

FL:d1
8/13/81

*Construction of the four above referenced ponds began in violation of W.S. 35-11-801(c) and W.S. 35-11-301(a)(iii) of the Wyoming Environmental Quality Act as amended and Chapter III of the Wyoming Water Quality Rules and Regulations. This permit includes approval of the "as built" portion of the application and authorizes the construction necessary to complete the four ponds.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144



PROJECT: Carter Creek Gas Processing Facility "as built"

ENGINEER: Fluor Corp./Daniel Construction
P. O. Box 966
Evanston, WY 82930
ATTN: Joseph Wiley

OWNER: Chevron U.S.A., Inc.
P. O. Box 599
Denver, CO 80201
ATTN: Jeanette Marshall

WATER QUALITY DIVISION REFERENCE NUMBER: 81-217R

REVIEWING EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: July 31, 1981

ACTION: "As Built" Not Approved

COMMENTS: Based upon our July 30, 1981 meeting and my review of the above referenced plans, the following points need to yet be resolved. My comments are in the same order as in the May 26, 1981 review letter.

1. Resolved.
- 2(a). Resolved.
- 2(b). The sludge disposal site has to be verified. If the sludge is to be disposed of at a site owned by someone other than Chevron, a letter is needed from the owner or his representative stating they will accept the sludge. If Chevron elects to develop their own private sludge disposal site, verification is needed from the Solid Waste Disposal Section in Cheyenne, that they will permit this.
3. Resolved.
4. Resolved.
5. Resolved.
6. Resolved.
7. Resolved.
8. Resolved.
9. Resolved.
10. Resolved.

Review of Plans & Specifications
Carter Creek Gas Processing Facility "as Built"
Page 2

Please submit the required information, in triplicate, to this office. In addition, three copies of your formal reply to my May 26, 1981 review letter is needed as we discussed. If you have any questions, please call me.

FL:dl

8/3/81

cc: Jake Strohman - Engineering Control Supervisor, Cheyenne DEQ/WQD
Tony Mancini - Groundwater Control Supervisor, Cheyenne DEQ/WQD
Steve Jones - Assistant Attorney General

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

CERTIFIED MAIL

PROJECT: Carter Creek Gas Processing Facility "As Builts"

ENGINEER: Fluor Corp./Daniel Construction
P.O. Box 966
Evanston, WY 82930
ATTN: Joseph Wiley

OWNER: Chevron U.S.A., Inc.
P.O. Box 599
Denver, CO 80201
ATTN: Jeanette Marshall

WATER QUALITY DIVISION REFERENCE NUMBER: 81-217

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

DATE OF REVIEW: May 26, 1981

ACTION: ~~XXXXXXXXXXXX~~ "As Builts" Not Approved

COMMENTS:

The following points need to be resolved before the above referenced plans can be accepted and a permit issued for modifications.

- 1) Please identify what can attack the proposed hypolon liner and verify if any such materials are in the process solutions or can get into the ponds.
- 2) The raw water pond dewatering time frame has to be decreased. This pond is classified as a runoff control pond. A reasonable time frame for dewatering would be within ten days after an event. Because the water will not be discharged, but will be used in the plant, you will not need a discharge permit.
- 2) Sludge disposal has to be addressed, as we discussed.
- 3) The wave height calculations indicate the freeboard proposed will be adequate; however, as we discussed, wave arrestors may be installed at a later date, if a problem develops. Please note this in your report.
- 4) Please provide information on the depth to groundwater. As stated, on May 26, 1981, Chevron drilled a dry hole 4,000 feet in the area of the ponds. Please note this in the application, with a map showing the location of the drill hole in relation to the pond sites.

AIC

Review of Plans and Specifications

Carter Creek Gas Processing Facility "As Built"

Date of Review - May 26, 1981

Page Two

- 5) The liner installation specification must state a manufacturer's representative or other qualified person will supervise installation of the liner.
- 6) Please supply pump curves and reference where the pump specifications can be found, as we discussed.
- 7) The leak detection trench detail needs to be revised, as we discussed.
- 8) A detail is needed of the leak observation sump.
- 9) The pond operation specs must state how often the leak detection system will be monitored, what Chevron will do if a leak is discovered (i.e., notify DEQ within one working day of the discovery of the leak, provide a copy of the lab analysis, when the pond will be isolated, when repairs will be completed, etc.).
- 10) Construction drawings are needed of all four ponds. A cross-section of each is needed as well as details of any transfer structures.

As we discussed, the question of the injection wells will be handled separately. Tony Mancini has requested that additional information be provided so it can be determined as to how the wells will be permitted (i.e., between DEQ and the Oil and Gas Commission). It is suggested the following information be provided:

1. Locations
2. Underlying formations
3. Classification of aquifers intercepted
4. Source of wastewater to be injected
5. Characteristics of waste materials to be injected
6. Methods of control of injection
7. Methods of monitoring and testing of injection waste

Please contact me when you are ready with your reply so a meeting can be arranged between Chevron, myself and Tony Mancini. It would be appreciated if you could give me two weeks' notice.

The sediment runoff control plan for the job site needs to be permitted. As we discussed, this can be handled under a separate application. I have enclosed another copy of the DEQ "Guidelines on Construction Authorization for Sediment Control Structures and Ponds at Surface Mining Operations." These guidelines also apply in your case.

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

Enclosure

cc: ✓ Jake Strohman, Engineering Control Supervisor, Cheyenne DEQ/WQD
Tony Mancini, Groundwater Control Supervisor, Cheyenne DEQ/WQD
Steve Jones, Assistant Attorney General



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Frank LaBarge

VIA: Tony Mancini *adm*

FROM: Dick Lennox *Dick Lennox*

DATE: May 18, 1981

RE: Carter Creek Gas Processing Plant Wastewater Treatment Facilities Retention Ponds - Construction Permit, Uinta County, Wyoming

1. A review of subject plans and specifications from a groundwater protection point-of-view has resulted in the following:
 - a. Retention ponds - based on the soil borings and plans for lining the various ponds. Groundwater protection appears adequate, therefore, no comment.
 - b. Sewage Treatment - Once the decision has been made concerning whether or not to use a leach field or package plant system, a separate permit to construct will be necessary.
 - c. Deep Well Injection - in that all wastewater system are interconnectable, the potential for injecting a plume of contaminants into a groundwater aquifer below the level of the test borings exists.
2. It is requested that more information concerning the Deep Well(s) be provided such as:
 - (1) location
 - (2) underlying formations
 - (3) classification of aquifers intercepted
 - (4) source of wastewater to be injected
 - (5) characteristics of waste materials to be injected
 - (6) methods of control of injection
 - (7) methods of monitoring and testing of injection waste.

Refer to Water Quality Rules and Regulations, Chapters VIII and IX.

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Plum Tree Village Condominiums

ENGINEER: Busch & Gudgell, Inc.
P.O. Box 1144
Rock Springs, WY 82901

OWNER: Bud Bailey Construction Co.
Box 11838
Salt Lake City, UT 84147

WATER QUALITY DIVISION REFERENCE NUMBER: 81-218

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: April 29, 1981

ACTION: Not authorized.

COMMENTS:

Before a "Permit to Construct" can be issued the following items must be resolved.

- 1) Minimum sewer slope is 0.4%. Three sewer lines are shown at less than this minimum. Service lines should be laid at 2%.
- 2) The water service detail on sheet 12 of 27 needs clarification.
- 3) Profiles of water and sewer mains are required. All crossings must be shown on these profiles.
- 4) Minimum cover to the top of water main is 6 feet.
- 5) Minimum horizontal separation of water and sewer mains is 10 feet. Sheet 13 of 27 notes the maximum is 6 feet. Several service lines are shown to be very close together.
- 6) Please specify the VCP and ACP pipe on the drawings. That is, what ASTM designation must the pipe meet.
- 7) The water and sewer drawings are not stamped or signed by a Wyoming registered engineer.

Review of Plans and Specifications, Plum Tree Village Condominiums (81-218)

Date of Review - April 29, 1981

Page Two

- 8) A cleanout detail is needed.
- 9) A letter is needed from the city stating what they will accept and can treat the anticipated wastewater flows. A similar letter should be gotten from the water utility.

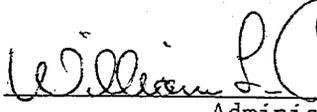
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

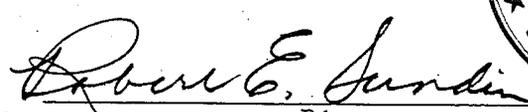
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, 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
June 5, 1981
Date of Issuance


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

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

lef 5-26-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-219R

Indian Hills Condominia
(Name of Facility)

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

Door, Ltd.

1325 Indian Hills Drive

Laramie, WY 82070

to construct, install, or modify a municipal public water supply and wastewatercollection systems facility according to the procedures and conditions of the application No. 81-219R. The facility is located in Section 26, 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.

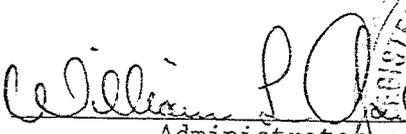
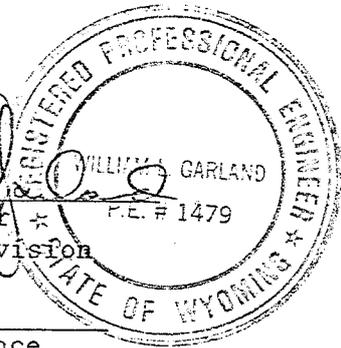
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

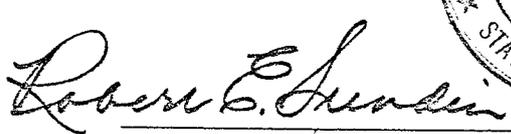
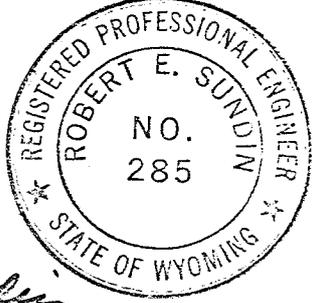
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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


Administrator *
Water Quality Division
P.E. # 1479



Director
Dept. of Environmental Quality


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

cc: W. E. Grenier
Associated Engineers
910 Garfield
Laramie, WY 82070

Lef 11-5-181

Review of Plans and Specifications

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

PROJECT: Indian Hills Condominia

ARCHITECT OR ENGINEER: W.E. Grenier, Associated Engineers
910 Garfield, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 81-219

REVIEWING ENGINEER: *L. C. Feusner*
Leroy C. Feusner, P.E.

DATE OF REVIEW: April 29, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide a letter from the City of Laramie indicating that they can adequately supply at least 350 gallons/unit of drinking water at a minimum pressure of 20 psi under all conditions of flow.
2. Provide a letter from the City of Laramie that they can adequately transport and treat the additional hydraulic and organic load in their sewer and treatment lagoons.
3. Four inch PVC sewer pipe appears to be too small for design. Increase size to six inch.
4. We will require one additional set of specifications for project.

M
6-3-81

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 81-220R

Ref. No. 81-60

Hanna Waterline Replacement - West Line
(Name of Facility)

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

Town of Hanna

P. O. Box 99

Hanna, WY 82327

to construct, install, or modify a 8-inch potable waterline facility according to the procedures and conditions of the application No. 81-220R. The facility is located in Sections 18 & 19, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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.

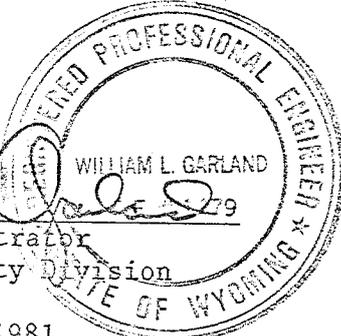
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

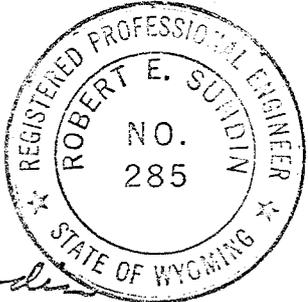
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
279
Administrator
Water Quality Division
STATE OF WYOMING

May 26, 1981

Date of Issuance


Robert E. Sunden
Director
Dept. of Environmental Quality

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

cc: Paul McCarthy, Jr.
Robert Jack Smith & Associates, Inc.
P. O. Box 1104
Rawlins, WY 82301

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Review of Plans and Specifications

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

PROJECT: Hanna Waterline Replacement

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

WATER QUALITY DIVISION REFERENCE NUMBER: 81-220 Ref. No. 81-60

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

Theodore D. Coyer

DATE OF REVIEW: May 7, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application requesting a modified permit must be submitted.
2. Will the specifications approved by construction permit 81-60R apply to this project?

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-221RRR

Tennessee Ernie's Trailer Acres
(Name of Facility)

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

Ernie Johnson

P. O. Box 1111

Douglas, WY 82633

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 81-221RRR. The facility is located in Section 34, T33N, R71W in the County of Converse, in the State of Wyoming.

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

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

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

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

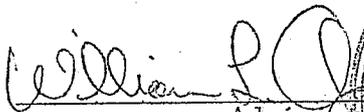
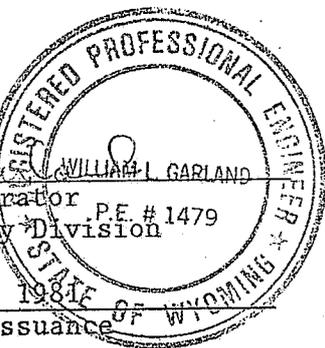
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

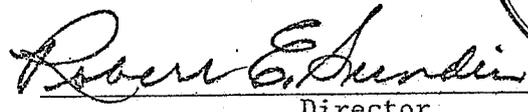
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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 PE # 1479
Water Quality Division
August 3, 1981
Date of Issuance



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

cc: John A. Lambert
Box 34
Douglas, WY 82633

Marion Yoder

lej M-7-9-81

Review of Plans and Specifications

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

PROJECT: Tennessee Ernie's Trailer Acres

ARCHITECT OR ENGINEER: John A. Lambert, P.E.
P.O. Box 34, Douglas, WY 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 81-221RR

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

DATE OF REVIEW: July 6, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide a disconnecting pipe union in the pump discharge piping at the high point.
2. If the pump discharge piping is not strong enough to lift out the pump, please provide a chain for that purpose.
3. The "second pump on and alarm level" must not be higher than the septic tank outlet (elev. 49.82). The first pump level must be adjusted accordingly.
4. The bypass pipe to the existing leach field is too high (elev. 52.12). Before effluent could flow into it, the septic tank would be completely flooded (elev. 50.07). This is unacceptable.
5. Please indicate the percolation rate for the leach field area.

cc: Ernie Johnson
Box 1111
Douglas, WY 82633

Review of Plans and Specifications

M
6-10-81

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

PROJECT: Tennessee Ernie's Trailer Acres

ARCHITECT OR ENGINEER: John A. Lambert, P.E.
P.O. Box 34, Douglas, WY 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 81-221R

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

Theodore D. Coyer

DATE OF REVIEW: June 10, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. What is the percolation rate of the soils on the proposed sewage disposal area?
2. What is the slope of the ground in the drainfield area?
3. The distance to the seasonally high groundwater table, bedrock, or other impervious layer must be specified.
4. What is the length of the first compartment of the septic tank?
5. What will be the depth of burial of the septic tank?
6. Design details of the dosing pump wet well must be provided. Can the old septic tank be partitioned and converted to a wet well?
7. The switching levels (pump on, pump off, 2nd pump on and alarm) in the dosing chamber wet well must be shown.
8. The dosing chamber should be large enough to provide a dose to the drainfield of no less than 25 percent of the daily flow. This would allow periodic resting of the drainfield.
9. The packaged lift station (dosing pumps) must not be located directly over the wet well because gases would vent into it through the drain and the hatch opening in the bottom of it. Although the hatch opening would normally have a gasket to prevent this from happening, the gasket is usually not replaced after a few uses of the opening. Also, check valves are not a reliable method of sealing the drain.
10. An audio or visual alarm must be provided in a conspicuous location to warn in case of dosing pump failure.
11. Which one of the "PACO" pumps do you intend to specify?
12. Do the pumps alternate?

13. What is the pump suction lift distance?
14. What is the size of the force main?
15. Please show the elevations of the force main at the pumps and the distribution box. Will there be any points where air could be trapped?
16. The "bypass to existing field" should be located at the pressure side of the pumps so that the old drainfield would be dosed if used.
17. What are the sizes of the distribution pipes in the drainfield (between the distribution box and the drainfield lateral pipes).
18. The aggregate used around the drainfield pipes must not be smaller than 1/2 inch.

L.E.J.

Review of Plans and Specifications

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

PROJECT: Tennessee Ernie's Trailer Acres

ARCHITECT OR ENGINEER: John A. Lambert, P.E.
P. O. Box 34, Douglas, WY 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 81-221

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



DATE OF REVIEW: May 7, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The enclosed "application for permit to construct" must be completed and returned to this office.
2. The plans must be sealed or signed by you.
3. The lagoon will function as designed only if the exfiltration rate is 1/4-inch per day after the system is constructed. The exfiltration rate is a very sensitive parameter. If the rate is only 1/8-inch per day when the system is complete, the dikes would be over topped in about 15 months. If it is 3/8-inch per day, I doubt a satisfactory water level could be maintained in the lagoon. Therefore, the system must be designed with a minimum of two cells. One could then be sealed to some design specification and the other could then be used for seepage. The primary treatment cell must be designed to accommodate the organic loading.
4. The permeability and soils classification of the lagoon site must be provided.
5. The depth to the seasonably high groundwater table must be indicated.
6. Chapter VIII of the Water Quality Rules and Regulations, Section 3, c states that: "Protection shall be afforded all underground water bodies (including water in the vadose zone)." This is required regardless of whether or not the groundwater is currently used. (A copy of Chapter VIII is enclosed for your use.) The degree of protection depends on the classification of the groundwater. Therefore, a sample of the groundwater must be obtained and be analyzed for the following parameters as a minimum: Arsenic, Barium, Cadmium, Chloride, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nitrate, Selenium, Silver, Sulfate, Total Dissolved Solids, Zinc and pH. Once the groundwater is classified, it must be protected for that use.
7. Details of the lagoon construction, including interior dike erosion control and inlet pipe materials and discharge pad must be provided. Also, specifications for compaction of the dikes must be provided.
8. The lagoon must be completely fenced. The fence must be provided with a locked gate and warning signs. An all weather driveway must be provided to the lagoon site.

Please provide a copy of the pump curve for the lift station pumps. Also, if this is a packaged unit, some catalog cuts of it would be very helpful.

10. The lift station pumps shall be readily removable and replaceable without dewatering the wet well or disconnecting any piping in the wet well.
11. The bottom of the wet well must be sloped (1:1) to the pump suction.
12. The switch control elevations in the lift station wet well must be shown.
13. The elevation of the bottom of the wet well and the inlet pipe must be shown.
14. The lift station check valves and gate valves must be located in a separate chamber.
15. The electrical equipment for the lift station (such as junction boxes) that is located in the wet well must meet Class 1, Group D, Division 1 requirements for hazardous applications and must be designed for use in corrosive environments. Also, all conduits entering the wet well must be sealed using an appropriate sealing fitting. The electrical controls should not be located directly over the wet well.
16. Some type of standby power should be provided to insure continuous operation of the lift station. You could use a portable gasoline pump for that purpose. It should be set up for quick connection to the system in the event of lift station failure.
17. The gravity sewer pipe specifications must be provided. The pipe must not be smaller than 6-inch diameter depending on flow.
18. A detail of the manholes must be provided.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

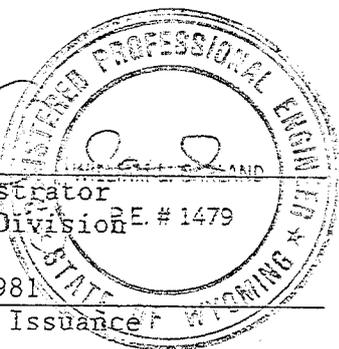
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

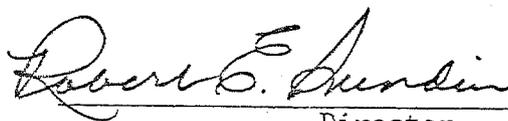
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

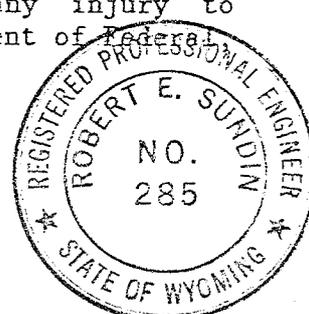


Administrator
Water Quality Division E. # 1479
May 4, 1981
Date of Issuance





Director
Dept. of Environmental Quality



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

MRC/pm

PERMIT TO CONSTRUCT

New

Permit No. 81-223

Renewal

Modified

WORLAND'S WATER SYSTEM IMPROVEMENTS -- BIG HORN AVE. & 10th ST.
(Name of Facility)

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

Board of Public Utilities
c/o Timothy McHenry
P.O. Box 226
Worland, WY 82401

to construct, install, or modify water main replacements

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

No. 81-223. The facility is located in _____
Sec. 25, T. 47N, R. 92W.

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

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

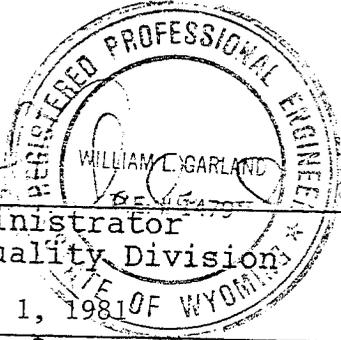
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

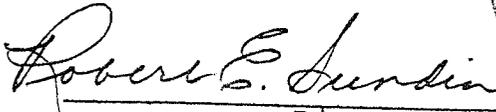
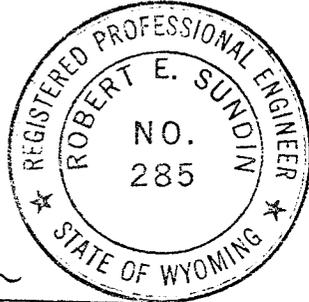
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division
May 1, 1981
Date of Issuance



Director
Dept. of Environmental Quality

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

MRC:nkb

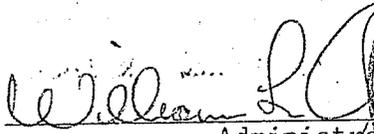
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, 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
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

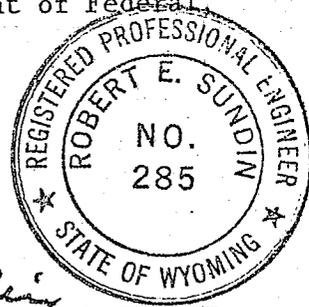
Administrator
Water Quality Division

July 8, 1981

Date of Issuance



Director
Dept. of Environmental Quality



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

FL:nb
7/9/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Chevron-Carter Creek Project Bachelor Housing Facility Expansion

ENGINEER: Uinta Engineering & Surveying, Inc.
P.O. Box 746
Evanston, WY 82930
Attn: Ken Walker

OWNER: Daniel Construction Co.
5100 Southwest Freeway
Houston, TX 77056

WATER QUALITY DIVISION REFERENCE NUMBER: 81-224

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

DATE OF REVIEW: May 13, 1981

ACTION: Not authorized.

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

GENERAL COMMENTS

- 1) The NPDES Permit Application Number is needed on question 5 of the "Application for Permit to Construct" form.
- 2) Is the proposed addition in a flood plain?
- 3) If any dewatering will take place during construction, a dewatering permit (form enclosed) must first be obtained.
- 4) I assume the Wyoming Public Works Standard Specifications are to be used in conjunction with the special provisions. This must be noted on the plans.

WATER SYSTEM

- 5) All public water supplies must be under the direct responsible charge of a certified operator. Has Bill Loft, of our Cheyenne office, been contacted on this matter?
- 6) Is the water system on a monthly monitoring program, as required by the EPA?
- 7) Physical, chemical and bacteriological test results are needed for the proposed well.

Review of Plans and Specifications

Chevron-Carter Creek Project Bachelor Housing Facility Expansion

Date of Review - May 13, 1981

Page Two

- 8) Results of the yield and drawdown tests conducted on the proposed well are needed. It is assumed the proposed well will have a minimum capacity of 100 gpm, which is unacceptable. The system must be designed on actual yield data. The total developed ground water source capacity shall equal or exceed the design maximum day demand and equal or exceed the design average day demand with the largest producing well out of service.
- 9) Details are needed of the proposed well location, as it relates to required separation between existing and potential sources of contamination and groundwater development.
- 10) The soil profiles from the drillers log are required to determine how far the grout should extend.
- 11) Details are needed of how the well was developed.
- 12) Pump curves are needed along with the head calculations.
- 13) Is standby power available?
- 14) The surge control valves need to be sized.
- 15) Scales are needed for weighing chlorine cylinders.
- 16) A method of chlorine leak detection is required.
- 17) The capacity of the ventilating fans need to be specified.
- 18) The chlorinator needs to be specified. Details are needed of the diffusion, maximum and minimum feed ranges and how the chlorine system will be installed.
- 19) Are feeders to be manually or automatically controlled?
- 20) The water lines should have a minimum of 6' of cover measured from the top of the pipe to the final ground elevation. The special provisions call for only 4' of cover in certain places.
- 21) The water line profiles should show line intersections, valves, grades, etc.
- 22) Horizontal separation distances between the water and sewer lines should be shown on the plan view.
- 23) A profile is needed of the water line from the proposed well to its intersection with the existing 8" line. Details are needed of the connection.
- 24) A description of the existing system is needed. This includes capacities, demands, etc. The existing storage tank capability to handle the additional volumes of water must be clearly addressed with the necessary calculations.

Review of Plans and Specifications

Chevron-Carter Creek Project Bachelor Housing Facility Expansion

Date of Review - May 13, 1981

Page Three

- 25) Please expand upon the calculations for water pressure. What is the highest pressure in the system? At a minimum, the storage tank elevation and high and low lot elevations should be included.
- 26) SP-2.04 Water Service in the Special Provisions does not agree with the service line detail.

SEWER SYSTEM

- 27) The sewer line from MH 28 into Cell A must be hydraulically justified. If it can handle the flow it is then obvious the rest of the lines can, and no further calculations are required.
- 28) The direction of flow in existing and proposed sewers should be shown on the plans.
- 29) The sewer service detail does not show any riser pipe protection.
- 30) The riser pipe should be plugged with a watertight cap or plugged when a unit does not occupy the space.
- 31) The dimensions of Cell A must be shown on the plans.
- 32) What is the anticipated BOD level of the discharge from Cell 3?
- 33) The existing facilities have not been addressed. Verification is needed that the flume, chlorine contact chamber, etc. will be adequate for the additional flow.
- 34) Calculations used to size the aerators are needed. Manufacturer's specs would be helpful.
- 35) A soil profile of the lagoon area is needed.
- 36) A description, including maps showing elevations and contours of the site and adjacent area, is required.
- 37) What is the depth to groundwater?
- 38) Results of the testing program to determine the required thickness of the bentonite liner are required. Based upon these results, the liner thickness must be shown on the plans.
- 39) A spec on liner installation is required.
- 40) Aerated ponds should have some type of erosion protection on the dikes.

Review of Plans and Specifications

Chevron-Carter Creek Project Bachelor Housing Facility Expansion

Date of Review - May 13, 1981

Page Four

41) Aerated cells should have influent lines which distribute the load within the mixing zone of the aerators. How far does the influent line into Cell A terminate from the toe of the dike? This needs to be shown on the plans.

42) Pond level gauges should be provided.

Please submit the required information and revised drawings, in triplicate, to this office. This does not necessarily constitute the final review. If you have any questions, contact me at this office.

FL:nb

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 23, 1981

Uinta Engineering & Surveying, Inc.
P.O. Box 746
Evanston, WY 82930

Attn: Ken Walker

RE: Chevron-Carter Creek Project
Bachelor Housing Facility Expansion
DEQ #81-224

Dear Mr. Walker:

As of this date I have not received any reply to my May 13, 1981 review letter (copy enclosed) concerning the above referenced project. You are hereby requested to inform this office, in writing, of the status of this project. If the project is to continue, when can a reply be expected; if has been abandoned, please request the application be withdrawn.

Yours truly,

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

Francis LaBarge
Water Quality Evaluator
Southwest District

FL:nb

Enclosure

cc: ~~U~~ Cheyenne DEQ/WQD

Daniel Construction Co., 5100 Southwest Freeway, Houston, TX 77056
File (2)

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

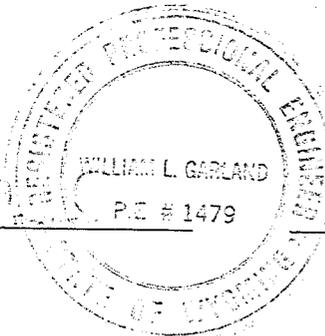
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

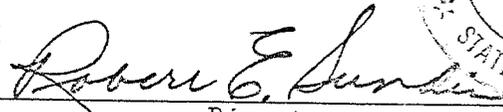
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

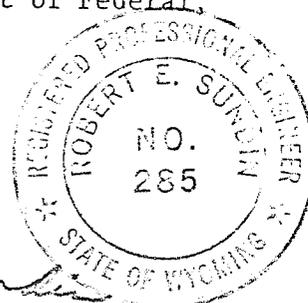


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



May 11, 1981
Date of Issuance

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

FL/tc

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Daniel Construction Company/Chevron Carter Creek
Temporary Waste Disposal System at the Sulfur Loading Facility

ENGINEER: Daniel Construction Company
P.O. Box 966
Evanston, WY 82930
ATT: J.J. Wiley

OWNER: Daniel Construction Company
P.O. Box 966
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 81-226

REVIEWING ^{EVALUATOR} ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: May 1, 1981

ACTION: Not authorized.

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

1. How long do you expect the temporary facilities to be in use?
2. The minimum size sewer lines should be 6 inches for the main and 4 inches for the service lines.
3. A profile is required of the 6 inch main.
4. It is suggested a manhole be placed at the beginning of the 6 inch main. If the line is less than 400 feet long there is no need for additional manholes or cleanouts.
5. What type of connection will be used between the service line and main? They must be specified.
6. Complete and detailed construction specifications are required.

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

FL/pm

A, B, C

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, 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
WILLIAM L. GARLAND
P.E. #1479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

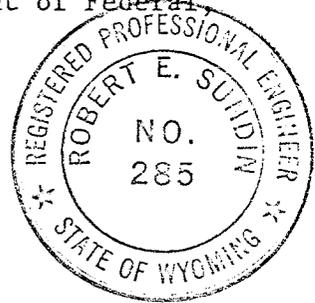
Administrator
Water Quality Division

May 6, 1981

Date of Issuance

Robert E. Suidin

Director
Dept. of Environmental Quality



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

MRC/kn

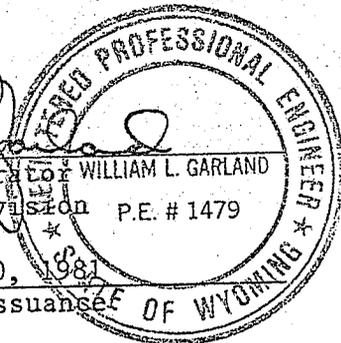
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

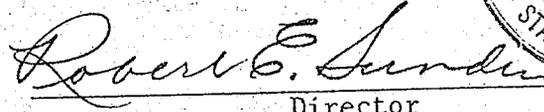
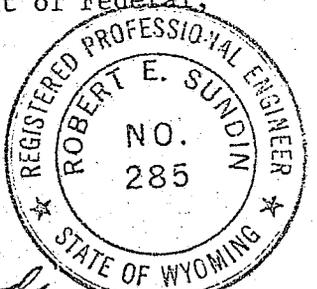
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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 WILLIAM L. GARLAND
Water Quality Division P.E. # 1479
October 30, 1981
Date of Issuance



Director
Dept. of Environmental Quality


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



Department of Environmental Quality
Water Quality Division

210 LINCOLN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 16, 1981

Mr. Kenneth Walker
Uinta Engineering & Surveying, Inc.
P.O. Box 746
Evanston, Wyoming 82930

RE: Flipper Stick Park, DEQ Permit
#81-228RR

Dear Mr. Walker:

I am in receipt of your November 13, 1981 request to replace the approved clay liner in the Flipper Stick Park lagoons with a Hypalon liner. Please be advised that this is considered a major modification of an existing permit and, therefore, cannot be processed as a change order.

In order to receive approval of the proposed liner change an application for a permit to modify the approved plans will have to be filed. The application should include revised plans, specifications and all support data.

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

Yours truly,

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

Francis LaBarge
Water Quality Evaluator
Southwest District

FL:ch

cc: Cheyenne, DEQ/WQD
File (3)

Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: FLIPPER STICK PARK

ENGINEER: Uinta Engineering & Surveying, Inc.
P.O. Box 746
Evanston, WY 82930
ATTN: Ken Walker

OWNER: Richard Sims
Almy Route
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 81-228R

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

DATE OF REVIEW: October 26, 1981

ACTION: Not authorized.

COMMENTS: As a result of our meeting and phone conversations, all of the items in my May 10, 1981 review letter have been resolved to the satisfaction of this office, except one.

Please note that the analysis of the water from Well #2, dated October 7, 1981, shows a lead concentration of "less than 0.2 mg/l" which exceeds the maximum allowable level of lead established by the Primary Drinking Water Standards. As a result, a "Permit to Construct" cannot be issued.

A suggestion would be to retest this well for lead and submit the results to this office. If the result is within established limits for lead, a "Permit to Construct" will be issued. If you have any questions, please contact me at this office.

FL:nb
10-27-81

A, B, C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Flipper Stick Park

ENGINEER: Uinta Engineering & Surveying, Inc.
P.O. Box 746
Evanston, WY 82930
Attention: Ken Walker

OWNER: Richard Sims
Almy Route
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 81-228

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

DATE OF REVIEW: May 10, 1981

ACTION: Not authorized.

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

GENERAL COMMENTS

1. Is the proposed trailer park in a flood plain?
2. Before a "Permit to Construct" can be issued, the NPDES permit number is required.
3. Please identify the street names on the plan view.
4. Two sets of drawings have no Sheet #16.
5. Detailed calculations of both the water and sewer systems are needed to support their design.
6. If any dewatering will take place during construction, a dewatering permit (form enclosed) must first be obtained.

A, B, C

WATER SYSTEM

7. All public water supplies must be under the direct responsible charge of a certified operator. Has Bill Loft of our Cheyenne office been contacted on this matter?
8. Has the EPA been contacted to get on a routine sampling program?
9. Physical, chemical and bacteriological test results are needed for each well.
10. Results of the yield and drawdown tests conducted on each well are needed. The water system has been designed on the assumption each well will produce 135 gpm which is unacceptable. The system must be designed on actual yield data.
11. A standby power source is required.
12. Details are needed of the well locations as it relates to required separation between existing and potential sources of contamination and ground-water development.
13. The soil profiles from the drillers log are required to determine how far the grout should extend.
14. The grout needs to be specified.
15. Details are needed of how the wells will be developed.
16. The surge control valves need to be sized.
17. The chlorinator needs to be specified. Details are needed of the diffuser, maximum and minimum feed ranges and how the chlorine system will be installed.
18. Are feeders to be manually or automatically controlled?
19. Scales are required for weighing chlorine cylinders.
20. A method of chlorine leak detection is required.
21. What is the capacity of the ventilating fans? They need to be specified.
22. The storage tank is undersized. A minimum storage capacity of 149,000 gallons is required.
23. Irrigation has not been addressed. If any lawn watering, etc., is to take place, the storage capacity may have to be increased.
24. Pump curves are needed along with the head calculations.
25. Complete details and specifications are needed of the level control system for the storage tank. At what levels do the pumps come on? What type of alarm system is to be used?

26. The pumps should alternate. What is the cycle time? What cycle time does the pump manufacturer recommend?
27. Details are needed of the vortex breaker.
28. The water lines should have a minimum of six feet of cover measured from the top of the pipe to the final ground elevation.
29. The drawings should reference the specifications for amount of thrust blocking required at each point indicated on the drawings.
30. The water line profiles should show sewer line crossings, line intersections, valves, fire hydrants, stations, changes in line sizes.
31. It is recommended the local fire warden approve the fire hydrant locations.
32. Horizontal separation distances between the water and sewer lines should be shown on the plan view.
33. A profile of the water lines from the well houses and the storage tank are required.
34. The plan view does not show the valve which isolates the storage tank.
35. A gate valve should be located where the water lines from each well intersect so those lines could be isolated for maintenance.
36. A detail is needed of where the lines from the wells and storage tank intersect.
37. The water line profiles show the pipe making vertical bends. Specifications are needed on the maximum allowable bend. The plans should reference the specs for details.
38. What will be the maximum and minimum line pressures at the low point in the system? Will pressure reducers be needed?
39. It appears that air relief valves may be needed. This has not been addressed.

SEWAGE SYSTEM

40. All sewer lines sizes need to be hydraulically justified.
41. The cleanouts will need watertight covers. This needs to be clarified on the plans.
42. Sewer line profiles need to show water line crossings.
43. The direction of sewage flow needs to be shown on the plan view.
44. What is the rim elevation of MH 6-E?

45. The plans show a six inch line from MH 6-A to MH 6-B. If no future expansion will take place this is satisfactory, but if the park is expected to expand to the south, an eight inch line will be required.
46. Manholes and cleanouts cannot be located under a space occupied by a mobile home. It appears some of the cleanout locations may be located under trailers.
47. Sheet 7 of 11 does not show the rim elevation of MH 4-A.
48. The sewer line profiles of Sheet 9 do not show any grades.
49. The specs call for wye or tee fittings. Wyes are preferred.
50. Detailed lagoon design calculations are required to verify the design. The discharge parameters to be set forth in the discharge permit are needed to determine the required amount of treatment.
51. I assume you meant the volumes of Cells 1 and 2 to be 153,000 ft.³, not gallons.
52. My calculations indicate slightly larger volumes than you do. Please verify your figures.
53. What is the total percent of BOD₅ removal from this system?
54. Calculations used to size the aerators are needed. The aerators must be specified. My calculations indicate at least 6 HP will be required.
55. What is the prevailing wind direction?
56. The location and direction of surrounding residences, commercial developments, parks, recreational areas and a log of each well within one mile of the proposed lagoon is required.
57. Land use zoning adjacent to the proposed lagoon site is needed.
58. A description, including maps showing elevations and contours of the site and adjacent area, is required.
59. A soil profile of the lagoon area is needed.
60. What is the depth to groundwater?
61. It is recommended the Cell 3 be deepened to provide for additional detention time to facilitate solids reduction.
62. Results of the testing program to determine the required thickness of the bentonite liner are required. Based upon these results, the liner thickness must be shown on the plans.
63. A spec on liner installation is required.
64. A detail of MH L-1 is needed showing how the influent will be diverted.

65. The plans do not show a fence around the lagoons.
66. Aerated ponds require erosion protection on the dikes.
67. It appears some type of erosion control will be required in the diversion ditch around the lagoon.
68. Prefilling of the ponds needs to be included in the specifications.
69. Aerated cells should have influent lines which distribute the load within the mixing zone of the aerators. How far do the influent lines terminate from the toe of the dikes? This needs to be shown on the plans.
70. Pond level gauges should be provided.
71. What is the detention time of the chlorine contact chamber? Calculations are needed.
72. Complete chlorinator details are needed. The chlorinator needs to be specified. All previous chlorination questions apply here, also.
73. Parshall flume details are needed. What is the throat size? Calculations verifying the required throat size are needed.
74. How far away is the Bear River? Does the effluent flow through a ditch or pipe? If it is a pipe, details are needed on the plans.

Please submit the required information, in triplicate, to this office. This does not necessarily constitute the final review. If you have any questions, contact me at this office.

FL:kn

81-229



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

June 3, 1982

Mr. William W. Lyons
NERCO, Inc.
111 S.W. Columbia, Suite 800
Portland, Oregon 97201

Dear Mr. Lyons:

In accordance with your letter of May 28, 1982, we have withdrawn from our files your application for a permit to construct the Antelope Mine Construction Camp Water Supply and Sewage Treatment facilities. Enclosed are plans and specifications originally submitted to our office.

Sincerely,

Lea Stoneburner
Administrative Assistant

ls

Enclosures

81-229

NERCO INC.
111 S.W. COLUMBIA, SUITE 800
PORTLAND, OREGON 97201
TELECOPIER 503-241-2819
TELEPHONE 503-241-6600

WILLIAM W. LYONS, VICE PRESIDENT RESOURCE
DEVELOPMENT/REGULATORY AFFAIRS



May 28, 1982

Mr. Tom Mueller
District Engineer
Water Quality Division
Department of Environmental
Quality
2161 Coffeen Avenue, Suite 301
Sheridan, Wyoming 82801

SUBJECT: Antelope Mine Construction Camp Water Supply and
Sewage Treatment

Dear Mr. Mueller:

Under a new mine development scenario, Antelope Coal Company will not construct a mancamp for the Antelope Coal Mine until 1986. Accordingly, we have decided to withdraw our applications for water supply and sewage treatment systems for the Antelope mancamp.

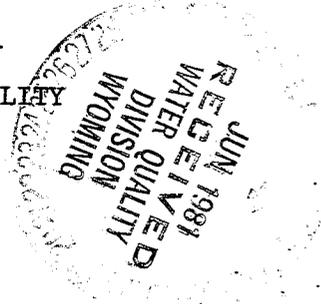
Thank you for your considerate review of the materials provided earlier.

Sincerely,

WWL/dls/0796L

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Ave., Suite 301
Sheridan, Wyoming 82801



PROJECT: Antelope Coal Mine, Construction Camp
Public Water Supply and On-site Disposal System

ARCHITECT OR ENGINEER: Adele Dunham, P.E.
Jacobs Engineering Group
251 South Lake Avenue
Pasadena, California 91101

WATER QUALITY DIVISION
REFERENCE NUMBER: 81-229

REVIEWING ENGINEER: Dan H. Kim, P.E. *DKim*

DATE OF REVIEW: June 6, 1981

ACTION: Not Authorized for Construction (See Comments)

COMMENTS:

1. Although the submitted plans have specified the sizes and capacities of the proposed equipment and appurtenances for water/wastewater treatment system, detailed design calculations have not been provided. Design computations for size determination are needed for:

- a. Water booster pumps
- b. Fire pump
- c. Water storage tanks
- d. Chlorine supply pump and solution mix tank
- e. Pressure storage tank
- f. Pressure carbon filter
- g. Leach field
- h. Submersible dosing pumps

*Design criteria must meet the requirements of the "Recommended Standards for Water or Sewage Works" (10-States Standards).

2. Whenever an existing water supply system is incorporated into the public water supply system, the existing system must be reviewed to evaluate whether it meets the requirements of the PWS system. If it is found not so, necessary improvements need to be made. Therefore, details of the existing well should be furnished including:

- a. Material of drop pipe material and thickness of the well casing, grouting specifications.
- b. Sanitary capping details, distance between natural ground level and the upper terminal of the well.
- c. Sustained well production rate.

- d. Well pump design.
 - e. How will the well pump be protected from low water level?
 - f. How is the water surge to be controlled? Will the operation of pressurized chlorine system not be affected by the excessive surge caused by well pump?
 - g. Details of pitless adapter, if installed.
 - h. Chemical and bacteriological data.
3. Are any water meters provided in the maintenance building?
 4. Please indicate whether the proposed welded steel tank meets the AWWA D100 specifications, especially in areas of steel material, structure, appurtenances, etc.
 5. All water storage structures shall be provided with an overflow pipe and drain. Details should follow Part 7 of the "10 States Standards."
 6. High, low and alarm levels for the storage tank should be identified in the drawing.
 7. Is a locking device provided for the access hatch?
 8. Finished water storage shall be disinfected in accordance with AWWA D102 standards.
 9. Among ASTM D2241 specified pipes, the 125 psi pipe with SDR 32.5 is not acceptable for water pipe. Please delete.
 10. Electric system for dosing tank should be explosion proof, complying with the National Electrical Code request for Class I, Division 1 locations.
 11. Please show the float control elevations in the dosing tank.

NOTE: Due to the number of comments, this cannot be considered a final review.

xc: Nerco, Inc.
111 S.W. Columbia, Suite 800
Portland, Oregon 97201

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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.

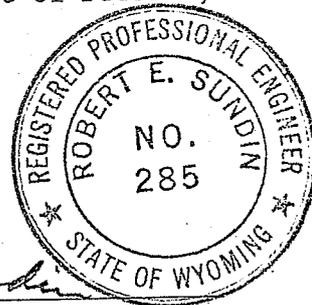
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director
Dept. of Environmental Quality



June 25, 1981

Date of Issuance

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

Condition

Attached to Permit to Construct

Reference Number 81-230

Antelope Coal Mine - Sediment Runoff Control Plan

"Within 30 days following completion of construction of an individual facility, the permittee shall furnish the Water Quality Division with the following: a) the exact size, location and capacity of the facility, amount of disturbed area and other information used to size the facility, b) certification that the facility was constructed to meet the approved design requirements and sizing criteria."

Memo

To Dan Kim

From A J Mancini

Date July 13, 1981

Subject The Western Company Wastewater Facility: (81-232)
Groundwater Protection Review

If we intend to protect the quality of groundwaters of the State, we need to know what the quality of that water is.

The subject submittal includes no information on background quality of the shallow groundwaters that might be impacted by the proposed construction and operation.

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Ave., Suite 301
Sheridan, Wyoming 82801



PROJECT: The Western Company Wastewater Facility

ARCHITECT OR ENGINEER: Mr. C. M. Thelin
Freese & Nichols, Inc.
811 Lamar Street
Fort Worth, Texas 76102

WATER QUALITY DIVISION REFERENCE NUMBER: 81-231R

REVIEWING ENGINEER: Dan H. Kim, P.E. *DK*

DATE OF REVIEW: 7/21/81

ACTION: Not Authorized for Construction (see comments)

COMMENTS:

1. Detail drawing of an oil separator is still needed.
2. You indicated over the phone that chemical wastewater generated from the chemical warehouse would be stored at a storage tank. How and where will the chemical waste be eventually disposed of? What are the compositions of the chemicals?
3. Goundwater section of the Water Quality Division requires the following additional information on groundwater situation at the proposed leach field sites.
 - (a) Chemical analysis data for the groundwater samples taken from the leach field sites.
 - (b) Depth to the groundwater table at hole #8.
4. Please briefly address the function of "separator building "J". Is it something to do with water treatment?

xc: Tony Mancini, WQD Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

Norma

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Avenue, Suite 301
Sheridan, Wyoming 82801

PROJECT: The Western Company Wastewater Facility

ARCHITECT OR ENGINEER: Mr. Michael Morrison
Freese & Nichols, Inc.
811 Lamar Street
Fort Worth, Texas 76102

WATER QUALITY DIVISION
REFERENCE NUMBER: 81-231

REVIEWING ENGINEER: Dan H. Kim, P.E. *DHK*

DATE OF REVIEW: June 11, 1981

ACTION: Not Authorized for Construction (see comments)

COMMENTS:

Truck Wastewater Disposal Facility

- 1) Attachment 2 indicates that truck wash water contains about 25 mg/l of oil and grease. However, the plan does not show whether the oil and grease are allowed to discharge into settling tank/leach field or separated at the shop by using oil and grease traps. If the traps are to be used, please show the details.
- 2) Plan indicates that no groundwater was found at a depth of 20 feet at #11 hole. However, considering the large size of the leach field, this single boring test cannot be considered sufficient enough to represent the overall groundwater situation. Additional boring tests near hole #8 are needed to identify the groundwater table for the upper half of the leach site.

Sanitary Sewage Disposal Facility

- 1) You indicate that depth of cover for the leach field trench varies with an average depth of seven feet. Since the groundwater table at this site is relatively shallow (13' at #12 boring hole), we are again concerned about groundwater contamination. It should be noted that minimum vertical separation of four feet be maintained between the bottom of the trench and the highest known groundwater table.

General

- 1) Plan should show the sewer line from the chemical warehouse.
- 2) Specification should be provided including pipe installations, compaction, back-filling, alignment/exfiltration testing, water/sewer line crossing, etc.
- 3) Please address how the runoff is to be diverted away from the leach field site.

xc: Tony Mancini, Groundwater Section, WQD Cheyenne
The Western Company of North America

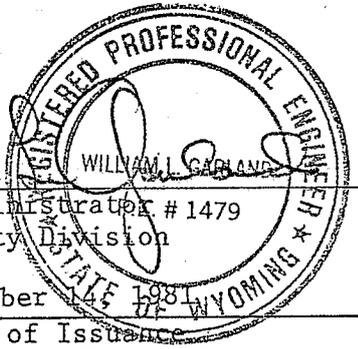
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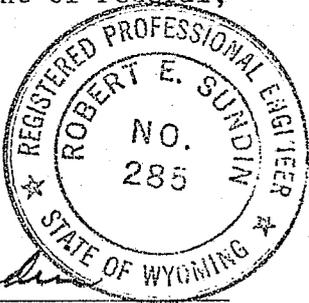
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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 # 1479
Water Quality Division
December 14, 1981
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

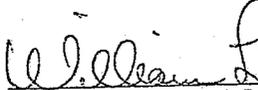
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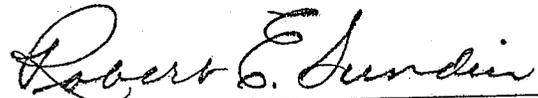
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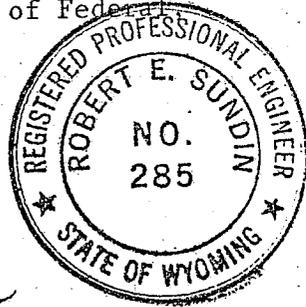
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING
August 21, 1981
Date of Issuance


Director
Dept. of Environmental Quality



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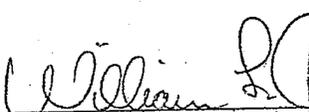
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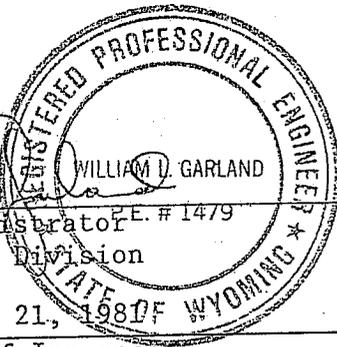
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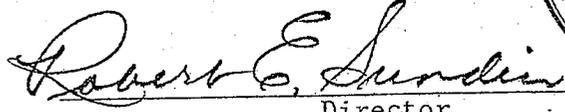
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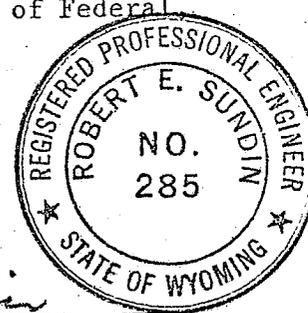
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 21, 1987
Date of Issuance




Robert E. Sundin
Director
Dept. of Environmental Quality



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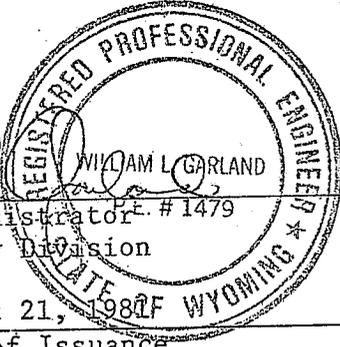
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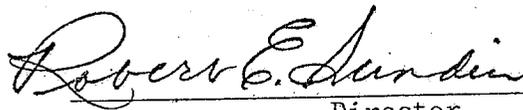
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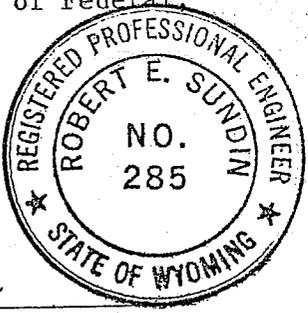
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WILLIAM L. GARLAND
Administrator #1479
Water Quality Division
August 21, 1987
Date of Issuance




Director
Dept. of Environmental Quality



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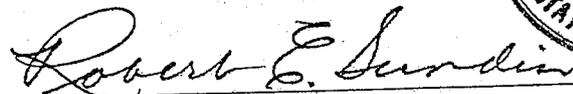
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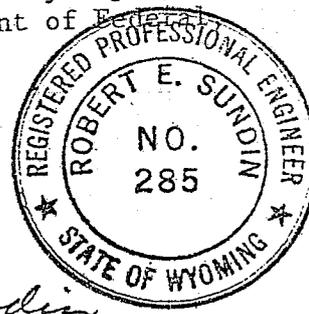
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AUTHORIZED BY:


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




Director
Dept. of Environmental Quality



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



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

June 10, 1981

Mr. Roger Funston
ARCO Coal Company
P.O. Box 5300
Denver, Colorado 80217

RE: Review of Applications, Black Thunder Mine Reservoirs
20-BT-Pit 2, 28-SR1, 28-SR2 and 27-SR1 (Reference Nos.
81-232, 81-233, 81-234, and 81-235).

Dear Roger,

As we discussed in my office June 10, 1981, there is some question of the criteria used to compute Times of Concentration and use of a Width Factor for the water sheds served by these reservoirs. You indicated ARCO had prepared a response on similar questions for the Land Quality Division.

Rather than require an additional response, I would be happy to review the response to Land Quality Division, and if it is satisfactory for our purposes, proceed with issuance of the Permits to Construct.

By the way, I neglected to mention that we now need four (4) copies of all information for Permits to Construct for coal mines.

Thank you for your cooperation.

Yours truly,

Tom Mueller
District Supervisor

TM/lrs

xc: Jake Strohman

81-232 -
81-235



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: Tom Mueller, District Engineer

THROUGH: Tony Mancini, Groundwater Control Supervisor

FROM: Phil Pucel, Engineering Evaluator *PP*

DATE: May 15, 1981

SUBJECT: Black Thunder Mine Review of application for permit to construct 20 BT PIT 2, 27-SR1, 28-SR1, 28-SR2

Overall, the application is in good order. Some general questions have come up concerning the use of the WIDTH FACTOR w_f and the determination of Time of Concentration for each of the structures involved. While using the SCS Handbook as a reference, the WIDTH FACTOR was not found. Where does this factor come from? When using either Fig. 15.2 or Fig. 15.3 in the Handbook, Time of Concentration was found to be about half of that used in calculations in the application. Using the smaller value for T_c would double the peak discharge. Documentation of the value for T_c would clarify the situation.

PP/mlb

plans returned 5-15-81

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.

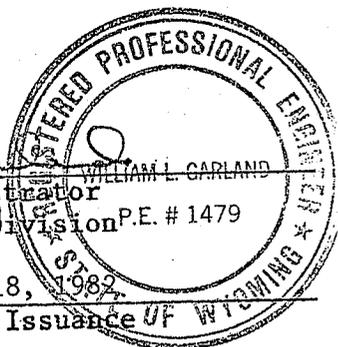
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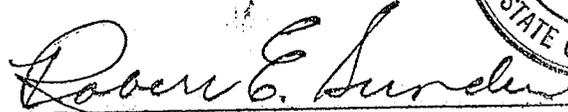
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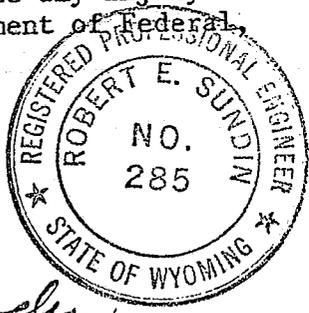
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division P.E. # 1479
March 18, 1982
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

The intent of the construction authorized by this permit is to provide facilities for the interim collection and treatment of wastewater until such time that treatment is available through a regional wastewater system. The City of Gillette/Campbell County, Non-Metro 201 Facility Plan requires that treatment for the Sleepy Hollow Subdivision be provided through a regional system. At the time services are available through the regional system, the facilities of the Sleepy Hollow Subdivision will be abandoned or integrated into the regional system in accordance with the requirements of the Facility Plan.

xc: Campbell County Engineer's Office



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 19, 1982

Larry Suchor
c/o Larson & Brimacombe
1901 Energy Court, Suite 120
Gillette, WY 82716

Dear Mr. Suchor:

Enclosed is a permit to construct a public water supply and sewage collection main extensions for Sleepy Hollow Subdivision, Phase 3. Please note the special conditions associated with the issuance of this permit.

The City of Gillette/Campbell County Non-Metro 201 Facility Plan establishes requirements for wastewater treatment for a service area which includes Sleepy Hollow Subdivision. Wastewater treatment for this area is to be provided through a regional wastewater treatment facility. The wastewater facilities presently serving the area authorized by this construction permit must be abandoned or integrated into the regional system. The NPDES discharge permit for the existing Sleepy Hollow treatment plant will expire in January 1983. The new discharge permit will include conditions and a schedule for integrating the Sleepy Hollow treatment and collection system into the proposed regional system.

The purpose of this letter is to inform you of the requirements of the facility plan as they relate to permits administered by this office. We encourage you to initiate negotiation with the City of Gillette, Campbell County and affected private citizens leading to an orderly integration of services with the regional system. If you have any questions, please feel free to contact this office (telephone number 777-7781).

Sincerely,

A handwritten signature in cursive script that reads "William L. Garland".

William L. Garland
Administrator

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Avenue, Suite 301
Sheridan, Wyoming 82801

PROJECT: Sleepy Hollow Subdivision, Phase III

ARCHITECT OR ENGINEER: Larson & Brimacombe
1901 Energy Court, Suite 120
Gillette, Wyoming 82716

WATER QUALITY DIVISION

REFERENCE NUMBER: 81-236

REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: June 16, 1981

ACTION: Not Authorized for Construction (see comments)

COMMENTS:

1. It is noted that all proposed water mains are six inch diameter. This subdivision is becoming fairly large and transmission losses are going to become significant at some point in development. Please provide a Hardy-Cross or similar analysis indicating the suitability of proposed and existing main sizes at the anticipated ultimate size of this development.
2. Although a well site is shown on the drawings, no details regarding such a facility are shown. Please indicate and justify the point in development at which additional water supply to the entire Sleepy Hollow water system will become necessary. Such justification should, if possible, rely on existing water consumption data for Sleepy Hollow.
3. An additional water main valve should be provided at the corner of Knickerbocker Street and Greensburgh Avenue in order that the flow from the well site may be diverted in either direction in the event of a main break.
4. The profile on Sheet 15 should be amended to indicate a drop manhole at the intersection of Sleepy Hollow Boulevard and Andre' Court, as shown on Sheet 21.
5. Service Tap Details for both water and sewer are needed.
6. Test pressure and allowable leakage for the water mains must be specified.
7. In the specification for water mains crossing under sewers, it should be specified that the minimum length of the joint of water pipe to be centered at the crossing is twelve (12) feet.
8. Procedure for air testing sewer mains for exfiltration should be specified.



Department of Environmental Quality
Water Quality Division

165 EAST RAILROAD AVENUE

GREEN RIVER, WYOMING 82935

TELEPHONE 307 875-8911

January 3, 1984

James A. Kandolin
Nerco Mining Company
Western Division
P. O. Box 4000
Sheridan, WY 82801

Dear Mr. Kandolin:

As per your letter dated September 21, 1983 we are withdrawing your application for the construction of sedimentation ponds at the Jim Bridger Mine.

The following permit applications are included with this letter.

81-237R for pond numbers JB-20 through JB-36

81-416R which includes ponds JB-7, 9, 10, 11, 101A, through K, and 102 A through K

81-536 requested deletion of ponds JB-20, 22, 23A, 23B, 25, 26, 28, 29A, 29B, 30, 31, 32, 34, and 201-A, C, D, E, and F (retaining JB-27, 36, 37, and 201B)

In addition, 65 additional sediment pond applications are also being withdrawn per your request, these are identified as DEQ/WQD permit application numbers 82-593 through 82-657.

Should you desire to permit these ponds in the future, you will need to resubmit your application.

Enclosed please find one complete set of plans submitted to this office. If you have any questions please do not hesitate to contact me.

Sincerely,

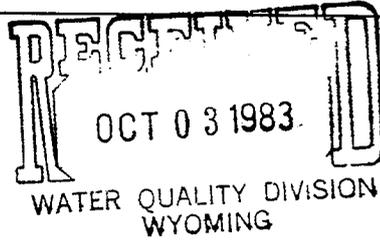
A handwritten signature in black ink, appearing to read "Jack Bedessem".

Jack Bedessem
Area III Supervisor

JB:mpm

cc: Cheyenne DEQ/WQD
File (2)

NERCO MINING COMPANY
WESTERN DIVISION
P.O. BOX 4000
SHERIDAN, WYOMING 82801
TELECOPIER 307.672.0906
TELEPHONE 307.672.0451



September 21, 1983

Mr. Al Berreth
165 E. Railroad Ave.
Green River, WY 82935

RE: Bridger Coal Company
Permit to Construct Cancellation/Withdrawal

Dear Mr. Berreth:

Due to the implementation of Alternate Sediment Control at the Jim Bridger Mine, many of the current Permits to Construct and a number of pending applications are now obsolete. To avoid confusion and future unnecessary paperwork, Bridger Coal Co. wishes to withdraw the pending applications and cancel current permits identified with this letter.

Current Permits

Bridger Coal Company requests cancellation of Permit No. 81-237R (Phase I) which encompasses initial construction of sediment ponds JB-20 through JB-36 and Permit No. 81-416R, which includes ponds JB-7, 9, 10, 11, 101A through K and 102 A through K.

In addition, Bridger Coal Company requests deletion of the following ponds from Permit No. 81-536 Phase II:

JB-20, 22, 23A, 23B, 25, 26, 28, 29A,
29B, 30, 31, 32, 34,

and 201-A, C, D, E, and F

Note that we wish to retain JB-27, 36, 37 and 201B on Permit No. 81-536 Phase II.

Pending Applications

Bridger Coal Company submitted Permit to Construct applications for 65 sediment ponds on September 23, 1982. These ponds were identified in 20 separate applications which Bridger Coal Company wishes to withdraw at this time.

82-640
JB-108-C

Ponds Less Than 2 AC.FT. Capacity
NERCO Pond I.D. No

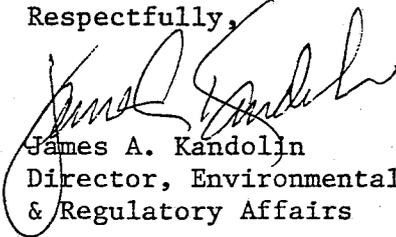
JB-104-A
JB-108-A
JB-104-B
JB-104-C
JB-104-D
JB-104-E
JB-104-F
JB-104-G
JB-105-A
JB-105-B
JB-105-C
JB-106-A
JB-106-B
JB-106-C
JB-106-D
JB-106-E
JB-106-F
JB-106-G
JB-106-J
JB-107-A
JB-107-B
JB-107-C
JB-107-D
JB-107-E
JB-108-B
JB-108-D
JB-108-H
JB-108-I
JB-108-J
JB-108-K
JB-108-L
JB-108-M
JB-108-N
JB-108-O
JB-108-P
JB-108-Q
JB-108-R
JB-108-S
JB-109-A
JB-109-B
JB-43
JB-52
JB-53
JB-54
JB-55
JB-56

Ponds Greater Than 2 AC.FT. Capacity
NERCO Pond I.D. No.

JB-38
JB-39
JB-42
JB-44
JB-45
JB-46
JB-47A
JB-47B
JB-48
JB-49
JB-50
JB-51
JB-29A
JB-32
JB-34B
JB-37
JB-201A
JB-201E

If you have questions or require additional information, please call.

Respectfully,


James A. Kandolin
Director, Environmental
& Regulatory Affairs

BNN/lm

cc: Rick Engelmann

NERC MINING COMPANY
WESTERN DIVISION
P.O. BOX 4000
SHERIDAN, WYOMING 82801
TELECOPIER 307-672-0906
TELEPHONE 307-672-0451



November 3, 1983

Mr. Jack Bedessem
Wyoming Department of
Environmental Quality
Water Quality Division
165 East Railroad Avenue
Green River, WY 82935

Subject: Bridger Coal Company
Permit to Construct Application Withdrawal

Dear Mr. Bedessem:

Our September 21, 1983, letter to your office requesting cancellation of sediment pond construction permits inadvertently left pond JB-108-C off of the list. We do wish to cancel that sediment pond application for a Permit to Construct.

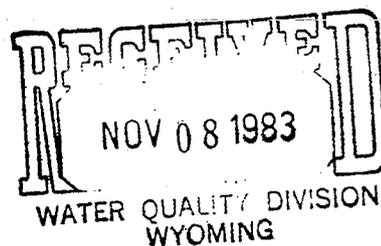
I apologize for any inconvenience this error has caused your office.

Sincerely,

A handwritten signature in black ink that reads "Bruce N. Nelson".

Bruce N. Nelson
Compliance Engineer

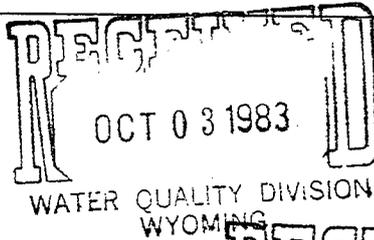
BNN:cyr



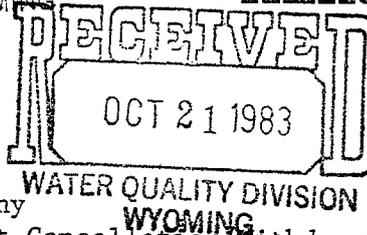
NERCO MINING COMPANY
WESTERN DIVISION
P.O. BOX 4000
SHERIDAN, WYOMING 82801
TELECOPIER 307.672.0906
TELEPHONE 307.672.0451

81-237R

September 21, 1983



Mr. Al Berreth
165 E. Railroad Ave.
Green River, WY 82935



RE: Bridger Coal Company
Permit to Construct Cancellation/Withdrawal

Dear Mr. Berreth:

Due to the implementation of Alternate Sediment Control at the Jim Bridger Mine, many of the current Permits to Construct and a number of pending applications are now obsolete. To avoid confusion and future unnecessary paperwork, Bridger Coal Co. wishes to withdraw the pending applications and cancel current permits identified with this letter.

Current Permits

Bridger Coal Company requests cancellation of Permit No. 81-237R (Phase I) which encompasses initial construction of sediment ponds JB-20 through JB-36 and Permit No. 81-416R, which includes ponds JB-7, 9, 10, 11, 101A through K and 102 A through K.

In addition, Bridger Coal Company requests deletion of the following ponds from Permit No. 81-536 Phase II:

JB-20, 22, 23A, 23B, 25, 26, 28, 29A,
29B, 30, 31, 32, 34,

and 201-A, C, D, E, and F

Note that we wish to retain JB-27, 36, 37 and 201B on Permit No. 81-536 Phase II.

Pending Applications

Bridger Coal Company submitted Permit to Construct applications for 65 sediment ponds on September 23, 1982. These ponds were identified in 20 separate applications which Bridger Coal Company wishes to withdraw at this time.

82-593 thru 82-657

Ponds Less Than 2 AC.FT. Capacity

NERCO Pond I.D. No

JB-104-A - 82-615	JB-107-A - 82-633
JB-108-A - 82-638	JB-107-B - 82-634
JB-104-B - 82-616	JB-107-C - 82-635
JB-104-C - 82-617	JB-107-D - 82-636
JB-104-D - 82-618	JB-107-E - 82-637
JB-104-E - 82-619	JB-108-B - 82-639
JB-104-F - 82-620	JB-108-D - 82-641
JB-104-G - 82-621	JB-108-H - 82-642
JB-105-A - 82-622	JB-108-I - 82-643
JB-105-B - 82-623	JB-108-J - 82-644
JB-105-C - 82-624	JB-108-K - 82-645
JB-106-A - 82-625	JB-108-L - 82-646
JB-106-B - 82-626	JB-108-M - 82-647
JB-106-C - 82-627	JB-108-N - 82-648
JB-106-D - 82-628	JB-108-O - 82-649
JB-106-E - 82-629	JB-108-P - 82-650
JB-106-F - 82-630	JB-108-Q - 82-651
JB-106-G - 82-631	JB-108-R - 82-652
JB-106-J - 82-632	JB-108-S - 82-653
	JB-109-A - 82-654
	JB-109-B - 82-655
	JB-43 - 82-600
	JB-52 - 82-610
	JB-53 - 82-611
	JB-54 - 82-612
	JB-55 - 82-613
	JB-56 - 82-614

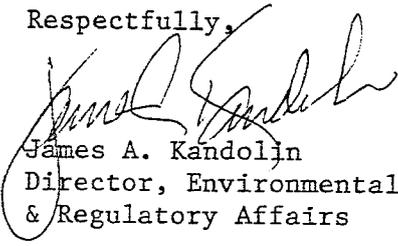
Ponds Greater Than 2 AC.FT. Capacity

NERCO Pond I.D. No.

JB-38 - 82-597
JB-39 - 82-598
JB-42 - 82-599
JB-44 - 82-601
JB-45 - 82-602
JB-46 - 82-603
JB-47A - 82-604
JB-47B - 82-605
JB-48 - 82-606
JB-49 - 82-607
JB-50 - 82-608
JB-51 - 82-609
JB-29A - 82-593
JB-32 - 82-594
JB-34B - 82-595
JB-37 - 82-596
JB-201A - 82-656
JB-201E - 82-657

If you have questions or require additional information, please call.

Respectfully,


James A. Kandolin
Director, Environmental
& Regulatory Affairs

BNN/lm

cc: Rick Engelmann

82-640

JB-108-C
not included in list

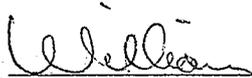
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

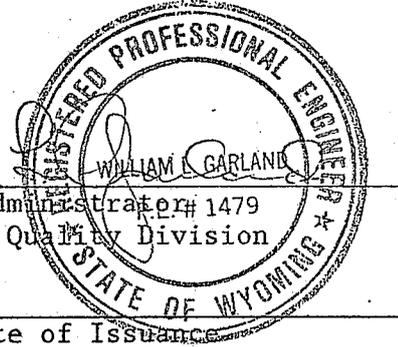
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

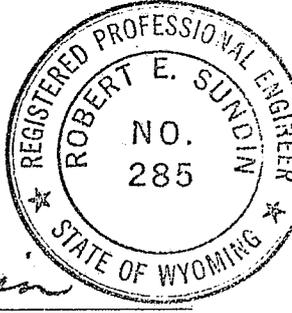
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division




Director
Dept. of Environmental Quality


June 5, 1983

Date of Issuance

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

AJB:crb

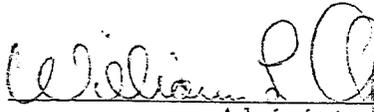
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

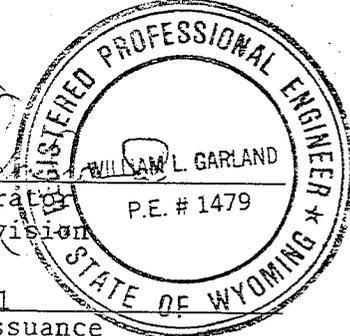
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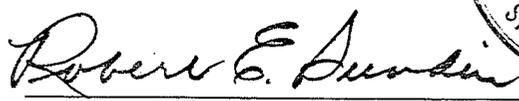
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AUTHORIZED BY:

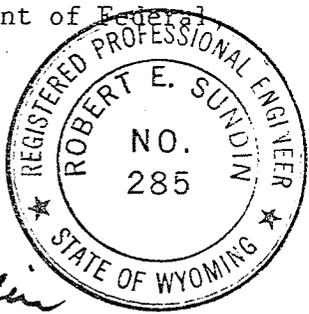


Administrative
Water Quality Division
June 5, 1981
Date of Issuance





Director
Dept. of Environmental Quality



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

FL:sj

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Jim Bridger Mine Sediment Ponds JB-20 through JB-36.

ENGINEER: NERCO, Inc. NERCO, Inc.
111 SW Columbia, Suite 800 550 Main Street
Portland, OR 97204 Lander, WY 82520
ATTN: John Larson ATTN: James A. Kandolin

OWNER: Bridger Coal Company
111 SW Columbia, Suite 800
Portland, OR 97204

WATER QUALITY DIVISION REFERENCE NUMBER: 81-237

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

DATE OF REVIEW: May 11, 1981

ACTION: Not authorized.

COMMENTS:

The revised "Application for Permit to Construct" sediment ponds JB-20 through JB-37 has been reviewed. Most of the questions raised in my January 6, 1981 review have been answered to the satisfaction of this office, however the following points still need to be resolved before a "Permit to Construct" can be issued.

1. What is the anticipated life of the ponds?
2. As I understand, several of the ponds are existing and will have to be modified to comply with the approved plans. A statement that all control structures shall be constructed before the lands are affected is required for those areas to which it applies.
3. The question of isolating topsoil stockpiles was not addressed in the reply. Mr. James Kandolin has told me that this will be addressed in the next application, which will consider an area runoff sediment control facilities plan. This should be referenced in this application. All topsoil stockpiles outside the drainage areas must be addressed.
4. The drawings show "diversion" ditch cross-sections. They should be referred to interceptor or collector ditches to avoid confusion with ditches which divert runoff around the defined drainage areas.

Review of Plans and Specifications

Jim Bridger Mine Sediment Ponds JB-20 through JB-36, DEQ #81-237

Date of Review - May 11, 1981

Page Two

5. All interceptor ditches should be shown on the drainage area maps (see map for JB-20). This includes where they enter the sediment pond as well as where any outflow channels would be located. The location of outflow channels should be clearly identified for those ponds to which they apply. Calculations and detailed drawings are needed of these channels. The plans refer to inlet and outflow channels. Unless there are specific channels, it would help to clarify the matter if the word, "channel," was not used.
6. The plans note that "diversion" ditches shall be rip-rapped. I take that to mean the entire length of the ditch will be rip-rapped. Is this correct?
7. The statement that rip-rap will be employed at the discretion of the engineer in charge and when the channel velocities and bed material present the potential for significant erosion is very vague. The original drawings showed a typical inlet and outlet channel protection detail, while the revised plans do not. Why?

Interceptor ditches should be rip-rapped at changes in direction or changes in slope (i.e., nick points) where the velocity is greater than 3 fps. (Refer to Land Quality Division Guideline No. 8.) Inlet and outlet channels and sides should have some type of erosion control, preferably as shown on the original plans. Rip-rap details are needed and should be completely covered in the construction specifications, also (i.e., material, size of material, depth of material, method of installation, etc.)

The plans must be clear as to how far up the banks the rip-rap will be, and how far it will extend horizontally in the ditch and pond in question.

8. If a pond does not have an interceptor ditch, a detail of one should not be shown on the drawing as this is very confusing. An example is JB-20.
9. Under the section headed, "Operations," it is stated the capacity of the sediment ponds will be calibrated using a staff gauge located within the sediment pond. A statement should be included in the construction specifications that staff gauges are to be installed in all ponds. Wooden staff gauges should not be used, as they will float; metal gauges are preferred.
10. Under the Dewatering Procedure section, no reference is made as to how long it will take to dewater a pond. An estimate of how long it will take to dewater the ponds is needed. It must be specifically stated that the ponds will be dewatered as soon as the effluent meets the discharge permit parameters following a precipitation event.
11. A handwritten copy of this review letter is being given to Mr. James Kandolin in the interest of saving as much time as possible. A formal review letter is to follow as soon as possible.

Please submit four copies of the requested information and revised drawings. If you have any questions, contact me at this office. This does not necessarily constitute the final review.

FL:nb

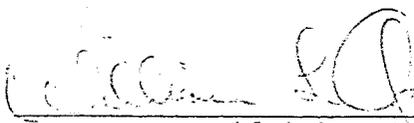
working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

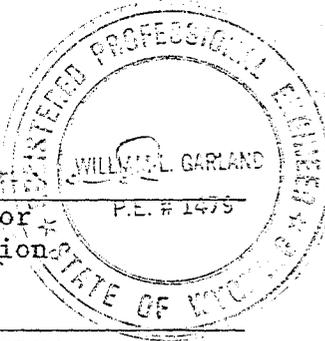
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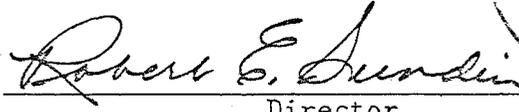
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

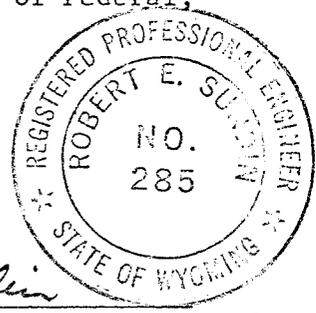


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



May 6, 1981
Date of Issuance

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

AB/kn

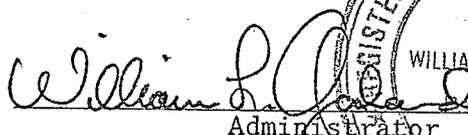
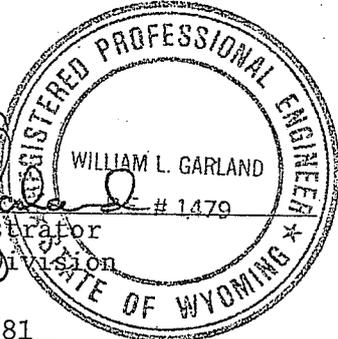
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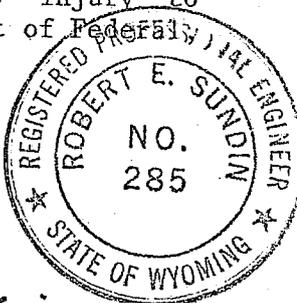
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


WILLIAM L. GARLAND
1479
Administrator
Water Quality Division



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


June 12, 1981
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
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Haines Trucking Company

ENGINEER: None

OWNER: Leonard L. Haines
P. O. Box 263
Worland, WY 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 81-239

REVIEWING ENGINEER: Jeff Hermansky



DATE OF REVIEW: June 3, 1981

ACTION: Not authorized.

COMMENTS:

The following questions and comments need to be addressed before a "Permit to Construct" can be issued:

1. Please describe the intended use of the proposed building, number of employees, number of hours per day employees in building, number of toilets, showers and other sources of wastewater.
2. What is the estimated gallons of wastewater per day?
3. What is the percolation rate of the soil in the area of the proposed leach field?
4. What material is the septic tank to be made of? (Who is the tank manufacturer?)
5. The plan sheet needs to be more detailed showing the septic tank, leach field, the 100 year flood plain limits, distance from field and tank to waterways, any nearby wells, and the building.
6. The check list shows the field to have a PVC liner proposed. Disposal fields should not be lined.

7. The total depth of cover and depth of gravel over the distribution lines is shown to be 24 inches; which would indicate gravel extending from the lines to the surface. The top 12 inches of the distribution trench should be backfilled with soil so the trench doesn't act as a drain for surface runoff.
8. If the 200 ft² leach area is found to be satisfactory, it would be better to use two 50 foot trenches rather than one 100 foot trench (if site conditions allow such an arrangement).
9. The resubmittal of this application must be signed by a licensed Professional Engineer registered in Wyoming.

If you have any questions, please call Robin Collins or myself.

JCH/dl

2-7-84



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

February 6, 1984

Rodney Krebs
Gerl Construction
P.O. Box 21
Glen Rock, PA 17327

Dear Mr. Krebs:

On June 23, 1981, a status letter was sent to you concerning a permit to construct, reference number 81-240, facility name North Platte Sanitary Sewer. The application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

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

Sincerely,

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

LCF/nc

7-1-81

Review of Plans and Specifications

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

PROJECT: North Platte Sanitary Sewer (Section 2)

APPLICANT: Rodney Krebs, Gerl Construction Co. of WY
P.O. Box 21, Glen Rock, PA 17327

WATER QUALITY DIVISION REFERENCE NUMBER: 81-240

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

DATE OF REVIEW: June 23, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

I have been awaiting additional information concerning the application to reinject groundwater on the North Platte Sanitary Sewer (Section 2). As it has been awhile since you started construction, do you still wish to continue with your application or do you feel it is no longer necessary?

5-26-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-241

See Special Condition

Denton Brothers Drilling, Inc.
(Name of Facility)

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

Denton Brothers Drilling, Inc.

P. O. Box 2304

Casper, WY 82602

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 81-241. The facility is located in Section 2, T33N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 30, Sheridan, Wyoming, 82801; telephone, 672-6457.

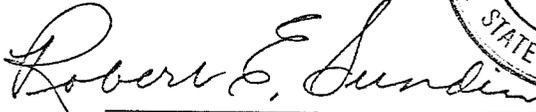
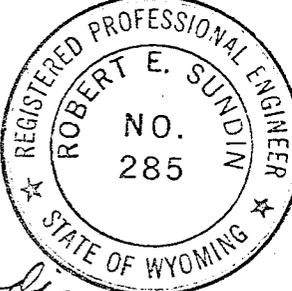
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division
No. 1479

May 15, 1981
Date of Issuance


Director
Dept. of Environmental Quality


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

cc: Gray C. Wangelin
P. O. Box 4075
Casper, WY 82604

Conditions to Permit to Construct

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

5-26-81

PERMIT TO CONSTRUCT

New

Permit No. 81-242

Renewal

Modified

Fairway Addition, 3rd Filing
(Name of Facility)

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

City of Cheyenne

2101 O'Neil Avenue

Cheyenne, WY 82001

to construct, install, or modify a municipal public water supply and wastewater collection/stormwater collection systems facility according to the procedures and conditions of the application No. 81-242. The facility is located in Section 24, 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.

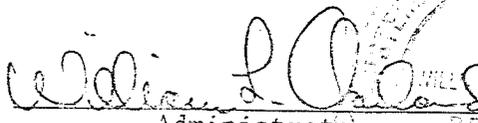
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming, 82801; telephone, 672-6457.

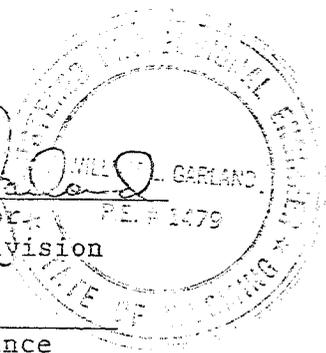
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

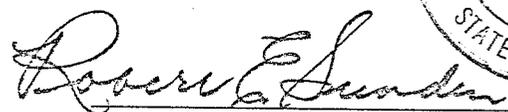
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator, P.E. # 1479
Water Quality Division
May 14, 1981
Date of Issuance





Director
Dept. of Environmental Quality



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

cc: Jon Anderson
AVI
7300 Yellowstone Road
Cheyenne, WY 82001

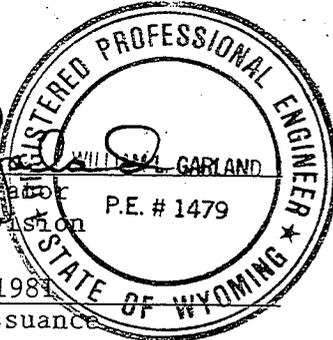
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

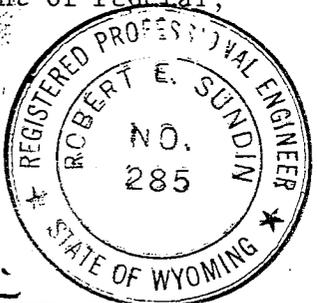
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
P.E. # 1479
May 29, 1984
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

FL:nb

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: 12 inch Main, Walnut & Blair to "D" Street Pump Station

ENGINEER: Pacific Power & Light Company
920 S.W. Sixth Avenue
Portland, OR 97204
Attention: Robert L. Svendsen

OWNER: Pacific Power & Light Company
920 S.W. Sixth Avenue
Portland, OR 97204

WATER QUALITY DIVISION REFERENCE NUMBER: 81-243

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

DATE OF REVIEW: May 15, 1981

ACTION: Not authorized.

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

1. What is the expected operating pressures? This is needed to verify the pipe class. Please provide the design calculations.
2. A fire hydrant detail is needed.
3. One set of plans has no Sheet 5. This set of plans will be returned to you after the plans have been approved as we discussed.
4. A permit is required for any dewatering that will take place during construction. Enclosed is the necessary form. It should be self-explanatory. Fill it out and send it to the address on the back of the form.

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

FL/kn

Enclosure

A.C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: 12 inch Main, Connecticut & Railroad to Freemont Avenue

ENGINEER: Pacific Power & Light Company
920 S.W. Sixth Avenue
Portland, OR 97204
Attention: Robert L. Svendsen

OWNER: Pacific Power & Light Company
920 S.W. Sixth Avenue
Portland, OR 97204

WATER QUALITY DIVISION REFERENCE NUMBER: 81-244

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

DATE OF REVIEW: May 15, 1981

ACTION: Not authorized.

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

1. Please provide a location plan.
2. A water line profile is needed. If you can verify the area is level and the line is to be installed at least 6 feet deep on a uniform grade and there are no sewer line crossings, a profile will not be required.
3. What is the expected operating pressures? This is needed to verify the pipe class. Please provide the design calculations.
4. It appears a blowoff will be required on Sheet 2, Detail B.
5. Why is the casing being proposed under Connecticut Avenue?
6. A permit is required for any dewatering that will take place during construction. Enclosed is the necessary form. It should be self-explanatory. Fill it out and send it to the address on the back of the form.

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

FL/kn

Enclosure

A, B, C

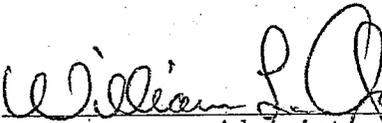
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

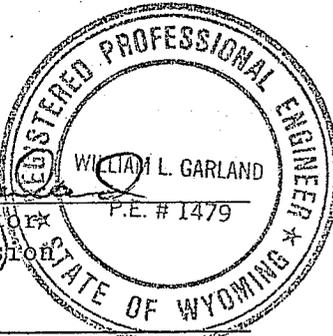
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

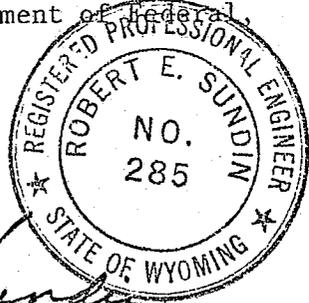


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



June 9, 1981
Date of Issuance

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

FL:sj

uring working hours, to have access to inspect the facilities, at the above loca-
tion, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Qual-
ity, Water Quality Division the day construction commences and give an estimate of
completion of this project. The authorized representative in your area can be
contacted at the following address: Water Quality Construction Projects Control
Officer, State of Wyoming, Department of Environmental Quality, Water Quality Divi-
sion, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal
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established pursuant to any applicable State law or regulation.

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personal property, or any exclusive privileges, nor does it authorize any injury to
private property or any invasion of personal rights, nor any infringement of Federal,
State or local laws or regulations.

AUTHORIZED BY:

William L. Garland

WILLIAM L. GARLAND
P.E. #3479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

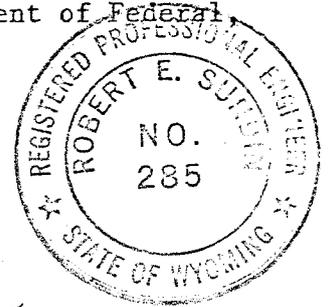
Administrator
Water Quality Division

May 6, 1981

Date of Issuance

Robert E. Sinden

Director
Dept. of Environmental Quality



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

MRC/kn

CEJ 5-26-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-246

See Special Condition

Montevue Addition - 3rd Filing
(Name of Facility)

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

Big Wyoming Associates, Ltd.

1124 Dunn Avenue

Cheyenne, WY 82001

to construct, install, or modify a public water supply and sanitary sewer facility according to the procedures and conditions of the application No. 81-246. The facility is located in Section 28, 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.

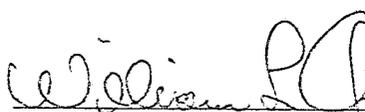
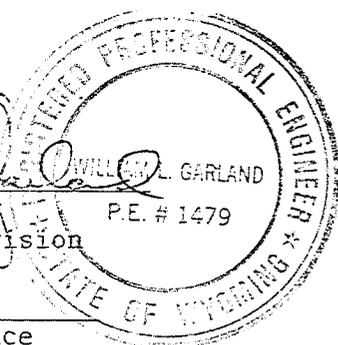
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

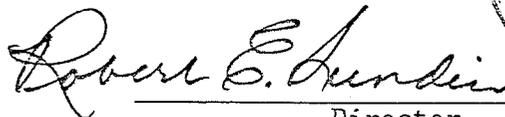
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


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


May 19, 1981

Date of Issuance



Director

Dept. of Environmental Quality



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

cc: Philip M. Hoyt
Laramie Engineering, P.C.
504 South 4th Street
Laramie, WY 82070

Special Conditions

1. The water mains and sanitary sewer shall be installed in accordance with the Wyoming Public Works Standards as per David G. Hammond's letter dated May 1, 1981.
2. Sewer connections are prohibited in the sewer pipe stubs in 13th Street and 15th Street, north of Grafton Street.

5-26-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-247

Highland Park Relief Sewer (Section 1)
(Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify a municipal wastewater collection system facility according to the procedures and conditions of the application No. 81-247. The facility is located in Section 10, T33N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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: Water Quality Construction Projects Control Officer, 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.

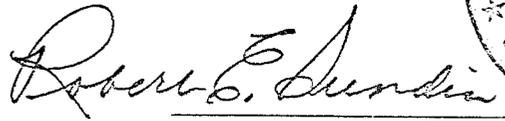
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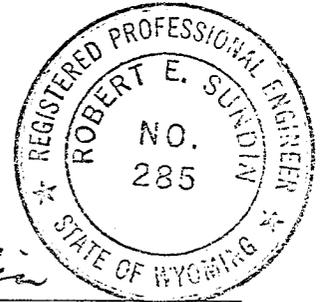
AUTHORIZED BY:


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

May 14, 1981

Date of Issuance


ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



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

cc: Dave Engels
Casper Board of Public Utilities
200 North David
Casper, WY 82601

leg 5-26-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-248

See Special Condition

Totran Services Limited
(Name of Facility)

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

Sid Hard

P. O. Box 217

Mills, WY 82644

to construct, install, or modify a commercial subsurface wastewater disposal facility according to the procedures and conditions of the application No. 81-248. The facility is located in E 1/2, Section 4, T34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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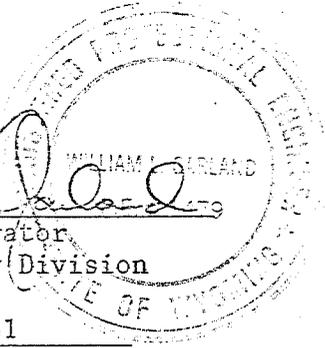
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 30, Sheridan, Wyoming, 82801; telephone, 672-6457.

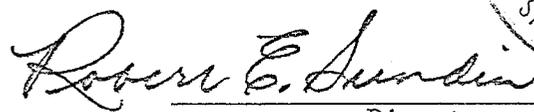
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

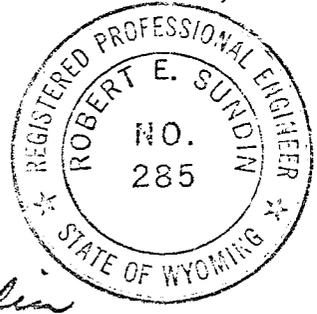
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division
May 14, 1981
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Gray C. Wangelin, P.E.
EITS
145 South Durbin, Suite 204A
Casper, WY 82604

Chuck Davis, Director of Planning

Conditions to Permit to Construct

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-249

See Special Condition

Oregon Trail Lagoon
(Name of Facility)

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

Town of Glenrock

P. O. Box 417

Glenrock, WY 82637

to construct, install, or modify a lagoon discharge structure facility according to the procedures and conditions of the application No. 81-249. The facility is located in Section 3, T33N, R75W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

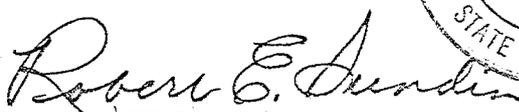
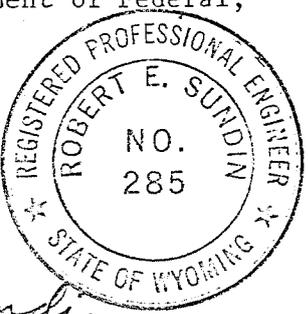
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
P.E. # 1479
Administrator
Water Quality Division



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


May 15, 1981
Date of Issuance

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

cc: Nelson Engineering
P. O. Box 1599
Jackson, WY 83001

Carolyn Thomas-Lewis

Special Condition

1. This construction permit is issued with the understanding that the discharge structure is temporary only. A permanent solution to the hydraulic overloading of this facility shall be implemented.
2. A scum baffle should be installed at the lagoon discharge to prevent the discharge of floating solids.
3. The 2 x 4 supports used to hold the discharge weir in place should be treated to prevent them from rotting.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-250 R

Neighborhood Alliance Church
(Name of Facility)

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

John Fixture

Box 1233

Riverton, WY 82501

to construct, install, or modify a _____

Septic tank - leach bed

_____ facility according to the procedures and conditions of the

application No. 81-250 R. The facility is located in _____

Sec. 30, T1N, R4E

_____ in the County of Fremont,

in the State of Wyoming. This permit shall be effective for a period of Two

years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of 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

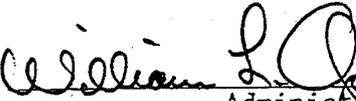
...ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

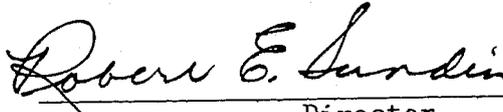
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, 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
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Administrator
Water Quality Division


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

May 21, 1981
Date of Issuance

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

JH/ch

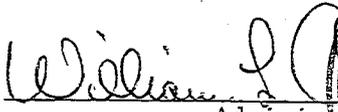
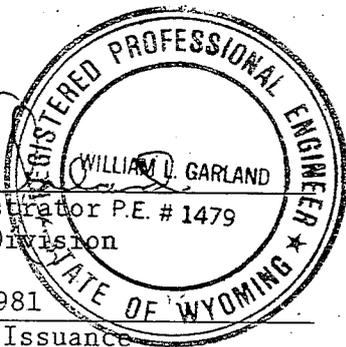
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

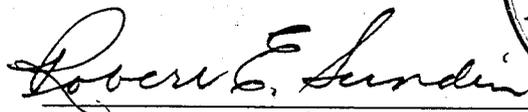
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

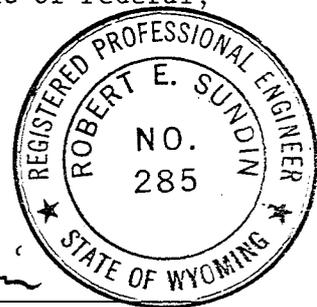
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division
June 5, 1981
Date of Issuance


Director
Dept. of Environmental Quality



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

