

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-001RR

Davis Mud & Chemicals Co.  
(Name of Facility)

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

Town of Mills  
704 4th Street  
Mills, WY 82644

to construct, install, or modify a municipal water distribution and wastewater collection facility according to the procedures and conditions of the application No. 86-001RR. The facility is located in Section 6 and 7, 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.

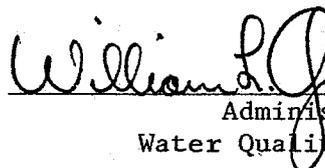
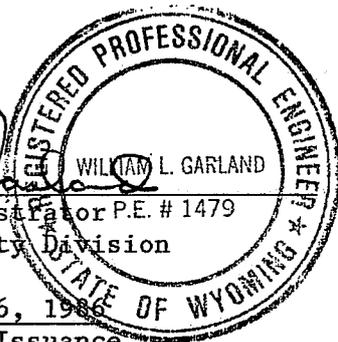
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

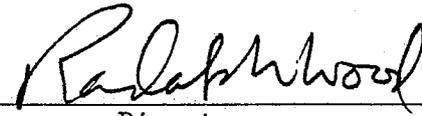
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
  
April 16, 1986  
Date of Issuance

  
Director  
Dept. of Environmental Quality

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

cc: Terry L. Titus  
Worthington, Lenhart, Carpenter & Johnson, Inc.  
632 So. David Street  
Casper, WY 82601

Review of Plans and Specifications

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

PROJECT: Davis Mud & Chemicals

ARCHITECT OR ENGINEER: Terry Titus, Worthington, Lenhart, Carpenter & Johnson, Inc.  
632 South David Street, Casper, WY 82601

APPLICANT: Town of Mills  
704 4th Street, Mills, WY 82644

WATER QUALITY DIVISION REFERENCE NUMBER: 86-001R

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

DATE OF REVIEW: March 24, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The following comments pertain to ordinance #376 - Mills standard specifications.

1. An application form should be submitted requesting the approval of these specifications as "standards" for the town of Mills.
2. The preliminary report must be submitted to DEQ along with plans and specifications (Section 1.1.2 & 2.1.2).
3. Section 1.1.3.2, 2nd paragraph, change 2nd sentence to: Article 3, Wyoming Public Works Standard Specifications shall be used, supplemented by the town of Mills addenda and by special provisions (also Section 2.1.3.2) as appropriate to the particular project.
4. Section 1.2.12.7 and 2.2.8.7 water/sewer separation requirements must conform to the Water Quality Division Rules and Regulations Chapters XI and XII. See attached memo.
5. Section 2.2.4. The maximum length of a 6-inch line serving a fire hydrant from one direction is 250 feet. This might be your definition for "short nonlooped systems".
6. Section 2.2.8.2. Blowoffs must be able to flush the main with a 2.5 fps velocity.
7. Section 2.2.8.14. Does Mills plan to develop a more comprehensive cross-connection control program? Casper has a good model ordinance.
8. Section 2.2.8.16. DEQ also needs to approve these type of interconnections.
9. Standard drawings 401-01, 401-02. OSHA requires the maximum manhole step spacing to be 12 inches.

10. The Wyoming Public Works standard specifications require certain items be specifically identified for each project. It would be more expedient if the town could reduce these options by identifying the town's preferred method. The attached checklist can be used to identify those options. If these items are not addressed by the town's addenda then each project will have to address them in the special provisions.

pjb

Review of Plans and Specifications

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

PROJECT: Davis Mud & Chemicals Co., Natrona Co.

ARCHITECT OR ENGINEER: Terry Titus, Worthington, Lenhart, Carpenter & Johnson, Inc.  
632 S. David St., Casper, WY 82601

APPLICANT: Town of Mills  
704 4th St., Mills, WY 82644

WATER QUALITY DIVISION REFERENCE NUMBER: 86-001R

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

DATE OF REVIEW: March 12, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1. All high points in the water line must have an air release valve.
- 2. The reference to ordinance #376 is acceptable for this project but may not be for other projects. If the town desires to have ordinance #376 approved by the Department of Environmental Quality as Mill's standard set of specifications, than an application must be submitted plus some minor changes would be required. Having the standard specifications approved by the Department of Environmental Quality allows the town to merely reference the specifications without submitting them with each application.

One of the major problems with the specifications is that the water and sewer line separation does not satisfy the requirements of Chapters XI and XII of the Water Quality Division Rules and Regulations. See attached memo for explanation. Other review comments will be submitted upon receipt of the application.

- 3. The application form must be signed by the applicant.

TSN/nc

1-7-86

Review of Plans and Specifications

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

PROJECT: Davis Mud & Chemicals Co., Natrona Co.

ARCHITECT OR ENGINEER: Terry Titus, Worthington, Lenhart, Carpenter & Johnson, Inc.  
632 S. David St., Casper, WY 82601

APPLICANT: Town of Mills  
704 4th St., Mills, WY 82644

WATER QUALITY DIVISION REFERENCE NUMBER: 86-1

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

DATE OF REVIEW: January 3, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The Mills' standard specifications are no longer valid. See attached letter.
2. A profile of the water line is necessary.
3. A detail of the water/sewer line crossing is necessary.
4. Section 14.(b)(ii), Chapter XII, Water Quality Division Rules and Regulations require this water main to be 8 inches in diameter.
5. Will the existing sewer between MH D-1 and MH D-3 be abandoned? If so, specify how (i.e., plug line, fill MH)?

Attachment

1-15-86

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 86-2

BELLE AYR MINE SEDIMENT BA46 RESERVOIR  
(Name of Facility)

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

AMAX Coal Company

P.O. Box 3005

Gillette, Wyoming 82716

to construct, install, or modify a sediment and flood control facility according to the procedures and conditions of the application No. 86-2. The facility is located in Section 33, T.48N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

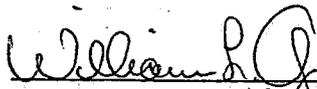
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

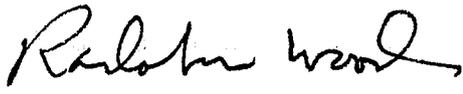
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, 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:

  
Admin. # 161  
Water Quality Division # 179  
REGISTERED PROFESSIONAL ENGINEER  
WILLIAM L. GARLAND  
STATE OF WYOMING  
January 10, 1989  
Date of Issuance

  
Director  
Department of Environmental Quality

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

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



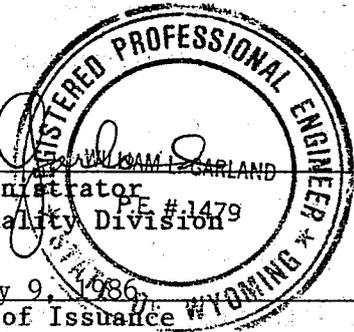
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

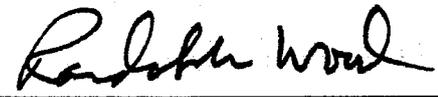
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

AUTHORIZED BY:

  
William D. Garland  
Administrator  
Water Quality Division  
PE # 1479  
January 9, 1986  
Date of Issuance

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

1-15-86

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 86-4R  
SEE CONDITIONS ON BACK

L & S Sports Shop  
(Name of Facility)

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

Mr. & Mrs. Larry Farrell

1521 Otto Road

Cheyenne, WY 82007

to construct, install, or modify a subsurface wastewater treatment and disposal facility according to the procedures and conditions of the application No. 86-4R. The facility is located in Section 15, T13N, R68W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

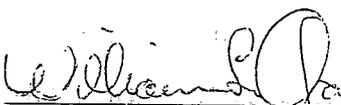
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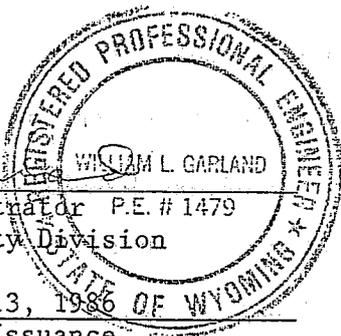
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

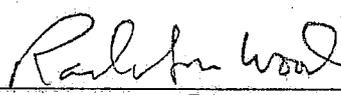
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator P.E. # 1479  
Water Quality Division



January 13, 1986  
Date of Issuance

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

Conditions to Permit to Construct 86-4R

1. Cleanouts to the ground surface shall be provided for each compartment of the septic tank.
  2. The permittee shall notify Don Pack, Laramie County Environmental Health, 1700 Snyder Avenue, Cheyenne, Wyoming 82001, phone number 638-8545, of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.
- cc: D. M. Hopkins, D. M. Hopkins & Assoc., 216 E. 17th Street, Cheyenne, WY 82001  
Don Pack

Review of Plans and Specifications

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

PROJECT: Sports Shop, Laramie Co.

ARCHITECT OR ENGINEER: Donald M. Hopkins, D.M. Hopkins & Assoc.  
216 E. 17th St., Cheyenne, WY 82001

APPLICANT: Mr. & Mrs. Larry Farrell  
1521 Otto Road, Cheyenne, WY 82007

WATER QUALITY DIVISION REFERENCE NUMBER: 86-4

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: January 6, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plan drawing shows a square leachfield with 3-10 foot laterals. The design notes indicate that only 2-10 foot laterals will be constructed. Which is correct? Either construction would meet minimum construction standards.
2. The plan sheet should be signed/sealed by an engineer registered in the State of Wyoming.
3. How was the depth to groundwater determined?
4. Cleanouts shall be provided to the ground surface for each compartment of the septic tank. It is recommended that the manhole covers be brought to the ground surface with extension collars.

1-15-86

PERMIT TO CONSTRUCT

Permit No. 86-5R

- New
- Renewal
- Modified

Board of Public Utilities Operations and Maintenance Shop  
(Name of Facility)

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

City of Cheyenne

Board of Public Utilities

P.O. Box 1469

Cheyenne, WY 82003-1469

to construct, install, or modify a water distribution facility according to the procedures and conditions of the application No. 86-5R. The facility is located in Section 31, 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.

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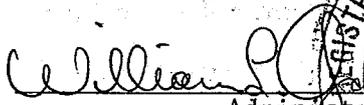
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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AUTHORIZED BY:

  
WILLIAM I. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
January 13, 1986  
Date of Issuance



Director  
Dept. of Environmental Quality

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

1-9-86

Review of Plans and Specifications

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

PROJECT: Board of Public Utilities, Operations and Maintenance Shop, Laramie Co.

ARCHITECT OR ENGINEER: Carroll Aamold, Board of Public Utilities  
P.O. Box 1469, Cheyenne, WY 82003-1469

APPLICANT: Cheyenne Board of Public Utilities  
P.O. Box 1469, Cheyenne, WY 82003-1469

WATER QUALITY DIVISION REFERENCE NUMBER: 86-5

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: January 8, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Is the six inch water main west of the railroad tracks being capped or is it to be extended further?

*Norma*



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

# Department of Environmental Quality

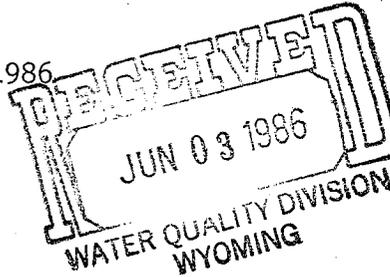
AIR QUALITY DIVISION

122 WEST 25TH STREET

CHEYENNE, WYOMING 82002

TELEPHONE 777-7391

May 29, 1986



Liang M. Chen  
H2O Engineering, Inc.  
4699 Nautilus Ct., S, Suite 204  
Boulder, CO 80301

Dear Mr. Chen:

Your application for Shute Creek Construction Camp WWTP Modifications (DEQ Permit No. 86-6), is considered inactive under the assumption that you do 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 you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules and Regulations, must be followed.

Sincerely,

William L. Garland  
Administrator

WLG/BL/jw

REVIEW OF PLANS AND SPECIFICATIONS

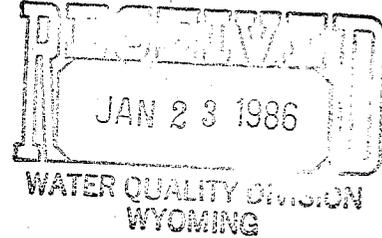
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Shute Creek Construction Camp WWTP Modifications

ENGINEER: Liang M. Chen  
H2O Engineering, Inc.  
4699 Nautilus Ct., S, Suite 204  
Boulder, CO 80301

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



WATER QUALITY DIVISION REFERENCE NUMBER: 86-6

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: January 17, 1986

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued:

1. The plans and specifications submitted appear to be of a preliminary nature. More detailed drawings and construction specifications are required. The drawings should also include a plan and profile of the discharge piping.

2. Multiple drawoffs from the final cell should be provided. A detail of how the drawoffs will be installed through the pond liner should also be included.

3. A hydraulic analysis for sizing the pumps is required. It should address head loss calculations, pump cycle times, etc.

4. Details of the erosion control at the termination of the force main are required.

5. Address what provisions will be made for a power loss during the winter operational months.

6. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

SL/jw

*C*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-7

CABALLO MINE HORSE HOOF RESERVOIR  
 (Name of Facility)

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

The Carter Mining Company  
P.O. Box 3007  
Gillette Wyoming 82716

to construct, install, or modify a sediment and flood control facility according to the procedures and conditions of the application No. 86-7. The facility is located in Section 24, T.48N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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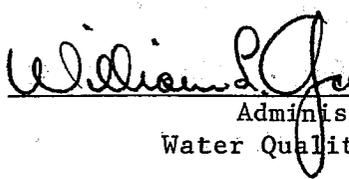
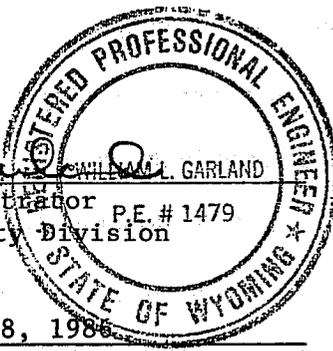
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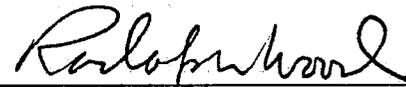
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, 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  


  
\_\_\_\_\_  
Director  
Department of Environmental Quality

\_\_\_\_\_  
January 28, 1986  
Date of Issuance

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

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



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 18, 1986

The Honorable H. A. Carter  
Mayor, City of Gillette  
P.O. Box 3003  
Gillette, WY 82716

RE: City of Gillette, Wyoming, C560160, DEQ/WQD Ref. No. 86-9R, Approval  
of Plans and Specifications

Dear Mayor Carter:

The plans and specifications for the construction of water pollution control facilities for the referenced project have been reviewed by the State of Wyoming Department of Environmental Quality. This office hereby approves the plans and specifications and is enclosing a permit to construct. This approval of plans and specifications is not a commitment of federal funds for your Step 3 construction project, but does allow the grantee to request final payment for Step 2 work.

The procedure for submission and approval of modifications to the approved plans and specifications is the same as for the original set; i.e., five copies of any proposed modifications, together with an explanation of the reasons therefor should be forwarded to us. Unauthorized modifications of approved sets of plans and specifications may result in suspension of federal participation in the project.

We are sending the approved plans and specifications for the referenced project which must be kept available at all times so that personnel from this office may have access to them during inspection activities.

Sincerely,

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

William L. Garland  
Administrator

WLG/JP/nc  
Enclosures

cc: EPA, Region VIII  
Glen Dostal, HDR, 8404 Indian Hills Dr., Omaha, NE 68114-4049  
Loren Leichtnam, DEQ/WQD Sheridan  
Grant File

THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 27, 1986

Jeffrey M. Smith, P.E.  
City Engineer  
City of Gillette  
P.O. Box 3003  
Gillette, WY 82716

RE: Plan/Specification Review, DEQ/WQD Ref. No. 86-9

Dear Jeff:

The plans and specifications for EPA project number C560160 have been reviewed. They were examined in light of Tom Conrardy's comments (October 3, 1984), Chuck Plummer's response (August 26, 1985) and current State and EPA rules and regulations. For reasons that will be explained below, the plans and specifications cannot be approved at this time.

This project will require a variance approved by the division administrator in order to acquire a permit to construct. The variance is required due to the large diameter of the clarifier hopper bottoms. Tom mentioned this in his letter (item #11) and since it does exceed the maximum allowed in Chapter XI a permit to construct in all likelihood will not be approved.

Therefore, in accordance with Chapter XI, Section 5, of the Water Quality Rules and Regulations (see enclosed, highlighted in green), the city should submit information showing the suitability of this system and demonstrate that the wastewater treatment facility can operate meeting the purpose of these regulations.

From a federal viewpoint, the specifications require some correction before they can be approved. To begin with, in the statements for bid advertisement, Executive orders 11246 as amended, 11458, 11518, and 11625 are required to be complied with. Please note the enclosed instructions regarding federal requirements for grant awarded after May 12, 1982 for the suggested statements to be included.

Also in the bid advertisement, the female and minority utilization goals are incorrect. For your region the proper figures are 6.9% for female, 7.5% for minority.

Jeffrey M. Smith, P.E.  
January 27, 1986  
Page 2

The specifications do not contain the latest applicable wage rates. Enclosed is the General Wage Decision No. WY86-1 which supersedes previous Wage Rate Determination 85-5025. Note that these rates are only for Heavy & Highway Construction Type Projects. Please be advised that a request for a Wage Rate Determination for Building project has been sent to Washington, D.C. It is anticipated that we will have a response in 30 to 40 days.

Enclosed you will also find Project Design Data pages B-12 to B-18. Since you are required to certify these figures at the end of one year, I thought you would like to include the required data at this time. If you don't, this office will develop these figures from the drawings and flow projections which could cause further delays.

This concludes the state and federal review at this time. If there is any way in which I can assist you, please do not hesitate to contact me.

Sincerely,



Jerry Placzek  
Engineering/Grants Evaluator

JP/nc  
Enclosure

cc: HDR, c/o Glen Dostal (w/encl)  
Rich Ruyle, DEQ/WQD, Sheridan  
Grant File

Revised  
File 3-19

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-9R  
EPA C560160

GILLETTE WASTEWATER TREATMENT FACILITY, PROJECT 3  
(Name of Facility)

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

City of Gillette

P.O. Box 3003

Gillette, Wyoming 82716

to construct, install, or modify a primary clarifiers, grit and screening unit, inplant pump station, chlorine contact basin, anaerobic digesters, energy unit, administration unit, and sludge beds facility according to the procedures and conditions of the application No. 86-9R. The facility is located in Section 31, T.50N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

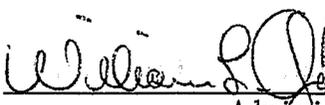
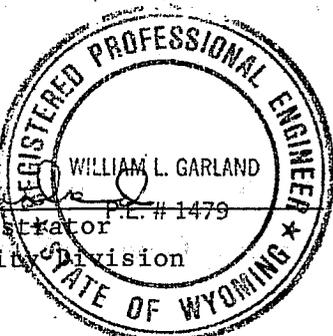
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, 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  


  
Director  
Department of Environmental Quality

February 26, 1986  
Date of Issuance

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

xc: Charles Plummer, HDR, Inc.  
8404 Indian Hills Drive  
Omaha, Nebraska 68114



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 16, 1986

Wyoming Game & Fish  
5400 Bishop Blvd.  
Cheyenne, WY 82002

To whom it may concern:

Your statewide permit number 86-010R, for small wastewater facilities, contains a condition requiring the notification of the appropriate county or state agency prior to the installation or abandonment of facilities authorized by the permit.

A review of state and county records indicates that very few of these facilities are being reported. It is important that these facilities be reported on a regular basis. County governments have agreed to the use of statewide permits on the condition that they be properly notified. If the statewide permitting system is not responsive to the needs of the counties, the state will not be able to issue statewide permits and it will be necessary to obtain permits for such facilities with the individual counties.

In order to address this problem you are requested to do the following:

1. Provide this office a list and location of all facilities constructed under your statewide permit.
2. Indicate the present status of each facility, i.e., operational or abandoned.
3. Indicate whether or not you wish to maintain the statewide permit in an active status.
4. Provide the required notification to both the appropriate county and state agency for all future facilities.

Sincerely yours,

A handwritten signature in cursive script that reads "Lawrence Robinson".

Lawrence Robinson  
Engineering Supervisor

LR/nc

PERMIT TO CONSTRUCT

Permit No. 86-10R  
SEE CONDITION ON BACK

- New
- Renewal
- Modified

Single Unit Restroom (Privie), Statewide  
(Name of Facility)

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

Wyoming Game & Fish Department

5400 Bishop Blvd.

Cheyenne, WY 82002

to construct, install, or modify a privie facility according to the procedures and conditions of the application No. 86-10R. The facility is located Statewide in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

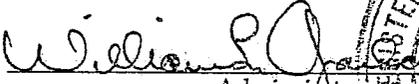
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

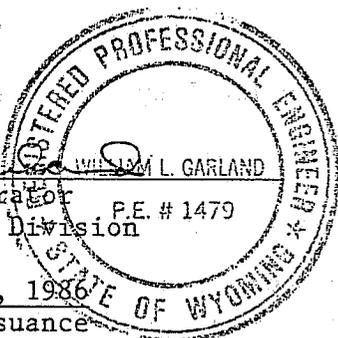
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

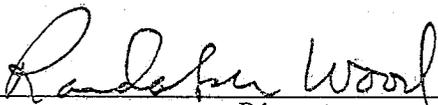
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division  
P.E. # 1479



  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

January 27, 1986  
Date of Issuance

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

Condition to Permit to Construct #86-10R

The permittee shall notify the appropriate county or state agency prior to the installation, removal or abandonment of any facility authorized by this permit. The appropriate agency for each county is indicated in the attached list. Notification shall be by phone with a follow-up written notice. Upon abandoning the site, the facility will be removed, disposed of, or left in place in a condition rendering the site safe for the public. Any waste from the facility shall be disposed of only in areas and in a manner approved by the appropriate agency. Upon request, the permittee shall allow authorized representatives of the local agency or the State to have access to the authorized facility for the purpose of conducting an inspection to determine compliance with the provisions of this permit.

cc: Jon S. Ogden  
Wyoming Game & Fish Dept.  
5400 Bishop Blvd.  
Cheyenne, WY 82202

AGENCIES RESPONSIBLE FOR SMALL WASTEWATER PERMITS

1. Albany County  
Albany County Planning Office  
405 Grand Avenue  
Laramie, WY 82070  
Phone: (307) 721-5188
2. Big Horn County  
Big Horn County Engineer  
P.O. Box 31  
County Courthouse  
Basin, WY 82410  
Phone: (307) 568-2358
3. Campbell County  
Campbell County Engineer  
500 South Gillette Avenue  
Gillette, WY 82716  
Phone: (307) 682-1970
4. Carbon County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
Herschler Bldg. - 4th West  
Cheyenne, WY 82002  
Phone: (307) 777-7781
5. Converse County  
Converse County Sanitarian  
County Health Department  
530 Oak  
Douglas, WY 82633  
Phone: (307) 358-2536
6. Crook County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457
7. Fremont County  
Fremont County Planner  
Room 200, County Courthouse  
Lander, WY 82520  
Phone: (307) 332-5371
8. Goshen County  
Goshen County Sanitarian  
P.O. Box 1132  
County Courthouse  
Torrington, WY 82240  
Phone: (307) 532-5002
9. Hot Springs County  
Hot Springs County Planner  
County Courthouse  
Thermopolis, WY 82443  
Phone: (307) 864-2732
10. Johnson County  
Johnson County Sanitarian  
County Courthouse  
Buffalo, WY 82834  
Phone: (307) 684-7555
11. Laramie County  
Laramie County Environmental Health  
1700 Snyder Avenue  
Cheyenne, WY 82001  
Phone: (307) 638-8545
12. Lincoln County  
Office of Planning and Development  
P.O. Box 414  
Afton, WY 83110  
Phone: (307) 886-3825
13. Natrona County  
Environmental Health Division  
Natrona County Health Department  
1200 East 3rd  
Casper, WY 82601-2990  
Phone: (307) 235-9316
14. Niobrara County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457

15. Park County  
Park County Planning Coordinator  
P.O. Box 160  
Cody, WY 82414  
Phone: (307) 587-2204
16. Platte County  
Platte County Sanitarian  
P.O. Box 55  
Wheatland, WY 82210  
Phone: (307) 322-9571
17. Sheridan County  
Sheridan County Engineer  
P.O. Box 612  
Sheridan, WY 82801  
Phone: (307) 672-3426
18. Sublette County  
Sublette County Planner  
P.O. Box 506  
Pinedale, WY 82941  
Phone: (307) 367-4375
19. Sweetwater County  
Sweetwater County Sanitarian  
205 East Railroad Ave.  
Green River, WY 82935  
Phone: (307) 875-2611 Ext. 278
20. Teton County  
Teton County Sanitarian  
P.O. Box 1727  
Jackson, WY 83001  
Phone: (307) 733-3959
21. Uinta County  
Uinta County Engineer  
225 9th Street  
Evanston, WY 82930  
Phone: (307) 789-1780 ext. 318
22. Washakie County  
Washakie County Planner  
County Courthouse  
Worland, WY 82401  
Phone: (307) 347-2741
23. Weston County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457

Review of Plans and Specifications

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

PROJECT: Single Unit Restroom

ARCHITECT OR ENGINEER: Jon Ogden, Wyoming Game and Fish Department  
5400 Bishop Blvd., Cheyenne, WY 82002

APPLICANT: Same

✓WATER QUALITY DIVISION REFERENCE NUMBER: 86-10

REVIEWING ENGINEER: Thomas S. Norman, Engineering Evaluator *TBN*

DATE OF REVIEW: January 15, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans were not signed/sealed by a Wyoming professional engineer.
2. Plans, page 2, General Requirements, Item 2. What document is Section 35 referring to?
3. Plans, page 2, General Requirements, Item 3. Based on these plans, a specific depth to groundwater needs to be identified. A contractor would not know how to calculate this.
4. Specifications. The thickness of the hypalon liner was not specified.
5. For final approval, 23 copies of the plans and specifications will be necessary to distribute to the counties.

pjb

*Department of Environmental Quality**Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 19, 1986

Utah Power & Light  
ATTN: Mr. James McClay  
P.O. Box 899  
Salt Lake City, UT 84110

RE: WY-0020311, WQD Reference No. 86-11R

Dear Mr. McClay:

The plans and specifications for the above referenced facility have been reviewed by this office and found to be in compliance with the minimum design standards for the State of Wyoming. Because this facility has already been constructed, a permit to construct can not be issued. Therefore, would you please retain a copy of this letter as proof that this facility has been accepted by this department.

Should you have any questions, please contact either Jack Bedessem or myself.

Sincerely,

A handwritten signature in cursive script that reads "Bill Locke".

Bill Locke, P.E.  
Water Quality Engineer

BL/jw

*aba*



*Norma  
(review)*

*Department of Environmental Quality  
Water Quality Division*

210 LINCOLN STREET

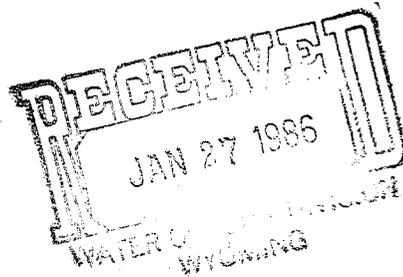
LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 23, 1986

Utah Power & Light Co.  
ATTN: Mr. James McClay  
1407 W. North Temple  
P.O. Box 899  
Salt Lake City, UT 84110

RE: WY-0020311, WQD Reference No. 86-11



Dear Mr. McClay:

I am in receipt of your letter and drawings of a rectangular weir dated January 2, 1986. I have reviewed the drawings and find them to be an acceptable design. However, a letter of acceptance cannot be issued until I receive an unsigned application form. I have enclosed a form that should be filled out and returned to me at your earliest convenience.

Sincerely,

Bill Locke, P.E.  
Water Quality Engineer

BL/jw  
Enclosure

C

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 86-12

SPARROW HAWK HILL WATER LINE RELOCATION  
(Name of Facility)

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

City of Sheridan

P.O. Box 848

Sheridan, Wyoming 82801

to construct, install, or modify a water line extension facility according to the procedures and conditions of the application No. 86-12. The facility is located in Section 28, T.56N., R.84W., in the County of Sheridan, in the State of Wyoming.

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

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

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

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

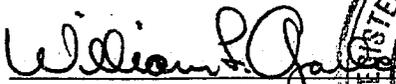
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, Sheridan, Wyoming 82801; telephone, 672-6457.

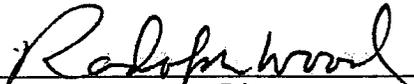
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division



  
\_\_\_\_\_  
Director  
Department of Environmental Quality

\_\_\_\_\_  
January 23, 1986  
Date of Issuance

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

xc: C. J. Sanders, City Engineer



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR



## Department of Environmental Quality

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781

February 10, 1987

CERTIFIED

Mr. Bill Metz  
90 CSG/DEEV  
F.E. Warren AFB, WY 82005-5280

RE: Application GPC 86-013RRR, Acid Dry Well

Dear Mr. Metz:

This is written notification to confirm the verbal information you previously received that an injection well permit will not be issued for the subject application and well. A permit is denied because information we have received indicates the waste is an industrial waste containing excessive concentrations of at least one hazardous constituent as defined by the U.S. Environmental Protection Agency, and the construction of the well and location (depth) of the receiver do not meet regulatory requirements for the injection of industrial and hazardous waste.

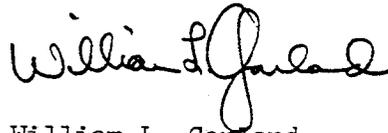
If you desire, you may request a hearing before the Environmental Quality Council to appeal this decision. A request for a hearing must be made in writing within 60 days of the receipt of notification of the denial to the Director, Department of Environmental Quality and shall state the grounds for the request. Any hearing shall be conducted pursuant to the regulations of the Department of Environmental Quality.

If a hearing is not requested within 60 days, your application will be returned. We understand that use of acid dry wells at F.E. Warren AFB has been discontinued and another more acceptable method for battery acid disposal is being utilized.

Mr. Bill Metz  
February 10, 1987  
Page 2

Even though a permit will not be issued, we are still very much interested in the activities related to the cleanup of soils impacted by past acid dry well operations and analytical results of samples collected from any monitor wells installed in the vicinity of acid dry wells used in the past. Please continue to provide information to us and keep us updated on the progress of cleanup and monitoring activities.

Sincerely,



William L. Garland  
Administrator  
Water Quality Division

WLG/AJM/nc

cc: LeRoy Feusner, DEQ/WQD, Cheyenne  
Mike Strieby, EPA, Denver



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002  
December 11, 1986

TELEPHONE 307 777-7781

Mr. Bill Metz  
90 CSG/DEEV  
F.E. Warren AFB, WY 82005-5280

RE: Soil samples analyses related to past acid dry well operations  
(Ref. GPC 86-013RRR)

Dear Mr. Metz:

We have reviewed the information provided by Lt. Schober and noted an anomaly which, in our opinion, should be further defined by soil sampling and analysis.

The anomaly is indicated on Lt. Schober's sketch by the presence of lead in soil at each edge of an excavation in the vicinity of the location of a sewer drainage pipe which discharged to the acid dry well most distant from building 826.

Although the analyses of soil samples taken at depths of 7 and 10 feet below the surface in the vicinity of the excavation did not indicate the presence of lead, analyses of two soil samples from depths of 4 feet below the surface (#8 and #9 in the second set of samples after the initial excavation) each indicated 18.4 ppm lead. We recommend that the extent of lead contamination (concentrations of 5 or more ppm) in soil at the 4-foot depth be determined before the excavation of contaminated soil is considered complete. We suggest the analyses of more soil samples taken from the 4-foot depth, collected at locations which will indicate the lateral extent of lead contamination. If the extent of contamination at the 4-foot depth is determined to be more extensive than the present excavation, than the contaminated soil at the 4-foot depth should also be removed.

We also recommend that the excavation surrounding the two acid dry wells close to building 826, be taken approximately two feet deeper because of the 91 ppm lead found at one well at the 7-foot level, and 21.9 ppm lead at 7 feet in a nearby soil sample. Care should be taken not to penetrate the water table by deeper excavation.

Sincerely,

A handwritten signature in cursive script that reads "A.J. Mancini".

A.J. Mancini  
Groundwater Control Supervisor

AJM/can  
cc: LeRoy Feusner, Water Quality Division



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 28, 1986

Mr. Bill Metz, Chief  
Environmental & Contract Planning  
90 CSG/DEEV  
F.E. Warren AFB, WY 82005-5280

RE: Application GPC 86-13, existing acid dry well

Dear Mr. Metz:

As a result of our preliminary review of the subject application, we requested that F.E. Warren AFB submit additional information, including a complete analysis of sample(s) of the treated fluid (neutralized acid) going into the dry well and a complete analysis of sample(s) of the soil at the bottom of (beneath) the dry well. Apparently a complete analysis of the treated fluid is not available, but information provided by F.E. Warren AFB indicates the fluid could have 20,710 parts per million lead and 295 parts per million cadmium.

You have recently informed us that F.E. Warren AFB has been allotted funds to obtain soil samples for analyses from the area of the existing acid dry well and from areas of two previously used acid dry wells on the base, and to remove contaminated soil. F.E. Warren AFB's proposal reportedly includes the installation of one observation well into the shallow underground water.

We support the proposal as a step in the right direction. Soil sampling and analyses should provide information which can be useful in determining the extent of contamination which may have resulted from the use of acid dry wells. One observation (monitor) well may not be sufficient to characterize any impact to shallow groundwater.

We have also been informed that all use of the existing acid dry well has been discontinued and other methods of disposal are being investigated. We believe this is a prudent approach. F.E. Warren AFB should not resume use of the acid dry well unless a permit and/or authorization for its use has been issued by the Department of Environmental Quality.

Please provide the following information at your earliest convenience, and within thirty days of receipt of this letter:

1. A time schedule for the soil sampling, well installation and sampling, and other activities described in the proposal to "test and clean up acid dry wells";

Mr. Bill Metz, Chief  
July 28, 1986  
Page 2

2. A description of F.E. Warren AFB's present method for disposing of acid wastes, and future method if a change is contemplated;
3. Any additional information on the analysis of treated fluid which was disposed of in the dry well;
4. A commitment to forward to the Water Quality Division the results of any soil testing and groundwater monitoring (including samples analyses) related to the acid dry well testing and clean up activities, as soon as results are available; and to keep the Division apprised of any changes or new developments related to these activities.

It is assumed that F.E. Warren AFB or its contractor(s) will obtain all necessary permits and authorizations required to "test and clean up acid dry wells".

Sincerely,



A. J. Mancini  
Groundwater Control Supervisor

AJM/nc

cc: Mike Strieby, U.S. EPA Region VIII



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

February 20, 1986

CERTIFIED

Bill Metz, Chief  
Environmental and Contract Planning  
90 CSG/DEEV  
F.E. Warren AFB, WY 82005-5280

RE: Application for permit GPC 86-13, acid dry well

Dear Mr. Metz:

We have made a preliminary review of the subject application, which is for an existing subsurface discharge. Before the review process can continue, a determination must be made as to whether or not the well has been or is being used for the discharge of hazardous wastes or substances (UIC Class IV). We asked EPA to comment on this particular aspect; EPA's response indicated that additional information was required. Details on the quality characteristics of the waste fluids is lacking; the actual nature of the base's activity relative to disposing of the waste fluid from batteries is unknown and has not been described. If batteries are being reclaimed, the base is subject to certain RCRA requirements. The most recent RCRA rules were published in the federal register of Friday, January 4, 1985, as Part III, Environmental Protection Agency, 40 CFR Parts 260, 261, 264, 265, and 266 Hazardous Waste Management System; Definitions of Solid Waste, Final Rule.

It is requested that you submit to this agency, as soon as possible, the following:

- a complete analysis of sample(s) of the treated fluid going into the dry well (including trace metals);
- a complete analysis of a sample(s) of the soil at the bottom of (beneath) the dry well (including a scan for organics);
- a description of the purpose of the used battery storage project; and
- information on the potential for the disposal of other wastes into the dry well.

It is our understanding that you are pursuing alternate means of disposing of the neutralized battery acid. It is also our understanding that the site of the acid dry well will be evaluated for environmental impact.

Bill Metz, Chief  
February 20, 1986  
Page 2

Please submit to the Water Quality Division, within 15 days of receipt of this letter, a plan and time schedule for:

1. providing the information and analyses requested in this letter;
2. establishing alternate means of disposal of the neutralized acid; and
3. evaluating the environmental impact of use of the acid dry well.

Sincerely,



William L. Garland, P.E.  
Administrator

WLG/AJM/pjb

cc: A.J. Mancini, WQD  
LeRoy Feusner, WQD  
Mike Strieby, EPA, Region VIII  
✓GPC 86-13 file



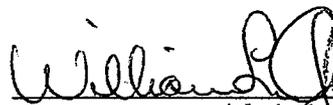
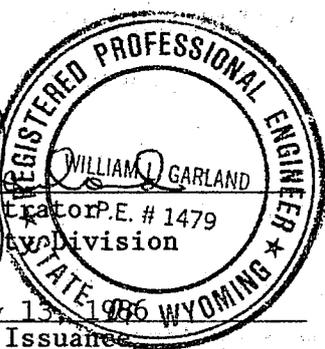
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

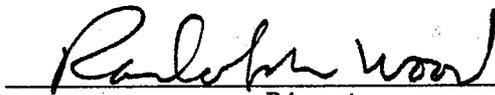
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
WILLIAM D. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
  
February 13, 1986  
Date of Issuance

  
Director  
Dept. of Environmental Quality

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



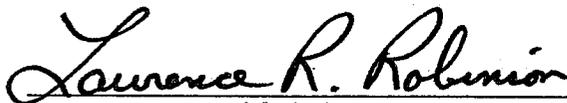
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
for Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

\_\_\_\_\_  
April 4, 1986  
Date of Issuance

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

norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Jensen's Custom Meat

ENGINEER: Kevin D. Jones  
516 Sage Street  
Evanston, WY 82930

OWNER: Guy Jensen  
HC 68, Box 2801  
Lyman, WY 82937

WATER QUALITY DIVISION REFERENCE NUMBER: 86-15

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: January 30, 1986

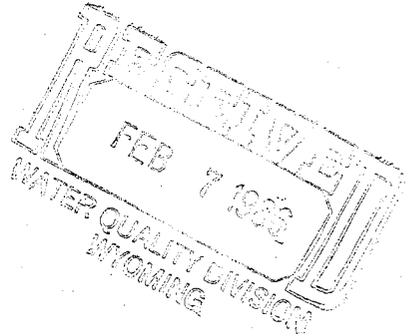
ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. A permit to construct will not be issued until the following items are addressed:

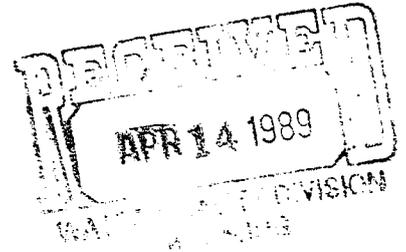
1. Water Quality Rules and Regulations, Chapter XI, Part D, Section 43, prohibits the use of holding tanks for new construction. Please provide reasoning why a holding tank should be considered for this application.
2. The Solid Waste Management Division of DEQ has declared that the Bridger Valley Landfill is not an acceptable dump site for septic tank dumpings. An alternate receiver will have to be located and a verification letter provided.
3. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw



AB

MEMORANDUM



TO: FILE  
FROM: Sterling Roberts *SR*  
DATE: April 12, 1989  
SUBJECT: Old Construction projects

The following construction projects have been cancelled or withdrawn. The following list indicates the status of these projects.

<u>Permit Number</u>	<u>Facility Name</u>	<u>Status</u>
81-624	Battle Mt. Lodge	Plans returned to applicant. Owner bankrupt. Drop from files
81-786	American Hunter New Fork #2	Project was cancelled. Drop from files.
84-029	Thomson Reserve	Plans cancelled 5/16/86 as per letter from applicant.
<u>86-016</u>	Long Tree Timber	Plans returned to applicant. Drop from files.
86-203	Beverly Subdiv.	Plans returned to applicant. Drop from files.



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 11, 1986

Mr. Lorne Loraas  
Co-Generation Plant Superintendent  
Longtree Timber  
P.O. Box 517  
Afton, WY 83110

RE: Permit to Construct 86-16R

Dear Mr. Loraas:

Enclosed are copies of correspondence between the Water Quality Division (WQD) and your consultant outlining the groundwater monitoring program for the existing rapid infiltration (RI) beds at the Longtree Timber Plant. The Wallace report predicts the impacts to groundwater from the existing RI beds. You may be able to use this information to predict impacts from the proposed ponds as well.

If I can be of further assistance, please call me.

Sincerely,

*Kate Laudon*

Kate Laudon  
Groundwater Engineer Evaluator

KL/nc

Enclosure

cc: Jack Bedessem, DEQ/WQD, Lander

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 LINCOLN

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Longtree Timber Company Process Wastewater Disposal System

ENGINEER: Ross M. Turner  
Selectronics  
P.O. Box 808  
Afton, WY 83110

OWNER: Longtree Timber Company  
P.O. Box 517  
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 86-16R

REVIEWING: Jack Bedessen, Kate Laudon

DATE OF REVIEW: March 3, 1986

ACTION: Not authorized.

COMMENTS:

The submittal of this application prompted a thorough review of our files which document the operation of this facility. On July 18, 1983 "Permit to Construct" No. 82-755RRR was issued for the construction of two infiltration basins and groundwater monitoring wells. On March 13, 1984 a letter was issued accepting the facility "as built" (No. 84-36).

"Permit to Construct" No. 82-755RRR was issued based on estimated process wastewater quality, an analysis of groundwater quality impacts, and a detailed groundwater monitoring program. Three significant developments have occurred since that original permit was issued: (1) the DEQ/Water Quality Division revised Chapter III Rules and Regulations and adopted Chapter XI Rules and Regulations which govern facilities of this type; (2) the actual process wastewater quality is different than initially estimated; (3) the groundwater monitoring program has never been in complete compliance with the terms and conditions of the permit (i.e. parameters, static water level measurements, frequency, reporting).

Hopefully, through the review of our files and this application an acceptable operation can be developed. A new "Permit to Construct" will not be issued until all groundwater, design and construction concerns have been completely addressed.

The following comments summarize our review of the current operation and new application for "Permit to Construct":

1. The original groundwater monitoring program required that the static water levels in each well be measured prior to sampling and reported. Provide information as to the static water level in each well. If information about seasonal fluctuations is available, it should also be provided.

2. The original groundwater monitoring program required that the five monitoring wells be sampled quarterly for: TDS, TKN, total phosphate, sulfates, iron, arsenic, barium, selenium, cadmium, chromium, fluoride, lead, mercury, nitrate-N, ammonia-N, and silver; and monthly for TDS. This department has never received a quarterly monitoring report that included all the required parameters for all the wells. Also this office has no record of any monthly sampling and analysis for TDS.

(a) Compile all the existing groundwater monitoring data available and provide graphical trends of pertinent parameters for each well.

(b) In an effort to resolve any further misunderstandings, provide a revised detailed groundwater monitoring program. Be sure to include: sampling procedures, frequency, parameters, sample preservation, records and reporting. Please feel free to contact Kate Laudon or me when drafting this program.

(c) It is recommended that the following parameters be included in the groundwater sampling program: static water level, pH, ammonia-N, nitrate-N, nitrite-N, manganese, chloride, calcium, magnesium, sulfate, iron, barium, total dissolved solids (TDS).

(3) It is recommended that at least two additional groundwater monitoring wells be designed for construction with this project. One should be located upgradient (between the basins and the irrigation canal) and one directly downgradient (west-north).

(a) The wells should be constructed to the DEQ/Water Quality Division standards as described in Chapter XI, Part G. Detailed drilling logs and completion details for each well should be submitted to this department.

(b) It is recommended that each well be designed and completed such that pertinent groundwaters can be monitored at various depths (i.e. cluster wells).

(c) Prior to completion and sampling of any new wells, contact Kate Laudon to be sure everything is in order.

4. This application proposes the construction of two additional infiltration basins. The existing basins will receive plant wastewater at an approximate rate of 35 gpm. The two new ponds are to receive scrubber wastewater at an approximate rate of 25 gpm.

Groundwater beneath the plant site has been defined as Class I, suitable for domestic use (ref. Chapter VIII). From the chemical analysis submitted with this application; the plant wastewater exceeds Class I standards for the following parameters: iron, manganese, phenols, sulfates and TDS; the scrubber wastewater exceeds Class I standards for the following parameters: ammonia-N, barium, cadmium, iron, manganese, nitrite-N, phenols and TDS.

This application must address and document compliance with the requirements specified in Chapter III, Section 15(a) or (b). Provide documentation that the operation of this facility as described in the new application will not cause a violation of the groundwater standards.

5. Information received in a letter dated February 21, 1986, indicates the quality of the scrubber wastewater may be significantly changed. The fly ash contact may increase from 30 cubic feet per day to a maximum of 30 tons per day because of a change in plant operation. A chemical analysis of a representative sample must be provided with this application if this change is to be considered.

In addition to the parameters previously tested for, include analyses for total suspended solids, total settleable solids and volatile organics (by EPA Method 624). Also provide an analysis of volatile organics (624) on a representative sample of the plant wastewater.

6. Address measures for excluding surface water runoff from entering the proposed ponds. Also address the location of the ponds in relation to the 25 year and 100 year flood event.

7. Provide the data and assumptions used to calculate (water balance) the sizing of the proposed settlement/infiltration ponds. Address the effect of fly ash build up on the seepage rate.

8. The pond inlet piping should be provided with a splash pad or structure to prevent erosion of the interior slopes. Details should be included with the plans.

9. The maximum operating level should be indicated on the plans to insure adequate freeboard. Be sure that the sizing/design calculations account for freeboard.

10. Address the soils to be used in constructing the proposed ponds. Construction and material specifications signed by a registered Wyoming Professional Engineer must be included with this application (ref. Chapter XI, Sections 6, 7 and 29).

11. Address erosion protection of the interior slopes. Interior pond slopes shall not be steeper than 3H:1V unless paved or rip-rapped.

Submit the required information and revised drawings to this office in triplicate, if you have any questions please feel free to contact Kate Laudon or me.

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 86-16

DATE SUBMITTED FOR REVIEW 1-24-86

NAME AND LOCATION OF FACILITY Longtree Timber Inc.  
Sec. 19 T32N R118W  
Lincoln Co.

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

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

SIGNED Kate Laudon

TITLE Engineer Evaluator

DATE 2-28-86

ACCEPTED FOR RECORD 2/28/86  
(Date)

AJM  
Groundwater Control Supervisor



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor

FROM: Kate Laudon, Groundwater Engineer Evaluator *Xg Z*

DATE: February 28, 1986

SUBJECT: Longtree Timber Company, Afton Co-generating Plant, DEQ/WQD Ref. No. 86-16R

Longtree Timber Company has applied to modify their wastewater disposal system at the Afton Co-generating Plant located in Section 19, T32N, R118W, Lincoln County. Currently plant wastewater and scrubber wastewater including flyash is discharged into two rapid infiltration beds which were permitted in 1983 (permit number 82-755RRR). Based on information supplied with the first permit application, a groundwater monitoring program was established.

The permit required that TDS values for two monitoring wells be submitted on a monthly basis, and that the monitor wells, and three domestic wells be sampled for a longer list of parameters on a quarterly basis. We have never received a quarterly monitoring report that included all parameters for all wells. The file shows no record of monthly TDS values either.

Groundwater beneath the plant site is Class I, suitable for domestic use. Initially it was reported that groundwater occurred approximately 110 feet beneath the plant. Samples have been collected from an 80 foot test well located downgradient from the existing rapid infiltration beds. Static water level in that well has never been reported.

The most recent permit application contains a chemical analysis of the wastewater that is much different from that estimated in the original permit application. Plant water will be discharged at approximately 35 gpm to the existing rapid infiltration beds. The applicant proposes to build two additional cells which will receive scrubber wastewater at approximately 25 gpm.

Parameters of the wastewater that exceed Class I standards include:

- |           |        |
|-----------|--------|
| Ammonia   | Barium |
| Cadmium   | Iron   |
| Manganese | Phenol |
| Sulfate   | TDS    |

Considering the chemical quality of the wastewater with respect to that of the existing groundwater, the following items should be included in the permit application:

1. The most recent information submitted concerning characteristics of the wastewater indicates that the existing rapid infiltration beds may not meet Chapter III standards. The applicant should provide documentation that operation of the rapid infiltration beds does not violate groundwater standards as described in Chapter III, Section 15 a. and b.
2. The two new cells should be designed such that a discharge of wastewater will not result in a violation of the groundwater standards as defined in Chapter III, Section 15 a.
3. Two additional monitor wells should be constructed one upgradient (east of the proposed site) between the new settlement ponds and the fly ash storage area, and one downgradient (west) of the proposed new settlement ponds.
4. Static water level should be measured in the existing 80 foot test well. Based on that information, the new monitor wells should be screened 5 to 10 feet above the highest anticipated groundwater level, and the screen should extend 10 feet below the lowest anticipated groundwater level.
5. Detailed drilling logs, and completion details should be submitted for each well. The wells should be constructed to the standards contained in Chapter XI, Part G.
6. A total of five wells, the two new monitor wells, the 80 foot test well, the 175 foot test well, and the plant water well should be sampled quarterly for the following list of parameters:

Static water level	Sulfate
pH	Iron
Ammonia	Barium
Cadmium	Total Dissolved Solids
Manganese	

Sampling shall begin on the existing wells immediately, and shall begin on the new wells as soon as they are constructed.

7. Reports shall be submitted within 30 days of the end of each quarter to:

The Groundwater Section  
Wyoming Department of Environmental Quality  
Water Quality Division  
4th Floor West, Herschler Bldg.  
Cheyenne, WY 82002

(Make this a permit condition.)

8. Before the wells are completed and samples are collected, they should contact me to be sure everything is in order.

KL/nc



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 15, 1986

Dan Coughlin, Manager  
Brooks Water and Sewer District  
P.O. Box 2080  
Mills, WY 82644

Dear Mr. Coughlin:

On August 13, 1986, a status letter was sent to you concerning a permit to construct, reference number 86-017, facility name Brooks Water & Sewer District Standard Specifications. The application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

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

Sincerely,

William L. Garland  
Administrator

WLG/TSN/nc



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 13, 1986

Dan Coughlin, Manager  
Brooks Water and Sewer District  
P O Box 2080  
Mills, WY 82644

Dear Mr. Coughlin:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project is:

Facility name:	Standard Specifications
DEQ/WQD Reference Number:	86-17
Engineering Consultant:	N/A
DEQ/WQD Reviewing Engineer:	Thomas S. Norman, Southeast District Supervisor
Date of DEQ/WQD Review:	January 30, 1986

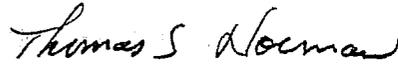
According to Chapter III of the Water Quality Rules and Regulations, Section 7 b. (2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

Please indicate below the status of your application and return this form to our office:

- The application will not be resubmitted as the proposed project has been cancelled.
- The application will be resubmitted within 30 days.
- The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.
- Other remarks \_\_\_\_\_

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Unless the Water Quality Division reviewing engineer receives this information within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,



Thomas S. Norman  
Southeast District Supervisor

TSN/pjb



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 30, 1986

Mr. Dan Coughlin, Manager  
Brooks Water & Sewer District  
P.O. Box 2080  
Mills, WY 82644

RE: Standard Specifications, DEQ/WQD Ref. No. 86-17

Dear Dan:

The Water Quality Division has received your request to update the Brooks Water & Sewer District's standard specifications. Your reference to the Casper BPU standard specifications presents a problem as Casper's standards have some inconsistencies with the Water Quality Rules and Regulations. Casper proposes to update their standards this year to make the necessary changes. Some of the changes include manhole step spacing, ductile iron pipe protection, water/sewer crossing, etc.

Two options are available to you:

1. Adopt the current Casper standards (with your addenda) with the understanding that you will adopt their new standards when they are made available.
2. Adopt the current Casper standards and make the necessary changes by addenda to bring your standards in line with the Water Quality Rules and Regulations. If you select this option, I could provide a list of items that would be required in your addenda.

One of your current addenda that is not acceptable is the use of concrete encasement for water and sewer crossings. The Water Quality Rules and Regulations (Chapter XI and XII) require the use of a separate conduit pipe. Concrete is not acceptable as it actually adds more stress to the pipes than standard backfill. See attached drawings for acceptable methods.

Mr. Dan Coughlin, Manager  
January 30, 1986  
Page 2

Before your standard specifications can be accepted, I need to know which option you will select and also a solution to the water/sewer crossing problem.

Thank you for promptly responding to my previous letter.

Sincerely,



Thomas S. Norman  
Water Quality Engineer

TSN/nc  
Enclosure



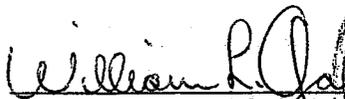
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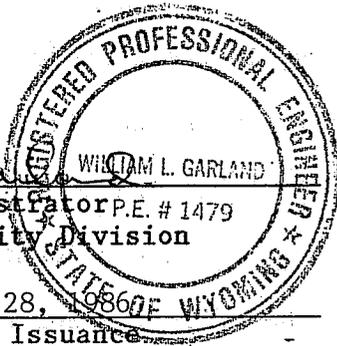
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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.

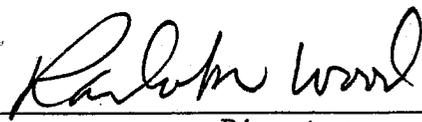
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator P.E. # 1479  
Water Quality Division



February 28, 1986  
\_\_\_\_\_  
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*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 18, 1986

Mr. William A. Peterson, Jr.  
City Administrator  
P.O. Box 1700  
Riverton, WY 82501

RE: Federal Sewage Works Grant C560136-03-01, Riverton, Wyoming, Sewer  
Interceptor, Phase II, DEQ/WQD Ref. No. 86-18

Dear Mr. Peterson:

The detail plans and specifications for phase two of the interceptor sewer improvements are hereby approved. The permit to construct for this project is attached. Also enclosed is one copy of the approved plans and specifications.

You are reminded to complete the enclosed bid document checklist and follow the directions regarding advertisement and bid opening provided in a June 26, 1985 letter from Michael Hackett of this office.

If you have any questions, please contact Mr. Wally Koch.

Sincerely,

William L. Garland  
Administrator

WLG/WK/nc

Enclosure

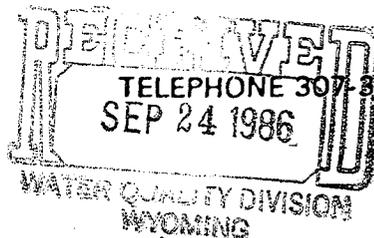
cc: EPA, Region VIII  
ARIX, Riverton  
Loren Leichtnam, DEQ/WQD, Sheridan  
Steve Gerber, DEQ/WQD, Lander  
Grant File

# Department of Environmental Quality

## Water Quality Division

LANDER, WYOMING 82520

### CONSTRUCTION INSPECTION REPORT



Date September 17, 1986

Wyoming Permit Number: 86-18

Name of Facility: Riverton Sewer Interceptors, Phase II

Location of Facility: Sec. 2, T15, R4E Wind River Meridian, South  
interceptor between sta. 76+75 and 77+75

Facility Description:  New Construction  Modification

Design Engineer: Arix

Contractor: 609 E. Madison, Riverton

H-K Contractors

Brent Foster, superintendent

Construction in Compliance with Issued Permit to Construct:

Yes  No

Infraction(s) that need(s) to be Corrected and/or Comments:

Observed construction at the Hwy. 789 tunneling near Wind  
River. Ductile Iron sewer was installed in 3/4" steel carrier pipe.  
Annular space between carrier & soil was pressure grouted; space  
between sewer pipe & carrier was filled w/sand, ends were bricked  
and grouted. Interceptor ~~front of~~ east of tunnel was being backfilled  
& compacted. Concrete pipe was bedded in 1" washed gravel, granular backfill  
above. Soil was being compacted w/ wheeled vibratory compactor  
on the first lift above the hand compaction zone (about 4 1/2 ft  
from surface). Inberg-Miller tech. on site took compaction test - 96%  
of standard proctor). Wind River Engr. was on site shooting as-built  
line & grade for contractor. All work appears to meet specs. and  
Accompanied by: is very well supervised and documented.

Duane Behrens, proj. inspector  
for Arix

Jeff Hermansky  
Signature of Inspecting Engineer

cc: Larry Robinson / Mike Hackett, DEQ/WQD Cheyenne  
Norma ~~at~~ Coulson, DEQ/WQD Cheyenne (archives)  
file

PERMIT TO CONSTRUCT

Permit No. 86-019R

New

Renewal

Modified

Cheyenne-Sherard Water Treatment Plant Improvements  
(Name of Facility)

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

Cheyenne Board of Public Utilities

P. O. Box 1469

Cheyenne, WY 82003-1469

to construct, install, or modify a public water treatment plant, filter to waste system facility according to the procedures and conditions of the application No. 86-019R. The facility is located in Section 31, 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.

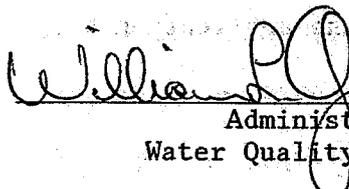
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

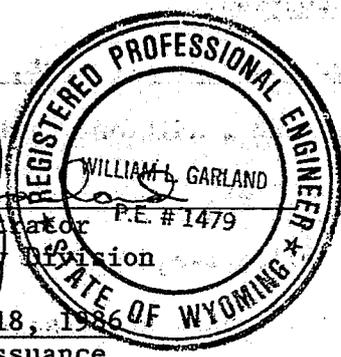
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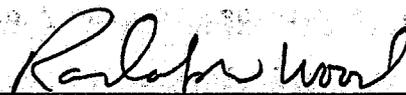
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:

  
Administator  
Water Quality Division  
February 18, 1986  
Date of Issuance



  
Director  
Dept. of Environmental Quality

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

1-29-86

Review of Plans and Specifications

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

PROJECT: R. L. Sherard Water Treatment Plant, Filter to Waste System, Laramie Co.

ARCHITECT OR ENGINEER: Carroll Aamold, Board of Public Utilities  
P.O. Box 1469, Cheyenne, WY 82003-1469

APPLICANT: Same as above

WATER QUALITY DIVISION REFERENCE NUMBER: 86-019

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

DATE OF REVIEW: January 28, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. How are the valves to be controlled? What is the sequence of operation of the valves? Are they manual or automatic? How will you determine the length of a waste cycle?
2. It appears that the waste line goes through the wet well before it leaves the building. This is not acceptable. The line should be brought outside and then dropped into the ground. Since this is a drainline, freezing should not be a problem.
3. What is the elevation difference between the waste line and the decant ponds?
4. This modification will definitely increase the discharge quantity. How much increase is expected? What impact will this have on your wastewater facilities and downstream users? Can this water be recycled? This change may require a NPDES permit.
5. What are the specifications for the PVC pipe and valves? Do they have to meet ASTM or AWWA standards?
6. Three copies of the final plans are necessary.

TNS/nc

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-20R

STROUP'S MOBILE HOME PARK  
 (Name of Facility)

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

Stroup's Mobile Home Park

200 Cotton Avenue

Gillette, Wyoming 82716

to construct, install, or modify a water supply chlorination system facility according to the procedures and conditions of the application No. 86-20R. The facility is located in Section 2, T.49N., R.72W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

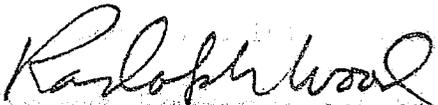
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, 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:

  
\_\_\_\_\_  
REGISTERED PROFESSIONAL ENGINEER \*  
WILLIAM GARLAND  
Administrator  
Water Quality Division #1478  
STATE OF WYOMING \*  
March 4, 1986  
Date of Issuance

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

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

xc: Mike McDill  
400 West Boxelder  
Gillette, WY 82716

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Stroup's Mobile Home Park  
Water System Modification

ARCHITECT OR ENGINEER: Mike McDill  
McDill Engineering  
400 West Boxelder Road  
Gillette, Wyoming 82716

WATER QUALITY DIVISION  
REFERENCE NUMBER: 86-20

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: February 21, 1986

ACTION: Not Authorized

COMMENTS:

- 1.) The manufacturer's specifications for the chlorination equipment to be used are needed.
- 2.) A detail drawing showing how and where the chlorination system will connect to the existing facility is needed.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 86-21

BLACK THUNDER MINE SEDIMENTATION POND 27-SR-1  
(Name of Facility)

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

Thunder Basin Coal Company

P.O. Box 406

Wright, Wyoming 82732

to construct, install, or modify a sediment and flood control facility according to the procedures and conditions of the application No. 86-21. The facility is located in Section 27, 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.

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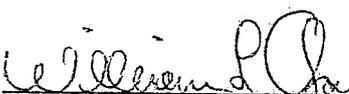
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

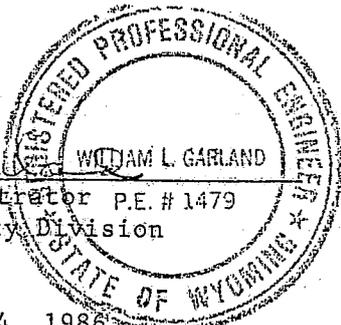
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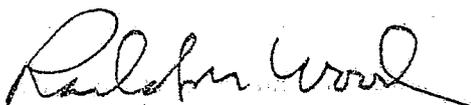
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AUTHORIZED BY:

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



  
\_\_\_\_\_  
Director  
Department of Environmental Quality

February 4, 1986  
Date of Issuance

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

xc: David E. Sinkbeil, Thunder Basin Coal Co.



THE STATE OF WYOMING

86-022  
86-023

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Interested Personnel

FROM: Jerry Placzek, Engineering Evaluator *JP*

DATE: August 19, 1986

SUBJECT: Specification revision for the Cody wastewater treatment plant and interceptor project

Please note that two of the attached sheets were revised to comply with federal requirements. Changes center on referencing executive orders 11246, 11458, 11518, 11625 as well as 40 CRF Part 8 and 41 CFR 60:1 and 60:4.

The third sheet revises the time frame for equipment and material substitute review from 15 to 20 days.

cc: City of Cody, Mayor Miller  
Steve Gerber  
Loren Leichtman



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 14, 1986

The Honorable Dorse Miller  
Mayor, City of Cody  
1338 Rumsey Avenue  
Cody, WY 82414

RE: City of Cody, Wyoming, C560139, DEQ/WQD Ref. No. 86-022RR and  
86-023RRR, Approval of Plans and Specifications

Dear Mayor Miller:

The plans and specifications for the construction of water pollution control facilities for the referenced projects have been reviewed by the State of Wyoming Department of Environmental Quality. This office hereby approves the plans and specifications and is enclosing the permits to construct.

The procedure for submission and approval of modifications to the approved plans and specifications is the same as for the original set; i.e., five copies of any proposed modifications, together with an explanation of the reasons therefor should be forwarded to us. Unauthorized modifications of approved sets of plans and specifications may result in suspension of federal participation in the project.

We are sending the approved plans and specifications for the referenced projects which must be kept available at all times so that personnel from this office may have access to them during inspection activities.

Sincerely,

William L. Garland  
Administrator

WLG/JP/nc

Enclosures

cc: EPA, Region VIII  
Darvin Dietz, Graham Dietz & Associates  
Steve Gerber, DEQ/WQD, Lander  
Grant File

8-11-86

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 86-022RR  
EPA C560139  
SEE CONDITIONS ATTACHED

Northeast Cody Sanitary Collection System  
(Name of Facility)

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

City of Cody  
1338 Rumsey Avenue  
Cody, WY 82414

to construct, install, or modify a interceptor sewer according to the procedures and conditions of the application No. 86-022RR. The facility is located in Section 27, T53N, R101W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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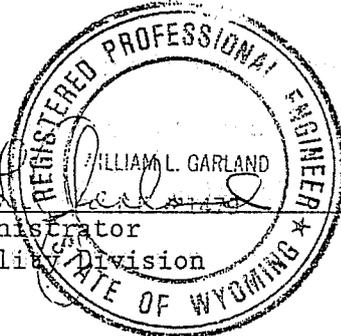
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted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

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AUTHORIZED BY:

  
William L. Garland  
Administrator  
Water Quality Division  
8-8-86  
Date of Issuance

Ralph Wood  
Director  
Dept. of Environmental Quality

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

cc: Engineering Associates, P.O. Box 1900, Cody, WY 82414  
Graham, Dietz & Associates, P.O. Box 338, Cody, WY 82414

Conditions to Permit to Construct #86-022RR (EPA C560139)

Background water quality shall be established prior to the introduction of any wastewater into the lagoons for the network of 4 monitor wells. The groundwater section prefers and strives for 4 sets of background water quality data quarterly for 1 year. At a minimum 4 sets of background water quality data will be taken from each well, separated by 1 month. If the background water quality data does not correlate, additional background data may be required. It is suggested that the monitor wells be installed and sampled as soon as possible.

Other than gross alpha the groundwater section will allow the radiometric parameters to be deleted in future background water quality testing. If gross alpha exceeds the standards as defined by Chapter VIII of the State of Wyoming's Water Quality Rules and Regulations then the deleted radiometric parameters will be tested to establish background. The approved and reduced parameter list is as follows:

Background Water Quality Parameters

Aluminum	Copper	Oil & grease
Ammonia	Cyanide	Phenol
Arsenic	Iron	Selenium
Barium	Lead	Silver
Beryllium	Lithium	TDS
Boron	Manganese	Zinc
Cadmium	Mercury	pH
Chloride	Nickel	Gross Alpha
Chromium	Nitrate (NO3-N)	Static Water Level
Cobalt	Nitrite (NO2-N)	

A further reduced list of operational parameters, with the permittee's input, will be determined by the groundwater section upon receipt of the complete background water quality data. Monitor wells will then be monitored annually in June. In addition, static water levels will be taken quarterly. All analytical results are due within 30 days of the end of each sampling period. It is suggested that samples be obtained during the first week of June, so that the quarterly deadline can be met. If the annual analyses show degradation of groundwater which results in a violation of groundwater standards or poses a threat to cause a violation, quarterly analyses will be required. Approved groundwater sampling techniques shall be followed.

Upon construction of the monitor well complete soil logs, construction and installation specifications shall be provided to the groundwater section. Additional monitor wells may be constructed with prior approval from the groundwater section.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 86-023RRR  
EPA C560139  
SEE CONDITIONS ATTACHED

Wastewater Treatment Improvements - Phase I  
(Name of Facility)

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

City of Cody

1338 Rumsey Avenue

Cody, WY 82414

to construct, install, or modify a 2 cell aerated, rapid infiltration system facility according to the procedures and conditions of the application No. 86-023RRR. The facility is located in Section 27, T53N, R101W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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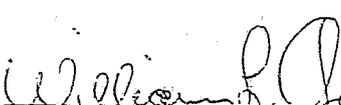
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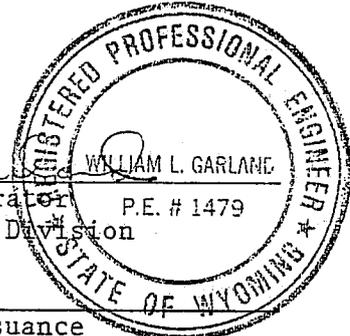
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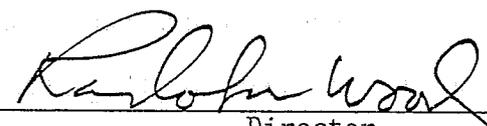
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AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

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

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

8-8-86  
Date of Issuance

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

cc: Engineering Associates, P.O. Box 1900, Cody, WY 82414  
Graham, Dietz & Associates, P.O. Box 338, Cody, WY 82414

Conditions to Permit to Construct #86-023RRR (EPA C560139)

Background water quality shall be established prior to the introduction of any wastewater into the lagoons for the network of 4 monitor wells. The groundwater section prefers and strives for 4 sets of background water quality data quarterly for 1 year. At a minimum 4 sets of background water quality data will be taken from each well, separated by 1 month. If the background water quality data does not correlate, additional background data may be required. It is suggested that the monitor wells be installed and sampled as soon as possible.

Other than gross alpha the groundwater section will allow the radiometric parameters to be deleted in future background water quality testing. If gross alpha exceeds the standards as defined by Chapter VIII of the State of Wyoming's Water Quality Rules and Regulations then the deleted radiometric parameters will be tested to establish background. The approved and reduced parameter list is as follows:

Background Water Quality Parameters

Aluminum	Copper	Oil & grease
Ammonia	Cyanide	Phenol
Arsenic	Iron	Selenium
Barium	Lead	Silver
Beryllium	Lithium	TDS
Boron	Manganese	Zinc
Cadmium	Mercury	pH
Chloride	Nickel	Gross Alpha
Chromium	Nitrate (NO3-N)	Static Water Level
Cobalt	Nitrite (NO2-N)	

A further reduced list of operational parameters, with the permittee's input, will be determined by the groundwater section upon receipt of the complete background water quality data. Monitor wells will then be monitored annually in June. In addition, static water levels will be taken quarterly. All analytical results are due within 30 days of the end of each sampling period. It is suggested that samples be obtained during the first week of June, so that the quarterly deadline can be met. If the annual analyses show degradation of groundwater which results in a violation of groundwater standards or poses a threat to cause a violation, quarterly analyses will be required. Approved groundwater sampling techniques shall be followed.

Upon construction of the monitor well complete soil logs, construction and installation specifications shall be provided to the groundwater section. Additional monitor wells may be constructed with prior approval from the groundwater section.



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: William L. Garland, Administrator  
FROM: Jerry Placzek, Engineering Evaluator JP  
DATE: July 30, 1986

SUBJECT: Request for variance on the Permit to Construct for the Cody WWTP

Engineering Associates has applied for a variance on the Permit to Construct the WWTP for the City of Cody in accordance with Chapter XI Section 5 Paragraph 3 and 4. (Please note attached letter.) The request stems from the alternative nature of the design which incorporates the use of two aerated ponds operated in series with final suspended solids removal taking place in one of five infiltration ponds.

The variance is being requested because of the lack of a third cell or quiescent pond for a lagoon system as required by Section 18(b) of Chapter XI and because in this systems primary mode of operation it will not have 30 days detention as required by Section 18(a)(C) III.

The engineer has shown in his design report that according to the state of art design of the system as explained in great detail in EPA publication EPA 625/1-81-013 and its supplement EPA 625/1-81-013a this system will meet the limits of its discharge permit year round. BOD removal will be provided by the two aerated ponds with solids removal being accomplished in the infiltration pond.

The engineer has also requested a variance in accordance with paragraph 4 of Section 5 on the flexibility of the system. It is proposed that the system is to be operated as described in paragraph 1 above. However, if due to winter frost that the infiltration ponds seal and due not operate as intended that the piping arrangement will allow all five I-ponds to be operated in series increasing detention time to approximately 37 days meeting both the requirements of Chapter II and the municipalities NPDES permit.

/jt

Approved 8-6-86

*William L. Garland*



Department of Environmental Quality  
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Jerry Placzek, Engineering Evaluator

THROUGH: Jake Strohman, Groundwater Operation Supervisor

FROM: Matthew M. Langenfeld, Groundwater Compliance Specialist *mmL*

DATE: ~~June~~ July 6, 1986

SUBJECT: Groundwater Review of the Cody Wastewater Treatment Facility, EPA C560139, DEQ/WQD Ref. No. 86-023R

This memo is in response to your request for a groundwater review of the Cody wastewater treatment facility on June 26, 1986. The following items need to be addressed prior to the issuance of a permit to construct.

1. The proposed locations of monitor wells #79, 80 and 81 need to be relocated. Monitor well #79 needs to be moved to the approximate area of borehole #12 to monitor the potential downgradient plume of contamination and to protect any potential development in that area. Monitor well #80 needs to be moved further to the south and upgradient to ensure that it will not be influenced by mounding. Monitor well #81 needs to be moved further to the west to ensure that it will not be influenced by mounding. The proposed location of monitor well #78 is approved. In any event, all monitor wells should be located far enough away from the facility so that mounding will not effect the well and so that a mixing zone area will be allowed for.
2. The monitor well detail provided in the plans is incomplete. The slots shall be located two feet above the highest expected groundwater level, a bottom cap shall be installed, and an eight inch steel protective locking casing set in concrete that slopes from the well shall be installed. Eight inch PVC may be substituted for the eight inch steel casing.
3. Complete construction specifications for existing monitor wells at the wastewater impoundment site, including total depth, depth to groundwater, interval of the screen, seal, composition of the casing, protection, etc. This information need only be provided if existing wells are planned to be converted to monitor wells.
4. Complete monitor well locations, monitor well installation specifications, well development, and provisions for measuring the elevations of the top of the casing and static water level, shall be included in the specifications for the construction of the Cody Wastewater Treatment Plant.
5. Proper sample collection and handling procedures shall be provided to the groundwater section for later inclusion in the O & M manual. This document

shall include provisions for background sampling, operational monitoring, record keeping and reporting, monitoring requirements, proper sampling techniques, measurements of static water levels, location of monitor wells, results of past analyses, surface and groundwater gradients, and a description of how representative sampling may be accomplished, etc. This should be provided prior to the issuance of a permit to construct.

6. The following conditions shall be made a part of the permit to construct:

Background water quality shall be established prior to the introduction of any wastewater into the lagoons for the network of 4 monitor wells. The groundwater section prefers and strives for 4 sets of background water quality data quarterly for 1 year. At a minimum 4 sets of background water quality data will be taken from each well, separated by 1 month. If the background water quality data does not correlate, additional background data may be required. It is suggested that the monitor wells be installed and sampled as soon as possible.

Other than gross alpha the groundwater section will allow the radiometric parameters to be deleted in future background water quality testing. If gross alpha exceeds the standards as defined by Chapter VIII of the State of Wyoming's Water Quality Rules and Regulations then the deleted radiometric parameters will be tested to establish background. The approved and reduced parameter list is as follows:

Background Water Quality Parameters

Aluminum	Copper	Oil & grease
Ammonia	Cyanide	Phenol
Arsenic	Iron	Selenium
Barium	Lead	Silver
Beryllium	Lithium	TDS
Boron	Manganese	Zinc
Cadmium	Mercury	pH
Chloride	Nickel	Gross Alpha
Chromium	Nitrate (NO3-N)	Static Water Level
Cobalt	Nitrite (NO2-N)	

A further reduced list of operational parameters, with the permittee's input, will be determined by the groundwater section upon receipt of the complete background water quality data. Monitor wells will then be monitored annually in June. In addition, static water levels will be taken quarterly. All analytical results are due within 30 days of the end of each sampling period. It is suggested that samples be obtained during the first week of June, so that the quarterly deadline can be met. If the annual analyses show degradation of groundwater which results in a violation of groundwater standards or poses a threat to cause a violation, quarterly analyses will be required. Approved groundwater sampling techniques shall be followed.

Upon construction of the monitor well complete soil logs, construction and installation specifications shall be provided to the groundwater section. Additional monitor wells may be constructed with prior approval from the groundwater section.

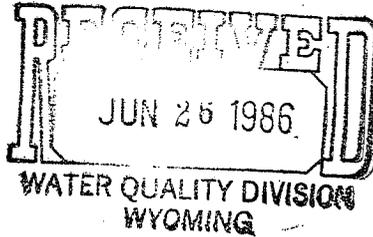
MML/nc

cc: Jake Strohman  
Mike Hackett  
Steve Gerber

86-22  
86-23  
norma

MEMORANDUM

TO: Jerry Placzek  
FROM: Steve Gerber *SG*  
SUBJECT: Cody WWTP and Sewer Main Review  
DATED: June 13, 1986



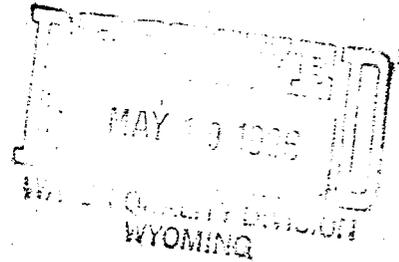
Following are my supplemental comments to my May 15 memo:

1. Response is acceptable.
3. Response is acceptable.
5. Response is acceptable.
6. Response is acceptable.
7. Response is acceptable.
14. Response is acceptable.
15. Response is acceptable.
18. I cannot find Section 02223 which is supposed to be the filter material specs to be used in the infiltration ponds.
19. Response is acceptable.
21. Response is acceptable.
22. The rip-rap detail now exists on sheet 22 and is acceptable.
24. Response is acceptable.
28. Response is acceptable.

SG/jw

MEMORANDUM

TO: Jerry Placzek  
FROM: Steve Gerber *JRG*  
SUBJECT: Cody WWTP Plan Review, #86-23R and 86-22R  
DATED: May 15, 1986



Following are my comments to Roger Jacobson's response. As you will note from my comments, I cannot complete the review until I get the revised set of plans and specifications. However, some major items still need to be resolved so I am responding immediately. If you have any questions call.

1. Will verify when receive plans and specifications.
2. If the structure remains, the O & M Manual should require periodic inspection to insure infiltration does not become excessive.
3. Will verify when receive plans.
4. Sewer line on Cooper Lane between manholes 53 to 57 does not have a flat slope. Slopes are from 8% - 16%. The comment is questioning maximum velocities. The response is not adequate.
5. Will verify when receive plans.
6. Will verify when receive plans.
7. Will verify when receive plans.
8. Response is acceptable.
9. The regulations require a detention time of 30 days for aerated lagoons. It appears a good case can be made for a lesser time if the infiltration ponds are used and not bypassed. However, it seems that this variation to the regulations should be authorized under Section 5. This would mean an application for a variance must be made and Bill Garland must sign off on it.
10. The regulations require at least three cells in series. Again I believe a variance should be sought in accordance with Section 5. The engineer feels that the infiltration ponds act as the third cell. This would only be true in the winter months and if all of the cells are used in parallel together or if they are used in series. If a direct discharge does occur I feel 30 days of detention time should precede the discharge.
11. The regulations require a quiescent cell prior to the infiltration beds. If a system without this cell is desired it should require a variance in accordance with Section 5. I am not convinced that a quiescent cell is not

necessary. I have talked to the operators in Jackson, Green River and Laramie. Jackson and Laramie do get an algae growth in their quiescent cell but it does not seem to have a significant impact on the bed operation. Detention time for these quiescent cells are 3 - 3½ days. Green River does have an algae problem which impacts the infiltration pond percolation. However, the quiescent cell detention time is 33 days. The algae problem does not occur during the winter. Laramie feels the quiescent cell improves water quality. Green River has noticed an increase in ss for water leaving the quiescent cell. Jackson has noticed little difference. (A large portion of Jackson's second cell is not aerated thereby allowing settling prior to the quiescent cell.) This would seem to indicate algae may not be a significant problem if detention times are not too great. Based on this information, a quiescent cell would probably tend to improve water quality into the infiltration beds.

Another purpose of the quiescent cell would be to provide flexibility and aid in winter time operation. Laramie and Jackson flood their beds in a short time period and then allow them to infiltrate. Green River discharges continuously similar to Cody's operation. One major difference is that Green River has the capability to flow wastewater into the infiltration beds under the ice cap. Cody does not have that capability. Laramie and Jackson get major ice buildup as a result of flooding on top of the ice but because of the high flow rate the majority of the wastewater gets under the ice and infiltrates. I believe Cody must either make provisions to discharge under the ice cap or have the capability to store the wastewater and flood the beds very quickly. This requirement would require a quiescent cell with storage capabilities. All three operators at these plants feel that the wastewater would just increase the ice cap and would not infiltrate if the discharge is continuous to the top of the ice cap. I do not believe the Cody infiltration beds will work through the winter as it is now designed.

12. I believe standby blower capabilities should be required. As a minimum a complete spare blower should be supplied. If a blower does need replacing it could take weeks. Since the aeration system provides the main treatment the reliability of this system must be great. Further, it appears that a substantial savings would have been made if the six blowers and three blower houses had been combined into three 50% blowers and one blower house.

13. Response is acceptable.
14. Will verify when receive specs.
15. Will verify when receive specs.
16. The cover material is adequate. This was my oversight.
17. The 1/8 inch per day seepage is acceptable.
18. Will verify when receive specs.

19. Will verify when receive specs.
20. This comment is in reference to dewatering specifications during construction.
21. Will verify when receive plans.
22. I find no detail on sheet 22 which pertains to rip-rapping of the infiltration pond dikes.
23. I still do not believe drain lines from the aerated ponds should be allowed. In the event of an emergency and draining of either aerated pond is required, then the contents of one pond could be pumped into the other aerated cell. A quiescent cell would add additional treatment and settling during such an event.

It is agreed that flexibility be built into this system. That is why I recommend a quiescent cell. It appears from the discussion that it is anticipated that the beds will not function in the winter. If discharge other than through the beds is expected, then 30 days detention time must be insured. Further, I question how we can approve I/A funding and at the same time allow the design to by-pass the process which the funding is based on. As I recall, Shoshoni suggested that they no longer use their irrigation system. They were told that if they stopped using the irrigation system they would have to repay the I/A monies. What is the difference between Cody and Shoshoni?

24. Will verify when receive specs.
25. My oversight. The details are there.
26. I do not see any details on sheet 19 that show how erosion of the liner cover material will be prevented in the first aerated cell. The inlet to the second aerated cell is OK since it discharges up.
27. It appears that the by-pass line could be connected into the line prior to structure 1 simply by putting a valve in the line to isolate cell number one. If the by-pass line is left as it is, then a liner erosion control at the end of the pipe must be provided.
28. Will verify when receive plans.
29. I agree making a manufacturer listed in the specs prequalify is redundant. However, it has been my experience that prequalification of all equipment is required by EPA. If you don't think it is necessary, then that is fine with me.
30. Will influent samples be taken? If so will they be taken in a manhole? If samples are to be taken daily, it seems that something other than a manhole lid should be provided for ease of access.

cc: Larry Robinson

Cody #3



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

Department of Environmental Quality  
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 20, 1986

86-23 and

86-23

Roger Jacobson  
Engineering Associates  
P O Box 1900  
Cody, Wyoming 82414

RE: Cody WWTP EPA Grant C560139

Dear Roger:

Please find enclosed copies of the reviews done on the Cody Lagoon and Interceptor Projects which were accomplished by the Department of Fire Prevention and Electrical Safety and Occupational Health and Safety. The Electrical review was done at my request as final approval of the plans rests with the City of Cody because they have home rule in this case.

As previously discussed on the telephone, the district office comments will be sent under separate cover at a later date.

I have two points that require clarification. First concerns the Lagoon Water Supply Diversion Structure on sheet 8 of 17. I could not find where this structure would be removed from service, dismantled, or otherwise plugged after it performs its initial duty. Is there a procedure identified elsewhere that would prevent this facility from being accidently or otherwise abused and resulting possibly in a serious situation.

On sheet 9 of 17 the installation and material costs associated with the 2 - 4" x 65' PVC conduit and 12" x 65' DI pipe are ineligible for grant participation due to the fact that the purpose of those facilities is not to convey or treat the city's sewage.

I will not comment on the lack of Schedule B or the Federal requirements being misnumbered and out of order. These items will be arranged correctly for final submittal for approval.

Sincerely,

Jerry Placzek  
Engineering Evaluator

JP/jt  
Enclosure  
cc: Grant File

MEMORANDUM

TO: Jerry Placzyk  
FROM: Steve Gerber *SPJ*  
SUBJECT: Cody WWTP Review, Permit #86-22 *and 86-23*  
DATED: March 20, 1986

Following are my comments on the "Northeast Cody Sanitary Sewer Collection System Expansion" and the "Cody Wastewater Treatment Improvements Phase I":

Sewer Collection System

1. The plans and specifications must contain the name and seal or signature of the engineer.
2. At station 24+10 on Cooper Lane Trunk Line a headgate is being constructed to allow water to be diverted into Manhole #40. It appears it is to be used to supply water to the lagoons. Explain its exact purpose and operation. They should be sealed off after the lagoons are filled.
3. Few water lines are shown on the plan or profile of the sewer main. Is this because there are none in the area? Location of water lines within 30 feet horizontally shall be shown on the plan. Water lines that intersect shall be shown on the profile. Public and private wells within 30 feet of sewer lines shall be indicated on the plans.
4. What are maximum velocities in the pipe from manhole 57 to manhole 53 on Cooper lane Trunk Line. Are special design considerations required?
5. Note 1 on sheet 7 of Sanitary Sewer Plans identifies sewer line as 15 inch. It appears that it should be 18 inch.
6. On sheets 3, 4, 6 of Sanitary Sewer Plans, fill areas are indicated. The horizontal limits of the fill do not seem to be identified. These are necessary for bidding purposes.
7. Manhole 25 on E Avenue Trunk Line does not appear to have a shaped flow line through it. This could result in solids build up. The elbow for 12 inch PVC may further restrict flow. It also will be difficult to secure a half elbow to a pipe. It appears the 12 inch PVC may become submerged. How will this impact the flow? Please address these points.

Cody Wastewater Treatment Improvements

8. An engineering design report must be submitted as required by Section 6 of Chapter XI. Following are items which should be provided that are not:

- a. Current and projected flows and loads. What is the basis for projected flows and loads.
  - b. Is flood protection necessary? What are 25 and 100 year flood stages?
  - c. Theory of operation for both summer and winter conditions. Include automatic controls and alarm systems.
  - d. Computations of air requirements. Verify minimum 2 mg/l requirement is met.
  - e. Basis for infiltration rates which were used to size ponds.
9. Detention time for the two aerated ponds is 21.17 days. A total detention time of 30 days is required for aerated lagoons.
10. A lagoon system with a total area greater than one acre shall have at least three cells in series. Only two cells have been provided.
11. No quiescent cell is indicated. Explain how solids carry-over will be prevented. Solids carry-over will result in sealing off the infiltration ponds.
12. According to the design criteria 19,500 ACFM of air is required in air pond #1 and 9,500 ACFM is required in air pond #2. The specifications call for the blowers to provide 4,750 ACFM each. This means air pond #1 is 500 ACFM short of the air requirements. Further, there are no provisions for a standby blower. The regulations require that blowers for process aeration shall include sufficient capacity that the maximum day design capacity can be delivered with the largest single unit not in service. With the current blower arrangement this will require an additional blower in each building and the piping manifolded so the standby blower can be utilized if one blower goes down.
13. There is no piping detailed for the blower inlet. This would indicate that the blowers will have no inlet filter or valve. A filter is required to prevent entry of solids into the blower and piping. Also, it would seem logical to install a butterfly valve on the inlet to provide a means for throttling the blowers when less than maximum air is required and to aid in controlling the air flow at the varying temperatures.
14. Specifications should be clarified. The constants in Section 15880, 2.01 are not identified. The temperatures should be identified as water temperatures. Consider specifying a maximum air temperature for which blowers shall be capable of operating.

15. The blower specifications requires the entire volume of Pond #1 to circulate through the diffuser system in three hours. Does this mean the entire volume must circulate through all four headers or that all the water circulates through at least one diffuser in three hours? The former would require a flow rate of 9,233 gpm per section while the latter would require a flow rate of about 2,300 gpm per section. Please clarify.

16. The liner material shall be resistant to sunlight. Specifications must require that ultra violet light will not cause degradation of the liner material.

17. The allowable seepage rate of 1/8 inch per day will not be allowed. Synthetic liners shall be essentially impervious. The numerous penetrations through the liner will greatly increase the chance of leaks. It is recommended that the baffle and pipe supports be redesigned so they will not penetrate the liner.

18. What material is to be used as filter material in the infiltration ponds? No specifications can be found controlling the installation of the material after the liner and pipe have been installed.

19. What specifications control the material and installation of the clay liner under the infiltration ponds?

20. Sheet 14 indicates groundwater to be above the clay liner. Address the need for dewatering specifications.

21. Eight inch perforated drain is indicated on sheet 22. No details of this can be found. Provide construction details including section and elevations. It appears this water is directed through the metering structure. What is the purpose of this? Explain how drain has been sized to insure adequate drainage of groundwater.

22. It does not appear interior dikes on infiltration ponds are required to be rip rapped. Provide data on why wave action will not erode these dikes.

23. No bypass provisions shall be made that will allow inadequately treated sewage to reach the ground or surface waters. The drain lines from aerated ponds 1 and 2 will allow inadequately treated wastewater to be drained directly to the infiltration beds. Further, structures 5-8 will allow the wastewater to be directly discharged. No value can be seen in these structures unless the infiltration ponds are expected not to work.

24. Details of metering structure seem incomplete. Show how flumes and flow monitor are to be installed. Explain what will keep flumes from impacting results of the other.

25. Explain how inlet and outlet manifold piping is to be supported.

26. Explain how erosion of the liner cover material will be prevented at the manifold inlet piping for the two aerated ponds.

27. The bypass line from manhole 2 to aerated pond 2 empties directly into pond 2. Investigate the possibility of tying into the pipe feeding the inlet manifold.

28. On sheet 7 explain what heavy contour lines indicate and what circles and squares at drill holes indicate.

29. Some prequalification statements list a specific manufacturer that does not have to prequalify. This will give that supplier an advantage and should not be allowed.

30. Explain where and how samples are to be taken.

31. Explain how minimum laboratory requirements are being met.

SG/jw



# Occupational Health and Safety

CHEYENNE, WYOMING 82002

JAMES ZANCANELLA, PH.D.,  
CHAIRMAN  
H.B. ANDERSON, M.D.  
RON BAGBY  
L. KEITH HENNING  
FLOYD J. HENRY  
JAMES D. NEIMAN, JR.  
JENNIE PARKER

DONALD D. OWSLEY  
HEALTH AND SAFETY ADMINISTRATOR  
(307) 777-7786

March 10, 1986

86-22  
and  
86-23

Mr. Jerry Placzek  
WQD - DEQ  
Herschler Building  
Cheyenne, WY 82001

Dear Jerry:

I have the following comments concerning the Specifications Manual and Blueprints for the Cody Wastewater Treatment Improvement, Phase I, Grant #C560139-94:

1. Page LXX - There seems to be several pages missing: Section (H) starts on page LXX and Section E is at the top of the next page LXIX. Either the page is misnumbered or several sections were left out in the printing process.
2. Page LXVI, (F) - Add after part 1926, Safety and Health Regulations for Construction, Chapter XVII of Title 29, C.F.R.: Wyoming Occupational Health and Safety Rules for General Industry and Rules for Construction.
3. Safety and Health Program - Paragraph 1, line 4, Safety and Health Regulations for Construction (39 FR22801) as amended to date and Wyoming Occupational Health and Safety Rules for Construction as amended to date.
4. Safety and Health Program - Paragraph 3, add after line 5, Occupational Safety and Health Act of 1970 or the Wyoming Occupational Health and Safety Act and Rules of Practice and Procedure.
5. Section 201, page 2 of 12, paragraph 2, spoil pile or backfill material shall be effectively stored and retained at least 2 feet or more from edge of the excavation - Wyoming Rules for Construction, Chapter XVI, Section 2.i.(1), page 149.
6. Page 01000-9, section 01069, OSHA line 3, after Public Law 91-596, add or Wyoming Occupational Health and Safety Rules for Construction.

Mr. Jerry Placzek  
WQD - DEQ  
Page 2

7. Page 02221, paragraph 4 and 5, line 2, pile in an orderly manner "at least 2 feet" from the banks of the trench.
8. Page 09940-2, part 2.01 - Add caution due to nature of epoxy-polyimides, I recommend that a caution be added that all safety precautions recommended by the manufacturer be explicitly followed.
9. Page 16-B-2, section A-2 - All circuit breakers or disconnecting measures for motors, appliances, each service feeder or branch circuit shall be legibly marked so that it's purpose is evident. WOHS Rules for Construction, Chapter XI, Section 3.e.(1) and National Electrical Code 1971 - Section 110-22.
10. Sheet 33 of 40, section MM, shows 12 inch typical rung spacing, sheet 40 of 40, shows rung spacing 16 inches. 12 inch typical is preferred, WOHS General Rules, Chapter IV, Section 7.
11. Sheet 33 of 40, plan view N, upper right hand corner, indicates 7 inch toe clearance from front of rung to wall, sheet 40 of 40 has no dimension given. The 7 inch clearance is preferred, WOHS General Rules, Chapter IV, Section 7.

The contractor who is making connections between the existing and proposed system should be cautioned about the possibility of methane and or H<sub>2</sub>S gases to which they could be exposed. There has been at least one fatality under conditions similar to those which the contractor's employees may become exposed.

I have no other comments, please contact me if I can be of further assistance.

Sincerely,

  
Joseph J. Borghi  
Manager, Technical  
Assistance & Consultation

JJB/pk



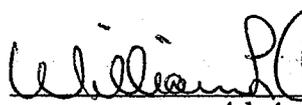
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

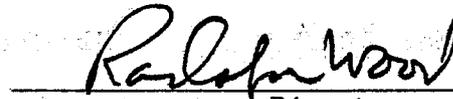
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
February 12, 1986  
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*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 16, 1986

Phillips Petroleum Co.  
P.O. Box 2920  
Casper, WY 82602

To whom it may concern:

Your statewide permit number 86-025, for small wastewater facilities, contains a condition requiring the notification of the appropriate county or state agency prior to the installation or abandonment of facilities authorized by the permit.

A review of state and county records indicates that very few of these facilities are being reported. It is important that these facilities be reported on a regular basis. County governments have agreed to the use of statewide permits on the condition that they be properly notified. If the statewide permitting system is not responsive to the needs of the counties, the state will not be able to issue statewide permits and it will be necessary to obtain permits for such facilities with the individual counties.

In order to address this problem you are requested to do the following:

1. Provide this office a list and location of all facilities constructed under your statewide permit.
2. Indicate the present status of each facility, i.e., operational or abandoned.
3. Indicate whether or not you wish to maintain the statewide permit in an active status.
4. Provide the required notification to both the appropriate county and state agency for all future facilities.

Sincerely yours,

A handwritten signature in cursive script that reads "Lawrence Robinson".

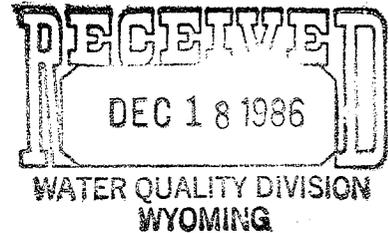
Lawrence Robinson  
Engineering Supervisor

LR/nc



PHILLIPS PETROLEUM COMPANY

P. O. Box 2920  
Casper, WY 82602



December 17, 1986

State of Wyoming  
Department of Environmental Quality  
Water Quality Division  
122 W. 25th Street  
Herschler Building  
Cheyenne, WY 82002

RE: Phillips Petroleum  
Waste water Holding Tanks  
Permit No. 86-25

Dear Mr. Garland:

Pursuant to the referenced permit we are providing notification to your office of construction activities. Enclosed are copies of our correspondence with the Converse County sanitarian in regard to the construction and operation of the subject facility at two locations in Converse County. We are planning to dispose of the waste water in the Douglas Public Works system and have discussed this with Jim Sullivan of that office.

Please direct any questions regarding this permit to Renee Taylor at (307) 237-3791.

Sincerely,

PHILLIPS PETROLEUM COMPANY

D. C. Gill  
Area Manager

RCT/fb  
Attach  
Casper RC



**PHILLIPS PETROLEUM COMPANY**

P. O. Box 2920  
Casper, WY 82602

December 17, 1986

Converse County Health Department  
530 Oak Street  
Douglas, WY 82633

Attn: Debbie Standard

Dear Ms. Standard:

This is to confirm your conversation today with this office that construction has begun and is expected to be complete today on the Phillips Petroleum Nutcracker A#1 waste water holding facility. Per your request we will notify you upon completion of the project. We tentatively plan to use the same system on the South Sand Dunes location following completion of activity on the Nutcracker.

Sincerely,

PHILLIPS PETROLEUM COMPANY

D. C. Gill  
Area Manager

RCT/fb

cc: State of WY WQD  
122 W. 25th St.  
Herschler Bldg.  
Cheyenne, WY 82002  
Casper RC



P.O. Box 2920, Casper, Wyoming 82602

October 13, 1986

Converse County Sanitarian  
County Health Department  
530 Oak  
Douglas, Wyoming 82633

Re: Phillips Petroleum Wastewater  
Holding Tanks  
Permit #86-25

Dear Sirs,

Phillips Petroleum Company has proposed the drilling of two oil and gas wells in Converse County this winter. The proposed well locations are:

Nutcracker A #1

NW NW Sec. 8-T38N-R75W

South Sand Dunes Fed. A #1 NW SE Sec. 17-T36N-R75W

We anticipate using the waste water facility permitted by the State of Wyoming Water Quality Division under permit number 86-25. A copy of the plans for this facility should be on file in your office, if they are not and a copy is needed please contact Renee Taylor of this office at (307) 237-3791. Please respond with any notification requirements your office may have regarding the installation and use of this facility. A copy of our permit is attached.

Sincerely,

Original Signed By:  
D. C. GILL

D. C. Gill  
Area Manager

RCT/1h(40)  
Attach.  
Casper-RC



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

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

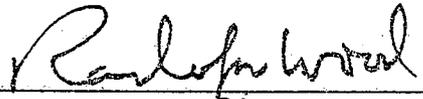
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

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

March 20, 1980  
Date of Issuance

  
Director  
Dept. of Environmental Quality

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

\* CONDITIONS ON PERMIT \*

1. This permit is valid for temporary sanitary wastewater facilities only. Temporary being defined as one (1) year or less. If the proposed facility is to be operated for more than one year, the permittee must obtain written authorization from this department.
2. The permittee shall notify the appropriate county or state agency prior to the installation, removal or abandonment of any facility authorized by this permit. The appropriate agency for each county is indicated in the attached list. Notification shall be by phone with a follow-up written notice. Upon abandoning the site, the facility will be removed, disposed of, or left in place in a condition rendering the site safe for the public. Any waste from the facility shall be disposed of only in areas and in a manner approved by the appropriate agency. The permittee shall notify the appropriate agency in writing as to where the waste will be disposed of and submit a letter of verification from the receiving agency denoting acceptance of the wastewater generated by these facilities. Upon request, the permittee shall allow authorized representatives of the local agency or the State to have access to the authorized facility for the purpose of conducting an inspection to determine compliance with the provisions of this permit.

AGENCIES RESPONSIBLE FOR SMALL WASTEWATER PERMITS

1. Albany County  
Albany County Planning Office  
405 Grand Avenue  
Laramie, WY 82070  
Phone: (307) 721-5188
2. Big Horn County  
Big Horn County Engineer  
P.O. Box 31  
County Courthouse  
Basin, WY 82410  
Phone: (307) 568-2358
3. Campbell County  
Campbell County Engineer  
500 South Gillette Avenue  
Gillette, WY 82716  
Phone: (307) 682-1970
4. Carbon County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
Herschler Bldg. - 4th West  
Cheyenne, WY 82002  
Phone: (307) 777-7781
5. Converse County  
Converse County Sanitarian  
County Health Department  
530 Oak  
Douglas, WY 82633  
Phone: (307) 358-2536
6. Crook County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457
7. Fremont County  
Fremont County Planner  
Room 200, County Courthouse  
Lander, WY 82520  
Phone: (307) 332-5371
8. Goshen County  
Goshen County Sanitarian  
P.O. Box 1132  
County Courthouse  
Torrington, WY 82240  
Phone: (307) 532-5002
9. Hot Springs County  
Hot Springs County Planner  
County Courthouse  
Thermopolis, WY 82443  
Phone: (307) 864-2732
10. Johnson County  
Johnson County Sanitarian  
County Courthouse  
Buffalo, WY 82834  
Phone: (307) 684-7555
11. Laramie County  
Laramie County Environmental Health  
1700 Snyder Avenue  
Cheyenne, WY 82001  
Phone: (307) 638-8545
12. Lincoln County  
Office of Planning and Development  
P.O. Box 414  
Afton, WY 83110  
Phone: (307) 886-3825
13. Natrona County  
Environmental Health Division  
Natrona County Health Department  
1200 East 3rd  
Casper, WY 82601-2990  
Phone: (307) 235-9316
14. Niobrara County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457

15. Park County  
Park County Planning Coordinator  
P.O. Box 160  
Cody, WY 82414  
Phone: (307) 587-2204
16. Platte County  
Platte County Sanitarian  
P.O. Box 55  
Wheatland, WY 82210  
Phone: (307) 322-9571
17. Sheridan County  
Sheridan County Engineer  
P.O. Box 612  
Sheridan, WY 82801  
Phone: (307) 672-3426
18. Sublette County  
Sublette County Planner  
P.O. Box 506  
Pinedale, WY 82941  
Phone: (307) 367-4375
19. Sweetwater County  
Sweetwater County Sanitarian  
205 East Railroad Ave.  
Green River, WY 82935  
Phone: (307) 875-2611 Ext. 278
20. Teton County  
Teton County Sanitarian  
P.O. Box 1727  
Jackson, WY 83001  
Phone: (307) 733-3959
21. Uinta County  
Uinta County Engineer  
225 9th Street  
Evanston, WY 82930  
Phone: (307) 789-1780 ext. 318
22. Washakie County  
Washakie County Planner  
County Courthouse  
Worland, WY 82401  
Phone: (307) 347-2741
23. Weston County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457

PERMIT TO CONSTRUCT

New

Permit No. 86-26R

Renewal

Modified

ELKHORN TRAILER PARK  
(Name of Facility)

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

John and Helen Hanft

3652 Highway 87

Sheridan, Wyoming 82801

to construct, install, or modify water supply and wastewater treatment facilities according to the procedures and conditions of the application No. 86-26R. The facility is located in Section 18, T.55N., R.88W., in the County of Sheridan, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

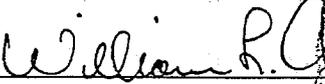
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

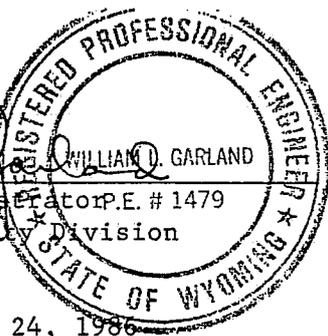
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, Sheridan, Wyoming 82801; telephone, 672-6457.

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

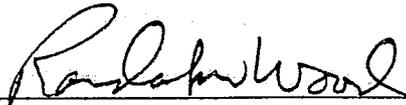
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Adminisrator P.E. # 1479  
Water Quality Division



February 24, 1986  
\_\_\_\_\_  
Date of Issuance

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

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

xc: W. J. Pilch, Engineer  
P.O. Box 6498  
Sheridan, WY 82801



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

February 13, 1986

Sherman B. Allred  
c/o John W. Donnell & Associates, Inc.  
P.O. Box 638  
Worland, WY 82401

RE: Application for Permit to Construct Monitor Wells #86-027

Dear Mr. Allred:

Your letter requesting to withdraw the subject application has been received and, in response to your request, the application is returned to you with this letter.

Sincerely,

A handwritten signature in cursive script that reads "A. J. Mancini".

A. J. Mancini  
Groundwater Control Supervisor

AJM/nc  
Enclosure

JOHN W. DONNELL & ASSOCIATES, INC.

CONSULTING ENGINEERS

CIVIL ENGINEERS  
LAND SURVEYORS

---

1701 BIG HORN AVE.    ❖    P.O. BOX 638    ❖    WORLAND, WYOMING 82401    ❖    307-347-8276  
February 7, 1986

86-027

A.J. Mansini  
Department of Environmental Quality  
Water Quality Division  
Herschler Building  
Cheyenne, WY 82002

Dear Mr. Mansini:

I am writing you in regards to the recently submitted application dated January 20, 1986, for a permit to construct ground water monitoring wells for the Town of Ten Sleep and our subsequent telephone conversations. As we have been advised that these wells are unnecessary. We would request that you return the application without any further action.

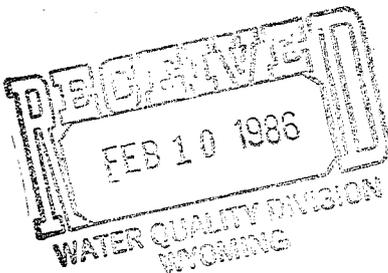
If we may be of any further assistance on this or any other matter, please let us know.

Sincerely,

JOHN W. DONNELL & ASSOCIATES, INC.

*Sherman B. Allred*  
Sherman B. Allred, P.E. & L.S.

SBA:svh



JOHN W. DONNELL & ASSOCIATES, INC.

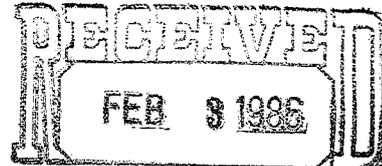
CONSULTING ENGINEERS

CIVIL ENGINEERS  
LAND SURVEYORS

1701 BIG HORN AVE.    ✧    P.O. BOX 638    ✧    WORLAND, WYOMING 82401    ✧    307-347-8276  
January 30, 1986

86-027

A.J. Mansini  
Water Quality Division  
Department of Environmental Quality  
Herschler Building  
Cheyenne, WY 82002



Dear Mr. Mansini:

As Mr. Donnell indicated in his telephone conversation with you on January 20, 1986, we were unaware of the requirement for DEQ approval of the monitoring wells prior to construction. We have enclosed the application for the 3 wells our geotechnical consultant (Northern Testing) feels are needed. Well No. 1 is just inside the north line of the Town's property on the North-South lagoon centerline. Well No. 2 is at the midpoint of the south-east dike. Well No. 3 is just inside the fence approximately 43 feet from the outlet pipe and in line with the center line of the southeast dike extended west.

These wells are all shown on the enclosed revised lagoon details. We have also enclosed a copy of the typical proposed monitoring well as furnished by Northern Testing.

As you are aware from your conversation with Mr. Donnell, we are desirous of proceeding with this work as soon as possible and will be calling you early next week to request verbal permission to proceed.

We appreciate your help and consideration in this matter.

Sincerely,

JOHN W. DONNELL & ASSOCIATES, INC.

*Sherman B. Allred*  
Sherman B. Allred, P.E. & L.S.

SBA:svh

Enclosure

PERMIT TO CONSTRUCT

New

Permit No. 86-28R

Renewal

Modified

Gorge Sand & Gravel Evaporation Pond  
(Name of Facility)

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

Don Winter

P.O. Box 290

Green River, WY 82935

to construct, install, or modify a two cell, non-discharging evaporation pond to

receive wash water from a gravel operation

facility according to the procedures and conditions of the

application No. 86-28R. The facility is located in

Sec. 16, T18N, R107W

in the County of Sweetwater,

in the State of Wyoming. This permit shall be effective for a period of two (2)

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

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

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

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

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

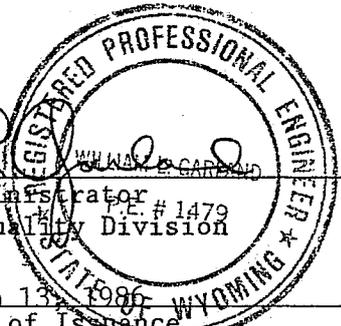
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

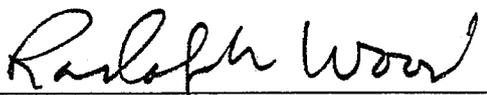
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division  
P.E. # 1479  
March 13, 1986  
Date of Issuance  


  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

*Review*

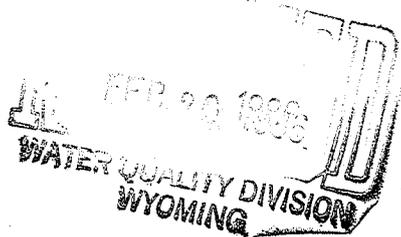
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Gorge Sand & Gravel Evaporation Ponds

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

OWNER: Don Winter  
P.O. Box 290  
Green River, WY 82935



WATER QUALITY DIVISION REFERENCE NUMBER: 86-28

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: February 14, 1986

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above project has been completed. The following items must be addressed before a permit to construct will be issued:

1. In the analysis it states that the facility will be operated from March 1 through October 31 (9 months). However, in the analysis an eight month figure is used to calculate the wash water volume per month. Please clarify.

2. In the analysis an evaporation rate of 55 in/yr is used. The reference material provided does not support this figure. Please provide additional support material for using this figure.

3. Performance and material specifications should be included for the earthwork and transfer structures.

4. Please submit the incremental analysis calculations you have generated for the sizing of this facility.

5. Provide documentation that the interceptor ditches proposed will be capable of passing the 24 hr - 100 year precipitation event. A cross sectional detail of the ditch should be provided.

6. What capabilities are to be provided for dewatering one or both of the ponds for maintenance purposes.

7. Wyoming Water Quality Rules and Regulations (WWQRR), Chapter XI, Part C, Section 30 requires 3 feet of freeboard for ponds two acres and larger. Please address this issue.

Review of Plans & Specs.

Reference Number 86-28

Page Two

8. WWQRR, Chapter XI, Part C, Section 30 requires ponds over one surface acre be protected from erosion with rip-rap. Please address this issue.

9. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw

PERMIT TO CONSTRUCT

New

Permit No. 86-29  
SEE CONDITIONS ATTACHED

Renewal

Modified

Hanna Subsidence Control - AML Project 7A  
(Name of Facility)

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

McMurray Bros. Co.

P. O. Box 3669

Casper, WY 82602

to construct, install, or modify a road dust control facility according to the procedures and conditions of the application No. 86-29. The facility is located in Lots 2 and 3, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

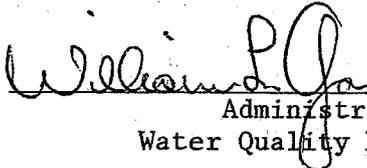
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

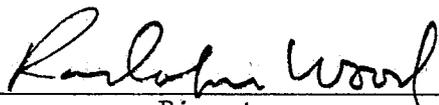
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
Administrator  
Water Quality Division



February 21, 1988  
Date of Issuance

  
Director  
Dept. of Environmental Quality

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

This permit authorizes you to dispose of a maximum of 263,331 gallons of mine pit water on the adjoining one mile of road, a total annual liquid application of four inches based on an average TDS of 3165 mg/l.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 86-~~4E~~<sup>2A</sup>

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

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 86-30  
Reference No. 81-83

CABALLO ROJO MINE FACILITIES POND F-2  
(Name of Facility)

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

Mobil Coal Producing

P.O. Box 3021

Gillette, Wyoming 82716

to construct, install, or modify a runoff and pit water control facility according to the procedures and conditions of the application No. 86-30. The facility is located in Section 2, T.47N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

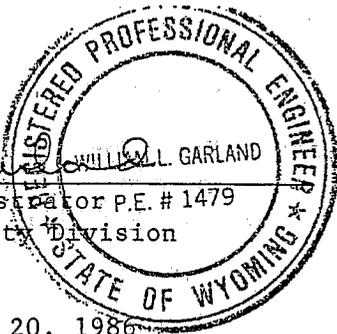
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, Sheridan, Wyoming 82801; telephone, 672-6457.

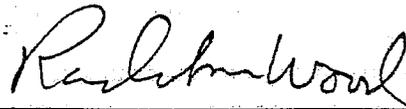
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:

A circular seal for a Registered Professional Engineer in the State of Wyoming. The seal contains the name WILLIAM L. GARLAND and the number P.E. # 1479. The outer ring of the seal reads "REGISTERED PROFESSIONAL ENGINEER" and "STATE OF WYOMING".

*William L. Garland*  
Adminisrator P.E. # 1479  
Water Quality Division

  
Director  
Department of Environmental Quality

February 20, 1986  
Date of Issuance

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*

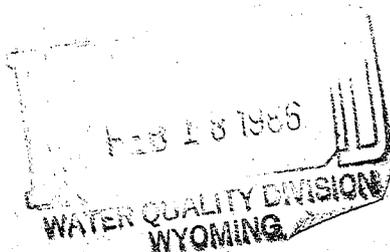
2161 COFFEEN AVENUE,  
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

February 14, 1986

Mr. Ken Schmidt  
Design 3 Sheridan  
524 Sumner  
Sheridan, Wyoming 82801



RE: As-Built Approval, Wyoming Girls' School  
Utility Revisions, Reference No. 86-31R

Dear Ken:

I have received your response to my review regarding the Girls' School water service replacement in Sheridan, Wyoming. Everything seems to be in order and work may proceed as weather permits.

As previously stated, an actual Permit to Construct will not be issued. This letter serves essentially the same purpose. Keep it on file as a record of this Department's approval of the project.

Sincerely,

*Susan Fields*

Susan Fields  
Environmental Engineer

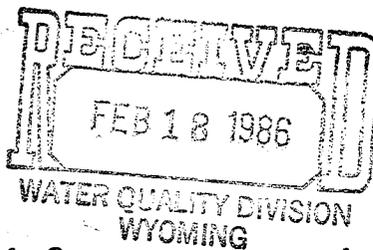
SF:ls

Encl.

xc: Norma Coulson, Cheyenne



THE STATE OF WYOMING



*Norma*

86-31

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

2161 COFFEEN AVENUE,  
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

February 3, 1986

Mr. Ken Schmidt  
Design 3  
524 Sumner  
Sheridan, Wyoming 82801

Dear Ken;

I have reviewed the plans and specifications for the utility work at the Girls' School in Sheridan and have the following comments:

- 1) A companion valve is needed on the fire hydrant lead near the garage.
- 2) A design report is needed. The report should document the basis of design for sizing the water main and meter.
- 3) A check valve or back flow preventor is required, depending on the type of water usage at the facility. Refer to pages 71-73 of the Chapter XII Water Quality Rules and Regulations for specifics on this.
- 4) The plans are being reviewed by the City of Sheridan. Final approval by DEQ is contingent on the City's approval.

A recent inspection of the work showed that this project is substantially complete. Therefore, a Permit to Construct can not be issued. We will provide an As-Built Approval in the form of a letter once all concerns have been addressed and the City approves the project.

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

Sincerely,

*Susan Fields*

Susan Fields  
Environmental Engineer

PERMIT TO CONSTRUCT

New

Permit No. 86-32  
SEE SPECIAL CONDITIONS

Renewal

Modified

Gilbert Central Wash Pond  
(Name of Facility)

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

Gilbert Central Corporation

P. O. Box 93

Cheyenne, WY 82003

to construct, install, or modify a evaporative/containment facility according to the procedures and conditions of the application No. 86-32. The facility is located in Section 10, T13N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

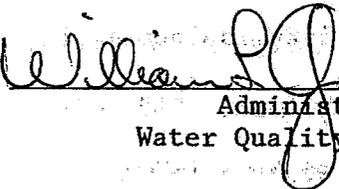
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

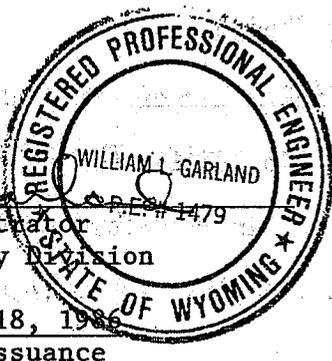
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

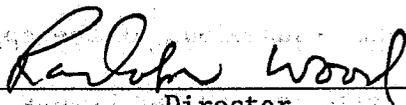
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

  
Administrator  
Water Quality Division  
February 18, 1986  
Date of Issuance



  
Director  
Dept. of Environmental Quality

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

SPECIAL CONDITIONS

1. The facility shall be for the disposal of only those wastes associated with washing concrete trucks.
2. The permittee shall notify the Department of Environmental Quality, Water Quality Division, when pond closure will take place. The permittee will outline the pond closure and reclamation plans.

cc: James D. Voeller  
AVI, PC  
1700 Westland Road  
Cheyenne, WY 82001

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-033R  
SEE CONDITIONS ON BACK

Gilbert Central Aggregate Wash Pond  
(Name of Facility)

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

Gilbert Central Corp.

P.O. Box 93

Cheyenne, WY 82003

to construct, install, or modify a evaporative/containment facility according to the procedures and conditions of the application No. 86-033R. The facility is located in Section 10, T13N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

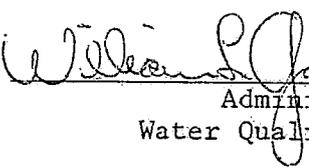
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

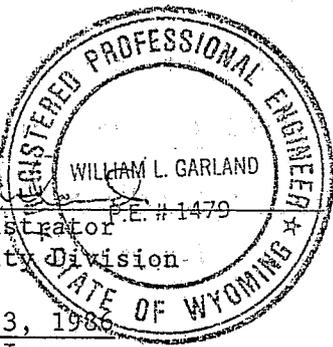
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

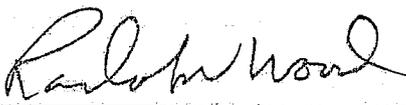
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
Administrator  
Water Quality Division  
March 3, 1986  
Date of Issuance



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

  
Director  
Dept. of Environmental Quality

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

Conditions to Permit to Construct #86-033R

1. The facility shall be for the disposal of only those wastes associated with the washing of aggregates.
2. The permittee shall notify the Department of Environmental Quality, Water Quality Division, when pond closure will take place. The permittee will outline the pond closure and reclamation plans.

cc: James D. Voeller, AVI, P.C., 1700 Westland Road, Cheyenne, WY 82001

Review of Plans and Specifications

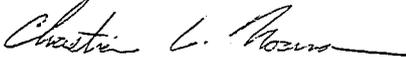
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Gilbert Central Aggregate Wash Pond

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

APPLICANT: Gilbert Central Corp.  
P. O. Box 93, Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: 86-33

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: February 18, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The pond will hold only 35,920 cu ft at maximum depth. The daily requirement of 38,497 is not satisfied.

pjb

M 2-28-86

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 86-34

DATE SUBMITTED FOR REVIEW 2-20-86

NAME AND LOCATION OF FACILITY Table Rock Plant  
Colorado Interstate Gas Co.  
Sec. 23 T 19N R 98W  
Sweetwater County

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

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

SIGNED Kate Laudon

TITLE Engineer Evaluator

DATE 2-24-86

ACCEPTED FOR RECORD 2/24/86  
(Date)

AGM  
Groundwater Control Supervisor



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Bill Locke, Southwest District Engineer Evaluator

FROM: Kate Laudon, Groundwater Engineer Evaluator *Kg L*

DATE: February 24, 1986

SUBJECT: Groundwater Review, Table Rock Plant Ammonium Thiosulfate Holding Pond, DEQ/WQD Ref. No. 86-34

The Colorado Interstate Gas Company has applied for "as built" approval of an ammonium thiosulfate (ATS) holding pond at their Table Rock Plant located in Section 23, T19N, R98W, Sweetwater County. The pond was constructed with a hypalon liner. ATS in the holding pond is blended with higher grade ATS, and is returned to the process.

A subsurface investigation of the site was conducted by Geotek Inc. in 1978. Groundwater was encountered in two borings at depths of approximately 45 feet.

The applicant has agreed that in the event of a leak or rupture of the liner, the pond would be pumped, the underlying soil restored to its proper condition, and the liner repaired. Material safety information provided by the applicant indicates that the product is highly soluble, and that spills may be handled by dilution with water.

In light of the information provided, no additional groundwater information is required at this time. Should a spill occur, a groundwater investigation could be required at that time.

KL/nc

REVIEW OF PLANS AND SPECIFICATIONS

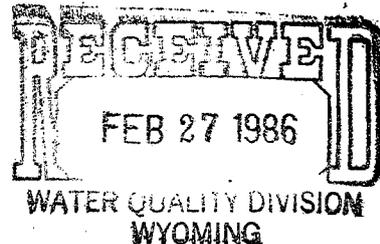
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Table Rock Plant ATS Pond

ENGINEER: Lloyd M. Burns  
Colorado Interstate Gas Co.  
P.O. Box 1087  
Colorado Springs, CO 80944

OWNER: Colorado Interstate Gas Co.  
P.O. Box 1087  
Colorado Springs, CO 80944



WATER QUALITY DIVISION REFERENCE NUMBER: 86-34

REVIEWING ENGINEER: <sup>BL</sup> Bill Locke, P.E.; Kate Laudon

DATE OF REVIEW: February 26, 1986

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above referenced "as-built" plans has been completed. The following items must be addressed before a letter of acceptance will be issued:

1. The Wyoming Water Quality Rules and Regulations (WWQRR), Chapter XI, Part C, Section 30 requires that ponds with liners to protect the groundwater shall consist of a minimum of two cells. The purpose for this is to allow flexibilities in operation in the event of a leak. Address how a leak will be identified and what actions will be taken in the event of a leak. Where will the ATS be pumped off to?
2. Provide additional information on the synthetic liner. (e.g. manufacturer, thickness, compatibility with ATS).
3. Identify the maximum operating water surface and confirm that adequate freeboard is provided to protect the dikes from over topping and erosion.
4. Confirm that extraneous surface water is excluded from entering the pond and that the pond is not located within the high waterway of perennial rivers, streams or creeks.
5. All plans and specifications submitted to this office as part of this package must be signed or stamped by a Wyoming Professional Engineer.
6. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw  
copy: Kate Laudon

C

*Norma*

THE STATE OF WYOMING



ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality  
Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

April 9, 1986

Colorado Interstate Gas Co.  
ATTN: Mr. Richard J. Ludeman  
P.O. Box 1087  
Colorado Springs, CO 80944

RE: Table Rock Plant ATS Pond, WQD #86-34

Dear Mr. Ludeman:

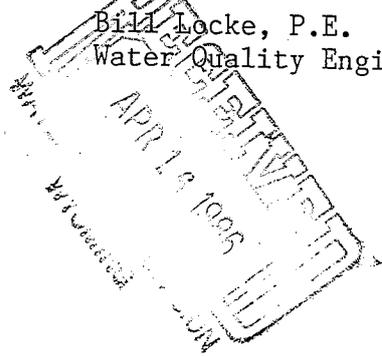
The plans and specifications for the above referenced facility have been reviewed by this office and found to be in compliance with the minimum design standards for the State of Wyoming. Because this facility has already been constructed, a permit to construct can not be issued. Therefore, you should retain a copy of this letter as proof that this facility has been accepted by this department.

Should you have any questions or comments, please contact either Jack Bedessem or myself.

Sincerely,

Bill Locke, P.E.  
Water Quality Engineer

BL/jw





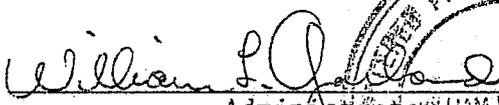
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

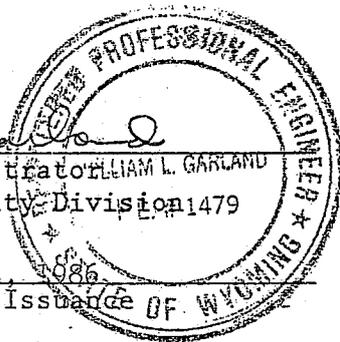
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

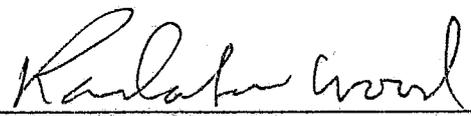
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

  
Administrator WILLIAM L. GARLAND  
Water Quality Division 1479  
March 11, 1986  
Date of Issuance



  
Director  
Dept. of Environmental Quality

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

*Winta*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: East Anschutz Ranch Plant

ENGINEER: Thomas E. Axthelm  
Inberg-Miller Engineers  
124 East Main  
Riverton, WY 82501

OWNER: Amoco Production Co.  
P.O. Box 829  
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 86-35

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: February 19, 1986

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued:

1. The method utilized for sizing of the soil absorption field was averaging a minimum of six percolation tests. The Wyoming Water Quality Rules and Regulations, Chapter XI, Part D, Appendix A, requires that the percolation test holes shall be spaced uniformly over the proposed absorption field site. The site location maps provided show that most of the percolation test holes are located outside of the proposed absorption field sites. Please provide additional information supporting this design.
2. The analysis for site no. 3 determined that the bottom of the bed should be at elevation 51.0 or above. The bed was designed with the bottom at 50.0. This design provides only 2 feet separation from the mounded water table (elevation 48.0) to the bottom of the bed. Please address this issue.
3. All of the new 4" diameter sewer lines are intercepting existing sewer lines. What size are these existing sewer lines?
4. At site no. 4, Process Plant, the influent sewer line should have a manhole just prior to the septic tank or cleanouts at 100 foot intervals.
5. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw

*U*



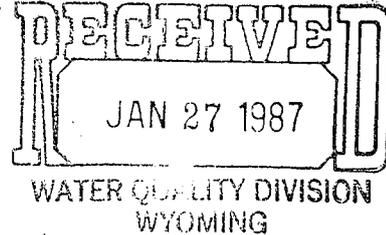
*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 12, 1987



Ross M. Turner  
Selectronics  
P.O. Box 808  
Afton, WY 83110

Dear Mr. Turner:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for this proposed project is:

Facility Name: Danny Harper Wastewater Disposal System  
 DEQ/WQD Reference Number: 86-36  
 Engineering Consultant: Ross M. Turner  
 DEQ/WQD Review Engineer: Bill Locke  
 Date of DEQ/WQD Review: 2-19-86

According to Chapter III of the Water Quality Rules and Regulations, Section 7 b. (2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

Please indicate below the status of this project and return this form to our office.

- The application will not be resubmitted as the proposed project has been cancelled.
- The application will be resubmitted within thirty (30) days.
- The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within thirty (30) days.
- Other Remarks: Construction plans were delayed until fall, 1986, and since only domestic wastewater was involved, the plans were submitted to Lincoln County. Sorry if this caused a problem for you.

*RMT*



THE STATE OF WYOMING

RECEIVED  
JAN 30 1987

*Norma*

Mike Sullivan  
~~ED HERSCHER~~  
GOVERNOR

WATER QUALITY DIVISION  
WYOMING

*Department of Environmental Quality*

*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 12, 1987

RECEIVED  
JAN 27 1987

WATER QUALITY DIVISION  
WYOMING

Ross M. Turner  
Selectronics  
P.O. Box 808  
Afton, WY 83110

Dear Mr. Turner:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for this proposed project is:

Facility Name:	<u>Danny Harper Wastewater Disposal System</u>
DEQ/WQD Reference Number:	<u>86-36</u>
Engineering Consultant:	<u>Ross M. Turner</u>
DEQ/WQD Review Engineer:	<u>Bill Locke</u>
Date of DEQ/WQD Review:	<u>2-19-86</u>

According to Chapter III of the Water Quality Rules and Regulations, Section 7 b. (2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

Please indicate below the status of this project and return this form to our office.

\_\_\_\_\_ The application will not be resubmitted as the proposed project has been cancelled.

\_\_\_\_\_ The application will be resubmitted within thirty (30) days.

\_\_\_\_\_ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within thirty (30) days.

XX Other Remarks: Construction plans were delayed until fall, 1986, and since only domestic wastewater was involved, the plans were submitted to Lincoln County. Sorry if this caused a problem for you.

*RMT*

Lien

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Danny Harper Wastewater Disposal System

ENGINEER: Ross M. Turner  
Selectronics  
P.O. Box 808  
Afton, WY 83110

OWNER: Danny L. Harper  
Dan's Sign Shop  
P.O. Box 881  
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 86-36

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: February 19, 1986

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above referenced project has been completed. The following items must be addressed before a permit to construct will be issued:

1. Wyoming Water Quality Rules and Regulations, Chapter XI, Part D, Section 36 requires a minimum of one percolation test be performed in conjunction with an evaluation of the soil texture by a person experienced in soils classifications. Percolation test results should be included with the application. Also the depth to groundwater and/or an impermeable layer should be defined.

2. On sheet 5 of 6 there is some discrepancy as to the width of the trench. The plan view shows 30" and the cross section shows 18". Please clarify.

3. The cover letter states that the system was designed for 250 square feet of absorption area. From the information provided, it appears that the system is considerably smaller than this. Please provide support information for the 250 square feet.

4. A specification is required for the pipe materials.

5. A minimum of 12 inches of earth cover shall be placed over the absorption system stone.

6. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw

C

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-037

See Conditions Attached

Conoco Truck Stop  
(Name of Facility)

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

Scott Darkenwald

Montana Petroleum Marketing Company

Transwestern 1 Suite 326

Billings, MT 59101

to construct, install, or modify a groundwater monitoring well network facility according to the procedures and conditions of the application No. 86-037. The facility is located in Section 26, T51N, R79W in the County of Johnson, 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.

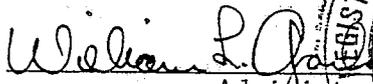
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

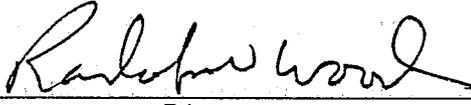
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Section,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

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

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

AUTHORIZED BY:

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

  
Director  
Dept. of Environmental Quality

February 24, 1986  
Date of Issuance

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

Conditions to Permit to Construct No. 86-037

1. The groundwater monitoring wells shall be installed in accordance with the plans and specifications submitted in permit to construct application number 86-037. The applicant is authorized to construct and install additional groundwater monitoring wells associated with site investigations at the Conoco Truck Stop. As-built plans/specifications along with a site map showing the location of any additional wells shall be provided to the groundwater section of the Water Quality Division within 30 days of the installation date.
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However, a sufficient seal should be installed according to normal engineering practice.
3. Analytical results from later sampling events should be submitted to the Water Quality Division within 30 days following their receipt from the laboratory.
4. Depending on the interpretation of the monitoring data by the Water Quality Division, the applicant may be required to extend the site investigation. Additionally, the list of monitoring parameters may be modified to reflect sampling results.

5. After DEQ approval, monitor wells are to be abandoned according to DEQ/WQD Rules and Regulations Chapter XI, Section 70.
6. Disposal of soils and drill cuttings contaminated with petroleum products in local landfills requires prior approval by DEQ-Solid Waste Division and the local landfill operator. The DEQ/SWD contact in Cheyenne for the Buffalo area is Tim Link and the local landfill operator is the Town of Buffalo (Bob Borgialli). If the total amount of the contaminated soil is less than 100 kg, such material may be thin spread on site in areas not subject to transport by surface runoff.
7. Discharge of well development and sampling waters that are contaminated with hydrocarbons to storm or sanitary sewers requires prior approval from the DEQ/WQD Technical Analysis Supervisor (307-777-7781) and the sewage treatment plant operator respectively. Discharge of well development waters contaminated only with dissolved hydrocarbons may be discharged to the ground surface on site.

3-20

PERMIT TO CONSTRUCT

Permit No. 86-038R

- New
- Renewal
- Modified

Improvements to Water Distribution System  
 (Name of Facility)

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

Wyoming State Fairgrounds

P.O. Box 10

Douglas, WY 82633

to construct, install, or modify a public water distribution facility according to the procedures and conditions of the application No. 86-038R. The facility is located in Section 8, T32N, 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.

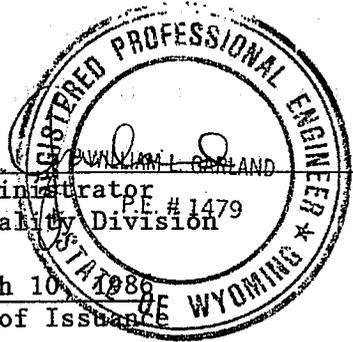
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

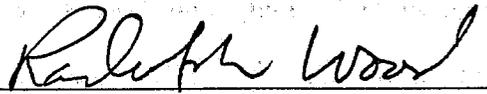
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
William L. [unclear]  
Administrator  
Water Quality Division  
P.E. # 1479  
March 10, 1986  
Date of Issuance

  
Director  
Dept. of Environmental Quality

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

cc: Colin Cunningham  
Civil Engineering Professionals, Inc.  
400 E. 1st, Suite 311  
Casper, WY 82601

Review of Plans and Specifications

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

PROJECT: Improvements to Water Distribution System, Wyoming State Fairgrounds

ARCHITECT OR ENGINEER: Colin Cunningham, Civil Engineering Professionals, Inc.  
400 East 1st Street, Suite 311, Casper, WY 82601

APPLICANT: Wyoming State Fairground, P.O. Box 10  
Douglas, WY 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 86-038

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: February 18, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Three (3) copies of the plans and specifications shall be submitted with the application. Only two were submitted.
2. The application should be signed by the applicant, unless the engineer is a legally appointed representative.
3. There are five locations where water main-sewer main separation distances may not be met. Where vertical separation distances cannot be maintained at 1.5 feet, the special construction required should be noted on the plan/profile sheets. The location of possible conflicts are as follows:  
  
STA A 5+20  
STA B 2+50  
STA B 3+30  
STA B 5+57  
STA D 5+50
4. Section 301.08 of the construction specifications does not meet the minimum standards in Chapter XII, Section 14 g(i) of the Wyoming Water Quality Rules and Regulations. Section 301.08 should be amended to include that when vertical and/or horizontal separation distances cannot be maintained, the sewer or water line should be placed in a separate conduit. It is recommended that the sewer line be cased where the sewer line is on top. This will provide the special support required to span the open trench.
5. Valve separation shall be a maximum of 800 feet. This is not met between STA B 4+45 and STA B 14+83.
6. STA D 11+75 shows a globe valve in the plan view, but not in the profile view.
7. Sheet 4/6, it is unclear what sections of the six inch (6") DIP water main will be abandoned and which sections will be kept in service.

*Norma*



THE STATE OF WYOMING

RECEIVED  
SEP 19 1986

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

September 16, 1986

Hugh E. Williams  
Buckley Powder  
1410 Thorpe Street  
Rock Springs, WY 82901

RE: Wastewater Disposal System, WQD Permit No. 86-39R

Dear Mr. Williams:

I have completed my review of the plans and specifications for the above referenced system and found them to be in compliance with the minimum design standards for the State of Wyoming.

Because this system has already been constructed, a permit to construct cannot be issued. Therefore, please retain a copy of this letter as proof that the referenced system has been authorized by this department.

Sincerely,

Bill Locke, P.E.  
Water Quality Engineer

BL/jw



# Department of Environmental Quality

## Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 13, 1986

86-039

Mr. Hugh E. Williams  
Buckley Powder Co.  
1410 Thorpe Street  
Rock Springs, WY 82901

RE: Wastewater Disposal System

Dear Mr. Williams:

I've received the additional information I requested dated February 7, 1986. There are still two items which must be resolved before this system can be accepted. The isolation distances from your septic tank/leachfield to wells, property lines, potable water lines and surface waters must be identified. Also, the percolation rate of the soil must be determined.

A soils evaluation can be accomplished in several manners. You can wait until the spring and run no less than three (3) percolation tests or you can have the soil texture evaluated by a person experienced in soils classifications (e.g., geotechnical engineer) and run one percolation test. This too can only be accomplished after the thaw. You may also check with the local engineering consultants to see if any percolation tests have been performed on adjacent properties. If there has been, this will give us a fair idea of the adequacy of your system.

Should you have any questions or comments, please call me.

Sincerely,

A handwritten signature in cursive script that reads "Bill Locke".

Bill Locke, P.E.  
Water Quality Engineer

BL/jw

PERMIT TO CONSTRUCT

New

Permit No. 86-040  
SEE SPECIAL CONDITIONS

Renewal

Modified

Chevron Carter Creek Gas Plant  
(Name of Facility)

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

Chevron USA

P. O. Box 599

Denver, CO 80201

Attn: Oscar Oliveira

to construct, install, or modify a soil boring network according to the procedures and conditions of the application No. 86-040. The facility is located in Section 6, T18N, R119W in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

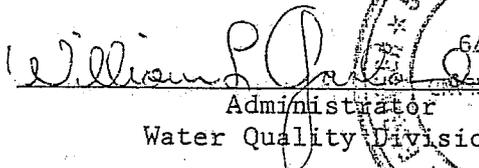
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

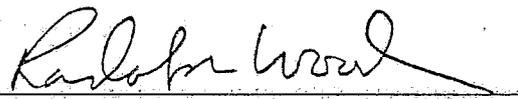
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
Administrator  
Water Quality Division



February 26, 1986  
Date of Issuance

  
Director  
Dept. of Environmental Quality

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

SPECIAL CONDITIONS TO PERMIT TO CONSTRUCT #86-40

1. If any of the boreholes are converted into groundwater monitoring wells, as-built construction details for each monitoring well must be submitted to the Water Quality Division within 30 days following installation. All monitoring wells must be constructed in accordance with Water Quality Division Rules and Regulations, Chapter XI, Part G.
2. A report on the subsurface borehole investigation shall be submitted to the Water Quality Division within 90 days following the issuance of this permit.

cc: Charles D. Senz  
Geraghty & Miller, Inc.  
1391 N. Speer Blvd., SU 550  
Denver, CO 80204

PERMIT TO CONSTRUCT

New

Permit No. 86-41  
SEE CONDITIONS ATTACHED

Renewal

Modified

Hanna Subsidence Control - AML Project 7A  
(Name of Facility)

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

Eby Mine Services, Inc.

P. O. Box 470

Brighton, CO 80601

to construct, install, or modify a material stockpile dust control facility according to the procedures and conditions of the application No. 86-41. The facility is located in SE 1/16, Section 13, T22N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

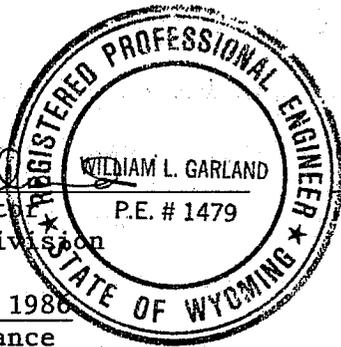
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:

  
*William L. Garland*  
Administrator  
Water Quality Division  
February 21, 1986  
Date of Issuance

*Ralph Wood*  
Director  
Dept. of Environmental Quality

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

This permit authorizes you to dispose of 215,075 gallons of mine pit water on the two acre stockpile, a total liquid application of four inches based on an average TDS of 3165 mg/l.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 86-41

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

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 86-43  
\*See Condition

Newcastle Congregation of Jehovah's Witnesses Small Wastewater Facility  
(Name of Facility)

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

Kingdom Hall of Jehovah's Witnesses

P.O. Box 535

Newcastle, Wyoming 82701

to construct, install, or modify a septic tank and leach field facility according to the procedures and conditions of the application No. 86-43. The facility is located in Section 28, T.45N., R.61W., in the County of Weston, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

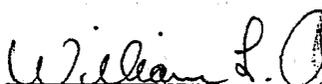
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

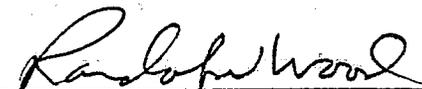
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, 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:

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

  
Director  
Department of Environmental Quality

February 20, 1986  
Date of Issuance

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

CONDITION

The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Newcastle 201 Facilities 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 Facility Plan.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-44

HALF-A-DAY #1 MINE  
(Name of Facility)

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

Hamilton Mining

99 Red Fox Drive

Sheridan, Wyoming 82801

to construct, install, or modify a mine processing facility according to the procedures and conditions of the application No. 86-44. The facility is located in Section 1, T.54N., R.88W., in the County of Sheridan, in the State of Wyoming.

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

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

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

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

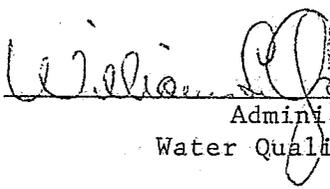
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

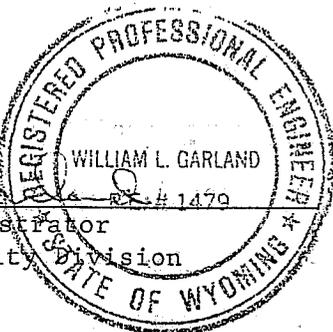
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, Sheridan, Wyoming 82801; telephone, 672-6457.

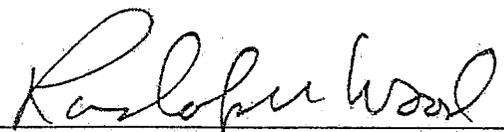
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

  
Administrator  
Water Quality Division



  
Director  
Department of Environmental Quality

March 4, 1986  
Date of Issuance

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

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Half-A-Day #1 Mine  
Wastewater Treatment Facility

APPLICANT: Mr. Robert R. Hamilton  
Hamilton Mining  
99 Red Fox Drive  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION  
REFERENCE NUMBER: 86-44

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: March 3, 1986

ACTION: Not Authorized

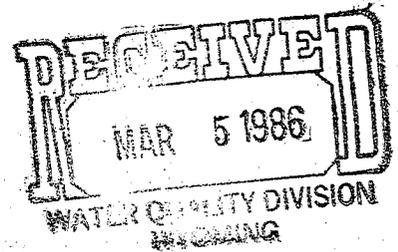
COMMENTS:

The following concerns must be addressed before a permit can be issued.

- 1.) Are any chemicals or other additives used in the processing plant?
- 2.) What distance is the processing area to the nearest surface water?
- 3.) Normally, a discharge permit is needed for a discharge of any kind that reaches a defined drainage. This requirement can be waived if, in fact, the berm will prevent any runoff and process water from reaching a drainage. Towards that end, it should be shown that no water can travel around the ends of the berm. In other words, the berm should be curved or horse shoe shaped or should have a pit uphill from it to ensure that no water can bypass the berm.

Any construction permit issued will contain the condition that absolutely no process water travel beyond the permit area.

- 4.) You may recall we discussed the requirement of having a professional engineer registered in Wyoming sign the plans and place their name on the application sheet. Do you have an engineer available to do this?

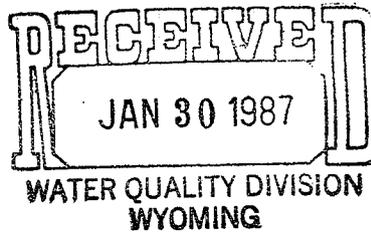


*add info by phone*



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR



## Department of Environmental Quality

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781

January 28, 1987

Utah Power & Light  
ATTN: J.R. Kunz  
P.O. Box 899  
Salt Lake City, UT 84110

RE: Utah Power & Light FGD Pond No. 2, DEQ Ref. No. 86-45

Dear Mr. Kunz:

Your application is considered inactive and is being returned since you have indicated that you do 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 you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules and Regulations, must be followed.

Sincerely,

William L. Garland  
Administrator  
Water Quality Division

WLG/BL/jw  
cc: Norma Coulson, DEQ/WQD, Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Utah Power & Light FGD Pond No. 2

ENGINEER: Utah Power & Light  
J.R. Kunz  
P.O. Box 899  
Salt Lake City, UT 84110

OWNER: Utah Power & Light  
P.O. Box 899  
Salt Lake City, UT 84110

WATER QUALITY DIVISION REFERENCE NUMBER: 86-45 (Ref. No. 84-545RRRRR)

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: March 13, 1986

ACTION: Not authorized.

COMMENTS:

We have made a preliminary review of your proposal to amend Permit to Construct No. 84-545RRRRR to utilize compacted pond ash in the fill section. This proposal generates the following concerns:

1. An application for permit to construct (modify) should be included with this package.

2. A letter from your geotechnical engineer recommending the use of this material in the proposed embankment should be included. This letter should address all the pros and cons of utilizing this material for this application. Seismic concerns, expandability, stability of the embankment, settlement and special construction techniques should be included. This letter should be signed by a Wyoming Professional Engineer.

3. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw

# Department of Environmental Quality

## Water Quality Division

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

### CONSTRUCTION INSPECTION REPORT

Date August 12, 1986

Wyoming Permit Number: 86-46R

Name of Facility: Greybull Water Supply System Improvements (River Crossing)

Location of Facility: East of Greybull  
Section 9, T52N, R93W

Facility Description:        New Construction   X   Modification

Design Engineer: Big Horn Engineering  
Worland, WY

Contractor: Unknown

Construction in Compliance with Issued Permit to Construct:

Yes   X   No       

Infraction(s) that need(s) to be Corrected and/or Comments:

No noticable problems or infractions.

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Accompanied by:  
Vern Nelson, Big Horn Engineering  
Larry Robinson, Cheyenne WQD

Steve P. [Signature]  
Signature of Inspecting Engineer

cc. Plans - Lander  
Plans - Archive

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-46R

Water Supply System Improvements (River Crossing)  
(Name of Facility)

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

Town of Greybull  
P.O. Box 271  
Greybull, WY 82426

to construct, install, or modify a 14" PVC supply main across the Big Horn River,  
together with a 2 valve vaults and a meter manhole

facility according to the procedures and conditions of the  
application No. 86-46R. The facility is located in

Sec. 9, T52N, R93W  
in the County of Big Horn,

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

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

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

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

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

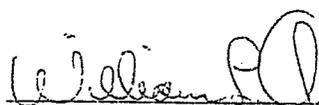
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

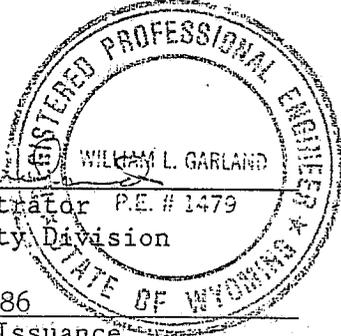
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

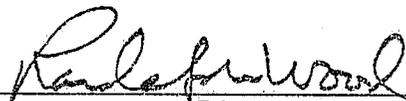
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator P.E. #1479  
Water Quality Division  
March 5, 1986  
\_\_\_\_\_  
Date of Issuance



  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

*Nelson*

MEMORANDUM

TO: Plans : Greybull Water System Improvements, 86-46  
FROM: Jeff Hermansky *Jeff*  
SUBJECT: Phone Review  
DATED: March 5, 1986

On February 28, 1986 I conducted a phone review of the Greybull Water System Improvements (river crossing) with the project engineer, LaVerne Nelson.

I made the following comments to LaVerne:

1. On January 23, 1986, the U.S. Environmental Protection Agency proposed a ban on most products containing asbestos. Included in this ban was asbestos cement pipe. Therefore, asbestos cement pipe can't be used for any more water line projects and must be deleted from the plans and specifications.

2. I asked LaVerne if a blow off or fire hydrant were near the west end of the river crossing where 2.5 ft/sec flushing velocity could be obtained. Vern said a fire hydrant was available for flushing.

JH/jw



MIKE SULLIVAN  
GOVERNOR



## Department of Environmental Quality

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

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781

January 16, 1990

William A. Verkest, P.E.  
HWS Technologies, Inc.  
9101 East Kenyon Avenue, Suite 1600  
Denver, CO 80237

RE: Gillette Mountain Bell field monitoring wells, DEQ/WQD permit 86-047

Dear Mr. Verkest:

Pursuant to your letter dated January 11, 1990 regarding the Mountain Bell Garage at 3401 South Douglas Highway, Gillette, Wyoming. The department authorizes HWS Technologies to abandon the 5 referenced monitor wells. A letter should be sent to the department to document abandonment in order to close the file.

If you have any questions, feel free to call me at 307-777-7084.

Sincerely,

  
Matthew M. Langenfeld  
Groundwater Engineering Evaluator  
UST Program Coordinator  
Water Quality Division

MML/nc

cc: Bill Johnston, DEQ/WQD, Sheridan  
Tim Cooper, HWS Technologies

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-047  
SEE CONDITIONS ON BACK

Mountain Bell  
(Name of Facility)

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

Lance Peterson, Staff Manager

Mountain Bell

1999 Broadway, Room 1540

Denver, CO 80202

to construct, install, or modify a network of four monitoring wells facility accord-  
ing to the procedures and conditions of the application No. 86-047. The facility is  
located in Section 34, T50N, R72W in the County of Campbell, in the State of Wyoming.

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

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

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

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 Per-  
mittee understands that it is solely responsible to any third parties for any liabil-  
ity 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 immu-  
nity.

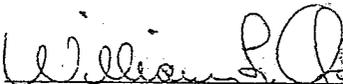
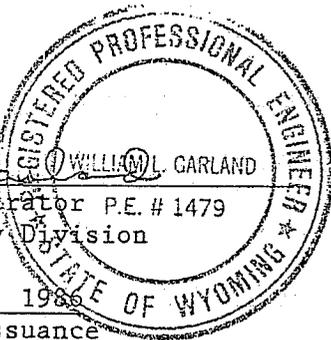
The permittee shall allow authorized representatives from the Department of Environ-  
mental Quality, Water Quality Division, upon the presentation of credentials and dur-  
ing working hours, to have access to inspect the facilities, at the above location,  
for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
March 26, 1986  
Date of Issuance  


  
Director  
Dept. of Environmental Quality

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

Conditions to Permit to Construct 86-047

1. Additional wells may be installed if prior approval is received from the Water Quality Division.
2. Once the wells have been completed, the owner will provide the Wyoming Department of Environmental Quality, Water Quality Division with a report that details the logs, locations, and construction specifications, of the completed wells.
3. The results of any analyses conducted on soil or water removed from these wells shall be provided to the department.
4. All wells will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations.
5. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 26, 1986

Lance Peterson  
Staff Manager  
Mountain Bell  
1999 Broadway, Room 1540  
Denver, CO 80202

RE: Gillette Mountain Bell field monitoring wells, DEQ/WQD permit 86-047

Dear Mr. Peterson:

Enclosed is a signed copy of the permit to construct four monitor wells at the Gillette Mountain Bell site. Someone from the Water Quality Division may be on site to witness the well installation.

Once the wells have been constructed, and water samples have been analyzed, a report of your findings should be submitted to the Water Quality Division. This report should include logs and final construction details of the wells, as well as sufficient information to verify the extent of any groundwater or soil contamination that may exist at the Gillette Mountain Bell site.

Thank you for your attention to this matter.

Sincerely,

Matthew M. Langenfeld  
Groundwater Compliance Specialist

MML/pjb  
Enclosures

cc: Paul Rechard, Western Water Consultants  
Rich Ruyle, WQD, Sheridan



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

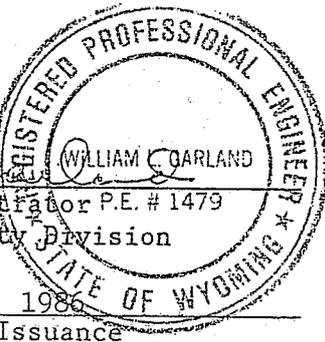
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

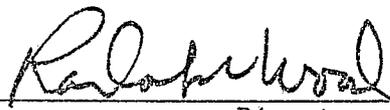
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Adminisrator P.E. # 1479  
Water Quality Division  
\_\_\_\_\_  
march 26, 1986  
Date of Issuance



REGISTERED PROFESSIONAL ENGINEER  
WILLIAM GARLAND  
STATE OF WYOMING

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Granger Water Line

ENGINEER: Dinesh Sheth  
Indo American Engineering  
P.O. Box 1813  
Rock Springs, WY 82902

OWNER: Wyoming Highway Department  
P.O. Box 1260  
Rock Springs, WY 82902

WATER QUALITY DIVISION REFERENCE NUMBER: 86-48

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: February 27, 1986

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued:

1. An engineering design report should accompany the plans and specifications as required by the Wyoming Water Quality Rules and Regulations, Chapter XII, Section 6. This report should address the scope and purpose of the project as well as the following items:

- service area of the project
- current and projected demands
- fire protection
- description of the operation of the booster pump station and solenoid valve/meter vault
- hydraulic calculations that support the sizing of the pipe, pumps, as well as the pump cycle time

2. There appears to be a high spot where air may become entrapped in the waterline at approximate station 20+00. Consideration should be given to the installation of an air/vac valve at this location.

3. Clarification is needed that the specified water pipe is AWWA C-900, Class 100. The type of joint also needs to be specified.

4. The engineering report should include an analysis that the system is capable of maintaining 20 psi at ground level at all points along the main under all flow conditions.

Review of Plans & Specs.

Ref. No. 86-48

Page Two

5. The plans call for the inclusion of sump pumps in the booster station and the solenoid valve station. Where are the discharges from these pumps routed to? Also, this indicates that both vaults are to be installed in the groundwater. Please provide buoyancy calculations for both vaults.

6. Confirm that the booster pumps won't produce a pressure of 5 psi or less on the suction line.

7. A discussion of the capabilities of the heating, ventilation and dehumidification systems for the two vaults should be included in the engineering report.

8. Drainage should be directed away from the vaults and access to both vaults should be locked.

9. Material and construction specifications should be included with this application.

10. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw





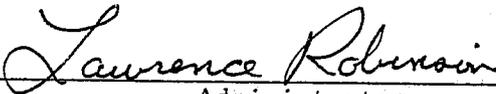
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
for Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

April 14, 1986  
\_\_\_\_\_  
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

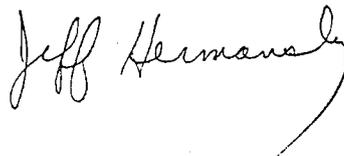
PROJECT: Water Distribution System and Storage Tank

ENGINEER: Civil Engineering Professionals, Inc.  
Barry Venn, P.E.  
401 E. 1st, Suite 311  
Casper, WY 82601

OWNER: South End Water Users Service & Improvement District  
1097 Road 9  
Lovell, WY 82431

WATER QUALITY DIVISION REFERENCE NUMBER: 86-49

REVIEWING ENGINEER: Jeff Hermansky



DATE OF REVIEW: March 26, 1986

ACTION: Not authorized.

COMMENTS:

This office has completed a review of the plans and specifications for the South End Water Users Water Distribution System and Storage Tank. The plans and specifications as submitted appear to meet the minimum standards, however, they must be signed or stamped by a professional engineer prior to authorization. After you have incorporated any changes required by the FmHA, please resubmit the plans and specifications.

There are a number of items that I would like to suggest that you modify.

1. Why don't you plan on making the temporary blowoffs permanent? Wouldn't they be useful for future operation and maintenance of the system?
2. The specifications clearly state compaction requirements for backfill yet there is no testing frequency noted. I feel the specifications should clearly state the testing frequency, especially in the critical area under the water storage tank.
3. I agree with the FmHA request to make all air relief valves combination air/vacuum valves.
4. The FmHA has requested that you reduce the linear footage of insulated pipe crossings and extra depth of bury in some location. This should only be done if you can insure the protection of the pipe under all conditions. I am concerned that with so few service connections, water may be almost static for many hours during the late summer.
5. I agree with the FmHA suggestion to thoroughly mix the sand with the oil prior to placing for cushion under the storage tank. The specification should include gallons per square yard.

6. I strongly suggest that in addition to inspection of the storage tank construction, the construction of the tank foundation and fill placement receive full time inspection. The integrity of the entire tank installation is dependent upon proper soils placement and compaction.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet.

Feel free to contact me if you have any questions.

JH/jw

copy: Michael Ormsby, FmHA State Director

tu  
R7



THE STATE OF WYOMING



MIKE SULLIVAN  
GOVERNOR

# Department of Environmental Quality

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

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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March 10, 1988

Mayor Harkin  
Town of Rolling Hills  
Coal County Rt. Box U-12  
Glenrock, WY 82637

RE: Permit to Construct Application Number 86-050RRRRRRRR

Dear Major Harkin:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (#86-050) for a permit to construct a municipal water well #4 for the Town of Rolling Hills at S15, T34N, R75W, Converse County. The Water Quality Division has determined that the system meets the minimum design standards except as follows:

1. A smooth-nosed sampling tap and chlorination facility have not been installed as required in Chapter XII, Water Quality Rules and Regulations. The town committed to installing these facilities by August 1987. The town did not uphold their commitment. Permit to construct 87-410 was issued on January 8, 1988 to authorize construction of these facilities. These facilities were required to be constructed prior to operation of the water well. Therefore this portion of the system continues to be in non-compliance. As soon as these facilities are constructed and an operation and maintenance manual is authorized, this portion of the facility will also be in compliance.
2. The water well does not have adequate capacity to meet the long term needs of the town. The long term capacity of the well is unknown as the well was still decreasing in capacity after a 24 hour well test. The well was not tested at 1.5 times the design capacity. The engineer's calculations of January 28, 1988 did not include any fire flow requirements. Existing wells #1 and #2 continue to decrease in capacity as stated by the engineer on January 28, 1988. The engineering design information does not adequately address the long term needs of the town's water requirements.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter indicates only that standards of design and construction required by the Environmental Quality Act

Mayor Rankin  
March 10, 1988  
Page 2

have been met except as noted. The state assumes no liability for and does not in any way guarantee the performance of the activities allowed under this letter. The permittee is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this letter, the state does not in any way waive its sovereign immunity.

Since your system has already been constructed, a permit to construct cannot be issued. This letter is your record that the municipal water well #4 as installed meets minimum state specifications except as noted and has been approved by the Wyoming Department of Environmental Quality, Water Quality Division.

The Notice of Violation and Order, Docket No. 1883-87, is still pending against the Town of Rolling Hills. We have no choice but to continue to pursue this violation until all the requirements of permit to construct #87-410 (chlorination facility) are met.

Sincerely,



William L. Garland  
Administrator  
Water Quality Division

WLG/TSN/nc

Enclosures: Plans and O&M Manual

cc: Robert Hartley, RCH & Associated, P O Box 1659, Glenrock, WY 82637

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Rolling Hills O & M Manual for Water System

ARCHITECT OR ENGINEER: Robert Hartley

APPLICANT: Town of Rolling Hills

WATER QUALITY DIVISION REFERENCE NUMBER: 86-050

REVIEWING ENGINEER: Thomas S. Norman, Southeast District Supervisor *TBN*

DATE OF REVIEW: October 26, 1987

ACTION: O & M MANUAL - NOT AUTHORIZED.

COMMENTS:

1. The O & M manual does not have adequate detail to meet the requirements of Section 16, Water Quality Rules and Regulations, Chapter XII.
2. Section 16, (h), Chapter XII states that the information included in the manufacturer's manuals shall not be included in the O & M manual. The manufacturer's manuals are too difficult for the operator to use for O & M purposes. Important information may be taken from the manufacturer but the information should then be organized in a useable format for the operator.
3. Description of facilities. The description of facilities and unit processes shall include the size, capacity, model number (where applicable) and intended loading rate.
  - a. Each unit. The manual shall describe each unit, including the function, the controls, the lubrication and maintenance schedule. The manual shall also include startup operations; routine operations; abnormal operations; emergency or power outage operations; bypass procedures; and safety. The manufacturer's manuals identified many maintenance items that were not identified in the O & M manual. Daily, weekly, monthly and yearly checklist sheets should be prepared for the operators.
  - b. Flow diagrams. The manual shall provide flow diagrams of the entire process, as well as individual unit processes. The flow diagrams shall show the flow options under the various operational conditions listed above.
4. Operating parameters. The O & M manual shall provide the design criteria for each unit process. The data shall include the number, type, capacity, sizes, etc., and other information, as applicable.

5. Troubleshooting guide. Each equipment maintenance manual shall include a section on troubleshooting. These manuals are to be indexed in the plant O & M manual. The troubleshooting guide shall include typical operation problems and solutions. The guide shall include a telephone number for factory troubleshooting assistance.
6. Emergency procedures. The plant O & M manual shall detail emergency operations procedures for possible foreseeable emergencies, including power outage, equipment failure, development of unsafe conditions, and other emergency conditions. The details shall include valve positions, flow control settings, and other information to ensure continued operation of the facility at maximum possible efficiency.

The manual shall also detail emergency notification procedures to be followed to protect health and safety under various emergency conditions. Telephone numbers should be included.

7. Safety. The manual shall provide general information on safety in and around the plant and its components. Each unit process discussion shall include applicable safety procedures and precautions. For unit processes or operations having extreme hazards (such as chlorine, closed tanks, etc.), the discussion shall detail appropriate protection, rescue procedures, and necessary safety equipment.
8. Warranties, bonds, and service contracts should be included.
9. Permit requirements were not identified.
  - a. Permit to construct, install, or modify as required by Water Quality Rules and Regulations Chapter III.
  - b. Operator requirements and CEU requirements as required by Water Quality Rules and Regulations, Chapter V. The back-up operator only need be a level 1. The town does not satisfy the chief operator and backup requirement. A compliance schedule should be included.
  - c. EPA monitoring requirements for municipal wells is dictated by the Safe Drinking Water Act.

/jn

12-2-86



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 1, 1986

Mayor Steven Harkin  
Town of Rolling Hills  
Coal Co. Rte, Box U-12  
Glenrock, WY 82637

RE: Rolling Hills Water Well, WQD Ref. No. 86-050

Dear Mayor Harkin:

Based on your letter of November 13, 1986, the Water Quality Division hereby grants the interim use of the Rolling Hills water well provided the conditions in my letter of October 20, 1986 are met. Failure to meet the stated deadlines will result in termination of the use of the well along with appropriate enforcement action.

Sincerely,

Thomas S. Norman  
Southeast District Supervisor

TSN/nc

*Rum*



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 20, 1986

Carl Bergman, Mayor  
Town of Rolling Hills  
Coal Co. Rte Box U-12  
Glenrock, WY 82637

RE: Rolling Hills Water Well, WQD Ref. No. 86-050

Dear Mayor Bergman:

Robert Hartley has requested that the Water Quality Division grant interim approval for the town of Rolling Hills to use their new water well. This request is based on the fact that the existing storage tank is in need of repair and that it needs to be taken out of service as soon as possible. The old wells must also be shut down at that time because of the piping arrangement.

As you are aware, the current well is not in compliance with Chapter XII of the Water Quality Rules and Regulations. The following areas are still in question:

1. The well was constructed without a permit and is therefore in violation of Chapter III, Water Quality Rules and Regulations. As-built approval is required to avoid enforcement action.
2. The well water has not been analyzed for the organic parameters of the SDWA.
3. More information is necessary on the validity of the perforated casing vs. a screened well.
4. The well must be adequately tested for 24 hours to confirm that it is capable of producing 75 gpm over a long term period.
5. Disinfection equipment must be installed.
6. A sampling tap and check valve must be installed in the discharge line.
7. An operation and maintenance manual must be completed.

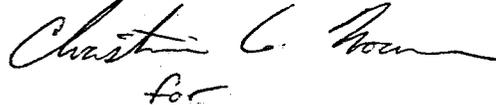
The Water Quality Division is willing to allow interim operation of this well provided that the town of Rolling Hills commits to the following conditions:

Town of Rolling Hills  
October 20, 1986  
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- A. Items 1, 2, 3, 4, & 6 must be completed and approved by December 31, 1986.
- B. Item 5 must be permitted and constructed August 31, 1987.
- C. Item 7 must be completed and approved by February 28, 1987.

If the town will respond in writing and commit to the above conditions, then the Water Quality Division will allow interim use of well based on the problems associated with the other storage tank. The well, as it currently exists, cannot be granted as-built authorization because it does not meet the state's minimum design and construction standards. The town of Rolling Hills continues to be in violation for failure to obtain a construction permit prior to construction of the well. Failure to commit and meet the stated deadlines will not only result in termination of use of the well, but could also result in enforcement action.

Sincerely,



Thomas S. Norman  
Southeast District Engineer

TSN/pjb

cc: Robert Hartley, RCH & Associates  
Larry Robinson, WQD

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Rolling Hills Water Well, Converse Co.

ARCHITECT OR ENGINEER: Robert Hartley, R.C.H. & Associates  
P.O. Box 1659, Glenrock, WY 82637

APPLICANT: Town of Rolling Hills  
Coal Co. Rte. Box U-12, Glenrock, WY 82637

WATER QUALITY DIVISION REFERENCE NUMBER: 86-050RR

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

DATE OF REVIEW: October 7, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Design Report

- a. A design report was not submitted with your letter as stated. I did find the report in the past water tank application and found some problems in justifying a new well based on the design report. Your report states that the average daily flow is 82,500 gpd (57 gpm) and the peak daily flow is 204,000 gpd (141 gpm). Your report shows that the existing well field already has a capacity of 167 gpm (67, 75 and 25 gpm). Even if the small well is abandoned (for whatever reason), the two largest wells have the capacity to satisfy the demands as stated in your design report. This meets the requirements of Chapter XII.
- b. If the largest existing well goes out of service, the remaining well of 67 gpm can satisfy the average daily flow demands. This also meets the requirements of Chapter XII.
- c. There is no technical reason why these wells can only run for 18 hours per day as stated in the design report. Wells are designed to operate 24 hours a day during the peak periods.
- d. The design report states that the new well must produce 100 gpm for 8 hours. Why only 8 hours? A properly designed well can operate 24 hours per day.
- e. The design report states that the new well is expected to produce 400 gpm. There is a considerable difference between this and the next design figure of 150 gpm and then even a greater difference with the actual flow of 85 gpm. These values indicate that the well was not properly developed and screened.
- f. The SDWA water quality tests have not been submitted.

2. A profile view of the well still has not been submitted showing the diameter of hole, depth of hole, casing diameters and depths, grouting depths, water levels, pump depths, geological formations, perforation locations, etc.
3. This well cannot be permitted without a well test. The test data is identified in Chapter XII, Section 7 (f).

Section 9 (b) (ii) requires at least a 24 hour test at 1.5 times the well capacity. If the well can only produce 85 gpm, then we can only permit the well for 57 gpm (85 divided by 1.5).

The pump test is required to be part of the contract documents and all costs would be part of the total bid. The contractor should have been required to fulfill the specifications.

4. The well cannot be permitted without the disinfection requirements being included. We have no control over when Phase III will occur. Disinfection should be added prior to the storage tank to allow for adequate contact time.
5. No data has been submitted to Department of Environmental Quality substantiating the use of perforations for a water well supply. My sources at EPA and Department of Environmental Quality and through textbooks state that the use of perforations is a very poor method for tapping an aquifer. The use of perforations is oil field technology and its use for public water supplies is not documented or recommended.

The advantages you listed for the perforated casing are debatable. The ability to control sanding is poor as the openings are inconsistent, vary in size and are not small enough to keep sand out of the well. Perforated casings have an extremely low open space area compared to a screen and the openings cannot be closely spaced.

Perforated casings do not allow the well to be properly developed which is necessary (1) to repair damage or clogging to the aquifer as a result of drilling, (2) to increase porosity and permeability of the aquifer in the vicinity of the well, and (3) to stabilize the sand formation around the well to produce a water free of sand.

A properly designed screen also allows the ability to tap exact sand aquifers and the ability to seal off poor aquifers.

The initial submittals to both the Farm Loan Board and the Water Quality Division showed a screened well. Changes should not have been made without prior Department of Environmental Quality approval.

6. The regulations require a check valve above grade, a pressure gauge, flow measurement, and a smooth-nosed sampling tap. The placement of these devices after the storage tank is not acceptable as the storage tank can receive water from the other wells which affect the purpose of the devices.
7. A detailed view (plan and profile) of the well and valve vault will satisfy the questions concerning the casing, casing vent and by-pass line. Drawings of sufficient detail for construction purposes are required for review purposes.

Rolling Hills Water Well, Converse Co.

DEQ/WQD Ref. No. 86-050

October 7, 1986.

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8. The well pump was not adequately selected for this application. It is oversized and will cause the town to pay for unnecessary O & M costs. The pump is sized for 150 gpm when only an 85 gpm pump is necessary. The pump must be currently "throttled" to prevent over pumping of the wells. Proper testing of the well would have helped to select the proper pump size.
9. The operation and maintenance manual must be approved prior to start-up of the well, tank and pump house.
10. The pump house has not yet been authorized for construction (application 86-051).

nc

cc: Mark Stafford, Farm Loan Board

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Rolling Hills Water Well

ARCHITECT OR ENGINEER: Robert Hartley, P.E., RCH & Associates  
P O Box 1659, Glenrock, WY 82637

APPLICANT: Town of Rolling Hills  
Coal Co. Rte. Box U-12, Glenrock, WY 82637

WATER QUALITY DIVISION REFERENCE NUMBER: 86-050R

REVIEWING ENGINEER: Thomas S. Norman, Engineering Area Evaluator *TBN*

DATE OF REVIEW: 05-27-86

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. In reviewing the application package, I found that numerous items have not been addressed. Of major importance is the engineering design report which is required in Section 6, Chapter XII, Water Quality Rules and Regulations. I suggest you refer to Section 6 for the specific requirements (i.e., design basis, design flows, existing conditions, proposed actions, test pumping rates, pump sizing, water levels, specific yield, SDWA water quality parameters, etc.). The total groundwater source must exceed the maximum daily demand. The average daily demand must be met with the largest well out of service.
2. The plans did not show a profile view of the well with details as required in Section 7.e., Chapter XII.
3. The well test data has not been received yet. The well must be tested at 1.5 times the design rate for 24 hours.
4. Disinfection equipment and connections must be installed.
5. How is the well to be operated and controlled?
6. There is still a question on plumbness and alignment. The Water Quality rules and regulations specifically require that all wells be tested for plumbness and alignment in accordance with AWWA A-100. In addition, your specifications also include a plumbness and alignment requirement. It seems to be an inappropriate response to say that the plumbness and alignment was not checked as required by both the specifications and the state's requirements.
7. What was the design basis for the perforations in the casing (size, number, location)? What is the uniformity coefficient and effective grain size of the aquifer? The entrance velocity must be limited to 0.1 fps.
8. The well must be equipped with a check valve above grade, a shut-off valve, pressure gauge, flow measurement, and a smooth-nosed sampling tap. In what kind of structure are these devices placed?

9. How were the different aquifers sealed off to prevent migration from one aquifer to another? It appears that only the top 100 feet was sealed.
10. Specifications were not submitted on the pitless adapter.
11. Was the casing vented? If so, how?
12. The well must have the means of pumping to waste.
13. An operation and maintenance manual is required. Acceptance by the Water Quality Division is required to well start-up. See Section 16, Chapter XII.

pjb

3-12-86

Review of Plans and Specifications

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

PROJECT: Rolling Hills Water Well, Converse Co.

ARCHITECT OR ENGINEER: Robert C. Hartley, R.C.H. & Assoc.  
P.O. Box 1659, Glenrock, WY 82637

APPLICANT: Town of Rolling Hills  
Coal Co. Rte. Box U-12, Glenrock, WY 82637

WATER QUALITY DIVISION REFERENCE NUMBER: 86-050

REVIEWING ENGINEER: Christian G. Norman *Christian G. Norman*

DATE OF REVIEW: March 11, 1986

ACTION: AS-BUILTS. DO NOT MEET MINIMUM STANDARDS.

COMMENTS:

1. The construction specifications, regarding plumbness and alignment, do not meet minimum state specifications. Chapter XII, Section 9.(b)(ii) requires that the well be tested for plumbness and alignment in accordance with AWWA A-100. AWWA A-100 also has a tighter tolerance than allowed in the construction specifications. The concern over alignment of the well is with the operation and maintenance of the pump, pumping structure and well. Please provide the test methodology and results of the constructor.
2. Well completion, geophysical, and well logs should be provided to assess the as-built construction of the well.
3. What is the screen opening size? Why was screen opening specified to allow particles to pass? Provide a better description of the well screen.
4. Provide specifications of the pump being used.
5. Provide the results of the yield and drawdown pump test.
6. What measures were taken to prevent aquifer cross contamination?

CGN/nc

3-11-86

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 86-050

DATE SUBMITTED FOR REVIEW 2/27/86

NAME AND LOCATION OF FACILITY TOWN OF ROLLING HILLS AS-BUILT WATER  
WELL SPECIFICATIONS  
SECTION 15, T34N, R75W  
CONVERSE COUNTY, WY

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

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

SIGNED Thomas R. Williams  
TITLE GROUNDWATER ENGINEERING ASSOCIATE E.I.T. No. 2242  
DATE 3/11/86

ACCEPTED FOR RECORD 3/11/86  
(Date)

ajm  
Groundwater Control Supervisor

# MEMORANDUM

TO: CHRIS NORMAN, SOUTHEAST DISTRICT WATER QUALITY ENGINEER  
FROM: THOMAS R. WILLIAMS, GROUNDWATER ENGINEERING ASSOCIATES

DATE: MARCH 11, 1986

SUBJECT: GROUNDWATER REVIEW OF PERMIT TO CONSTRUCT APPLICATION NUMBER 86-050 FOR THE TOWN OF ROLLING HILLS AS-BUILT WATER WELL SPECIFICATIONS, CONVERSE COUNTY, WYOMING

I HAVE REVIEWED PERMIT TO CONSTRUCT APPLICATION NUMBER 86-050 FOR THE TOWN OF ROLLING HILLS AS-BUILT WATER WELL SPECIFICATIONS FOR CONSISTENCY WITH CURRENT GROUNDWATER PROTECTION PROCEDURES AND REQUIREMENTS. TO COMPLETE A TECHNICAL REVIEW, THE FOLLOWING INFORMATION NEEDS TO BE SUBMITTED:

- 1) RESULTS OF YIELD AND DRAWDOWN PUMP TESTS ON THE WELL.
- 2) THE GEOPHYSICAL LOGS THAT WERE REQUIRED IN THE TECHNICAL SPECIFICATIONS FOR THE INSTALLATION OF THE WELL.
- 3) A DESCRIPTION OF THE TYPE OF WELL SCREEN THAT WAS USED.
- 4) A DESCRIPTION OF THE PROCEDURE USED TO ISOLATE EACH WATER-BEARING STRATA TO PREVENT CROSS-CONTAMINATION BETWEEN AQUIFERS.

CC: A.J. MARCINI, DEQ/WQD

