

File



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 17, 1986

Town of Rolling Hills
Coal Co. Rte., Box U-12
Glenrock, WY 82637

RE: Permit to Construct Application Number 86-051R

Dear Mayor:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (86-051R) for a permit to construct a pressure pump system for your municipal water system at Section 15, T34N, R75W, Converse County. The Water Quality Division has determined that the system meets the minimum design standards.

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 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 letter. 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 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 water pressure pump system installed meets minimum state specifications and has been approved by the Wyoming Department of Environmental Quality, Water Quality Division.

In the future if you are to build a wastewater system, you must apply for a permit to construct prior to construction to avoid enforcement action.

Sincerely,

William L. Garland
Administrator

WLG/TSN/nc

3-10-86

Review of Plans and Specifications

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

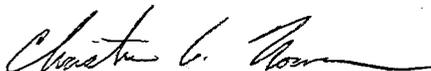
PROJECT: Rolling Hills Pump House, Converse Co.

ARCHITECT OR ENGINEER: Robert C. 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: 86-051

REVIEWING ENGINEER: Christian G. Norman



DATE OF REVIEW: March 5, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Clarify the piping of the pump house. A schematic would be helpful. Since a skid mounted unit is proposed, shop drawings would be useful.
2. How are the pumps to be removed for service?
3. The site around the pump station shall be graded to lead surface drainage away from the pump station.
4. Provide a profile of the proposed water line.

CN/nc

PERMIT TO CONSTRUCT

Permit No. 86-052

- New
- Renewal
- Modified

North Platte Park Centerline Extension
(Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify a municipal water distribution system facility according to the procedures and conditions of the application No. 86-052. The facility is located in Section 33, T34N, 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.

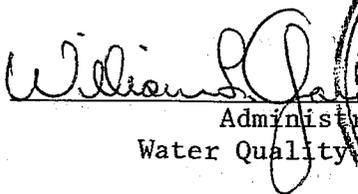
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

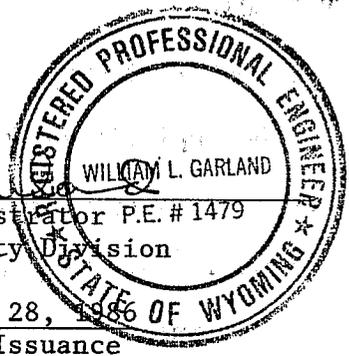
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


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.

cc: Jerald Crews
Cardinal Design Group
2334 Rose Lane
Riverton, WY 82501

PERMIT TO CONSTRUCT NewPermit No. 86-53R Renewal ModifiedDEVILS TOWER NATIONAL MONUMENT WASTEWATER LAGOON
(Name of Facility)

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

Devils Tower National MonumentDevils Tower, Wyoming 82714

to construct, install, or modify a wastewater lagoon improvement facility according to the procedures and conditions of the application No. 86-53R. The facility is located in Section 12, T.53N., R.66W., in the County of Crook, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

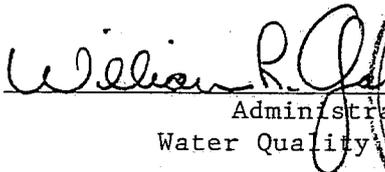
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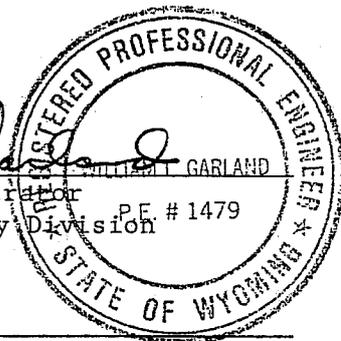
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

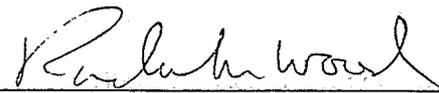
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
PE # 1479

10-14-86

Date of Issuance



Director
Department of Environmental Quality

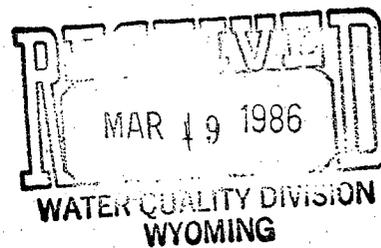
This permit does not supercede the requirements for obtaining any permit from local agencies.

xc: John L. Wendleton
National Park Service
P.O. Box 25287
Denver, CO 80225

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

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



PROJECT: Wastewater Lagoon Improvements
Devils Tower National Monument

ARCHITECT OR ENGINEER: Bill Rust
National Park Service
Rocky Mountain Regional Office
P.O. Box 25287
Denver, Colorado 80225

WATER QUALITY DIVISION
REFERENCE NUMBER: 86-53

REVIEWING ENGINEER: Susan Fields *SF*

DATE OF REVIEW: March 17, 1986

ACTION: Not Authorized

COMMENTS:

1. The specified handling of the existing lagoon sludge does not offer enough detail to assure that the material will be properly disposed. In order for the solids to be landfilled, the Solid Waste Management Section of DEQ requires that the sludge be dried. No liquids or slurries may be landfilled. An area should be identified where the sludge can be placed and worked until it is dry enough to landfill. The area should restrict access by the public and wildlife and be located so that migration of the material will not occur by water or wind erosion.

I am assuming that landfilling is expected to occur at one of the nearby municipal facilities. Written verification from the mayor of the town that the facility will accept this waste must be provided to Solid Waste Management Section in Cheyenne prior to approval of the project by the Water Quality Division. Moisture analysis must be performed before disposal and the results submitted to Solid Waste and this office. If you have not already done so, please contact Tim Link of Solid Waste to discuss sludge disposal.

2. The application form must be signed by the applicant. This can be any person acting as a representative or agent for the Monument or the Park Service. The information requested about the engineer must also be completed. The forms are enclosed for completion.

Wastewater Lagoon Improvements
Devils Tower National Monument
Ref. No. 86-53
March 17, 1986
Page Two

3. The plans and specifications have been reviewed by our Groundwater Section in Cheyenne to determine adequacy of the proposed liner and potential impact to groundwater. The primary concern is the location of any potable water wells in the area which potentially could be impacted by the lagoon should the liner fail. Please address location of wells in the area and depth to groundwater.

The Park Service is also made aware that groundwater monitoring is normally required for this type of facility. Location of wells, as discussed above, will determine the need for such monitoring. If DEQ does not require monitoring now, future development may result in requirements for monitoring.

4. I have received notice that permission to discharge the lagoon has been granted. A condition will be included on the construction permit that this office is notified when discharge begins and if any unusual conditions are encountered.

Memo

10

From

Date

Subject

Susan Fields, WPD Sheridan

A J Marcini

March 7, 1986

Comments on application #86-53, Devil's
Tower National Monument Wastewater
Lagoon, Crook County

The application is for the replacement of a wastewater lagoon liner. The replacement liner appears to meet minimum requirements of Chapter XI.

No information has been submitted which can be used to evaluate groundwater conditions or any potential threat.

If you are aware of any existing impact to groundwater at this site, please forward the information. We would also be concerned if there were existing water uses (wells) which could be impacted by this facility.

Any potential threat to groundwater should be minimized by the proper installation of the proposed replacement liner.

The owner/operator should be made aware that we normally require monitoring at such a facility, and

even if we do not require it now,
future developments may result in a
requirement for monitoring.

The application is unsigned and
does not specify an engineer
registered in Wyoming.

THE STATE



OF WYOMING

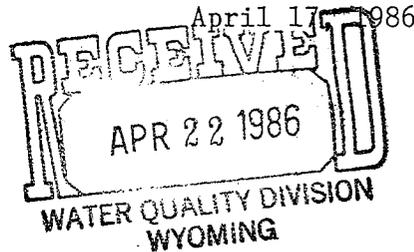
ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144



City of Lander
ATTN: Don Dunham,
Engineering Supervisor
183 South 4th Street
Lander, WY 82520

RE: Revisions to Lander's Standards and Specifications, 86-54R

Dear Don:

This office has reviewed the City of Lander's Standards and Specifications amended on March 25, 1986. Thank you for incorporating the review comments that I listed in my March 21, 1986 letter.

The amended specifications appear to meet the minimum Water Quality Division standards for water and sewer line construction. Therefore, the Standards and Specifications amended March 25, 1986 are authorized by this office for use as project specifications.

Applications for permits to construct that are submitted to this office need only reference these specifications on the plan sheets. As in the past, any additions or modifications to the authorized specifications for water and sewer line construction, must be reviewed by this office to insure compliance with the Water Quality Division standards.

Sincerely,

A handwritten signature in cursive script that reads "Jeff Hermansky".
Jeff Hermansky
Water Quality Evaluator

JH/jw

copy: Specifications 86-54R

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

March 21, 1986

City of Lander
ATTN: Don Dunham
183 S. 4th
Lander, WY 82520

RE: Revisions to Lander Standards and Specifications *86-54*

Dear Don:

This office has completed our review of your proposed changes to the City of Lander's Standards and Specifications. The review was aided by the fact that you highlighted all the changes and made comments where appropriate. Thank you for the extra preparation.

You appear to have done a careful job in reviewing the recently updated DEQ regulations and incorporating the necessary changes into the Lander's Standards and Specifications. There are however, a few items that I believe you should consider including.

1. Since backflow preventors or check valves are required for all service connections, I would suggest you require check valves where temporary water service is required during repair or construction.

2. The DEQ regulations are specific as to pipe materials that are approved for sewer service pipe. Hubless cast iron soil pipe and glued joint PVC are not included. Please make it clear in the City's Standards that these materials may be used from the property line to the structure only, not in the public right of way. Please note this on drawing 402-01 as well.

Thank you for your cooperation.

Sincerely,

Jeff Hermansky
Water Quality Evaluator

RECEIVED
APR 18 1986
WATER QUALITY DIVISION
WYOMING

JH/jw
copy: Specs 86-54

C



THE STATE OF WYOMING

Norma

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

September 9, 1986

Mr. Steve Burford
Halliburton Services
Drawer 1431
Duncan, OK 73536



RE: "As Built" Authorization for Holding Tank East of Terminal
(Permit Number 86-55R)

Dear Mr. Burford:

This letter is in response to the above mentioned facility. After reviewing the submittal, it appears that the facility meets the minimum design standards for the State of Wyoming. A "Permit to Construct" cannot be issued since the facility has already been built. Please retain this letter as verification that the facility has been accepted by the Wyoming Department of Environmental Quality.

Sincerely,

Steven P. Gerber, P.E.
Northwest District Supervisor

SPG/jw

cc: Larry Robinson, DEQ/WQD, Cheyenne

aba

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Halliburton Services - Worland

ENGINEER: P.E. Grosch Construction, Inc.
ATTN: Stan Abell, P.E.
P.O. Box 36
Worland, WY 82401

OWNER: Halliburton Services
ATTN: S.A. Burford
P.O. Drawer 1431
Duncan, OK 73536-0100

WATER QUALITY DIVISION REFERENCE NUMBER: 86-55

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

DATE OF REVIEW: April 1, 1986

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following information must be provided before a permit can be issued:

1. Provide results of leak test to be performed on the holding tank.

Because the oil/grit separator pits were constructed prior to the existence of the Department of Environmental Quality Rules and Regulations, they do not need to be permitted. However a leak test is still advised because any contamination originating from these pits is still the responsibility of Halliburton Services.

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.

SG/jw

copy: Plans (3)
File (2)

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-056

Replacement of the Tank Farm Supply Line
(Name of Facility)

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

City of Rawlins

P.O. Box 953

Rawlins, WY 82301

to construct, install, or modify a public water distribution facility according to the procedures and conditions of the application No. 86-056. The facility is located in Section 30 and 31, T21N, R87W in the County of Carbon, in the State of Wyoming.

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

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

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

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

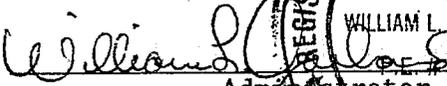
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: 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
P.E. 71479
Administrator
Water Quality Division
STATE OF WYOMING
REGISTERED PROFESSIONAL ENGINEER
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.

cc: Rex A. Behrends
Civil Engineering Professionals, Inc.
400 E. 1st, Suite 311
Casper, WY 82601

PERMIT TO CONSTRUCT

New

Permit No. 86-057R

Renewal

Modified

Sedimentation Pond 1-4
(Name of Facility)

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

Western Division Hydrologist

P. O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 86-057R. The facility is located in S20, T23N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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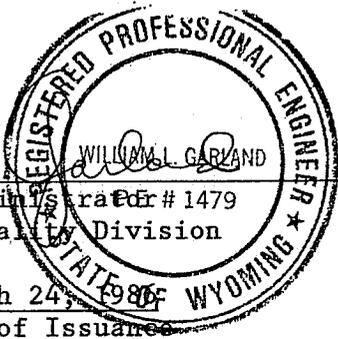
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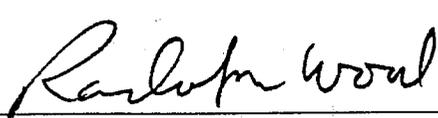
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
March 24, 1986
Date of Issuance




Director
Dept. of Environmental Quality

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

cc: Scott Palmer
Arch Mineral Corporation
P. O. Box 1135
Saratoga, WY 82331

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-058R

Sedimentation Pond 1-5
(Name of Facility)

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

Western Division Hydrologist

P. O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 86-058R. The facility is located in S20, T23N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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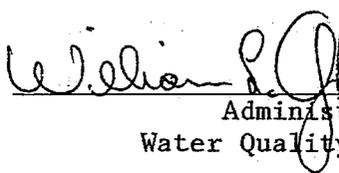
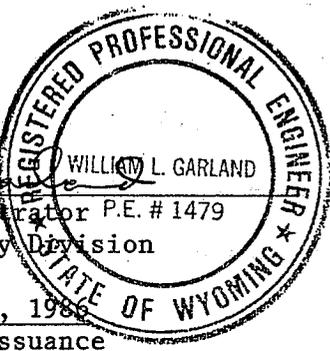
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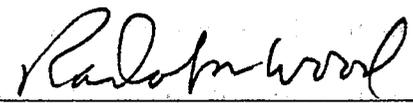
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
March 24, 1986
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Scott Palmer
Arch Mineral Corporation
P. O. Box 1135
Saratoga, WY 82331

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-059R

Sedimentation Pond 1-6
(Name of Facility)

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

Western Division Hydrologist

P. O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 86-059R. The facility is located in S20, T23N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

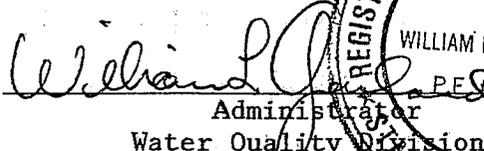
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

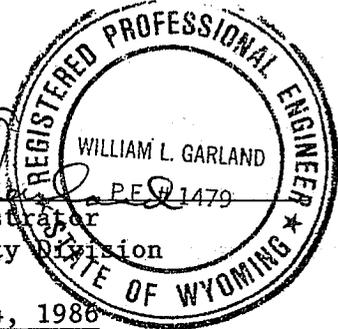
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

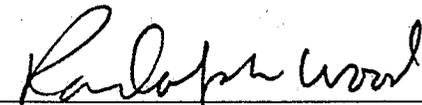
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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




Director
Dept. of Environmental Quality

March 24, 1986
Date of Issuance

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

cc: Scott Palmer
Arch Mineral Corporation
P. O. Box 1135
Saratoga, WY 82331

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-060R

Sedimentation Pond 1-7
(Name of Facility)

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

Western Division Hydrologist

P. O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 86-060R. The facility is located in S20, T23N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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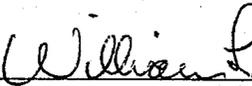
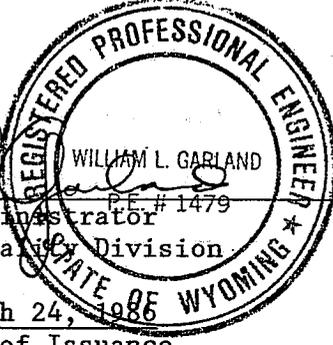
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

March 24, 1986
Date of Issuance


Director
Dept. of Environmental Quality

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

cc: Scott Palmer
Arch Mineral Corporation
P. O. Box 1135
Saratoga, WY 82331

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-061R

Sedimentation Pond 1-8
(Name of Facility)

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

Western Division Hydrologist

P. O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 86-061R. The facility is located in S20, T23N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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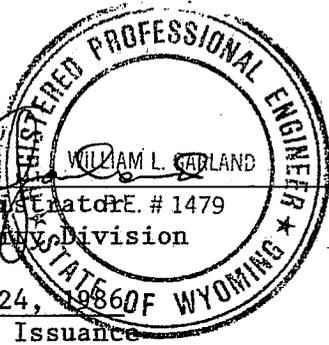
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:

William L. Garland
WILLIAM L. GARLAND
Administrator E. # 1479
Water Quality Division
March 24, 1986
Date of Issuance



Randolph Wood
Director
Dept. of Environmental Quality

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

cc: Scott Palmer
Arch Mineral Corporation
P. O. Box 1135
Saratoga, WY 82331

PERMIT TO CONSTRUCT

Permit No. 86-062R

- New
 Renewal
 Modified

Sedimentation Pond 1-9
(Name of Facility)

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

Western Division Hydrologist

P. O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 86-062R. The facility is located in S20, T23N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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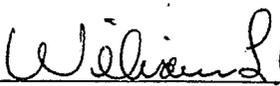
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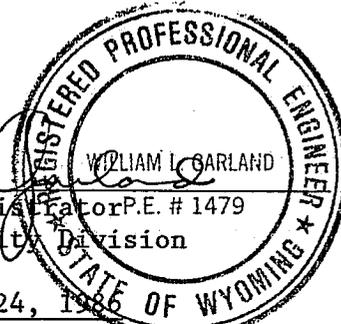
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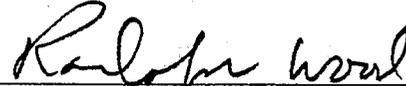
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



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

March 24, 1986
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Scott Palmer
Arch Mineral Corporation
P. O. Box 1135
Saratoga, WY 82331

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-063R

Sedimentation Pond 1-10
(Name of Facility)

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

Western Division Hydrologist

P. O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 86-063R. The facility is located in S20, T23N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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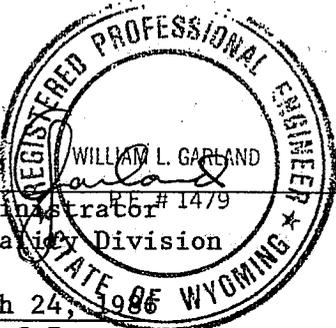
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
March 24, 1986
Date of Issuance

Rashawn Wood
Director
Dept. of Environmental Quality

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

cc: Scott Palmer
Arch Mineral Corporation
P. O. Box 1135
Saratoga, WY 82331

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 86-064R

Sedimentation Pond 1-11
(Name of Facility)

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

Western Division Hydrologist

P. O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 86-064R. The facility is located in S20, T23N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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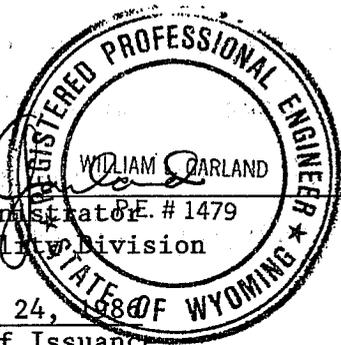
The permittee shall notify representatives of the State, Water Quality Division the day construction begins and give an estimate of the cost of the project. The authorized person should be contacted at the following address: District Office, Department of Environmental Quality, Water Quality Division, Cheyenne, Wyoming 82002; telephone, 777-7781.

Nothing in this permit shall be construed to create a liability or relieve the permittee from any responsibilities established pursuant to any applicable State or local laws or regulations.

The issuance of this permit does not constitute an endorsement of personal property, or any exclusive privilege, or any invasion of personal property or any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William Garland
WILLIAM GARLAND
Administrator # 1479
Water Quality Division
March 24, 1980
Date of Issuance



Department of Environmental Quality and give an estimate of the cost of the project. The authorized person should be contacted at the following address: District Office, Department of Environmental Quality, Water Quality Division, Cheyenne, Wyoming 82002; telephone, 777-7781.

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for work
Director
Environmental Quality

This permit does not supercede the requirements of any other agencies.

Nothing in this permit shall be construed to create a liability or relieve the permittee from any responsibilities established pursuant to any applicable State or local laws or regulations.

cc: Scott Palmer
Arch Mineral Corporation
P. O. Box 1135
Saratoga, WY 82331

PERMIT TO CONSTRUCT

New

Permit No. 86-065R

Renewal

Modified

Sedimentation Pond 1-13
(Name of Facility)

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

Western Division Hydrologist

P. O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 86-065R. The facility is located in S20, T23N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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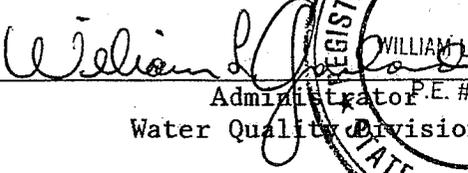
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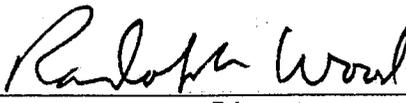
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


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


Director
Dept. of Environmental Quality

March 24, 1986
Date of Issuance

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

cc: Scott Palmer
Arch Mineral Corporation
P. O. Box 1135
Saratoga, WY 82331

Review of Plans and Specifications

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

PROJECT: Sedimentation Ponds 1-4, 1-5, 1-6, 1-7, 1-8, 1-9, 1-10, 1-11, 1-13

ARCHITECT OR ENGINEER: Scott Palmer, Arch Mineral Corp.
P. O. Box 1135, Saratoga, WY 82331

APPLICANT: Western Division Hydrologist
P. O. Box 460, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 86-057 through 86-065

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: March 14, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The total runoff values do not agree with the values obtained in our review. The difference in the calculations is the runoff, Q value. The value used in the application was 0.31 inches. The following method was used to determine Q.

$$Q = \frac{[P - 0.2S]^2}{P + 0.8S}$$

where: CN = 80
S = 2.5 inches
P = 1.6 inches

Using this equation and the above values, Q = 0.34. Using this value results in the following ponds being undersized.

- Pond 1-4
- Pond 1-8
- Pond 1-10
- Pond 1-11
- Pond 1-13

The error may have resulted in determining Q directly from a graph. With the precipitation this low, the slope of the line is flat and hard to read. It is recommended that the equation given above be used.

2. Pond 1-9 - the pond volume was incorrectly calculated. Using the dimensions given, I obtain a volume of 1.46 ac ft, which is insufficient in volume.
3. Have provisions been made to place stakes in the pond to show total sediment capacity, dead pond capacity, and pond capacity?

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 86-066R

MONDELL AIRPORT WATER EXTENSION OF WEST END WATER DISTRICT
(Name of Facility)

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

Weston County Commissioners

P.O. Box 520

Newcastle, Wyoming 82701

to construct, install, or modify a water line extension facility according to the procedures and conditions of the application No. 86-066R. The facility is located in Section 16, T.45N., R.62W., 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.

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

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

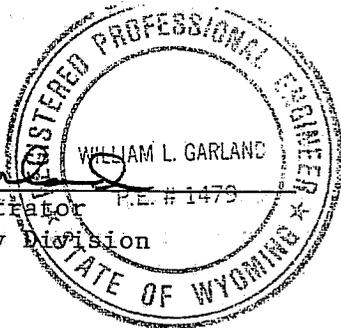
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

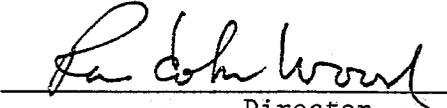
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division





Director
Department of Environmental Quality

11-17-86

Date of Issuance

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

xc: Robert C. Hartley
R.C.H. & Associates
P.O. Box 1659
Glenrock, Wyoming 82637

REVIEW OF PLANS AND SPECIFICATIONS

NORMA

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

PROJECT: Mondell Airport Water Extension

ARCHITECT OR ENGINEER: Robert C. Hartley
RCH & Associates
Consulting Engineers
P.O. Box 1659
Glenrock, Wyoming 82637

WATER QUALITY DIVISION
REFERENCE NUMBER: 86-066

DATE OF REVIEW: March 24, 1986

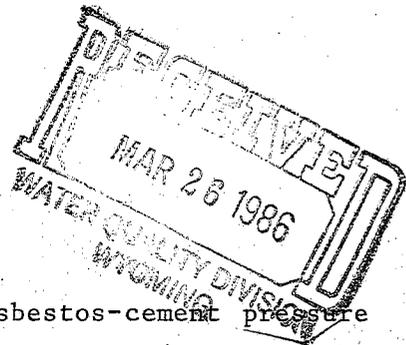
ACTION: Not Authorized

COMMENTS:

- 1.) The EPA has recently banned the use of asbestos-cement pressure pipe in new water distribution systems.

The A.C. pressure pipe specification should be deleted.
- 2.) Chapter XII of the Water Quality Division regulations contains special provisions for sewer and waterline separations that differ from those in your specifications. You will note on the enclosed page that rather than requiring sewers to be constructed equivalent to waterlines when separation distances cannot be met, they will be encased in a separate conduit. Your specifications should be changed accordingly.
- 3.) The enclosed provisions of the 404 Nationwide General Permit for Utility Line Crossings should be adhered to where waterline crosses the creek.
- 4.) If the water crossing is wider than 15 feet, the provisions on the enclosed page 70 should also be adhered to. Namely, there should be valves at both ends of the crossing.
- 5.) Chapter XII new contains a new backflow prevention requirement. Residential and commercial connections which have no water use other than for domestic purposes must provide a check valve at the meter or in the service line. The plans or specifications should indicate this.
- 6.) The maximum length of six inch pipe serving a fire hydrant from one direction cannot exceed 250 feet. The waterline loop should be changed to accomodate this.

Feel free to call me to discuss the matter.



PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-067R

CAMBRIA WATER SYSTEM
 (Name of Facility)

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

Cambria Improvement and Service District

P.O. Box 831

Newcastle, Wyoming 82701

to construct, install, or modify a water distribution facility according to the procedures and conditions of the application No. 86-067R. The facility is located in Sections 3, 4, 9, 10, 16, 21, T45N, and Sections 28, 33, T46N, R61W, 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.

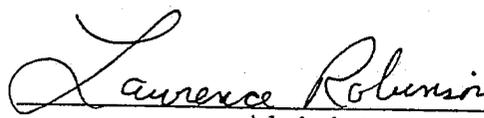
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

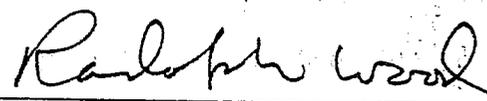
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:



Administrator
for Water Quality Division



Director
Department of Environmental Quality

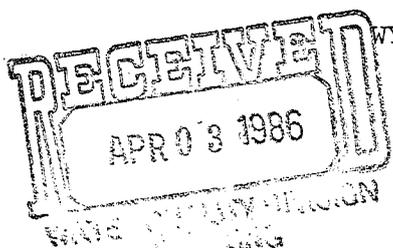
April 16, 1986
Date of Issuance

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

xc: Rodney H. Meador
FMG, Inc.
1823 West Main Street
Rapid City, SD 57702-2591

NORMA

REVIEW OF PLANS AND SPECIFICATIONS



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

PROJECT: Cambria Water System
Cambria Improvement and Service District
Weston County, Wyoming

ARCHITECT OR ENGINEER: Rodney Meador, P.E.
FMG, Inc.
1823 West Main
Rapid City, South Dakota 57702-2591

WATER QUALITY DIVISION
REFERENCE NUMBER: 86-067

REVIEWING ENGINEER: Susan Fields *SF*

DATE OF REVIEW: April 1, 1986

ACTION: Not Authorized

COMMENTS:

1.) The design information presented does not provide enough detail to adequately evaluate the system. I am concerned about the following:

- 1a) Possible high head loss in the small diameter mains during periods of peak flow. Please address estimated peak demands and associated head losses. Chapter XII of the Water Quality Rules and Regulations establishes 125 gpd and 340 gpd as the average and peak per capita demands. These values should be used in design unless records indicate a different usage rate.
- 1b) Is the system adequately sized for future expansion? It appears likely that there is good potential for growth in this area, particularly after a potable water system is available. Please define a maximum service area and address the capabilities of this system to serve it.
- 1c) How were the water storage reservoirs sized? How do tank overflow elevations relate to the pump discharge heads?
- 1d) Please provide your calculations for determining total dynamic head and motor requirements for the pumping facilities. What is the minimum suction pressure for the stations?

2. Is fire protection being provided? If so, the 6-inch mains will not be adequate and more hydrants are needed. If not, the hydrants should be located at the dead-end runs, after the last service connection, to allow for flushing of the system. Intermittent hydrants along the main distribution line will not be permitted unless fire protection is provided.
- 3) The storage reservoirs should be equipped with drains and a valve should be located on the line to Reservoir #2 to allow it to be isolated from the system.
- 4) The pump stations should have valves on the suction lines.
- 5) Service lines shall be equipped with a check valve to prevent backflow. It is unclear whether a check valve is included in the meter pit installation.
- 6) Because of extreme elevation changes, a topographic layout or profile of the system should be provided. This will aid in evaluation of pressures in the system. Has the need for air release been considered?
- 7) Please submit a copy of the District's agreement with the City of Newcastle for providing water service.



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 12, 1986

Mr. Thomas E. Axthelm
Inberg-Miller Engineers
124 E. Main Street
Riverton, WY 82501

RE: Amoco CO2 Plant, Bairoil, Wyoming, DEQ/WQD Permit #86-068R

Dear Mr. Axthelm:

The attached plans have been reviewed as a change order to construction permit #86-068R. The plans are hereby authorized and are considered as part of the previous application for a permit to construction #86-068R.

Sincerely,

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

Thomas S. Norman
Southeast District Supervisor

TSN/nc
Enclosures

cc: Amoco Production Co.
P.O. Box 2520
Casper, WY 82602

PERMIT TO CONSTRUCT

Permit No. 86-068R
SEE CONDITION ON BACK

- New
- Renewal
- Modified

Amoco CO2 Plant
(Name of Facility)

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

Amoco Production Co.

P.O. Box 2520

Casper, WY 82602

to construct, install, or modify a industrial subsurface wastewater and disposal (domestic wastes) facility according to the procedures and conditions of the application No. 86-068R. The facility is located in Section 18, T26N, R89W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

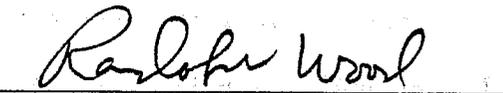
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
for Water Quality Division



Director
Dept. of Environmental Quality

April 10, 1986
Date of Issuance

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

Condition to Permit to Construct 86-068R

The wastewater collection line shall be 6-inch diameter.

Review of Plans and Specifications

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

PROJECT: Amoco C02 Plant

ARCHITECT OR ENGINEER: Thomas E. Axthelm, Inberg-Miller Engineers
341 East E Street, Casper, WY 82601

APPLICANT: Amoco Production Company
P O Box 2520, Casper, WY 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 86-068

REVIEWING ENGINEER: Christian G. Norman



DATE OF REVIEW: March 14, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The sewer line from the eastern most manhole is considered a gravity sewer. Chapter XI Section 9 (c)(i) requires a minimum pipe diameter of six inches in dead end locations.
2. Provide the following information for evaluation of impact to groundwater.
 - a. Potential for domestic use downgradient.
 - b. How will the plant be supplied with potable water? Provide the well location.
 - c. What is the general flow direction of the groundwater in this area? The uppermost water bearing strata is the area of concern.
3. It is recommended that the bed be filled with gravel and leveled.
4. OSHA requires that manhole steps have a maximum 12 inch separation.
5. A replacement area for the drainfield should be indicated on the plan sheet.
6. Show any water lines in the area on the plan sheet.

pjb

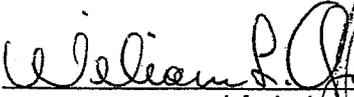
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

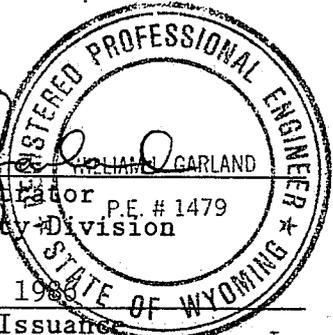
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

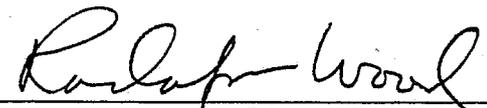
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division
March 17, 1988
Date of Issuance





Director
Dept. of Environmental Quality

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

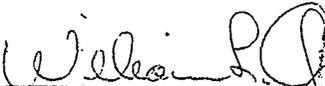
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

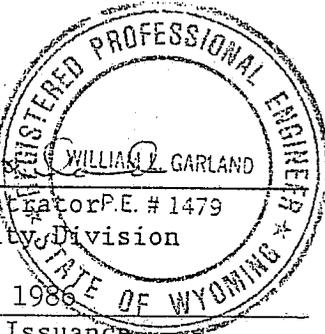
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
March 25, 1986
Date of Issuance




Director
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Sanitary Sewer, Brodrick Acres Subdivision

ENGINEER: Richard Myrick
P.O. Box 1008
Powell, WY 82435

OWNER: City of Powell
P.O. Box 1008
Powell, WY 82435

WATER QUALITY DIVISION REFERENCE NUMBER: 86-70

REVIEWING EVALUATOR: Jeff Hermansky

DATE OF REVIEW: March 21, 1986

ACTION: **Not authorized.**

COMMENTS:

This office has completed our review of the proposed sewer project. I found one item that needs to be addressed before a permit to construct can be issued:

The Wyoming Public Works Standard Specifications do not address clean-outs at the ends of sewer mains. Therefore, please submit a detail and specifications for the proposed clean-out. The detail must show how the clean-out is to be protected from traffic or other potential damage. Also, how will the clean-out be located for use by the City for maintenance of the sewer line?

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. Call either Steve Gerber or me if you have any questions.

JH/jw

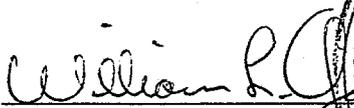
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

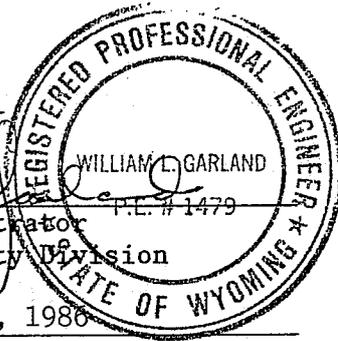
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

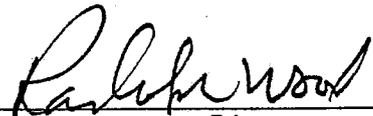
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
April 29, 1986
Date of Issuance





Director
Dept. of Environmental Quality

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

PERMIT TO CONSTRUCT

Permit No. 86-72R

- New
- Renewal
- Modified

Far View Well No. 1
(Name of Facility)

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

Far View Water & Sewer District
P.O. Box 1641
Riverton, WY 82501

to construct, install, or modify a domestic water well

_____ facility according to the procedures and conditions of the application No. 86-72R. The facility is located in _____

Sec. 21, T2N, R4E, WRM
_____ in the County of Fremont,

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

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

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

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

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

Lawrence Robinson

Administrator
for Water Quality Division

Ralph Wood

Director
Dept. of Environmental Quality

April 11, 1986
Date of Issuance

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

MEMORANDUM

TO: Plans, 86-72
FROM: Jeff Hermansky *JHB*
SUBJECT: Phone Review of Far View Well No. 1
DATED: April 2, 1986

On April 1, 1986 I conducted a phone review of the proposed Far View Water and Sewer District Well No. 1. I made the following comments to Jerry Crews, the project engineer:

1. The regulations require that yield and draw down test methods be clearly indicated in the specifications. The proposed specifications are not complete.

2. The regulations require that every well be tested for plumbness and alignment in accordance with AWWA A-100. The test method and allowable tolerance must be stated in the specification. This is not stated in the specifications.

3. The regulations require that every well be developed to remove fines.

4. The material for the gravel pack must be 95% siliceous material placed in one uniformly continuous operation.

5. The pitless adaptor and well cap must be installed in accordance with the regulations, not just as per the manufacturers recommendations.

6. The concrete apron around the well casing and meter vault must slope away from the casing at 1 inch per foot.

JH/jw

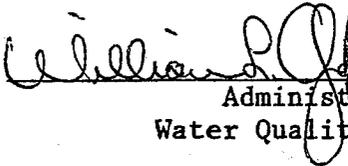
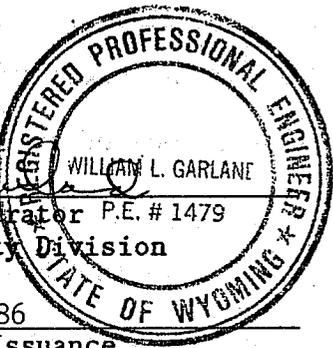
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

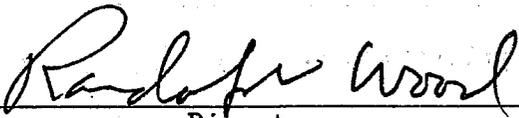
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


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

April 3, 1986
Date of Issuance

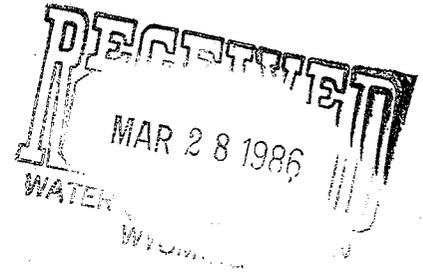

Director
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Kirby Water Line Extension

ENGINEER: Jim Gores, P.E.
Morrison-Maierle, Inc.
450A South Federal
Riverton, WY 82501

OWNER: Town of Kirby
P.O. Box 6
Kirby, WY 82430

WATER QUALITY DIVISION REFERENCE NUMBER: 86-73

REVIEWING ENGINEER: Jeff Hermansky

DATE OF REVIEW: March 27, 1986

ACTION: **Not authorized.**

COMMENTS:

A review of the proposed plans and specifications has been completed. Before a "Permit to Construct" can be issued, the following items need to be addressed:

1. The application form must be signed by the owner.
2. I could find no mention as to the type of PVC pipe material required for the project. Section 02610A - "Water Main Materials" seems to have been left out of the specifications.
3. Standard Drawing 02713-2, "Water and Sewer Main Separation" apparently addresses Montana's requirements for separation. Please revise this drawing to reflect Wyoming's requirements as noted in Chapter XII of the Water Quality Rules and Regulations.

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 me.

JH/jw

PERMIT TO CONSTRUCT

Permit No. 86-074
SEE SPECIAL CONDITION

- New
 Renewal
 Modified

Christensen Sewer Extension
(Name of Facility)

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

Town of Encampment

P O Box 5

Encampment, WY 82325

to construct, install, or modify a municipal wastewater collection system and raw wastewater lift station facility according to the procedures and conditions of the application No. 86-074. The facility is located in Section 12, T14N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective until July 31, 1986.

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.

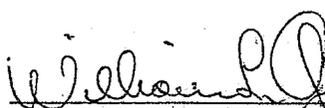
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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 C. GARLAND
Administrator P.E. # 1479
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

March 26, 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

1. The existing septic systems shall be properly abandoned such as to prevent future use and also to prevent a safety hazard.
2. The Water Quality Division shall be notified upon completion of this project in order to satisfy the notice of violation.

cc: Theodore D. Coyer
Probity Engineering, PC
1111 East Lincolnway
Cheyenne, WY 82001

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-75RRR
Ref. No. 84-216
* CONDITIONS ON PERMIT *

Texasgulf (North and South) Groundwater Interceptor System
(Name of Facility)

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

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

to construct, install, or modify a pumpback systems to intercept groundwater/
seepage from the tailings pond; northern system consists of 6 recovery wells and piping;
southern interceptor system consists
of 5 recovery wells and piping facility according to the procedures and conditions of the
application No. 86-75RRR. The facility is located in _____

Sec. 5, 6, 7, 8, T28N, R110W and S34, T21N, R110W

_____ in the County of Sweetwater,

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

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

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

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

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

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

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

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

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

AUTHORIZED BY:

William P. Garland
 Administrator P.E. # 1479
 Water Quality Division
 1-14-87
 Date of Issuance



Robert Wood
 Director
 Dept. of Environmental Quality

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

CONDITIONS ON PERMIT

1. The actual effectiveness of the pumpback systems cannot be determined until after operations begin. A groundwater level and quality monitoring program will be implemented by Texasgulf to evaluate the system's effectiveness. If additional monitoring wells are required for this program, a "Permit To Construct" must be obtained from the DEQ/WQD.
2. Texasgulf shall present documentation which describes the pumpback systems effectiveness as a part of the DEQ/LQD Annual Report. That part of the report which describes the pumpback system's effectiveness shall be submitted to the DEQ/WQD Groundwater Section Supervisor. At a minimum, the presentation shall include: comprehensive summary of operation and effectiveness, tabular and graphical presentation of pertinent data, water level and critical isoconcentration maps.
3. The DEQ/WQD shall review the effectiveness of the pumpback systems through on-site inspections and evaluation of the Annual Report. The DEQ/WQD may require additional information or monitoring to completely describe the pumpback system's effectiveness and contaminate plume behavior. Consequently, the DEQ/WQD may require investigation and implementation of additional mitigative measures to control seepage from the tailings pond.

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

OCT 29 1986
60/80
WATER QUALITY DIVISION
WYOMING

APPLICATION NUMBER 86-75R

DATE SUBMITTED FOR REVIEW 8-20-86

NAME AND LOCATION OF FACILITY Texas Gulf Groundwater
Interceptor System
WAD
Sweetwater County

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

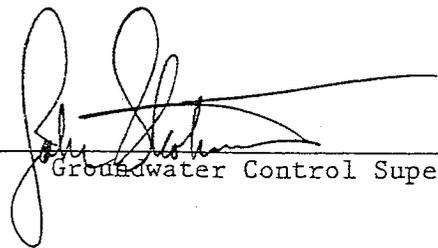
- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Kate Laidon

TITLE Engineer Evaluator

DATE 10-28-86

ACCEPTED FOR RECORD 10-28-86
(Date)


Groundwater Control Supervisor

Memo

To: Jack Beddoem, SW District Supervisor
From: Kate Ludon, Groundwater Engineer EWL

Date: 10-20-86

Subject: Groundwater Review TG Soda
Ash Groundwater Interceptor
System. W&O Reference NO 86-751

This memo will document my telephone review of 10-20-86. Texas Gulf (TG) has submitted the results of a remedial investigation and design specifications for a Northern and Southern Interceptor system in the vicinity of their tailings impoundment located near Stranger in Sweetwater County.

The ^{proposed} groundwater interceptor system will consist of six recovery wells located north of the pond and five wells located south of the pond. Both recovery systems are located near areas of seepage where the seepage plume surfaces. The northern wells are designed to produce 300 gpm initially, then 250 gpm and finally 150 gpm for long-term pumping. The southern wells will produce 130 gpm initially, then 85 gpm for long-term pumping.

~~Most of any comments~~
The following comments and questions should be addressed by the applicant to ~~assist~~ aid our understanding of the remedial

investigation and system design:

1. ^a The groundwater flow model was used to estimate the flow rate required to lower water levels in the vicinity of the proposed interceptor systems. Section 6.4 states that confidence in the model calibration depended on the storage coefficients selected. Were the pump tests of sufficient length to produce reliable values of Transmissivity and storage coefficients? Is the model particularly sensitive to these parameters? If so were conservative values assumed?
2. How was the historic "leakage rate" from the pond determined? A constant rate of leakage does not fit with the previously proposed "gypsum dissolution" theory.
3. The report indicates that the 1/4 mile grid spacing of the model was too large to simulate well spacing and pumping rates of the interceptor system. Describe the Theis analysis that was used to simulate the design spacing and pumping rates.
4. Tables 7-1 and 7-2 indicate that pumping rates will be decreased periodically

for both interceptor systems. The applicant provides no explanation for the reduced rates.

5. How will the need for a change in pumping rate be determined once the system is actually operating?
6. Will pumping ^{recovered water} to the tailings pond increase the head and result in ~~additional~~ a higher seepage rate? Was this considered when the system was designed? Again the gypsum dissolution theory may be important.
7. The applicant should provide completion information on all monitor wells associated with the system so that they can be permitted as well.
8. WAO Rules and Regulations require that the annular space of all wells be sealed with impervious material to protect the groundwater from contamination by surface water inflow or mixing with shallow subsurface water. The interceptor well detail (Sheet 12) does not indicate a surface seal.

9. The proposed monitoring plan was acceptable to the WAD. A reporting schedule should be finalized for this ~~facility~~ monitoring program. I suggest that a ^{groundwater} monitoring report be submitted annually. This report can be incorporated into the annual QAD report provided that WAD receives a separate copy. The groundwater report should include all water level and water quality data, interpretation ~~and~~ graphical presentation, and maps indicating water levels and indicator parameter concentrations from all monitor wells.
10. Any wells which will be plugged and abandoned shall be done so in accordance with WAD Rules and Regulations Chapter II, Section 70.
11. ~~Pages~~ On page 5-22 of the report it is stated that it is not possible to describe the lateral extent of pond water migration without further study. The lateral extent and nature of groundwater contamination must be defined so that the effectiveness of the interceptor system and the potential clean-up can be evaluated.

12. All monitoring and recovery wells must also be permitted by the Wyoming State Engineers Office.

cc Kim Clarkin, LAO

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Texasgulf Northern and Southern Groundwater Interceptor Systems

ENGINEER: John C. Spalding and Joseph J. Kulikowski
CH2M Hill The Earth Technology Corp.
2510 Red Hill, Suite A 3777 Long Beach Boulevard
Santa Ana, CA 92705 Long Beach, CA 90807

OWNER: Texasgulf Chemicals
ATTN: Paul Hynes
P.O. Box 100
Granger, WY 82934

WATER QUALITY DIVISION REFERENCE NUMBER: 86-19R

REVIEWING ENGINEER: Jack Bedessem and Kate Laudon

DATE OF REVIEW: October 21, 1986

ACTION: Not authorized.

COMMENTS:

The Remedial Investigation and Design Report for Texasgulf's groundwater interceptor systems/wastewater facility has been reviewed. The report seemed to be very well written and thorough. To aid in our understanding of the investigation and design methods, the following items need to be addressed:

1. Three complete sets of the final plans, specifications and design report need to be submitted prior to issuance of a permit.

(a) The technical specifications need to be signed by a registered Wyoming Professional Engineer.

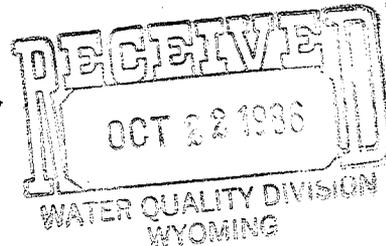
(b) An application for "Permit to Construct" needs to be completed and submitted with the plans.

2. On page 5-22 of the report it states that it is not possible to describe the lateral extent of pond water migration without further study.

(a) The lateral extent and degree of groundwater contamination needs to be defined so that potential clean up can be evaluated.

(b) Provide documentation that the purchases or leases of the land surface effected by the groundwater contaminate plume is adequately controlled.

3. All wells which have been or are to be plugged in relation to this investigation and facility design shall be done in accordance with Water Quality Rules and Regulations, Chapter XI, Section 70. Provide documentation to this office concerning the plugged and abandoned wells.



PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 86-076

STRAUSER PIT SEDIMENT PONDS
(Name of Facility)

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

J. D. Pelesky Construction Co., Inc.

P.O. Box 1084

Sheridan, Wyoming 82801

to construct, install, or modify a sediment pond facility according to the procedures and conditions of the application No. 86-076. The facility is located in Section 24, T.57N., R.86W., 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.

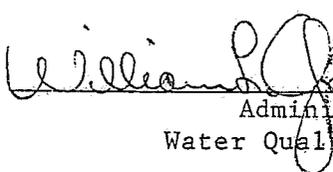
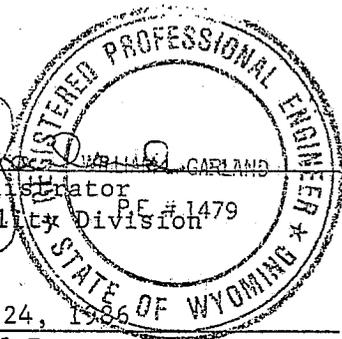
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

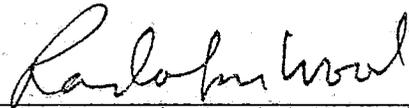
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


WILLIAM GARLAND
Administrator
Water Quality Division
PE # 1479




Director
Department of Environmental Quality

March 24, 1986
Date of Issuance

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

xc: Thomas Barker
Centennial Engineering
Sheridan, WY 82801

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-077

Encampment Water Intake & Pipeline
(Name of Facility)

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

Town of Encampment

P O Box 5

Encampment, WY 82325

to construct, install, or modify a municipal public water supply - infiltration system, grade control structure, and raw water pipeline facility according to the procedures and conditions of the application No. 86-077. The facility is located in S10, 11, and 15, T14N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

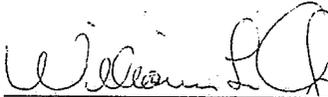
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

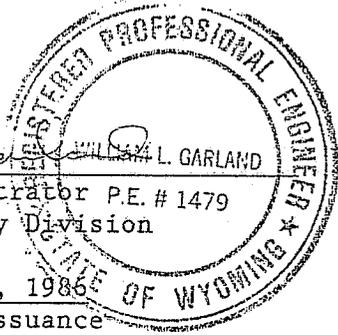
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

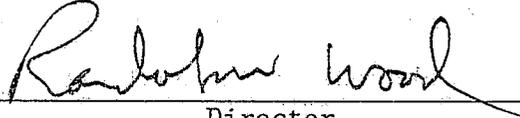
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
March 31, 1986
Date of Issuance




Director
Dept. of Environmental Quality

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

cc: Theodore D. Coyer, P.E.
Probity Engineering
1111 East Lincolnway
Cheyenne, WY 82001

PERMIT TO CONSTRUCT

Permit No. 86-078R

- New
- Renewal
- Modified

Mountain View Addition, Phase I
(Name of Facility)

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

Brooks Water and Sewer District

P O Box 2080

Mills, WY 82644

to construct, install, or modify a public water distribution facility according to the procedures and conditions of the application No. 86-078R. The facility is located in Section 1, 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.

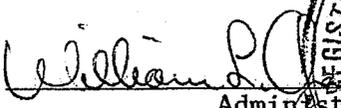
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

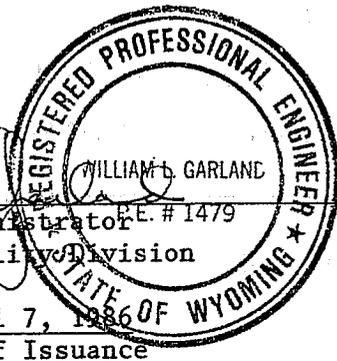
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

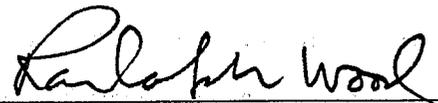
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 7, 1986
Date of Issuance




Director
Dept. of Environmental Quality

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

cc: Roy Prior
HNTB
907 North Poplar #250
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

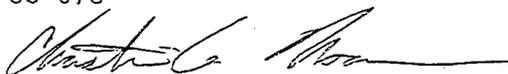
PROJECT: Mountain View Addition, Phase I

ARCHITECT OR ENGINEER: Roy E. Prior, HNTB
907 North Poplar #250, Casper, WY 82601

APPLICANT: Brooks Water & Sewer District
P. O. Box 2080, Mills, WY 82644

WATER QUALITY DIVISION REFERENCE NUMBER: 86-078

REVIEWING ENGINEER: Christian G. Norman



DATE OF REVIEW: March 25, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. It should be noted on the plan/profile sheet where water/sewer main conflicts may exist (STA 11 + 55 and STA 20 + 15). The note should reference the special provision section for construction method.
2. The plan/profile sheet should show any reducers required (STA 13 + 40 and STA 23 + 30). Are the reducers, crosses and tees included in the unit price for the water pipe? If not, these need to be included in the bid schedule.
3. How will abandonment of existing watermains be accomplished?

pjb

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

6-12
06-20-86

Date of Issuance



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

Rodolph Wood

Director
Dept. of Environmental Quality

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

name

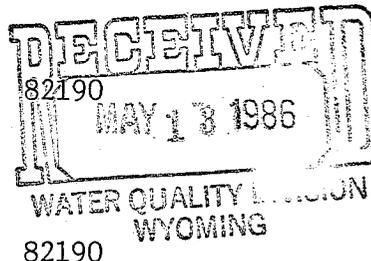
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Canyon Village Wastewater Treatment Plant

ENGINEER: Richard Engle
P.O. Box 168
Yellowstone National Park, WY



OWNER: National Park Service
P.O. Box 168
Yellowstone National Park, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 86-80R

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

DATE OF REVIEW: May 12, 1986

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. Identify pipe material for chlorination system on the drawing. This can be done by note. Section 21 in Chapter XI identifies the pipe material to be specified.
2. Specify backflow preventor on the drawing and note where it is to be installed.
3. Specify self-contained breathing apparatus and mounting location on the drawing.
4. Provide detail or add note to the drawing requiring the exhaust fan duct work to intake air from near the floor.

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.

SG/jw
cc: Plans (3)
File (2)

ABC

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

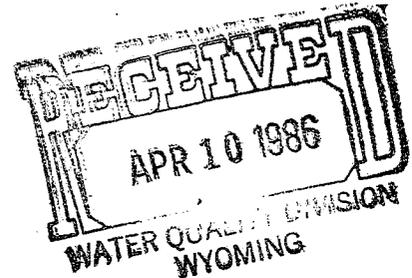
Norma

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

PROJECT: Canyon Village Wastewater Treatment Plant

ENGINEER: Richard Engle
P.O. Box 168
Yellowstone National Park, WY 82190

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



WATER QUALITY DIVISION REFERENCE NUMBER: 86-80

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

DATE OF REVIEW: April 3, 1986

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. Provide sizing criteria and equipment specifications to verify that the following requirements will be met:
 - a. Feeders are sized to provide the minimum dosage at the minimum flow rate and the maximum dosage at the maximum flow rate.
 - b. Capacity for effluent disinfection with the largest unit out of service.
 - c. Number of feeders will permit feeding chemicals over the range of required dosage while only varying a single feeder over a 10:1 range.
 - d. Maximum withdrawal rate of gaseous chlorine will not exceed 40 lbs/day.
 - e. Storage for 30 days of chemical supply has been provided.
2. Provide piping material specifications.
3. Provide specifications for backflow preventor. Backflow preventor shall be an approved reduced pressure zone type.
4. Emergency breathing apparatus must be located at this site. Explain how this requirement is being met.

AC

Review of Plans & Specs.

Ref. No. 86-80

Page Two

5. Instruction manuals for all elements of the disinfectant storage, preparation and application system shall be provided. These instruction manuals shall describe each component of the system, and provide a complete discussion of the operation and maintenance requirements.

6. Exhaust fan is to exhaust from near the floor. Provide necessary details to insure proper installation.

7. Provide piping schematic. All water fixtures in the laboratory shall be provided with reduced pressure zone backflow preventors. Show where backflow preventors are to be installed.

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.

SG/jw

copy: Plans (3)

File (2)

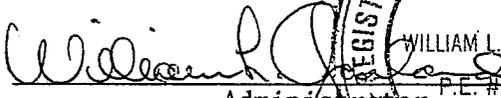
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

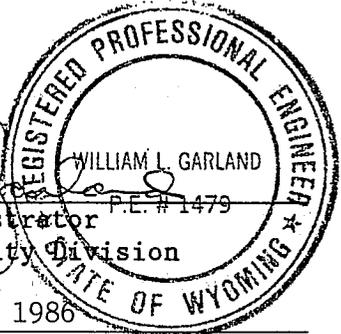
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

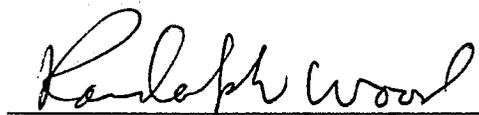
AUTHORIZED BY:



WILLIAM L. GARLAND
P.E. # 1479
Administrator
Water Quality Division
May 19, 1986

Date of Issuance





Director
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Madison Wastewater Plant

ENGINEER: Richard Engle
P.O. Box 168
Yellowstone National Park, WY 82190

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

WATER QUALITY DIVISION REFERENCE NUMBER: 86-81

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

DATE OF REVIEW: April 4, 1986

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. Provide design flow data and blower sizing computations used in design.
2. Specify blower pressure requirements.
3. Specify which Enviroquip Diffuser is to be provided.
4. Fixed hatches should be removed to provide for venting of digester.
5. Provide dimensions of digester. Dimensions on "As Constructed Drawings" cannot be read.
6. I recommend a valve be installed in the line to each diffuser so a diffuser can be taken out of service while the others are still operating.
7. Describe how supernatant is to be drawn off and returned to the headworks.
8. Provide description of how digester is to be operated. This should include decanting, sludge wasting, drying bed operation, sludge disposal, etc.
9. A standby blower must be provided in case the blower goes down. This could be accomplished by maintaining a spare blower.
10. Provide description of how percolation ponds will be operated.

AC

Review of Plans & Specs.

Ref. No. 86-81

Page Two

11. Percolation ponds are currently not accepting the total wastewater volume. Explain the modifications to be made that will enhance the percolation rates.

12. Consider providing by-pass to Pond #2. Algae blooms carrying over from Primary Pond may be sealing the pond bottoms. It may be better at times during the summer to by-pass the Primary Pond.

13. Provide percolation data to help substantiate that percolation ponds will be adequate to dispose of the wastewater.

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.

SG/jw

copy: Plans (3)

File (2)

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-082
SEE SPECIAL CONDITIONS

State Highway #377 Reconstruction
(Name of Facility)

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

Pacific Power and Light Company
Idaho Power Company
Jim Bridger Power Plant
P. O. Box 158
Point of Rocks, WY 82942

to construct, install, or modify a an evaporation pond/road dust control-compaction facility according to the procedures and conditions of the application No. 86-082. The facility is located in Sections 25, 26, 35, and 36, T21N, R101W, and Section 3, T20N, R101W in the County of Sweetwater, 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.

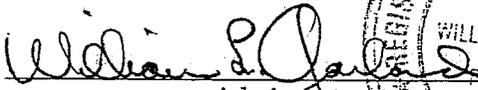
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

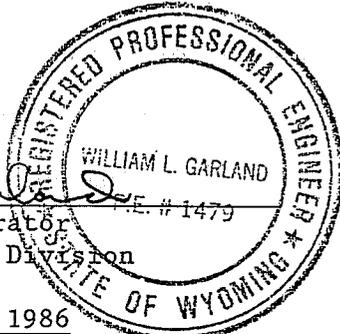
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

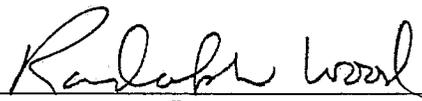
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division



April 18, 1986
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 1,500,000 gallons of evaporation pond wastewater on the reconstruction of 0.5 miles of county road adjoining the Jim Bridger Power Plant at a rate of 50,000 gallons per day, as needed for compaction and dust control.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 86-082

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.
4. The district engineer at the DEQ district office in Lander (332-3144) will be informed of the date of the first pond water use for purposes of field inspection.

cc: Jack Bedessem, Lander

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-083
SEE CONDITIONS ON BACK

Federated Insurance Worland Hydrocarbon Spill Investigation
(Name of Facility)

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

Jerry Rick

Twin City Testing

662 Cromwell Ave.

St. Paul, MN 55114

to construct, install, or modify a network of 20 monitoring wells facility according to the procedures and conditions of the application No. 86-083. The facility is located in Section 25, T47N, R93W in the County of Washakie, 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.

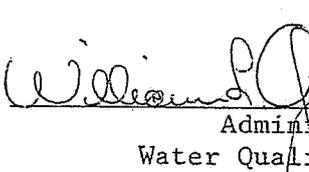
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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: Groundwater Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

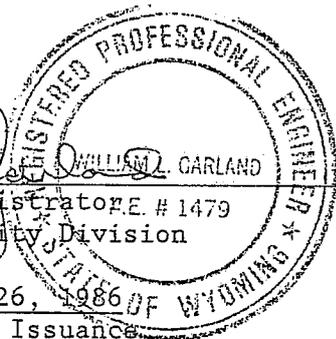
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:



ADMINISTRATOR 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 86-083

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.
6. Drilling shall commence on or before the week of April 14, 1986.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-084
SEE CONDITIONS ON BACK

City of Worland Hydrocarbon Recovery System
(Name of Facility)

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

Bob Shelton, City Engineer

City of Worland

P.O. Box 226

Worland, WY 82401

to construct, install, or modify a hydrocarbon recovery facility according to the procedures and conditions of the application No. 86-084. The facility is located in Section 25, T47N, R93W in the County of Washakie, 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.

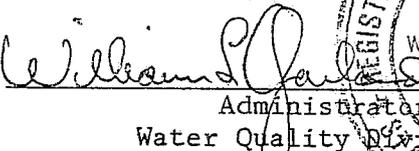
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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 Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

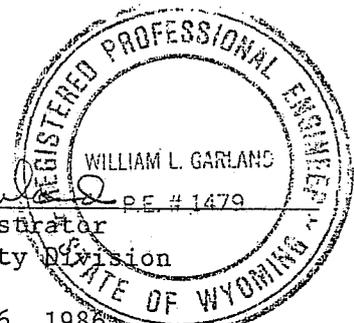
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

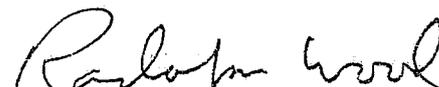
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division





Director
Dept. of Environmental Quality

March 26, 1986
Date of Issuance

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

Conditions to Permit to Construct 86-084

1. 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.
2. The results of any analyses conducted on soil or water removed from these wells shall be provided to the department.
3. All wells will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations.
4. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
5. The department will be notified prior to the disposal of any fluids from the hydrocarbon recovery wells. Any water or gasoline removed from the hydrocarbon recovery well will be disposed of properly. The water will be analyzed for the following dissolved constituents: benzene, toluene, xylene, ethylbenzene, and ppm hydrocarbon as gasoline prior to the discharge of water to any storm sewer and the results sent to the department. The water may be directly discharged to the sewer without being analyzed for dissolved constituents.



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 31, 1986

Town of Sinclair
P. O. Box 247
Sinclair, WY 82334

RE: Application for a permit to construct water intake structure

Dear Sir:

A permit to construct is not required for the improvements to the water intake structure. No permit is required because no construction or modifications are being done to the actual intake. The project entails mainly repair of damage and would be considered maintenance.

If you have any questions, please contact this office.

Sincerely,

Christian G. Norman
Engineering Evaluator

CGN/pjb
Enclosures

plans returned pb

cc: Thomas Norman, WQD
86-085 file

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-086RR

South Fork, 3rd Filing
(Name of Facility)

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

William J. Edwards

P.O. Box 2665

Cheyenne, WY 82003

to construct, install, or modify a municipal water distribution and wastewater collection facility according to the procedures and conditions of the application No. 86-086RR. The facility is located in Section 20, T13N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

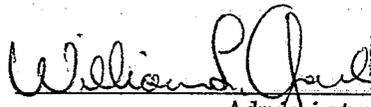
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

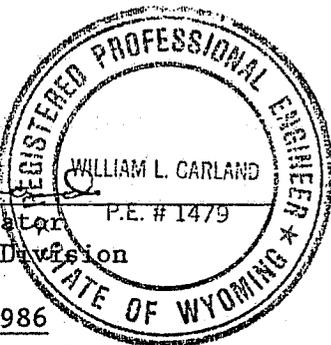
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

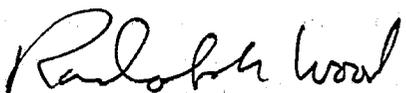
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


Administrator P.E. #1479
Water Quality Division
May 9, 1986
Date of Issuance




Director
Dept. of Environmental Quality

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

cc: Joseph E. Kub
1780 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: South Fork MHP, 3rd Filing

ARCHITECT OR ENGINEER: Joe Kub, Engineering Consultant
1780 Westland Road, Cheyenne, WY 82001

APPLICANT: William Edwards
P O Box 2665, Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: 86-086

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

DATE OF REVIEW: May 1, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Although it may be a mute point, a different occupancy rate was used for designing the sewer lines versus the water lines. Why was this?
2. The South Cheyenne Water and Sewer District specifications are not authorized by DEQ as standard specifications. If you wish to reference them, they must be submitted for review.
3. If individual meters are to be used, they should be shown on the service connection detail.
4. The curb stop is not shown on the service connection detail as being below frostline.
5. A blowoff is still going to be required at the end of the water line in Avenue B-2. The Water Quality Division has no assurance that the main will be properly disinfected when the line is connected to in the future. Also, you are not proposing to pressure test the line which is a requirement. Also, the chlorine efficiency dissipates with time and the tablets may be ineffective in the future.
6. The plans should show that the water line will have to be raised in the area of Avenue B-2 in order to meet the 18-inch separation between the water and sewer. If the water line is raised, there may be a freezing problem with only four foot of cover.

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: South Fork MHP, 3rd Filing

ARCHITECT OR ENGINEER: Joe Kub, 1780 Westland Road
Cheyenne, WY 82001

APPLICANT: William J. Edwards, P O Box 2665
Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: 86-086

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

DATE OF REVIEW: March 31, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An engineering design report was not submitted as required by Chapters XI and XII.
2. The Wyoming Public Works Standard Specifications are not a complete set of specifications. Specific items are left unidentified and must be called out for each project. Please refer to the 'guide' which is attached to the 'standard specifications'.
3. Thrust blocks are not shown on the water lines.
4. Profiles of the water line are not shown for Division Avenue and Avenue B-2.
5. How will the water be metered for billing purposes?
6. The type of pipe for the typical water service was not specified.
7. The curb stop for the service connection must be below frost penetration.
8. A blowoff is required on the south end of the water line in Avenue B-2. This is necessary to flush and disinfect the line.
9. Each water/sewer main crossing must be specified as to whether special construction is required or if the separation distance will be maintained.
10. Has South Cheyenne Water and Sewer District reviewed and approved the utilities or have they just approved the plat?

pjb



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 11, 1986

Mr. Bob Palmer
4218 Ridge Road
Cheyenne, WY 82001

RE: Palmer's Auto Service, DEQ/WQD Ref. No. 86-087

Dear Mr. Palmer:

Your 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 and Regulations, must be followed.

Sincerely,

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

WLG/TSN/nc

Review of Plans and Specifications

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

PROJECT: Palmer's Auto Service

ARCHITECT OR ENGINEER: Joseph E. Kub, 1780 Westland Road
Cheyenne, WY 82001

APPLICANT: Bob Palmer, 4218 Ridge Road
Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 86-087

REVIEWING ENGINEER: Christian G. Norman



DATE OF REVIEW: March 31, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application for a permit to construct is required.
2. The building sewer should be at least 50 feet from the well. See Chapter XII, Section 9 b(B).

pjb

4-88

PERMIT TO CONSTRUCT

New

Permit No. 86-088R

Renewal

Modified

B R Griffin Truck Stop
(Name of Facility)

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

B R Griffin

P O Box 10128

Lubbock, TX 79408

to construct, install, or modify a municipal water distribution line and sewer collection line facility according to the procedures and conditions of the application No. 86-088R. The facility is located in S21, T21N, R87W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

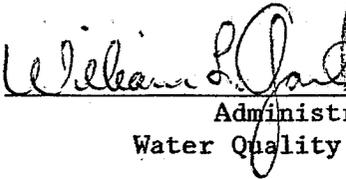
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

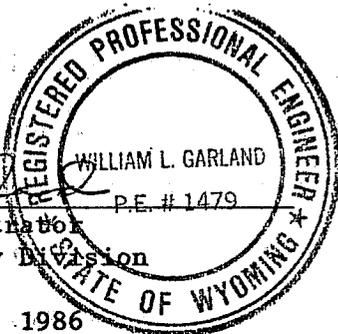
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

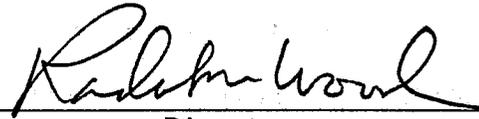
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division





Director
Dept. of Environmental Quality

April 23, 1986
Date of Issuance

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

cc: Charles E. Bartlett, PE
Robert Jack Smith & Assoc
P O Box 1104
Rawlins, WY 82301

Review of Plans and Specifications

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

PROJECT: B.R. Griffin Truck Stop, Carbon Co.

ARCHITECT OR ENGINEER: Charles E. Bartlett, Robert Jack Smith & Assoc., Inc.
P.O. Box 1104, Rawlins, WY 82301

APPLICANT: B.R. Griffin, P.O. Box 10128
Lubbock, TX 79408

WATER QUALITY DIVISION REFERENCE NUMBER: 86-088

REVIEWING ENGINEER: Christian G. Norman

DATE OF REVIEW: April 4, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. It would be helpful to have a site plan drawing, showing the location of the facility and the approximate locations of the water/sewer mains.
2. What is the potential for future service connections on the water main? If it is probable that there will be service connections along the main, valves will be required every 800 feet per Chapter XII, Wyoming Water Quality Division Rules and Regulations.
3. Provide verification of acceptance of wastewater and agreement to provide water from the City of Rawlins.
4. Section 301.08 A(2)(b) of the specifications should read the same as Section 401.05 A(2)(6).

CGN/nc

PERMIT TO CONSTRUCT

PERMIT NO. 86-089RRRRRR
See Special Conditions

- New
- Renewal
- Modified

Texaco Service Station

This permit hereby authorizes the applicant:

Ed Mihalek
P O Box 15729
Chevenne. Wvoming 82003

to construct, install or modify commercial subsurface wastewater treatment and disposal according to the procedures and conditions of the application number 86-089RRRRRR. The facility is located in E1/2, NE1/4, S1~~2~~4, T13N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

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

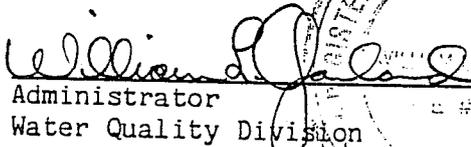
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

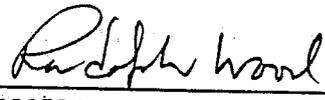
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

1-27-87
Date of Issuance

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

Conditions to Permit to Construct #86-089RRRRRR

- 1) The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The 201 Facilities Plan Final Report: City of Cheyenne, South Cheyenne Water and Sewer District and Laramie County 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.
- 2) The permittee shall notify representatives of the Laramie County Health Department 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. The authorized representative in your area can be contacted at the following address:

Laramie County Environmental Health
1700 Snyder Ave.
Cheyenne, WY 82001

cc: Laramie County Health Department
/ Donald M. Hopkins

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Texaco Service Station, Laramie Co.

ARCHITECT OR ENGINEER: Donald Hopkins, dm Hopkins & Associates,
216 East 17th Street, Cheyenne, WY 82001

APPLICANT: Ed Mihalek,
P O Box 15729, Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: 86-089RRRRR

REVIEWING ENGINEER: Thomas S. Norman *TBN*

DATE OF REVIEW: December 16, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. The Water Quality Division still has not received a cost analysis showing that on-site treatment is more cost-effective than connecting to the Cheyenne Regional Wastewater Treatment facility.
2. The depth to seasonal groundwater determination is inadequate. The test hole was dug in late fall and this does not represent the seasonal high level. However a trained soils person could probably determine this level from viewing the test hole you dug.
3. The septic tank cannot be round. It must have a 2:1 length to width ratio.
4. Because of the unlevel terrain, a specific grade should be identified for either the drainfield pipe invert or the bottom of the stone.

nc

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: College Drive Texaco, Laramie Co.

ARCHITECT OR ENGINEER: Jonathan Jones, Wright Water Engineers, Inc.
2490 West 26th Ave., Suite 55A, Denver, CO 80211

APPLICANT: Nick Hartsook
1640 W. 18th, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 86-089

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

DATE OF REVIEW: May 1, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Your conclusion on the groundwater mounding are incorrect. With the bedrock at only 12 feet deep (6182), this volume of wastewater will create a groundwater mound on top of the bedrock. This can be estimated from Figure 3 of our regulations. These tables are based on average daily flow conditions which are 0.6 times the peak flow. Therefore your ADF is 1800 gpd (3000 gpd x .6). Since there is no groundwater on this bedrock, the saturated thickness is 0. Thus the estimated groundwater rise is 7.0 feet above the bedrock (6189).

The regulations require a 3 foot separation of unsaturated soil between the bottom of the drainfield to the top of the mound. Therefore, the bottom of the drainfield has to be at least at elevation 6192.

Your plan shows the drainfield around elevation 6186 which is not acceptable.

2. It is not acceptable for the car wash water and the floor drains to drain as surface water unless the facility obtains a permit to discharge. If this is the current practice, the facility is in violation of the Environmental Quality Act and the situation needs to be remedied as soon as possible. Failure to correct this situation could result in enforcement action.
3. The previous review forgot to mention that this facility is within the Cheyenne wastewater service area. Before the Water Quality Division can issue a permit, you will need to obtain an exemption from connecting to the Cheyenne regional wastewater treatment plant. Please contact the County Planning Office for this exemption.

TSN/nc

RF

Review of Plans and Specifications

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

PROJECT: Hartsook Texaco Station

ARCHITECT OR ENGINEER: Jonathan E. Jones, Wright Water Engineers, Inc.
2490 West 26th Avenue, Suite 55A, Denver, CO 80211

APPLICANT:

WATER QUALITY DIVISION REFERENCE NUMBER: 86-089

REVIEWING ENGINEER: Christian G. Norman *by TBN*

DATE OF REVIEW: April 7, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Three copies of plans and specifications are required, only one set was submitted.
2. An application for a permit to construct is required. Form is enclosed.
3. What is the depth to groundwater and how thick is the saturated zone?
4. An estimate of the groundwater mound created should be made.
5. How is the car wash and floor drain water disposed of?
6. Clarification is needed regarding Figure 2 of the analysis by Chen and Associates.
 - a. Is the implied elevation 6160'-6185'?
 - b. Profile of hole 1 indicates bedrock at 81. What does this mean? The same question arises for test pit 2.

pjb

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 86-090
SEE CONDITION

Thomas Monitoring Wells
(Name of Facility)

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

Mr. Dean Thomas

Box 776, RFD No. 2

Heber City, Utah 84032

to construct, install, or modify groundwater monitoring wells facility according to the procedures and conditions of the application No. 86-090. The facility is located in Section 23, T.55N., 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.

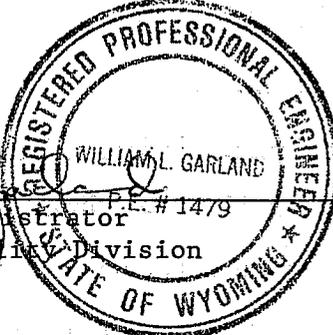
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:



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





Director
Department of Environmental Quality

April 2, 1986
Date of Issuance

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

CONDITION

The Sheridan Water Quality Division will be notified when the wells are to be abandoned. The wells will be plugged under the supervision of personnel from that office.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 86-091

IRVINE PIT SEDIMENTATION PONDS
(Name of Facility)

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

Reeves, Inc.

P.O. Box 610

Buffalo, Wyoming 82834

to construct, install, or modify a sedimentation ponds facility according to the procedures and conditions of the application No. 86-091. The facility is located in Section 16, T.51N., R.82W., in the County of Johnson, in the State of Wyoming.

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

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

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

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.

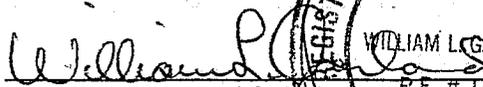
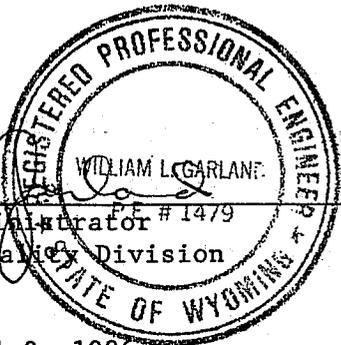
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

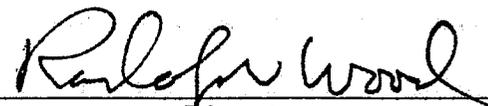
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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. # 1479
Water Quality Division



Director
Department of Environmental Quality

April 2, 1986
Date of Issuance

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

xc: Keith Neustel
Grizzly Engineering
P.O. Box 1004
Buffalo, WY 82834

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.

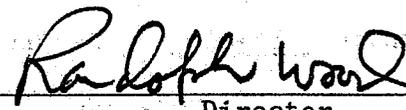
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 7, 1986
Date of Issuance

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

CONDITION ON PERMIT

Upon completion of the yield and drawdown tests a report shall be submitted to the Lander District Office with the results. The report shall verify that the requirements in Articles (b)(i) and (b)(ii)(A) of Section 9 in Chapter XII of the Water Quality Rules and Regulations are satisfied.

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

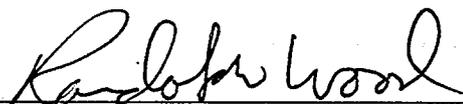
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
May 16, 1986
Date of Issuance


Director
Dept. of Environmental Quality

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

herma

REVIEW OF PLANS AND SPECIFICATIONS

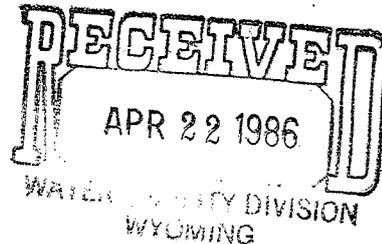
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Skyline Street Sewer Extension

ENGINEER: Phil Essington
Rio Verde Engineering
P.O. Box 67
Pinedale, WY 82941

OWNER: Town of Pinedale
P.O. Box 709
Pinedale, WY 82941



WATER QUALITY DIVISION REFERENCE NUMBER: 86-93

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

DATE OF REVIEW: April 15, 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. A letter is required from the Town of Pinedale stating that there is adequate capacity in the affected downstream collection system and treatment facility.
2. In the cover letter, a statement was made that all materials and construction will be in accordance with the Wyoming Public Works Standard Specifications. This statement should be included as a general note on the plan sheets.
3. The section of sewer between MH E-7 and MH E-8 is designed at a slope of $S = 0.003$. The minimum allowable slope for an 8" diameter line is $S = .004$ (WWQR&R, Part B, Section 9C).
4. The section of sewer between MH E-2 and MH E-3 is designed at a slope of 38%. The section between MH E-4 and E-5 is at a slope of 30%. The WWQR&R, Part B, Section 9C requires the use of concrete anchors on all sewer pipes installed at a slope in excess of 20%.
5. The detail on the fill section between MH E-2 and MH E-3 does not define the depth of cover over the sewer pipe. Please verify that adequate cover will be provided to protect the integrity of the pipe and ensure insulation from freezing.
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.

lc

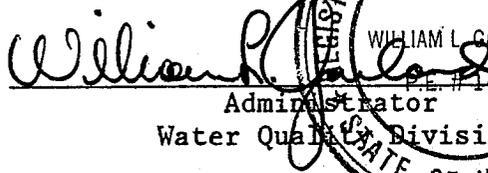
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING
May 20, 1986
Date of Issuance


Director
Dept. of Environmental Quality

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

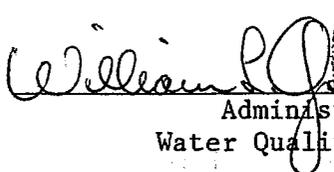
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

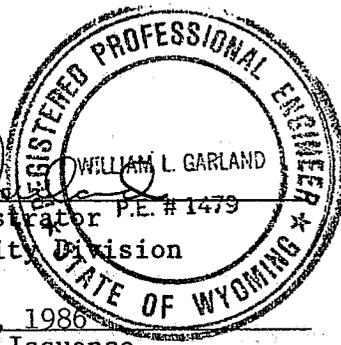
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

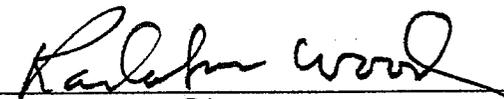
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


Adminisrator P.E. #1479
Water Quality Division
April 24, 1986
Date of Issuance




Director
Dept. of Environmental Quality

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

****CONDITION ON PERMIT****

Connection to the water system will not be allowed until the entire water supply system has been approved by DEQ/WQD.

honda

REVIEW OF PLANS AND SPECIFICATIONS

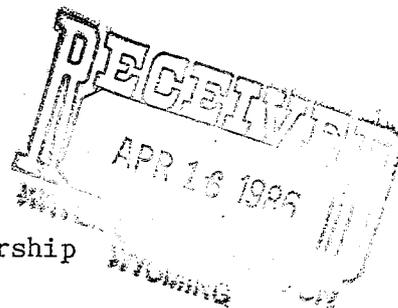
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Teton Pines Water and Sewer Extension -
Timbers and Meadows West

ENGINEER: Jorgensen Engineering
P.O. Box 1142
Jackson, WY 83001

OWNER: Jackson Hole Racquet Club, Ltd. Partnership
Star Route Box 362A
Jackson, WY 83001



WATER QUALITY DIVISION REFERENCE NUMBER: 86-95

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

DATE OF REVIEW: April 14, 1986

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

General

1. Provide a site plan showing the location of this project in relation to the overall project.
2. Put a north arrow and scale on the plan sheet.

Sewer System

1. Show and identify water lines on the profiles.
2. Where the pumping station serves more than 50 residential units, alternative power shall be provided. Explain how this requirement will be satisfied.
3. An audio alarm must be provided at the lift station in addition to the visual alarm.

Water System

1. The water supply system must be permitted at this time. The requirement for permitting is not the number of units connected but the number of units permitted. With this submittal, the 20 service connection limit is exceeded. (It does not become a public water system which requires regular reporting to EPA until 15 connections are made or at least 25 people are being serviced.)

of Plans & Specs.

No. 86-95
Page Two

2. Sewer lines must be shown and identified on the profiles.

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.

SG/jw

R.7



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
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March 16, 1987

WY Highway Dept.
Attn: Gary Brown
5300 Bishop Blvd.,
Cheyenne, WY 82002-9019

Dear Mr. Brown:

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 are:

Facility name:	Fort Steele Rest Area
DEQ/WQD Reference Number:	86-096R
Engineering Consultant:	Rick Johnston, Gust & Johnston
DEQ/WQD Reviewing Engineer:	Thomas S. Norman
Date of DEQ/WQD Review:	March 11, 1987

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 review engineer receives information concerning the status of this project within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,

Thomas S Norman

Thomas S. Norman
Southeast District Supervisor
Water Quality Division

TSN/can

Review of Plans and Specifications

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

PROJECT: Fort Steele Rest Area, Carbon Co.

ARCHITECT OR ENGINEER: Rick Johnston, Gust & Johnston
2232 Del Range, Cheyenne, WY 82009

APPLICANT: WY Highway Dept., Attn: Gary Brown
5300 Bishop Blvd., Cheyenne, WY 82002-9019

WATER QUALITY DIVISION REFERENCE NUMBER: 86-096R

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

DATE OF REVIEW: May 8, 1986

ACTION: AS-BUILTS NOT AUTHORIZED

COMMENTS:

1. Documentation was not provided that this treatment system would meet the drinking water standards. In talking with the Colorado Health Department, this type of system would not be allowed where the raw water turbidity exceeds 5 NTU. The North Platte River routinely exceeds 100 NTU. This type of treatment system seems inappropriate for this application.
2. Colorado also stated that the rapid mixing of the polyelectrolyte was critical. A mixing device with a G factor of 3000 is necessary for proper mixing.
3. The bypasses will have to be physically removed.
4. Dewco's response to the filter flow rate stated a 3.2 gpm/s.f. flow rate. However, based on a 2 foot diameter filter and a 15 gpm flow, the filter rate is 4.8 gpm/s.f.
5. A turbidimeter must be installed on the effluent. The backwash must be initiated when turbidity exceeds 1 NTU. This is in addition to the filter loss requirement.
6. It is unacceptable to use raw water for backwashing. Backwash must be filtered and chlorinated.
7. A detailed piping diagram was not submitted.
8. The two hours of chlorine contact time is required on the finished water not the raw water.
9. Since flocculation is so critical to this process, lab equipment must be available to perform jar tests.
10. An Operation and Maintenance Manual is required prior to start-up.
11. This system continues to be in violation. Timely progress is still necessary.

TSN/nc

Review of Plans and Specifications

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

PROJECT: Fort Steele Rest Area, Carbon Co.

ARCHITECT OR ENGINEER: Rick Johnston, Gust & Johnston
2232 Del Range, Cheyenne, WY 82009

APPLICANT: WY Highway Dept., Attn: Gary Brown
5300 Bishop Blvd., Cheyenne, WY 82002-9019

WATER QUALITY DIVISION REFERENCE NUMBER: 86-096

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

DATE OF REVIEW: April 9, 1986

ACTION: AS-BUILTS NOT AUTHORIZED

COMMENTS:

1. Design information was not submitted justifying the flow rates, technical justification for the type of treatment, unit process design criteria, waste generation and volumes, basic operation procedures, etc. (as required in Chapter XII, Section 6).
2. Since the Water Quality Rules and Regulations specifically do not allow pressure filters for surface waters, the applicant will have to justify this application. Is this system approved by the National Sanitation Foundation (NSF)?
3. Bypasses are not allowed on water treatment systems. The flow detail shows three bypasses.
4. What is the reason for the carbon filter?
5. How is the flow controlled through the filters so that it does not exceed 15 gpm?
6. Since our standards do not address pressure filters, the 4.8 gpm/s.f. filtration rate needs to be justified.
7. How is it determined when to backwash the filters? This should be based on both head-loss and turbidity.
8. There are boxes beside each filter and no internal piping is shown. Also, it is not shown where the influent, effluent, and backwash connections are.
9. Is the backwash water raw or filtered?
10. Is there a filter to waste cycle after each backwash?
11. Since one of the pitfalls of pressure filters is the inability to inspect the media, is there access ports to routinely inspect the media?

-
12. There should be some finished water storage to provide water during backwash cycles and also to provide the minimum two hours of detention time for chlorine contact.
 13. What was the design basis for sizing the waste pond? Is it complete containment? Is it below grade? What are the side slopes? What is the other piping going into the pond? What are the pond dimensions and capacity?
 14. These as-built drawings show that a public water supply was modified and that a wastewater system was constructed without a permit. The failure to obtain the proper permits is a violation of the Environmental Quality Act. The Wyoming Highway Department is hereby notified that they are in violation of the state statutes and measures must be taken to remedy the violation. Consistent and timely progress must be made to avoid enforcement action.

TSN/nc

PERMIT TO CONSTRUCT

New

Permit No. 86-097R

Renewal

Modified

Coffman Avenue & Skyridge Road Watermain Installation
(Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify a municipal water distribution line facility according to the procedures and conditions of the application No. 86-097R. The facility is located in Section 17, 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.

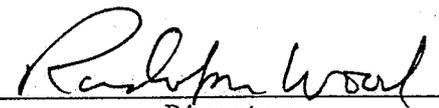
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
REGISTERED PROFESSIONAL ENGINEER
No. 1479
STATE OF WYOMING
Administrator
Water Quality Division
May 1, 1986
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Daved W. Hill
Casper Board of Public Utilities
200 North David
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: Coffman Ave. and Skyridge Road Watermain Extension, Natrona Co.

ARCHITECT OR ENGINEER: David Hill, Casper Board of Public Utilities
200 North David, Casper, WY 82601

APPLICANT: Same

WATER QUALITY DIVISION REFERENCE NUMBER: 86-⁰⁹⁷~~097~~

REVIEWING ENGINEER: Thomas S. Norman *TSN*

DATE OF REVIEW: April 9, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. More information is needed on the design of this suction line. What impact will it have on the existing 8-inch line? Chapter XII, Section 12.(o) has specific requirements for suction lines. Please address them.
2. The 16-inch PVC water main material (UNI-B-11-84) is not equivalent to AWWA C900 pipe. It does not meet the sustained pressure requirements, burst pressure requirements, and surge pressure allowance. Since this pipe is not covered in Chapter XII, it will need to be approved under Section 5 as new technology. Please justify that this is the proper use of this pipe, since it is not equivalent to the AWWA C900 requirements. This may be an appropriate application. More justification is needed.

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

October 28, 1986

Mr. Albert L. Nelson
Nelson Engineering
P.O. Box 1599
Jackson, WY 83001

RE: Town of Glenrock Well No. 2 Test Results, DEQ/WQD Ref. No. 86-098RR

Dear Boots:

We are in receipt of your test results for the above project. We are still waiting for the volatile organic analysis.

Sincerely,

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

Thomas S. Norman
Southeast District Engineer

TSN/nc

8-12-86



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 12, 1986

Mr. A. J. Nelson
Nelson Engineering
P. O. Box 1599
Jackson, WY 83001

RE: Glenrock water storage tank, permit to construct #86-098

Dear Mr. Nelson:

I have reviewed the shop drawings concerning the Glenrock water storage tank. The information and number of copies was sufficient to meet our needs. If you or the owner would like copies with our approval stamp, please submit additional copies for processing.

Sincerely,

Thomas S. Norman

Thomas S. Norman
Southeast District Supervisor

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

MEMORANDUM

TO: Jon Wade, Wyoming Water Development Commission
FROM: Thomas S. Norman, Engineering Area Evaluator *Tom*
DATE: June 9, 1986
SUBJECT: Glenrock Transmission Line, DEQ/WQD Permit 86-098RR

Addendum #1 to the Glenrock Transmission Line has been approved and is acceptable.

pjb

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-098RR
SEE SPECIAL CONDITIONS

Glenrock Water Supply & Transmission Pipeline
(Name of Facility)

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

Town of Glenrock

P O Box 417

Glenrock, WY 82637

to construct, install, or modify a municipal water supply and water distribution system facility according to the procedures and conditions of the application No. 86-098RR. The facility is located in Sections 3 & 10, T32N, R76W; Sections 13, 23, 24, 26, and 35, T33N, R76W; Sections 4, 7, 8, and 18, T33N, R75W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

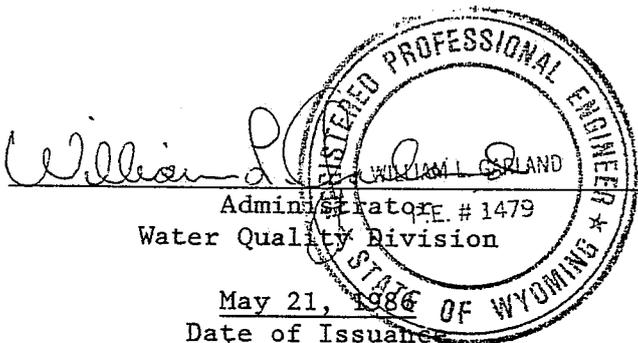
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

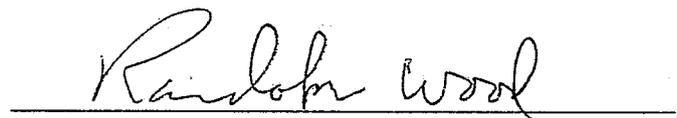
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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 # 1479
Water Quality Division
May 21, 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. Detailed plans and specifications for the control storage tank shall be submitted to the Water Quality Division for their review and authorization prior to the construction of the tank. The design shall meet the requirements of AWWA D100 and the plans shall be signed/sealed by a Wyoming registered professional engineer.
2. The synthetic organic chemicals as identified in the federal Safe Drinking Water Act shall be analyzed for the well water. Results shall be submitted to the Water Quality Division for review and authorization prior to placing the wells in service.
3. An operation and maintenance manual shall be submitted to the Water Quality Division in accordance with Section 16, Chapter XII Water Quality Rules and Regulations. The manual must be acceptable to the Water Quality Division prior to start up.

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

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Glenrock Water Supply & Transmission Pipeline, Converse Co.

ARCHITECT OR ENGINEER: Nelson Engineering
P O Box 1599, Jackson, WY 83001

APPLICANT: Water Development Commission
Herschler Building, Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 86-098R

REVIEWING ENGINEER: Thomas S. Norman *TBN*

DATE OF REVIEW: April 28, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Plans

1. An air release valve is needed at station 7+70 and 18+00.
2. Station 8+00, will the 18-inch minimum separation be maintained between the water and sewer or will other measures be taken?
3. The location of the Conoco Oil Pipeline is not shown on the profiles.
4. Why are the two blowoffs so close together (Station 83+70 and 85+10)?
5. Where do the 1-inch service taps go to?
6. Freezing of the water line will be a problem at Station 288+00.
7. Underground crossings of water ways (greater than 15 feet) require a valve on each side of the water way with the valve closest to the source being located in a manhole. This applies to both Deer Creek and Little Deer Creek.
8. The service connection on sheet 15/42 does not identify that a backflow preventer is required. Why is a backflow preventer being installed?
9. Sheet 22/42: the plans do not show where the sumps in the vaults drain to and also the size of the drainage area. This is also true for the sumps in the pumphouses.
10. The screen on the vent for the well casing cannot be larger than 24 mesh.
11. The fuel oil tank must meet the current EPA leaking underground storage tank (LUST) requirements. Specifications and corrosion protection were not included.
12. Sheet 38 and 39/42: Freezing will be a problem in the flow recorder wet well.

13. The floor of the pumphouse must slope away from the casing at 1/2-inch per foot.
14. The regulations require that where a well penetrates more than one aquifer or water-bearing strata, that every aquifer or strata must be sealed off to prevent migration of water between aquifers. The well logs show that more than one aquifer is being penetrated.

Specifications

1. Specific pipe material was not identified which will carry the gaseous chlorine or the aqueous chlorine solution.
2. Tank
 - a. The latest AWWA standard for welded water storage tanks is D100-1984.
 - b. AWWA D100 is different than most AWWA standards in that it is a design standard rather than a construction specification. As your specification states, the design is being left up to the contractor or manufacturer. Therefore the Water Quality Division has no specific plans or specifications to review to see if the AWWA standard is met. Until construction plans and specifications are received, the Water Quality Division can not authorize the water tank.

In past situations, the applicant has submitted the manufacturer's construction drawings to the Water Quality Division for authorization after the bids have been let. Then the Water Quality Division would review them to see if the regulations had been met. The Water Quality Regulations also require that the plans and specifications for the water tank be signed by a Wyoming registered professional engineer.

3. Well
 - a. Specifications were not included on the disinfection of the well.
 - b. Plumbness and alignment requirements were not identified.
 - c. The development of the well was not adequately detailed. Both AWWA and the Water Quality Division have specific performance standards.
 - d. More detailed information is required on the testing of the well. The pumping rates, drawdown time intervals, and length of test need to be better defined. It appears these decisions have been left to the contractor.
4. It is essential that the chlorinated water from disinfecting the pipes be kept out of the water ways. This will be quite difficult since all the blowoffs are in low areas and drainages. Can you better assure me how this will be done?

General

1. The water quality was not tested for radionuclides and the synthetic organic chemicals as specified in the Safe Drinking Water Act.
2. An operation and maintenance manual is required. Acceptance of this manual is required prior to startup.
3. An application form has not been submitted.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Glenrock Water Supply & Transmission Pipeline

ARCHITECT OR ENGINEER: Nelson Engineering
P O Box 1599, Jackson, WY 83001

APPLICANT: Water Development Commission
Herschler Building, Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 86-098

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

DATE OF REVIEW: April 18, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application form was not submitted.
2. An engineering design report was not submitted in accordance with Chapter III, Section 6 and Chapter XII, Section 6.
3. Because of the importance of the design report in performing my review, a complete review will not be made until the design report is received.

pjb

Enclosure: application form



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
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May 20, 1987

Mr. Gary R. Chase
Bear Creek Uranium
P O Box 2654
Casper, WY 82602

RE: Permit GPC 86-099, seepage control technology

Dear Mr. Chase:

It has come to our attention that the activity authorized by the subject permit has not commenced within one year of the date of authorization (May 13, 1986). Therefore, permit 86-099 is no longer valid.

If you should decide that you want to conduct operations that had been authorized by permit 86-99, obtain a new permit before commencing these operations.

Conducting the proposed operations without a valid permit is a violation and subject to penalty.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/AJM/nc

cc: Robert L. Medlock, Supervisor, Environmental Programs, Rocky Mountain Energy,
10 Longs Peak Drive, Box 2000, Broomfield, CO 80020
Jake Strohman, DEQ/WQD, Cheyenne



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 16, 1986

R L Medlock, Supervisor
Environmental Programs
Rocky Mountain Energy
10 Longs Peak Drive
Box 2000
Broomfield, CO 80020

RE: GPC 86-099

Dear Mr. Medlock:

This letter is prompted by a routine file review.

Even though you have not found it necessary at this time to implement a procedure of drip feeding reagents into seepage control or feeder wells to retard chemical scaling at the Bear Creek Uranium Project in Converse County, Wyoming, as authorized by permit GPC 86-099, if you should desire to drip feed reagents, please note the following:

1. injection activities have not been authorized; authorization will be forthcoming after Rocky Mountain Energy submits an acceptable plan for monitoring the concentrations of reagents downgradient from input/feeder wells;
2. the activity permitted by GPC 86-099 must commence within one year of the date of authorization (May 13, 1986) or the permit is invalid.

Sincerely,

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

A J Mancini
Groundwater Control Supervisor

AJM/pjb



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 7, 1986

Mr. Gary Chase
Rocky Mountain Energy
Bear Creek Uranium Project
P.O. Box 2654
Casper, WY 82602

RE: Permit GPC 86-099, seepage control technology

Dear Mr. Chase:

Enclosed are two copies of the signed permit for the operation of designated wells for the application of various approved reagents to retard chemical scaling in seepage control wells at the Bear Creek Uranium Project in Converse County, Wyoming.

Please note the following:

1. Even though the proposed operation is authorized by the enclosed permit, injection activities cannot begin until authorized by the Water Quality Division Administrator. This authorization will be forthcoming after Rocky Mountain Energy submits an acceptable plan for monitoring the concentrations of reagents downgradient from input/feeder wells (refer to Section C. of the permit, Authorized Operations).
2. Enclosed with this letter are copies of form GPC 7. One completed and signed copy of this form must accompany the submittal of information/reports concerning this permitted activity. This form can be reproduced or additional copies may be requested as needed. The form is to be signed as specified in Section Q. of the permit, Signatories Requirement: by an executive officer of at least the level of vice president, or a duly authorized (in writing) representative.
3. The Administrator of the Water Quality Division or his representative must be notified 48 hours before the injection operation is to commence. Written notification of the date and time of commencement must follow within 7 days of commencement.
4. Prior Water Quality Division approval is required for the use of any reagent not identified in the application.
5. Prior Water Quality Division approval is required for the use of specific reagents in an operational scale control program.

Mr. Gary Chase
May 7, 1986
Page 2

6. Prior Water Quality Division approval is required for the installation and/or utilization of other input/feeder wells.
7. Permittee is required to submit quarterly reports, the first of which will cover the calendar quarter or part thereof during which operations commenced (refer to Section C. of the permit, Authorized Operations).

The enclosed permit neither substitutes for, nor relieves the necessity of obtaining, any other permits or authorizations as may be required.

Sincerely,



William L. Garland
Administrator

WLG/AJM/nc
Enclosures

cc: Robert L. Medlock
Supervisor, Environmental Programs
Rocky Mountain Energy
10 Longs Peak Drive
Box 2000
Broomfield, CO 80020

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE OF WYOMING
GROUNDWATER POLLUTION CONTROL PERMIT
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS
(Permit to Inject)

(X) New

Permit Number:

() Modified

GPC 86-099
UIC Class V

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations Chapter IX (September 4, 1980),

Rocky Mountain Energy
Bear Creek Uranium Project
Attn: Gary Chase
P.O. Box 2654
Casper, WY 82602

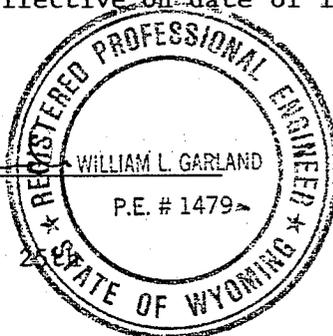
is authorized to operate

designated existing and new wells for the drip feed of approved reagents into seepage control or feeder wells to retard chemical scaling, in the vicinity of Sections 9 and 16, T38N, R73W, Converse County, Wyoming (seepage control technology).

according to procedures and conditions of the application GPC 86-099 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

William L. Garland
Administrator
Water Quality Division
Herschler Building, 122 W. 25th
Cheyenne, WY 82002
Phone: (307) 777-7781



May 9, 1986
Date

Rudolph Wood
Director
Department of Environmental Quality
Herschler Building, 122 W. 25th
Cheyenne, WY 82002

May 13, 1986
Date

A. Discharge (Injection) Zone and Area of Review

The injection zone is the N-sand of the Wasatch formation and the alluvium (N-sand/alluvium receiver as identified in the application, above the ore-sand aquifer as also identified therein) in Sections 9 and 16 of T38N, R73W, in Converse County. The depth of the injection zone is about 70-100 feet below the surface. Applicant reports that the N-sand/alluvium receiver is effectively separated from the ore-sand by an impermeable geologic rock unit.

The area of review extends throughout that portion of the N-sand/alluvium receiver which may be affected by the subsurface discharge, and at a minimum within a radius of 1/4 mile of each utilized input or feeder well.

B. Groundwater Classification

Groundwater in the area of review reportedly varies from 1,000 to 5,000 mg/l TDS and has been impacted by seepage from the tailings pond. Unaffected background water quality reportedly is in the range of 600-1,100+ mg/l TDS (monitor well MW-61). Applicant reports that, with the exception of Bear Creek's pumpback wells, no known user wells are completed into the N-sand or alluvium either within the area of review or in the Bear Creek permit area. Nearby wells (150-300 feet deep) do withdraw water from the Wasatch formation for livestock watering. Groundwater in the N-sand/alluvium is classified as suitable for agricultural (Class II) and livestock (Class III) use, based on the reported background TDS concentrations.

C. Authorized Operations

The permittee is authorized to use existing wells or install new wells for the purpose of dripping several approved chemical control agents into a number of seepage interceptor wells or feeder wells to determine best methods for controlling various types of scaling. If the drip method is ineffective, micro-metering pumps may be substituted.

The scale control test reagents specifically identified in the application are authorized for the proposed research effort, in amounts or concentrations recommended by the manufacturer or distributor. Any unidentified reagents require prior Water Quality Division approval to use.

Prior Water Quality Division approval is required for the use of specific reagents in an operational scale control program.

Testing is authorized on wells in the groups MW-69, MW-69A, MW-69B; MW-44, MW-44A, MW-68; located near the downgradient edge of the tailings disposal area. Other existing wells may be used with prior notification and Water Quality Division approval. Additional feeder wells may be installed and used, with prior notification and Water Quality Division approval.

Verbal requests to modify operations, utilize different existing wells, or install and use new wells will be followed within 7 days by written requests. Such changes, upon written Water Quality Division approval, shall become part of this permit by reference.

It is anticipated that the movement of reagents in groundwater will be prohibited by pumping to control seepage from the tailings pond.

When a pumpback (control) well stops pumping for any reason, the input of reagents to that well or associated feeder wells will immediately cease and not resume until pumping of the control well resumes.

The rates, amounts and concentrations of specific reagents used will be recorded each day, by well. Records will be maintained at the site.

Permittee shall notify the Administrator of the Water Quality Division or his representative, 48 hours before injection is to start. Permittee shall provide written notification within 7 days after injection commences of the date and time of commencement.

Within 30 days following receipt of the issued permit, permittee shall provide the Water Quality Division with a written plan to monitor concentrations of reagents downgradient of utilized input/feeder wells. Injection cannot commence until this plan has been accepted and authorization to commence is provided by the Water Quality Division Administrator. The plan shall be updated by the permittee for any new reagent which the permittee wishes to utilize.

No other use for or by the utilized wells is authorized by this permit.

Permittee shall submit quarterly reports, in addition to any reports required by Section I. of this permit. Quarterly reports are to be submitted within 30 days following end of quarter (Jan/Feb/Mar, April/May/June, July/Aug/Sept, Oct/Nov/Dec) and consist of:

1. Well identification and location, reagents used:
 - a. rates, amounts, concentrations of reagents, when and how used;
 - b. monitoring results to determine effectiveness of reagents used and potential contamination;
 - c. problems, conclusions, future plans.
2. New well installation:
 - a. identification and location (legal description);
 - b. well construction and completion details; dates in use.

3. Operational narrative with appropriate illustrations, tabulations, etc.

The report may be formatted as permittee desires. Each report shall be submitted with a signed Form GPC 7.

D. Proper Operation and Maintenance

The permittee is required to conduct the operation in accordance with statements, representations and procedures presented in the complete permit application and supporting documents, as accepted and approved by the Administrator.

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve permit compliance. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training and adequate laboratory and process controls, including appropriate quality assurance procedures.

The subsurface discharge (injection) authorized by permit shall be consistent with the conditions and content of the permit; any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

E. Entry and Inspection

The permittee shall allow the Administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart

recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.

3. Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurements;
- b. The name(s) of individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. Names of individuals who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of such analyses.

4. The prescribed program for this permitted activity is as follows:

Operating records for input/feeder wells and relevant pumpback/collection wells will be kept by the permittee. Included in these records will be identification of specific reagents used in identified wells and when used (dates and duration), and rates and amounts used; pumpback rates, by wells; shut down times should be documented. Records of water levels and water quality analyses for relevant identified monitor wells should be kept.

Monitoring is required to determine presence and extent of reagents downgradient of input/feeder wells.

G. Requirements for Monitoring the Discharge

Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of confining strata.

Not applicable to this permit.

H. Test Procedures

Test procedures for the determination of water quality parameters and constituents shall be in accord with provisions of Water Quality Rules and Regulations Chapter VIII, Section 7.

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the Administrator as soon as possible of any planned physical alterations or additions to the permitted facility.

3. The permittee shall give advance notice to the Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified elsewhere in the permit.
5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable Groundwater of the State.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable Groundwaters of the State.

A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The Administrator may require the owner/operator to deliver the records to the Administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a Groundwater Pollution Control Permit has been issued by the Department for the proposed operation, and:
 - a. Well construction is complete and the permittee has submitted notice of completion of construction to the Administrator, and

- b. The Administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the Administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
- c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the Administrator.

Subsection I.10. is not applicable for this permit.

11. Annual reports shall be submitted to the Administrator within 30 days following the anniversary date of the permit.
12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the Administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

J. Permit Actions

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to, any of the following:

1. Violation of the permit;
2. Obtaining a permit by misrepresentation or failure of the discharge well or system.

Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.

A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit is issued.

A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in the permittee's discharge, as may be ordered by the Council.

This operation (permit) can be terminated by authority of the Administrator for one or more permit violations.

Public notice of the permit review and request for public comment will be made every 10 years by the Administrator.

The requirement for public notice and comment is not applicable for this permit.

K. Mechanical Integrity

Each discharge well and associated discharge facilities is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

Visual inspections to verify that any and all input/feeder wells are constructed as specified and operating as authorized. Records of well repairs or modifications shall be kept on site.

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical integrity has been restored and permission to continue the discharge has been obtained from the Administrator.

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.

L. Abandonment

The permittee shall notify the Administrator at least 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the Director and follow the procedures prescribed by the Director for plugging and abandonment or the discontinuance of related activities:

For this permit, it is adequate for the permittee to notify the Administrator 30 days before well abandonment, instead of at least 180 days before.

Plugging and abandonment procedures will be implemented upon the permanent discontinuance of any input/feeder well or upon the termination of the useful operation of a well.

Proposed plugging procedures will be submitted in detail and approved by the Water Quality Division before well abandonment.

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the

permitted activity in order to maintain compliance with the permit conditions;

3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;
4. Furnish to the Administrator within a reasonable time, any information which the Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the Administrator, upon request, copies of records required to be kept by this permit.

N. Financial Responsibility

The permittee is required to maintain financial responsibility and resources in form approved by the Director, to close, plug and abandon the discharge operation in a manner prescribed by the Director.

Not applicable for this permit.

O. Special measures the Director finds necessary:

In the event of unauthorized movement of a reagent, the permittee will take immediate corrective action.

The permitted activity must commence within one year of the date of authorization or the permit will be invalid.

P. Special permit conditions:

Pollution or waste which migrates into an aquifer containing a usable groundwater of the State is a violation of the permit.

Mechanical integrity -- operations terminate immediately if mechanical integrity of well or system fails and/or a leak or unauthorized fluid movement occurs.

Q. Signatories Requirement

All reports required by this permit and other requested information shall be signed as follows:

For a corporation -- by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

For a municipality, State, Federal or other public agency -- by either a principal executive officer or ranking elected official; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the described principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
3. The written authorization is submitted to the Administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Administrator prior to or together with any reports or information, to be signed by an authorized representative.

Any person signing a report or other requested information shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification or planned changes or anticipated noncompliance, does not stay any permit condition.

S. Permit Transfer

The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the Department Director.

T. Responsibilities

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.

U. Property Rights

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.

V. Severability

The provisions of this permit are severable, and if any provision of the permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 14, 1986

Mr. Charles Bartlett
Robert Jack Smith & Associates
P.O. Box 1104
Rawlins, WY 82301

RE: Sinclair - Underground Sprinkler System, Ref. No. 86-100

Dear Mr. Bartlett:

Per your letter of April 10, 1986, a permit to construct is not required for the Town of Sinclair's underground sprinkler system provided the double check valve meets the requirements of AWWA C506-78.

Sincerely,

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

Thomas S. Norman
Water Quality Engineer

TSN/nc

cc: Town of Sinclair
P.O. Box 247
Sinclair, WY 82334

ROBERT JACK SMITH
CONSULTING ENGINEERS



& ASSOCIATES, INC.
AND LAND SURVEYORS

P.O. BOX 1104

RAWLINS, WYOMING 82301

1015 HARSHMAN

PHONE (307) 324-5262

JOB NO. _____

86-100

April 10, 1986

Department of Environmental Quality
Water Quality Division
Attn: Mr. Tom Norman
Herschler Building
Cheyenne, WY 82002

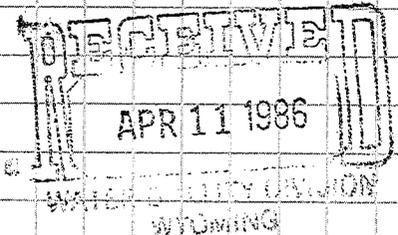
Dear Mr. Norman,

The Town of Sinclair plans to construct an underground sprinkler system in McCulloch Park. A double check valve shall be installed in the system line in accordance with Chapter XII, Section 14 (i)(B)(I) Page 71.

If you should need any further information, please feel free to contact me.

Sincerely,
Robert Jack Smith & Associates, Inc.


Charles E. Bartlett, P.E.



Principals:

MARTIN PEDERSEN

REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS IN WYOMING, COLORADO,
NEW MEXICO, ARIZONA, UTAH, NEVADA, MONTANA, IDAHO, SOUTH DAKOTA AND NORTH DAKOTA

