

10-2-81

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 81-351R

THE EVANSTON RAIL CENTER
(Name of Facility)

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

The Evanston Companies
730 17th Street, Suite 840
Denver, CO 80202

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

facility according to the procedures and conditions of the

application No. 81-351R. The facility is located in

Sec. 19, T. 15N, R. 120W

in the County of Uinta,

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

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

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

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

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

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

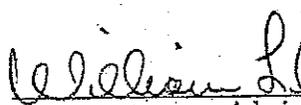
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

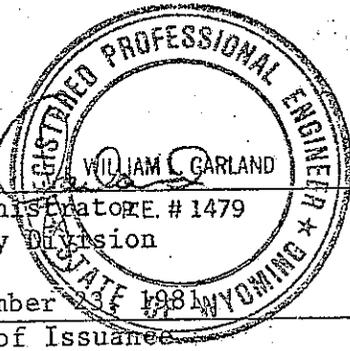
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

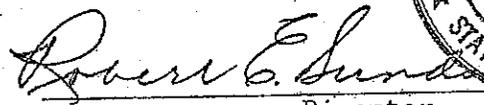
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

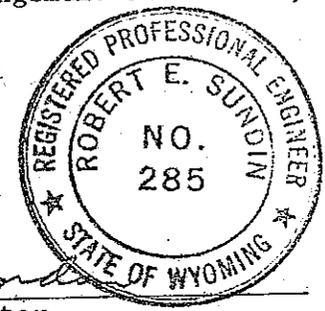
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator, E. # 1479
Water Quality Division
September 23, 1981
Date of Issuance




Director
Dept. of Environmental Quality



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

AB:nb
9/23/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: The Evanston Rail Center

ENGINEER: Uinta Eng. & Surveying
PO Box 746
Evanston, WY 82930
ATT: Kenneth Walker

OWNER: The Evanston Companies
730 17th Street, Suite 840
Denver, CO 80202

WATER QUALITY DIVISION REFERENCE NUMBER: 81-351

REVIEWING ENGINEER: Al Berreth *abt*

DATE OF REVIEW: July 20, 1981

ACTION: Not authorized.

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

1. Please note on the drawings which specifications apply.
2. Please note thrust blocks on fire hydrants.
3. Please note horizontal separation of water and sewer on all drawings.
4. Please detail connections to existing water and sewer and show the location of the existing facilities.
5. Where is the casing to be used and for what? What strength of steel pipe is needed. What are the skid dimensions?
6. A high spot in the line is evident at the intersection of old US Highway 30 and Independence Circle north. A method of bleeding air trapped here is needed.

7. I am aware of at least one other sewage system that is projected to tie into the proposed lift station. What about possible future connections to this system? Can this lift station accomodate any increase in flow?
8. What is the storage capacity of the lift station?
9. Is the lift station in an area prone to flooding? Where is the nearest surface water?
10. The pump must be specified.
11. The pumps need individual running time meters.
12. What about the capacity of the existing lift station? Please have the City of Evanston address this in their letter to us.
13. What type of structure is the wet well? Is this a pre-manufactured system?
14. How are the pumps removed?
15. Please specify interior material, piping, etc.
16. Can the valves be operated without entering the wet well?
17. The force main will need to be identified so as not to be confused with water mains.
18. What future growth is the force main capable of handling?
19. The force main must be buried so as to have six feet of cover over the pipe.
20. Please note on drawings minimum cover on waterlines.
21. A water/sewer line crossing detail needs to be provided.
22. Please submit calculations on the water system.
23. Working pressure must not be above 80 psi. Individual pressure reduces are not acceptable for the entire subdivison.
24. The Evanston City Engineer must review these plans and his comments addressed. This review is not final until those comments have been received.

AB:ch

xc: ✓ Cheyenne DEQ/WQD
Wayne Shepherd
File (4)

Checked

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Ryckman Creek Septic System

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

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

WATER QUALITY DIVISION REFERENCE NUMBER: 81-353

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

DATE OF REVIEW: June 19, 1981

ACTION: Not authorized.

COMMENTS:

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

- 1) What is the depth to the highest known groundwater or impervious layer?
- 2) The following information is needed on the proposed septic tank:
 - a) cross-sectional view
 - b) number of compartments
 - c) type, size and location of access
 - d) material tank is constructed of
 - e) number and type of baffles
 - f) type of tank (i.e., standard, heated or aerated)
 - g) tank coating
- 3) Septic tank inlet and outlet piping must be schedule 40 PVC or cast iron for a minimum distance of five feet on either side of the tank. The plans do not show this.
- 4) What is the distance from the mound to the property boundary?

A, B, C

- 5) The engineering report calls for a mound fill material with an absorption rate of 1.2 gal/ft², which equals 17.4 minutes per inch. This fill material needs to be called out on the plans.
- 6) Mound construction specifications are needed.
- 7) There must be a compacted barrier of clay-type soil around the fill to prevent sewage from seeping out of the side of the fill.
- 8) What is the elevation of the effluent pipe at the siphon? What is the elevation of the distribution laterals?
- 9) There must be six inches of aggregate below the distribution laterals and two inches of aggregate above them. The plans don't show this.
- 10) Cap and top soil depth should be at least two feet.
- 11) An end slope of 17.2 feet and an upslope width of 19.6 feet is required. Remember, Chapter III requires that the finish grade over the bed extend for a full 10 feet beyond the leaching area before tapering off at a 3:1 slope.
- 12) My calculations indicate a mound width of 102.4 feet and mound length of 91.4 feet are needed.
- 13) The manifold must be on top of the laterals so the manifold drains after each use.
- 14) Where does the dosing chamber overflow pipe discharge to?

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

FL:nb

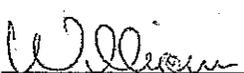
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

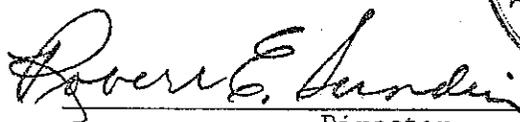
AUTHORIZED BY:


WILLIAM L. GARLAND
REGISTERED PROFESSIONAL ENGINEER
PE #1478
STATE OF WYOMING

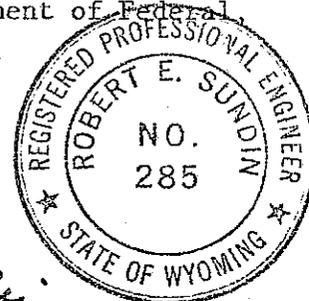
Administrator
Water Quality Division

July 8, 1981

Date of Issuance



Director
Dept. of Environmental Quality



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

FL:ch

11-17-84

PERMIT TO CONSTRUCT

Permit No. 81-354RRRR
SEE SPECIAL CONDITION

- New
 Renewal
 Modified

Rawlin's Water Treatment Plant
(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 potable water treatment plant facility according to the procedures and conditions of the application No. 81-354RRRR. The facility is located in Section 31, T21N, R87W in the County of Carbon, in the State of Wyoming.

This permit shall be effective for a period of three (3) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

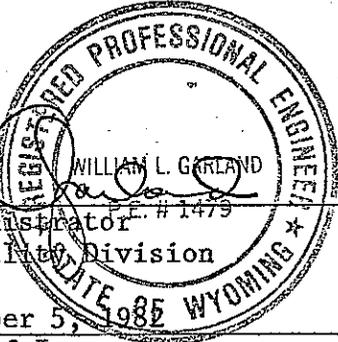
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

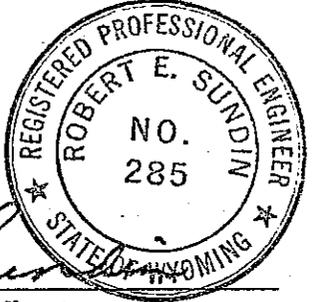
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
F. # 1479
Administrator
Water Quality Division
November 5, 1982
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Ricardo J. Goncalves
MSM/SP Group
570 West 44th Ave.
Denver, CO 80216

Condition to Permit to Construct

The filter to waste cycle portion of the backwash operation shall be long enough to insure at least two complete changes of the water in the filter underdrain segments.

Review of Plans and Specifications

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

PROJECT: Rawlins Water Treatment Plant, Carbon Co.

ARCHITECT OR ENGINEER: Ricardo J. Goncalves, MSM Consultants
570 W. 44th Ave., Denver, CO 80216

APPLICANT: Gene R. Dickinson
P.O. Box 953, Rawlins, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 81-354R

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

Theodore D. Coyer

DATE OF REVIEW: April 7, 1982

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The "Recommended Standards for Water Works" published by the Health Education Services, Inc. and which have been adopted as the construction standard in the Wyoming Water Quality Rules and Regulations, Chapter III, does not address the use of "direct filtration" and "continuous filter backwash" as proposed for the Rawlins potable water treatment plant.

The Direct Filtration Subcommittee of the American Water Works Association published a paper titled "The Status of Direct Filtration" in the Journal of AWWA in 1980, which concludes that direct filtration of surface waters with low turbidity is a viable method of treatment. The Subcommittee conducted a worldwide survey of operating and pilot plants which use the direct filtration process as a basis for their report.

The general pre-filtration process design for direct filtration of the Sage Creek and, intermittently, the North Platte River waters is consistent with the AWWA report. (Some exceptions are noted below.) However, we have no information about or experience with the automatic backwash system proposed and therefore cannot consider authorizing it at this time.

Further consideration of this project will be given upon submission of revised plans and specifications and/or design information addressing the following:

1. Complete design details and specifications for the filters and backwashing systems must be provided. It should include the following:
 - a. Type and depth(s) of filter media, its effective size and uniformity coefficient and the supporting structure for it.
 - b. Will the operator of the plant be able to see the condition of the filter media during operation?
 - c. What will be the maximum and minimum water depths in the filters?

- d. What is the backwash rate of the filters? Is the backwash rate uniform over the width of the filter? What is the void ratio of the expanded filter bed during backwash?
 - e. Please submit operational and research data that substantiates the effectiveness of the backwashing system. Does it operate continuously, intermittently or on demand? Please explain.
 - f. What is the flow rate of the backwash pumps? What is the capacity and slope of the wash water trough?
 - g. Do you intend to use the washwater trough as the filter overflow? If yes, is the capacity sufficient to handle the flow?
2. Please explain how the water flow in the treatment system will be balanced to prevent flooding of the system and at the same time maintain a positive pressure in the effluent pipe. What controls the water level in the clear well?
 3. At least two rapid mixers must be provided for each system.
 4. The ability to monitor the turbidity of the effluent from each filter should be provided in addition to the effluent from the clear well.
 5. A standby chlorinator is required for the plant effluent chlorination system.
 6. A standby booster pump for the chlorination system must be provided. What is the capacity of the pump? A standby generator should also be provided.
 7. The piping color code listed in the "Recommended Standards for Water Works" must be followed for this project.
 8. What is the volume of the sludge that is expected to be produced by this plant? How will the ponds be cleaned? Where will the sludge be disposed?
 9. At least the downwind side of the lagoons should be rip-rapped to prevent erosion.
 10. All reduced pressure zone backflow preventers must be approved by the School of Engineering, University of Southern California.
 11. The stop and waste yard hydrant must be provided with either a pressure vacuum breaker or a reduced pressure backflow preventer depending on installation conditions.
 12. Details of the septic tank must be provided.
 13. A copy of the "Colorado Highway Department Specifications" must be submitted for review.
 14. Any dust palliatives used for the alleviation or prevention of dust nuisances must be specifically approved by the Water Quality Division prior to being

applied. John Wagner, Technical Support Supervisor, is the person who will grant this approval. His telephone number is 777-7781.

15. We suggest that a fume hood be provided in the laboratory.



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 30, 1982

CERTIFIED

Mr. John C. Darrington
City Manager
City of Rawlins
P.O. Box 953
Rawlins, WY 82301

RE: Proposed Rawlins Water Treatment Plant, Rawlins, WY, DEQ/WQD Ref. No. 81-354RR

Dear Mr. Darrington:

Your application for a "Permit to Construct" a potable water treatment plant for the City of Rawlins has been reviewed by the Water Quality Division and is hereby denied pursuant to W.S. 35-11-110 (a)(ii) and W.S. 35-11-302 (a) (vi).

The proposed water treatment plant design, which consists of rapid mix, flocculation, direct filtration onto an "automatic backwash" filter and chlorination, does not comply with the Department of Environmental Quality, Water Quality Division's minimum design standards. The Division has reviewed the application as an "innovative design" and has found the proposal to be unacceptable for the following reasons:

1. The capability of the filter to reliably and effectively remove turbidity has not been substantiated when used in conjunction with the direct filtration process.
2. The capability of the filters to produce the required volume of water without excessive backwash or turbidity break through has not been substantiated.
3. The filter system will pass very turbid water through the filters during backwash operations and immediately following backwash for an unknown length of time. This very poor quality water is blended with the previous filtered water to produce an overall turbidity within the required limits. Although the end product would appear to meet the Environmental Protection Agency's "Primary Drinking Water Standards", the concept of blending a contaminated water with good water to meet a standard for drinking purposes is totally unacceptable when the public's health is at stake.

Mr. John C. Darrington
August 30, 1982
Page 2

4. The filter system used to treat public water supplies must act as a "front line defense" against contamination of the water by pathogenic organisms. One such organism is the Giardia Lamblia Cyst. This organism is prevalent in mountain streams and lakes, such as supply water to Rawlins, and is highly resistant to chlorination. The filter system design proposed will not effectively remove the Giardia Lamblia cyst. Furthermore, the cysts could actually be concentrated in the filter and then be released into the finished water during the filter backwash operations. An outbreak of Giardiasis could result.

Pursuant to provisions of W.S. 35-11-802, you have the right to petition for a hearing before the Environmental Quality Council to contest this decision. Attached for your information is a copy of the Environmental Quality Act and the current Rules of Practice and Procedure adopted by the Council.

If we can be of further assistance or answer any questions concerning this matter, feel free to contact Mr. Robert Sundin at 777-7192 or Mr. William Garland at 777-7781.

Sincerely yours,



William L. Garland, P.E.
Administrator
Water Quality Division



Robert E. Sundin, P.E.
Director
Department of Environmental Quality

WLG/RES/TDC/nc
Attachments: 2

cc: MSM Consultants
570 W. 44th Ave.
Denver, CO 80216

3-22-82



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 19, 1982

James Carney, City Engineer
City of Rawlins
P.O. Box 953
Rawlins, WY 82301

RE: Rawlins Proposed Water Treatment Plant, DEQ/WQD Ref. No. 81-354R

Dear Mr. Carney:

This is to advise you that the plans and specifications for the proposed Rawlins Water Treatment Plant are now being reviewed. However, before the review can be completed, the enclosed "Application for Permit to Construct" form must be completed and returned to me.

If you have any questions about this, feel free to contact me about them.

Very truly yours,

Theodore D. Coyer, P.E.
District Engineer

TDC/nc

cc: MSM Consultants, Inc.
570 West 44th Avenue
Denver, Colorado 80216

Review of Plans and Specifications

6
7-9-81

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

PROJECT: City of Rawlins, Water Treatment Plant

ARCHITECT OR ENGINEER: MSM Consultants, Inc.
570 W. 44th Ave., Denver, CO 80216

WATER QUALITY DIVISION REFERENCE NUMBER: 81-354

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

DATE OF REVIEW: July 7, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The plans and specifications do not comply with the Water Quality Rules and Regulations. Therefore, we would like to meet with you on July 21, 1981 at 1:30 P.M. to discuss the design. If this day and time is not convenient for you, please contact me at (307) 777-7781 so that other arrangements can be made.

cc: James Carney
P.O. Box 953
Rawlins, WY 82301

PERMIT TO CONSTRUCT

New

Permit No. 81-355

Renewal

Modified

Laramie County School District #1 Outdoor Educational Center
(Name of Facility)

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

Laramie County School District #1

2810 House Avenue

Cheyenne, WY 82001

to construct, install, or modify a wastewater holding tank facility according to the procedures and conditions of the application No. 81-355. The facility is located in Section 28, T40N, R70W 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: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming, 82801; telephone, 672-6457.

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

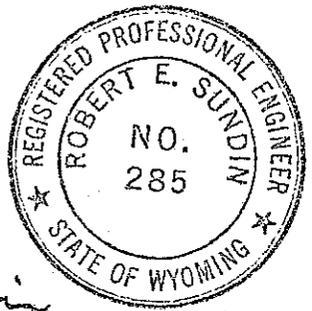
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING
June 24, 1981
Date of Issuance




ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



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

cc: Edward C. Fry
Civil Engineering Service
3234 Acacia Drive
Cheyenne, WY 82001

66

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 81-356R

12-inch Water Transmission Main
(Name of Facility)

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

Quadrant Development Co.

621 W. Dimond Blvd.

Anchorage, AL 99502

to construct, install, or modify a 4470 l.f. of 12-inch water main facility according to the procedures and conditions of the application No. 81-356R. The facility is located in Lathrop Road, Section 1, T33N, R79W and Section 6, T33N, R78W 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.

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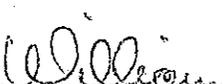
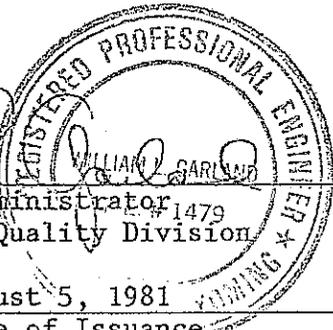
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

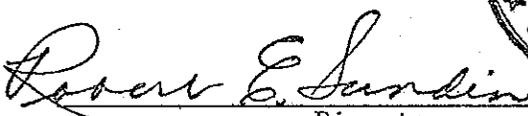
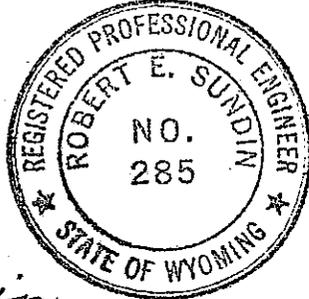
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division
August 5, 1981
Date of Issuance



Director
Dept. of Environmental Quality

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

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

47-1-81

Review of Plans and Specifications

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

PROJECT: Town of Evansville, 12" Water Transmission Main

ARCHITECT OR ENGINEER: Duane Fehringer, Western Engineers
501 N. Sun Drive, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 81-356

REVIEWING ENGINEER: Thomas S. Norman

Thomas S. Norman

DATE OF REVIEW: June 24, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A letter from the Town of Evansville is necessary stating that adequate water quantity and treatment capacity is available to service the 12" main.
2. What was the criteria for determining the size of the water main? What are the existing water main pressures at the proposed tap (Station 0+00)?
3. The CMP crossing at Station 4+30 does not agree with Section 301.08 of the specifications concerning separation of sewer and water lines and also the reconstruction of the sewer line with equivalent water pipe material.
4. What is the depth of the 24" CMP at Station 29+06?
5. An air release mechanism must be placed at all high points in the water main (Station 37+20).
6. How will the sewage be disposed of from the proposed mobile home park?

cc: Quadrant Development Co.
621 W. Dimond Blvd.
Anchorage, Alaska 99502

8-25-81

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 81-357RR

Mobile Home Park for Quadrant Development Company
(Name of Facility)

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

Quadrant Development Company

621 West Diamond Blvd.

Anchorage, AK 99502

to construct, install, or modify a municipal water distribution and wastewater collection system facility according to the procedures and conditions of the application No. 81-357RR. The facility is located in Section 6, 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.

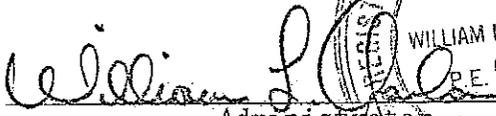
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

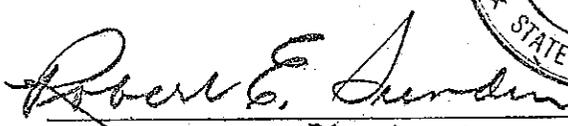
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AUTHORIZED BY:


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


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

August 20, 1981
Date of Issuance

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

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

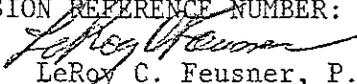
Review of Plans and Specifications

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

PROJECT: Mobile Home Park, Quadrant Development Company

ARCHITECT OR ENGINEER: Duane Fehringer, Western Engineers
501 N. Sun Drive, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 81-357

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

DATE OF REVIEW: June 24, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide a letter of verification from the public utility system manager indicating that they have the capacity for handling the added organic and hydraulic loads from the MHP in both their wastewater transport and treatment facilities.
2. Provide a letter of verification from the public utility manager indicating that they can adequately supply at least 350 gallons/day of potable drinking water per mobile home with a minimum pressure of 20 psi under all conditions of flow.
3. Sections 201.03G and 301.04B (trench dewater procedures). There have been several problems with sewer/water trench dewatering procedures in the Casper area. The applicant should contact John Wagner of this Division for any special sampling/monitoring requirements if any dewatering procedures will result in a surface discharge to waters of the State.
4. Addenda No. 3 to specifications, sewer and water risers detail drawing. The riser pipe shall terminate a minimum of four (4) inches above natural ground, standing water, or surface water runoff, whichever elevation is higher. The riser pipe shall be protected by concrete at ground surface a minimum of four (4) inches thick and twelve (12) inches in diameter.

cc: Quadrant Development Co.
621 W. Dimond Blvd.
Anchorage, Alaska 99502

L 2/6

Review of Plans and Specifications

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

PROJECT: Mobile Home Park, Quadrant Development Company

ARCHITECT OR ENGINEER: Duane Fehringer, Western Engineers
501 North Sun Drive, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 81-357R

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

DATE OF REVIEW: July 21, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide two copies of revised drawings showing where the 2" water lines have been changed to 6" lines.
2. The requirement for the concrete aprons around the sewer/water users at each mobile home site is required IAW Sections 1.8 & 2.1, Appendix A, Chapter III, Wyoming Water Quality Rules and Regulations. No variances to State standards can be granted. Provide two copies of the revised water and sewer riser detail pages to comply with existing standards.

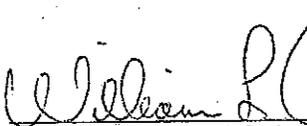
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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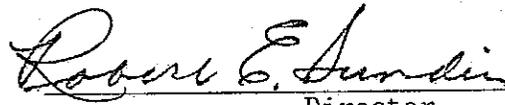
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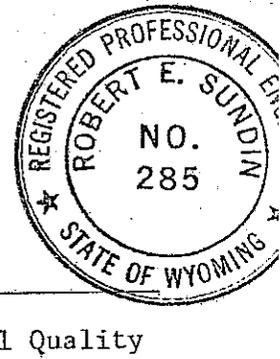
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 24, 1981
Date of Issuance




Director
Dept. of Environmental Quality



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

Memo

To Tom Mueller

From GJ Mancini

Date 7/2/81

Subject Southfork Estates, Campbell Co.,
81-359

Southfork Estates is a subdivision which plans to use groundwater (65gpm) for a "public water supply".

The applicant has submitted no information which will allow an evaluation of the source of the proposed supply, or details of well construction, or even an analysis of the water.

Nor has the applicant listed the relevant State Engineer permit(s) for the appropriation of groundwater.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 81-360

Ref. No. 81-263

B-13 Barium Chloride Plant Settling Pond
(Name of Facility)

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

Bear Creek Uranium C., Attn: Douglas L. Hudson

P. O. Box 2654

Casper, WY 82602

to construct, install, or modify a wastewater settling pond facility according to the procedures and conditions of the application No. 81-360. The facility is located in Section 7, T38N, R72W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

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AUTHORIZED BY:

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

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

June 25, 1981
Date of Issuance

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

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

UNC MINING AND MILLING SERVICES, INC.



Subsidiary of United Nuclear Corporation
A **UNC RESOURCES** Company

P. O. Box 2996
Casper, Wyoming 82602

Telephone 307/358-5112

81-361

August 17, 1981

DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
1111 East Lincolnway
Cheyenne, Wyoming 82002

Attn: Mr. A. J. Mancini

RE: Withdrawal of the Tailings Modification Application.

Dear Mr. Mancini:

This is to request withdrawal of the UNC Mining and Milling Services, Inc.'s. Modification Application to Construct the Morton Ranch In-Pit Tailings Disposal System which was submitted on June 17, 1981.

Silver King Mines, Inc. will resubmit the Tailings Modification Application after October 1, 1981.

Very truly yours,

A. S. Chater
Manager of Environmental/Radiation

ASC/eml

cc: P. A. Crowell
C. E. Wolff (SKM)
F. L. Uhrich
R. L. Mathisen (DEQ-LQD)
M. R. Central File

*2 copies returned to Sheridan
Tony kept 1 copy*



Department of Environmental Quality

Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: File

FROM: Phil Pucel *pp*

DATE: August 6, 1981

SUBJECT: Transfer of operator liability - Morton Ranch DEQ/WQD Ref. No. 81-361

Participants: Arthur W. Woods, President, UNC Mining & Milling Service
Jake Strohmman, DEQ/WQD, Cheyenne
William Garland, Administrator, DEQ/WQD, Cheyenne
Aspet S. Chater, UNENMSI, Casper
Dale V. Wilhelm, TVA, Casper
Richard A. Meyer, TVA, Chattanooga
Richard L. Morley, TVA, Casper
C.E. "Chuck" Wolff, Silver King Mines, Inc., Casper
Charles N. Ofult, UNC, Albuquerque
Dick Crowell, UNC, Casper
Robert Sundin, Director, DEQ, Cheyenne
Dick Young, DEQ/SWM, Cheyenne
Phil Pucel, DEQ/WQD, Cheyenne
Becky Mathisen, DEQ/LQD, Cheyenne
Dick Lennox, DEQ/WQD, Cheyenne

Under the supervision of TVA, Silver King Mines will assume the responsibilities of Morton Ranch uranium mine and mill. United Nuclear representatives expressed the intent to be relieved of all liability by means of a transfer of permits and release of bond. Solid Waste Division required a letter from SKM pertaining to the transfer. WQD and LQD require a letter of intent and replacement forms bearing authorized signatures.

TVA awarded the contract to Silver King Mines which offered the lowest, responsive bid.

Transfer of liability is intended to occur on October 1, 1981.

cc: Tony Mancini

Circulate: Groundwater Section

with to 81-361

8/2/81

Tom -

Attached is a copy of Pucl's formal comments on Morton Paudel. Concerning Comment "A", I believe the operator intends to cover the entire pond bottom with a liner (letter to attn. A. J. Mancini, dated May 7, 1979). Just in case, you may want to verify this fact.

I think the statements in "B" are correct, but I'm not certain that this comment can be satisfactorily addressed using "state of the art" technology at present. (Batelle has submitted "model" reports covering part of this comment.)

Comment "C": Pucl did not use the latest information, for some reason. However, early information does not mesh completely with later information. A monitoring well reportedly will be installed NE of Pit 1802, but we have not received a map showing its location.

Comment "D": I don't think we would permit the facilities if we thought they might fail. The

groundwater flow, according to latest information submitted, would be south to north and southwest to northeast.

~~As~~ Comment "E": I don't believe this has been addressed by the applicant, and I don't know how serious this might be. I think a lot depends on the future activities at the site.

Regards,
Tony



8/11/81
51-361

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: Files

FROM: Phil Pucel, Engineering Evaluator *PP*

DATE: July 27, 1981

SUBJECT: Morton Ranch Additional Comments
Permit for Application to Construct

- A. The effluent reservoir pond bottom is specified to consist of a combination of existing soil or a 3-foot clay liner where the existing bottom does not meet material specifications on Table 1. of App. IV, Document 79-90.

The natural clay surface not covered with liner, but scarified and compacted, should be tested for permeability and shown to provide as much or more capacity as the clay liner to attenuate harmful constituents. Analyses of seepage rates should demonstrate the effectiveness of the pond bottom using the maximum possible head.

- B. Considering the long-term harmful effects of a radioactive disposal pit, attention should be focused upon the integrity of the clay liner under the influence of an advancing wetting front, extremely low pH, settling of the replaced overburden and clay liner, and an elevated groundwater table.

The long-term effects of highly acidic solutions on clay liners has not been addressed, even though this interaction may be the most important factor related to clay liner integrity. One alternative in ameliorating this problem may be neutralization of the solution.

The clay cap is supposed to prevent recharge to the disposal pit, thereby avoiding an increase in tailings solution. Long-term maintenance of the clay cap (settlement, erosion, fissuring, and human activities injurious to the cap) should be addressed. Long-term maintenance is to be defined by the Water Quality Division (2,000 years) 2

Memo to Files - Morton Ranch
July 27, 1981
Page Two

- C. Satisfactory water table and potentiometric surface maps are lacking. These maps are particularly important in assessing the adequacy of the present groundwater monitoring network. An inspection of static water levels indicates groundwater movement to both the east and west of PIT 1802. There is no monitoring well to the east of PIT 1802.
- D. There is no contingency plan dealing with the failure of the tailings containment ponds and pits. Furthermore, detailed knowledge of the underlying aquifers (aquifer characteristics and extent) have not been presented. An assessment of groundwater flow precludes any contingency planning.
- E. Ore stockpiles' potential threat to groundwater has not been addressed. The present stockpiles are downgradient of any containment ponds.



Department of Energy

ALBUQUERQUE OPERATIONS
ROCKY FLATS AREA OFFICE
P.O. BOX 928
GOLDEN, COLORADO 80401

To: Norma Coulson
From: Loren Leichtman



AUG 19 1981

Water Quality Construction
Projects Control Officer
State of Wyoming
Dept. of Environmental Quality
Water Quality Division
2161 Coffeen Avenue, Suite 301
Sheridan, Wyoming 82801

SUBJECT: Permit to Construct at the Laramie Energy Technology Center

Permit No. 81-362R issued by your office for certain construction at the Laramie Center was issued to this office.

Since this office does not have any responsibility for construction activities at the Laramie Center, we have forwarded the permit to:

Mr. Thomas Owen
U. S. Department of Energy
Laramie Energy Technology Center
P. O. Box 3395, University Station
Laramie, Wyoming 82071

Please adjust your records accordingly.

George M. Galmish
George M. Galmish, Chief
Engineering & Construction Branch

cc:
Thomas Owen, LETC

LEB

PERMIT TO CONSTRUCT

New

Permit No. 81-362R

Renewal

Modified

Laramie Energy Technology Center Fire Protection Sprinkler System
(Name of Facility)

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

U.S. Department of Energy

P.O. Box 928

Golden, CO 80401

to construct, install, or modify a public water supply fire protection system facility according to the procedures and conditions of the application No. 81-362R. The facility is located in Section 33, T16N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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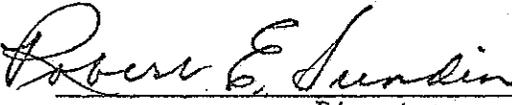
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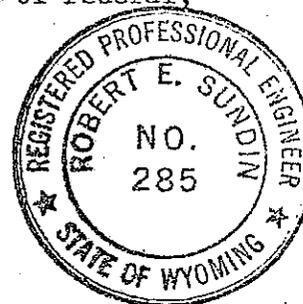
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AUTHORIZED BY:



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


Director
Dept. of Environmental Quality



August 5, 1981
Date of Issuance

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

cc: Ed Nowak
Banner Associates
P.O. Box 550
Laramie, WY 82070

7-15-81
Lef

Review of Plans and Specifications

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

PROJECT: Laramie Energy Technology Center

ARCHITECT OR ENGINEER: Ed Nowak, Banner Associates
P. O. Box 550, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 81-362

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

DATE OF REVIEW: July 13, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The plans and specifications must carry the signature or seal of the design engineer who is a licensed professional engineer in Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Whitney Canyon Gas Processing Facility Sewage Treatment Facilities

ENGINEER: Sterns-Roger Engineering Corporation
P. O. Box 5888
Denver, CO 80217
ATTN: Gilbert Morton

OWNER: Amoco Production Co.
P. O. Box 17675
Salt Lake City, Utah 84117
ATTN: J. H. Bryant

WATER QUALITY DIVISION REFERENCE NUMBER: 81-363R

REVIEWING EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: July 31, 1981

ACTION: Not authorized.

COMMENTS:

Based upon our July 31, 1981 meeting and my review of your July 20, 1981 reply to my June 22, 1981 review letter, the following points have not yet been resolved. I have put my comments in the same order as those in the June 22, 1981 review letter.

1. Profiles are needed of the service lines entering the left station. The isometric drawings of the main lines need to be completed.
2. Resolved.
3. Resolved.
4. Resolved.
5. Resolved.
6. Resolved.
7. Resolved.
8. Resolved.
9. Resolved.

A.C

10. Resolved.
11. Resolved.
12. Resolved.
13. Resolved.
14. Resolved.
15. A rip rap specification is needed. It should include material, size, method of placement and a statement that additional rip rap will be placed if it becomes necessary.
16. The specifications should contain a statement that a minimum horizontal separation of ten feet will be maintained between all sewer lines and potable water lines.
17. Resolved.
18. Resolved.
19. Please provide complete details of the sludge drying bed (i.e. a plan view, cross-section and spec special material (i.e. the clay liner)).

ADDITIONAL COMMENTS

20. The O & M manual will be returned to you as a part of the approved plans.
21. Please put the final version of the application together in one binder.

Please submit the required information and drawings, in triplicate, to this office by August 20, 1981. If you have any questions, please call me.

FL:d1
8/3/81

cc: Jake Strohmman - Engineering Control Supervisor Cheyenne DEQ/WQD

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

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

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AUTHORIZED BY:

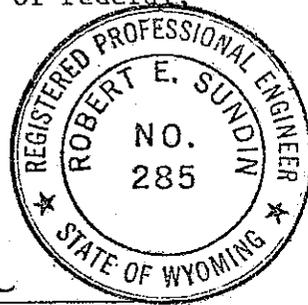
William L. Garland

WILLIAM L. GARLAND
Administrator 2479
Water Quality Division
August 25, 1984

Date of Issuance

Robert E. Sundin

Director
Dept. of Environmental Quality



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

FL:nb

clay.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Whitney Canyon Gas Processing Facility Sewage Treatment Facilities

ENGINEER: Sterns-Roger Engineering Corporation
P.O. Box 5888
Denver, CO 80217
ATTN: Gilbert Morton

OWNER: Amoco Production Co.
P.O. Box 17675
Salt Lake City, UT 84117
ATTN: J. H. Bryant

WATER QUALITY DIVISION REFERENCE NUMBER: 81-363

REVIEWING ~~ENGINEER~~ EVALUATOR: Francis LaBarge

DATE OF REVIEW: June 22, 1981

ACTION: Not authorized.

COMMENTS:

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

- 1) Please provide details of the service lines entering the lift stations.
- 2) Complete details are needed of both lift stations (i.e., detailed drawings, pump curves, pump sizing calculations, material specifications, etc). The lift stations should meet Ten State Standards.
- 3) Force main calculations are needed. A minimum velocity of 2 fps is required.
- 4) The force main will require thrust blocking. Please show their locations on the drawings and reference the thrust block tables for the amount required. What is the design pressure?
- 5) An automatic air relief valve should be placed at the high point in the force main between lift station No. 2 and No. 1, to prevent air locking.
- 6) It appears the sewer line piping will require a protective lining and outer coating, to prevent corrosion.
- 7) Manhole details are needed.



ABC

Review of Plans and Specifications

Whitney Canyon Gas Processing Facility Sewage Treatment Facility

Date of Review - June 22, 1981

Page Two

- 8) Please obtain a verification from John Wagner, Technical Support Supervisor, of our Cheyenne Office, on the need for a NPDES discharge permit.
- 9) I basically agree with the figure of 25 gpcd used for the hydraulic loading, but my references indicate the BOD loading will be at least 0.073 lb/cap/day, which equals a BOD loading of 4.1 lb/day. It appears the plant selected can adequately handle this loading. Please verify this.
- 10) What is the anticipated suspended solids level of the effluent?
- 11) A qualified operator will be required to oversee the operation of the plant. Please include a statement to this effect in the plant operation.
- 12) An O & M Manual is needed.
- 13) What is the purpose of the gravel filled collection pit after the treatment plant?
- 14) A splash pad is needed where the 8-inch line from the treatment plant discharges.
- 15) Erosion control will be required where the effluent flows down the embankment.
- 16) A minimum horizontal separation distance of 10 feet must be maintained between any sewer lines and any potable water lines. This has not been addressed.
- 17) Complete construction specs are needed.
- 18) Before any sludge can be wasted, it must be stabilized. This needs to be confirmed.
- 19) Where will the stabilized sludge be disposed of? It must be disposed of at an approved location. If the disposal site is to be a municipal plant, a letter stating they will accept it is required.

Please submit the required information and revised drawings, in triplicate, to this office by July 27, 1981. This does not necessarily constitute the final review. If you have any questions, please call me.

FL:nb

6/24/81

cc: Jake Strohman, Engineering Control Supervisor, Cheyenne DEQ/WQD

File (2)

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-364R

Midwest Bean Company
(Name of Facility)

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

Midwest Bean Company - Leslie Allen
PO Box 142
Burlington, WY 82411

to construct, install, or modify a septic tank - leach bed

facility according to the procedures and conditions of the

application No. 81-364R. The facility is located in

Sec. 29, T52N, R96W

in the County of Big Horn,

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

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

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

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

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

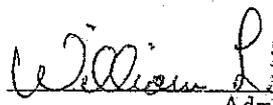
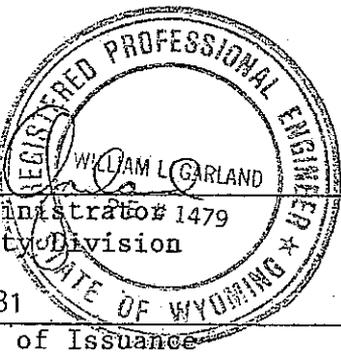
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

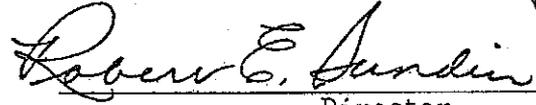
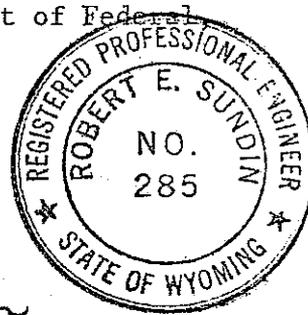
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
August 25, 1981
Date of Issuance



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality

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

It is my understanding that Carol Bovee (C&J Precast) does not manufacture "Sitton Concrete" septic tanks any more.

A "Sitton" tank is not approved, however; the standard C & J Precast tank is acceptable. It is my understanding in granting this permit, that the standard C & J Precast tank will be installed.

JH/ch
8/25/81

Creynne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Midwest Bean Company

ENGINEER: None selected.

OWNER: Midwest Bean Company
Box 142
Burlington, Wyoming 82411

WATER QUALITY DIVISION REFERENCE NUMBER: 81-364

REVIEWING ENGINEER: Jeff Hermansky

DATE OF REVIEW: June 23, 1981

ACTION: Not authorized.

COMMENTS:

Your application for a "Permit to Construct" is incomplete, as submitted.

You will need to select a Professional Engineer registered in the State of Wyoming to sign your application. Your engineer will know the requirements of the application; however, the following items are required:

- 1) Plan sheet completed, showing layout.
- 2) Either elevated leach field or drain area to lower the water table.
- 3) Septic tank data.
- 4) Wastewater flows that will need to be treated by the proposed facility.

If you have any questions, please feel free to call.

JH:nb
6/24/81

A, B, C

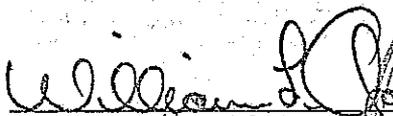
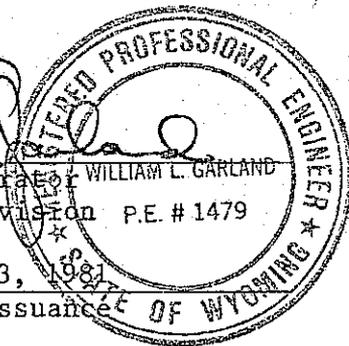
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

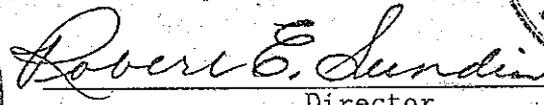
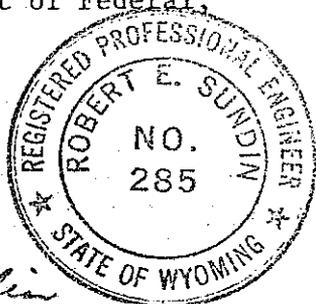
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


Administrative 
Water Quality Division P.E. # 1479
November 3, 1981
Date of Issuance


Director
Dept. of Environmental Quality


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

* CONDITION: Periodic sampling, analysis, and reporting of well water quality must be performed according to the directions of the Department of Environmental Quality, Water Quality Division.

It is understood by the permittee that should any of the water analyses prove to be unsatisfactory, the well may be shut down and/or a groundwater clean-up and/or protection plan may be required.

AJB:nb
11/4/81



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 4, 1981

Mr. Bruce M. Davis
Route #1
Afton, WY 83110

RE: Star View Estates; 81-365RRR

Dear Mr. Davis:

A condition of your permit will be periodic sampling, analysis and reporting of the well water. Before the well may be put into service, a complete analysis of the parameters listed on Page 9 of "Wyoming Water Quality Rules and Regulations, Chapter 8" must be completed and submitted for review. Thereafter, this analysis must be completed yearly. In addition, every four months an analysis of ammonia, chlorides, nitrites, nitrates and total dissolved solids is required. Also, monthly bacteria analysis must be submitted.

Should these sampling requirements change, or analysis be unsatisfactory, you will be contacted.

Respectfully,

Albert J. Berreth

Albert J. Berreth
Southwest District Engineer

AJB:nb

Enclosure

Copy: Tony Mancini, Cheyenne DEQ/WQD

Harold A. Linke

File (5)

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Star View Estates

ENGINEER: Templeton, Linke and Associates
40 West 2950 South
Salt Lake City, Utah 84115
ATTN: Dick Harries

OWNER: Bruce M. and Betty B. Davis
Route #1
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 81-365RRR

REVIEWING ENGINEER: Al Berreth *ajt*

DATE OF REVIEW: September 2, 1981

ACTION: Not authorized.

COMMENTS: Before a permit to construct can be issued the following items must be addressed,

I. Well

1. A pump test needs to be performed.
2. Details of the well construction are needed. Grouting is needed to 20 feet below ground surface. A cold joint should not be present between the flour slab and casing grout. Preferably grout should extend to clay or another confining layer.
3. What is the depth to groundwater?
4. Please explain the basic operation of the well.
5. The submersible pump electrical cable must be attached to the drop pipe. This needs to be specified.
6. How close is the foot valve to be to the submersible pump?
7. A pressure gauge is needed at the well head.

A, B, C

8. Please specify your air release and pressure relief valve. Details are needed on their connection to the system.
9. Please show approximate location of where the drain enters the canal. The drain line must be at least 1½ feet above the high water line.
10. For a subdivision of this size two sources are not required. However, a spare pump needs to be provided.
11. Please detail the well cover. Pipes and wires going through the cover need to have a seal to prevent possible well contamination. A vent needs to be provided.
12. Is a heater to be provided? Please explain.
13. Casing must be specified. If steel casing is used thickness, diameter, and weight per foot need to be noted.
14. A pump curve is needed for the Berkeley pump chosen.

II. Pressure Tank Vault

1. The pressure tank system cannot be considered for fire flow storage. Fire hydrants will not be useable in this system unless it can be shown that adequate fire flow can be delivered to the hydrants for an acceptable period of time.
2. Is a heater to be provided? Please explain.
3. A pressure gauge needs to be installed.

III. Distribution System

1. The specification for the interior piping 4 inches in diameter and less is a little unclear. Please note the ASTM designation.
2. For PVC 1120 pipe the acceptable pressure is 75% of the rated pressure. That is, class 160 pipe would be acceptable for 120 psi system pressure as a maximum. Please note the range of pressures for this system at the high and low points.
3. The water system should be looped and valves installed.
4. Please note the fire hydrant comment made earlier.
5. Blow-offs are required at the dead ends.
6. Three copies of the final plans and specifications are required for final approval.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Star View Estates

ENGINEER: Templeton, Linke & Associates
40 West 2950 South
Salt Lake City, UT 84115
ATT: Harold A. Linke

OWNER: Bruce M. & Betty B. Davis
Route #1
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 81-365R

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: August 18, 1981

ACTION: Not authorized.

COMMENTS:

Before a review of the proposed project can be made, complete plans and specifications are needed. Also a signed application form is required. Certain design information, such as flow estimates and line size calculations, is needed. These can be included in the engineers report. Please refer to the attached documents:

1. Ten States Standards
2. Wyoming Water Quality Rules and Regulations, Chapter III

Should you have questions or need further information, please call.

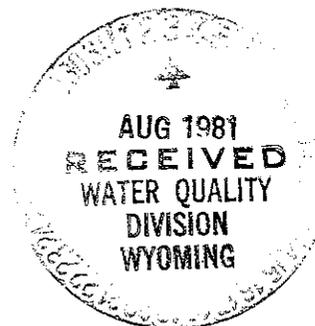
AB/ch
8/18/81

ajb

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Star View Estates

ENGINEER: Templeton, Linke & Associates
40 West 2950 South
Salt Lake City, Utah 84115
ATTN: Harold A. Linke

OWNER: Bruce M. & Betty B. Davis
Route #1
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 81-365

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: July 29, 1981

ACTION: Not authorized.

COMMENTS:

Before a review of the proposed project can be made, complete plans and specifications are needed. Also a signed application form is required. Certain design information, such as flow estimates and line size calculations, is needed. Should you have questions or need further information, please call.

AB/dl
7/29/81

A.B.C.



Department of Environmental Quality
Water Quality Division

240 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

October 27, 1981

Mr. Bruce M. Davis
Route 1
Afton, WY 83110

RE: Star View Estates: 81-365RRR

Dear Mr. Davis:

The submittal for the above referenced project appears to be complete. Shortly, I will be forwarding the permit to Cheyenne for signatures. You should have a permit within the month.

Should you have questions, please contact me.

Respectfully,

Albert J. Berreth

Albert J. Berreth
Southwest District Engineer

AJB:nb

Copy: Cheyenne DEQ/WQD
File (2)

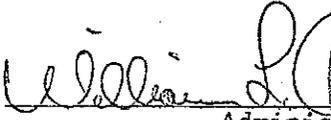
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

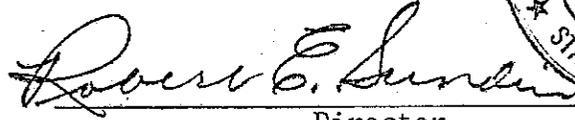
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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AUTHORIZED BY:


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


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

August 18, 1981
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: South Big Horn County Hospital

ENGINEER: Gene Roccabruna
PO Box 800
Basin, WY 82410

OWNER: South Big Horn County Hospital
River Route
Greybull, WY 82426

WATER QUALITY DIVISION REFERENCE NUMBER: 81-366

REVIEWING ENGINEER: Jeff Hermansky - JCH

DATE OF REVIEW: July 27, 1981

ACTION: Not authorized.

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

1. Please submit specifications for the lagoon earthwork.
2. Show a cross section of the lagoon dikes.
3. Show a detail of the inlet pipe and splash pad.
4. What is the depth to ground water in the lagoon area.
5. Please show the basis for your design of the lagoon. How many people are to be served?
6. What is the classification of the soil under the lagoon and soil to be used for dike construction?
7. The percolation rate you have given (.2 inches/hour) could be the rate of the soil now. However, after the lagoon is in service, it is far too rapid a rate to use for design. You should use about 1/4 inch/day for a more acceptable rate.

Review of Plans and Specification
South Big Horn County Hospital
DEQ #81-366
July 27, 1981
Page 2

8. Please define "thoroughly compacted" on page CS 2.1-2.
9. What is "approved backfill" page 5.1-2?
10. Include in your testing of the sewer line, a Go-No Go test for deflection.
11. A leak test must be added to the specification.
12. Please include 3 copies of all plans and specifications.

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

JH:ch
7/28/81

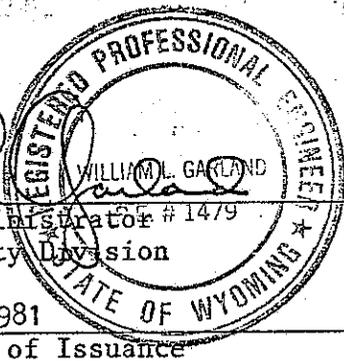
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

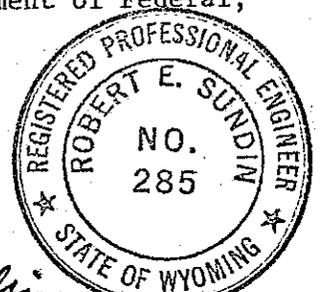
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
December 17, 1981
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

FL:ch
12/21

Chayenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: CRESCENT H RANCH - WATER SUPPLY IMPROVEMENTS

ENGINEER: Nelson Engineering
P.O. Box 1599
Jackson, WY 83001
ATTN: Robert Farnsworth

OWNER: Rivermeadows, Inc.
P.O. Box 608
Wilson, WY 83014

WATER QUALITY DIVISION REFERENCE NUMBER: 81-367RR

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

DATE OF REVIEW: September 23, 1981

ACTION: Not authorized.

COMMENTS: A review of your latest resubmittal has been completed. Before a "Permit to Construct" can be issued, the following points remain to be resolved. I have replied in the order of your presentation.

- 6. Resolved.
- 8. As of this date I have not received copies of the physical, chemical and bacteriological tests.
- 17. Resolved.
- 21. Resolved.
- 22. Resolved.
- 24. I talked with Joe Chalfant today. I told Mr. Chalfant I didn't interpret his July 2, 1981 letter as his acceptance of the plans. He informed me this is the case, and as of yet has not signed off on the plans. A copy of this review is being sent to Mr. Chalfant. Until I receive his acceptance of the plans I will not issue the "Permit to Construct."

Additional Comments

25. A serious discrepancy has arisen. In Mr. Berg's July 9, 1981 letter it is stated the well tested at 40 gpm with no drawdown, and that the well tested successfully at 1.6 times its capacity with the test pump set at 85

AC

Review of Plans and Specifications

Crescent H Ranch - Water Supply Improvements, DEQ #81-367R

Date of Review - September 23, 1981

Page 2

feet. Mr. Berg also stated it was not necessary to develop the well, but in your September 10, 1981 letter it is stated that the well has not yet been developed. Has the well been drilled and tested? Please explain why it was stated the well was drilled and tested, if it was not.

26. In regard to your request for a "Permit to Construct" before the well is "developed" and results of the water analysis are submitted to DEQ, the answer is, "No." A permit cannot be issued until it has been determined that the water meets the Primary Drinking Water Standards.

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

FL:nb
9/23/81

xc: Joe Chalfant, Teton County Sanitarian

Chey

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Crescent H Ranch - Water Supply Improvements

ENGINEER: Nelson Engineering
PO Box 1599
Jackson, WY 83001
ATT: Ken Berg

OWNER: Rivermeadows, Inc.
PO Box 608
Wilson, WY 83014

WATER QUALITY DIVISION REFERENCE NUMBER: 81-367R

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

DATE OF REVIEW: August 7, 1981

ACTION: Not authorized.

COMMENTS: A review of your resubmittal has been completed. Before a "Permit to Construct" can be issued the following points remain to be resolved. I have replied in the order of your presentation.

1. resolved
2. resolved
3. resolved
4. resolved
5. resolved
6. You have revised your consumption figures but have changed the number of people being served from:
 - Employees plus cabin guests from 35 to 30
 - Employees from 15 to 11
 - People in residences from 8 to 4
 - Persons laundaring per day from 12 to 7

This results in essentially the same demand as originally proposed. You have indicated that the well successfully tested at 40 gpm, therefore, using my original calculated average daily demand of 12,130 gpd (i.e. 8.4 gpm) the source appears to be adequate.

A, B, C

7. resolved (see #6)
8. I have not received copies of the physical, chemical and bacteriological tests yet.
9. resolved
10. resolved
11. resolved
12. resolved
13. resolved
14. resolved
15. resolved
16. resolved
17. The storage tank must hold, at a minimum, the average daily consumption. If you refer to my comments in #6 it appears the numbers have been juggled to arrive at the same daily demand figure. Unless you can substantiate the changes in number of people a 12,000 gallon storage tank is needed.
18. resolved
19. resolved
20. resolved
21. Refer to #17 above
22. The disinfection specification was not with your reply.
23. resolved
24. As of this date I have not received any reply from Joe Chalfant, Teton County Sanitarian, on his acceptance of the plans.

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

FL/ch
8/10/81

xc: Joe Chalfant - Teton County Sanitarian

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: CRESCENT H RANCH - WATER SUPPLY IMPROVEMENTS

ENGINEER: Nelson Engineering
P. O. Box 1599
Jackson, WY 83001
ATTN: Ken Berg

OWNER: Rivermeadows, Inc.
P. O. Box 608
Wilson, WY 83014

WATER QUALITY DIVISION REFERENCE NUMBER: 81-367

REVIEWING EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: June 25, 1981

ACTION: Not authorized.

COMMENTS:

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

1. Briefly describe the facilities to be constructed on the "Application for Permit to Construct" form (question #4).
2. A minimum of two people/one bedroom cabin should be used unless you can provide the necessary information to show otherwise.
3. A minimum of twelve people/six bedroom lodge should be used unless you can provide the necessary information to show otherwise.
4. Unless you can provide support data to show otherwise the following water demands should be used:
 - one bedroom cabin: 60 gpcd
 - restaurant: 10 gallons per meal served
 - laundry: 50 gallons per wash load
 - lodge: 125 gpcd
 - residence: 150 gpcd
5. The figure of 30 persons per day being served at the restaurant sounds low. Please justify this figure.

6. Using the above referenced figures, I arrive at a total daily demand of 1230 gpd. This figure assumes that there will not be any irrigation uses from this source which needs to be confirmed. Using this figure results in a Peak Hourly Flow of 35.3 gpm.
7. A copy of the yield and drawdown tests on the well are needed. The well should have a test pump capacity, at maximum anticipated drawdown, at least 1.5 times the quantity anticipated.
8. Copies of the physical, chemical and bacteriological tests results for the well are needed.
9. Has the EPA been contacted to get on a monitoring program?
10. Since this is a public water supply, a certified operator will be required. Contact Bill Loft (777-7093) of our Cheyenne office for details.
11. Details of how the well was actually developed are needed.
12. The well steel casing pipe does not meet the minimum thickness requirements of AWWA A100 or your specifications.
13. Submersible pump electrical cables should be firmly attached to the riser pipe at 20 foot intervals or less. This is not shown.
14. What material is the drop pipe made of?
15. A check valve is needed on the discharge pipe from the well.
16. A sampling tap is required.
17. It appears a larger storage tank will be needed.
18. Details are needed of the pipe connections and manway access into the storage tank to assure they will be watertight.
19. Does the proposed fiberglass tank have adequate structural capacity for the loads to be imposed upon it during and after construction?
20. The site around the storage tank should be graded for at least 50 feet around the tank. The plans do not show this.
21. What is the anticipated cycle time for the pump with the level settings shown?
22. How will the storage tank be cleaned before it is put into use? This should be included in the specs.

Crescent H Ranch - Water Supply Improvements

DEQ Reference No. 81-367

June 25, 1981

23. A profile is needed of the new water lines or a statement saying the lines will be laid on a uniform grade at six feet deep and there are no sewer line crossings involved.

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

FL/d1
6/25/81

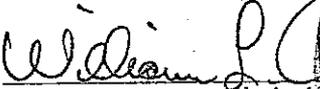
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

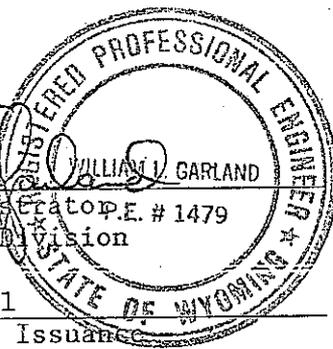
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

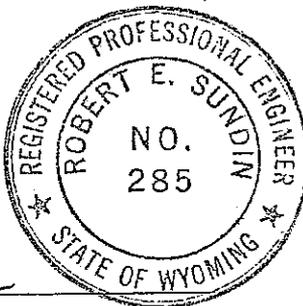
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
June 23, 1981
Date of Issuance




Robert E. Sundin
Director
Dept. of Environmental Quality



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



**Sanderson/Stewart/Gaston
Engineering, Inc.**

July 7, 1981
80-021

ADDENDUM NUMBER 1
Water Distribution System Improvements
Basin, Wyoming

The following changes shall be made on the construction specifications and drawings and shall be noted by all interested bidders on this Bid Schedule.

CONSTRUCTION DRAWINGS:

1. Sheet 4 of 20

Intersection note on 8th Street and B Street
"add wording . . . with 12 x 14 Reducer"

Intersection note on 7th Street and B Street
"change 12" Tee to 12" Cross"

Intersection note on 6th Street and B Street
"change 12" Tee to 12" Cross"

2. Sheet 5 of 20

Intersection note on 10th Street and B Street
"change 14" x 8" reducer to 14" x 6" Reducer"

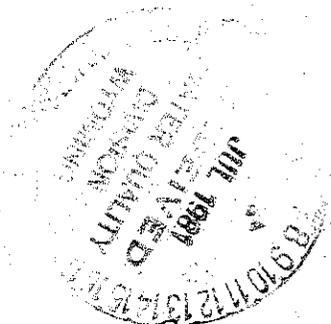
3. Sheet 8 of 20

Intersection note on Montana Avenue and 4th Street
"change 8" Tee to 8" Cross"

4. Sheet 9 of 20

Intersection note on Montana Avenue and 4th Street
"Change 8" Tee to 8" Cross"

Intersection note on Myrtle Avenue and 4th Street
"Change 8" Tee to 8" Cross"



87-368
Big Horn

Consulting Engineers and Land Surveyors
1629 Avenue D
Billings, Montana 59102
406-245-6366

Robert L. Sanderson, P.E.
John S. Stewart, P.E.
Gerald M. Gaston, P.E.
Jack F. Mueller, P.E.
Harry A. Schmitt, P.E.

5. Sheet 10 of 20

Intersection note on C Street and 4th Street
"change 8" Tee to 8" Cross
"add wording ...Abandon existing 4" on 4th Street"

6. Sheet 14 of 20

Intersection note on C Street and 6th Street
"change 8" Tee to 8" Cross

7. Sheet 17 of 20

Intersection note on Myrtle Avenue and 9th Street
"change 8" Tee to 8" Cross

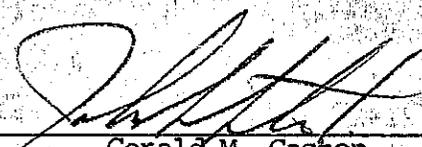
8. General Note:

Reference to single fittings such as "reducer" shall mean plural (or reducers) where crosses are used.

Addendum No. 1. accepted this _____ day of _____, 1981.

Contractor

Note: Addendum must be acknowledged by signature and Addendum No. on Bid Proposal Sheet.



Gerald M. Gaston
Project Engineer

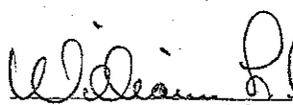
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

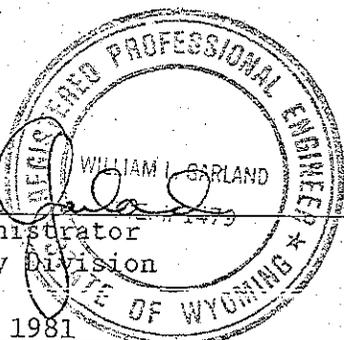
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

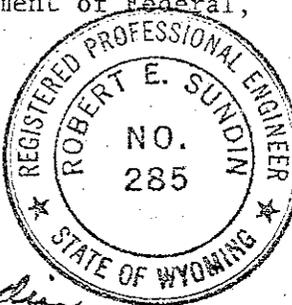
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM I. GARLAND
Administrator
Water Quality Division




ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



June 30, 1981
Date of Issuance

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

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

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

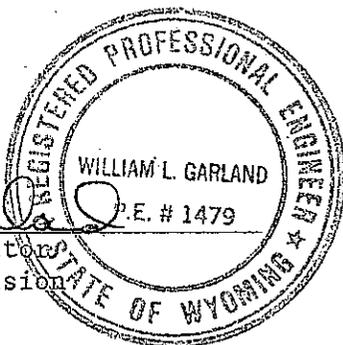
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

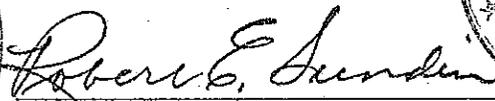
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

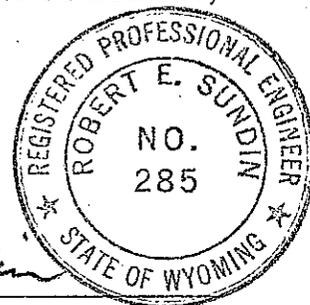


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



June 23, 1981
Date of Issuance

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

12-11-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-371RRR

Black Butte Coal Co.
(Name of Facility)

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

Black Butte Coal Co.

P.O. Box 98

Point of Rocks, WY 82942

to construct, install, or modify a Settling Ponds SP-DN facility according to the procedures and conditions of the application No. 81-371RRR. The facility is located in NW 1/4 SW 1/4 Section 28, T19N, R100W 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.

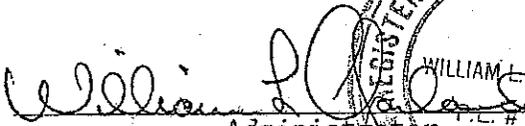
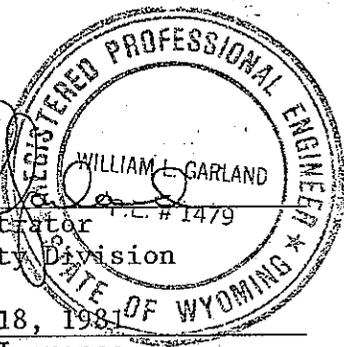
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

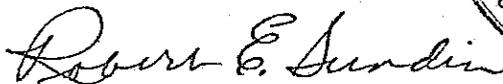
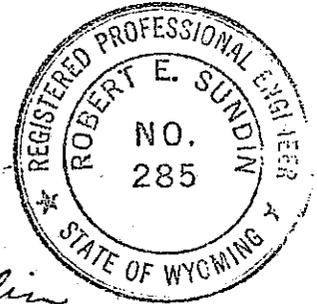
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


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



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

Director
Dept. of Environmental Quality

November 18, 1981
Date of Issuance

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

AB/nc

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Black Butte Coal Co.

ENGINEER: Peter Kiewit Sons' Co.
1000 Kiewit Plaza
Omaha, Nebraska 68131
ATTN: Edward L. Jankowski, Jr.

OWNER: Black Butte Coal Co.
P.O. Box 98
Point of Rocks, WY 82942
ATTN: Scott W. Kamber

WATER QUALITY DIVISION REFERENCE NUMBER: 81-371

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: July 17, 1981

ACTION: Not authorized.

COMMENTS: The following questions and comments refer to the pond which is referenced.

ST-1 RESERVOIR; DARTER #1 AND DARTER #2

1. A controlled inlet is specified at 500 gpm. Is this a continuous flow? Please explain. Also, what type of inlet is to be used and what kind of inlet erosion protection is to be provided?
2. Please note on the drawing that a liner is to be used and that the specifications for it are to be used.
3. What type of water is to be contained, and why?
4. Construction specifications are needed.
5. Are any stability problems expected from the 2:1 side slopes? If not, why?

Review of Plans and Specifications
Black Butte Coal Co. - DEQ #81-371
Date of Review - July 17, 1981
Page 2

SP-J-1 and SP-J-2 SEDIMENTATION PONDS

1. In the "Reservoir Capacity Table," how much accumulated error is there in using five-foot intervals?
2. Are any stability problems expected with the 2:1 slope on the downstream face of the dam for SP-J-2?
3. You need to demonstrate capability to dewater these ponds in conjunction with other ponds within ten days after meeting effluent requirements. Also, what means will be used to determine pond water quality in five-day intervals? (See attached memo.)
4. Construction specifications are needed.

SP-DN SEDIMENTATION POND AND INTERCEPTOR DITCH IC-D7

1. Please supply the input and output printouts for the final TR-20 run for which the ditch and pond were designed. Four copies are needed.
2. How was depth of lining determined? Can the referenced document be capsulized for a basic understanding of the sizing procedures used?
3. As it is drawn, the pond is completely dug into the earth. Is this interpretation correct?
4. Please address stability of the 2:1 slopes. In particular, wind action could be rather severe.
5. Please supply a map outlining what areas contain which soil type.
6. Is the old pond completely destroyed in the construction of this pond?
7. Please address inlet and outlet protection. If none is needed, why?
8. Dewatering and sampling need to be addressed as outlined previously.
9. Construction specifications are needed.

AB:nb
7/20/81
xc: Cheyenne DEQ/WQD ✓
LQD - Lander
File (5)

6-5-8

PERMIT TO CONSTRUCT

New

Permit No. 81-372

Renewal

Modified

THERMOPOLIS SEWAGE TREATMENT PLANT - MODIFICATIONS TO CHLORINE CONTACT TANK
(Name of Facility)

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

Town of Thermopolis
c/o Renee Magee, Town Administrator
Town Hall, P.O. Box 603
Thermopolis, WY 82443

to construct, install, or modify chlorine contact tank piping and baffles

~~XXXXXX~~ according to the procedures and conditions of the
application No. 81-372. The facility is located in _____
Sec. 36, T. 43N, R. 95W.

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

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

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

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

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

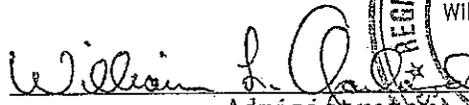
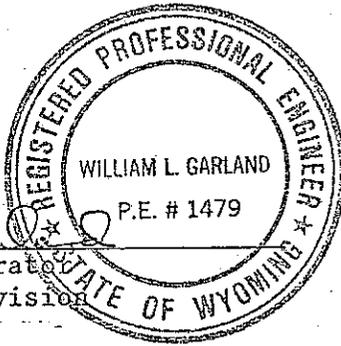
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

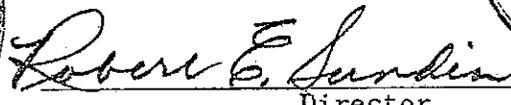
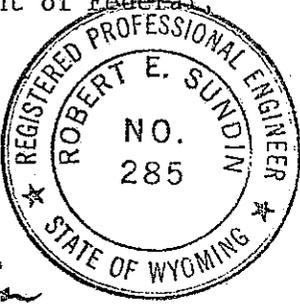
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


Administrative
Water Quality Division



Director
Dept. of Environmental Quality


July 10, 1981
Date of Issuance

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

MRC:nb
7/13/81

Chay.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Shale Point Mobile Home Park

ENGINEER: Johnson, Fermelia & Crank
Box 631
Kemmerer, WY 83101
ATTN: Harvey Nishi

OWNER: Alfred Thoman
Box 95
Kemmerer, WY 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 81-373R

J

REVIEWING EVALUATOR: Francis LaBarge

DATE OF REVIEW: August 7, 1981

ACTION: Not authorized.

COMMENTS: A review of your resubmittal has been completed. The following points remain to be resolved before a "Permit to Construct" can be issued. This review follows the same format as that of my July 1, 1981 review.

Water System

1. Resolved.
2. Resolved.
3. Resolved.
4. Details are needed of the yield and drawdown tests conducted on the well.
5. See number 4 and number 24.
6. Standby power is needed.
7. A minimum thickness of 0.322 inches is required for an eight inch steel well casing pipe.
8. Please provide details of how the well was developed.
9. The thickness of the grout around the well casing should be added to the detail sheet.
10. Resolved.

11. Resolved.
12. Resolved.
13. Resolved.
14. Detail 22 does not call for a galvanized steel drop pipe as indicated in the notes.
15. There is some confusion over the location of the pump house. I understand, from Mr. Thoman, it will not be over the well as shown on the plans. This needs to be resolved and details of the pitless adaptor are needed, if one is to be used.
16. Resolved.
17. Where does the pump house drain go to? Details are needed.
18. It has been my experience that pressure tanks of this size tend to "sweat" quite a lot. I doubt if a vented door will provide sufficient dehumidification. Also refer to number 15.
19. Resolved.
20. Resolved.
21. Resolved.
22. Please clarify your calculations. As presented they mean nothing.
23. Resolved.
24. According to Mr. Thoman, this application is supposed to be for Phase I only. Please clarify.
25. Resolved.
26. The profile of the water line between STA 4 + 87 and 4 + 16 is not on Sheet 7 as indicated.
27. Resolved.
28. Resolved.
29. The specifications call for either cast iron ductile iron or PVC pipe. I cannot find anywhere in the specifications or on the plans where it says PVC pipe is to be used.
30. Resolved.
31. Where does the specification address the situation of when a sewer line crosses above a water line?
32. Resolved.

Sewer System

33. Please show the slope of the line (i.e. between STA 14+ 98 and STA 15 + 90) on the profile.
34. Resolved.
35. Refer to number 24.
36. Resolved.
37. Resolved.
38. I understand the package plant is being abandoned in favor of a lagoon. Complete details of the proposed lagoon are required. Enclosed is a copy of "Guidelines for Wastewater Pond Construction Permit Applications Requiring Liners". All applicable information must be included in your "Engineering Report".
39. Confirmation is needed that application has been made for a landfill permit.

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

FL:dl
8/12/81
Enclosure

Aug. 17, 1981

81-373

Mr. Francis LaBarge
Water Quality Division
933 Main St.
Lander, Wyoming 82520



Mr. LaBarge
Please withdraw application #81-373
for Shale Point Mobile Home Park.
The Engineers haven't completed the
requirements on the check list and
by the time they do so we find
it will be too late in the season
to begin construction.

Thank you

Sincerely

Alfred C. Thomas
B495
Reno, Wyo.
83101

Please send the contents of the
file for this project to me.

Al

Returned to Al



August 17, 1981

Mr. Francis LaBarge
Wyoming Department of Environmental Quality
Water Quality Division
933 Main Street
Lander, Wyoming 82520

Re: Shale Point Mobile Home Park
WQD Ref. No. 81-373
JFC 2251



Dear Mr. LaBarge,

Due to the unnecessary length of time that has transpired in getting an application for a permit to construct for the above referenced project, Mr. Thoman has decided, after reading your third review dated August 7, 1981, mailed August 14, 1981 and received this date, that chances of obtaining a permit to construct are slim and that the project is too late to develop.

We hereby request you return all data to this office (postage will be paid by this office if necessary) and to cancel his application.

Sincerely,
JOHNSON, FERRELIA & CRANK, INC.


Dale Crank, P.E.

*Returned to
Thoman.*

cc: Al Thoman

8/7/81
Kemperer Wyo.
83101

Francis

Harvey Nishi is drawing up plans for a 4 acre lagoon.

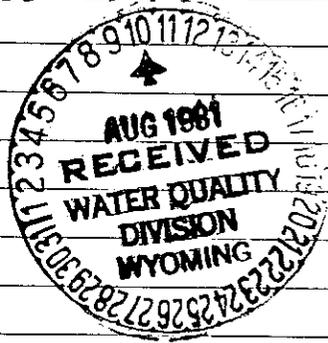
I would like to put the lagoon on $\frac{1}{2}$ acre which is partly dug and if there is any overflow it can go down my ditch into a two acre area, and would be totally contained on my property.

I do not need two water lines coming out of one well.

Change the sewer pipe to 6" if you can. 600 gal. pressure tank would be OK for 20 mobile homes.

Dale Crank has agreed to settle for \$3000.⁰⁰ plus 10% of the construction cost, which I feel is too much money for this kind of a job.

I would appreciate what ever you can do to keep the construction cost down.



Sincerely
Alfred Thomas

81-373

Please hold this project up as long as you can.

Cray.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Shale Point Mobile Home Park Subdivision

ENGINEER: Johnson, Fermelia & Crank
Box 631
Kemmerer, WY 83101
ATTN: Dan Dean

OWNER: Alfred Thoman
Box 95
Kemmerer, WY 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 81-373

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

DATE OF REVIEW: July 1, 1981

ACTION: Not authorized.

COMMENTS: A detailed review of the above referenced application has been completed. The following points need to be resolved before a "Permit to Construct" can be issued.

WATER SYSTEM

- 1) Copies of the physical, chemical and bacteriological tests run on the water source are needed.
- 2) Has the EPA been contacted to get on a monitoring program?
- 3) A certified water system operator is required. Please contact Bill Loft (777-7093) of our Cheyenne office, for details.
- 4) What is the yield of the well? Copies of the yield and drawdown tests are needed. These tests should conform to Ten State Standards.
- 5) If the well has a yield of six to ten times the average daily consumption, this will be acceptable, if a standby pump is available. When Phase II is proposed, it is quite possible an additional source may have to be developed.
- 6) Is standby power available?
- 7) What thickness is the well casing pipe?
- 8) How was the well developed?

ASC

Review of Plans and Specifications

Shale Point Mobile Home Park Subdivision, DEQ #81-373

Date of Review - July 1, 1981

Page Two

- 9) How thick is the concrete grout around the well casing?
- 10) The electrical cable serving the submersible pump should be firmly attached to the riser pipe at 20-foot intervals, or less.
- 11) A check valve is needed on the well discharge pipe.
- 12) A sampling tap is needed.
- 13) The well discharge pipe should have a means of pumping to waste.
- 14) What is the drop pipe material?
- 15) Details are needed of the pitless well unit or adaptor.
- 16) The well casing needs to be vented.
- 17) A drain is needed in the pump house floor.
- 18) How is the pump house vented? Will dehumidification be needed?
- 19) What is the purpose of a mobile 3,000 gallon storage tank?
- 20) The capacity of the pressure tank must be at least ten times the capacity of the pump. Please verify this.
- 21) Pressure tanks must meet ASME code requirements. This needs to be called out in the specs.
- 22) What are the anticipated high and low pressures at the high and low lots in the park? Calculations are needed to show that a peak demand of 65 gpm (for Phase I only) can be met.
- 23) Pressure tanks should have an access manhole, a drain, water sight glass, automatic blowoff and a mechanical means for adding on. Details and specs of these items are needed.
- 24) Why are the water line profiles for Phase II included in this application? Isn't this application for Phase I, only?
- 25) The sewer line crossing between the well and the pump house is not shown on the profile.
- 26) The sewer line crossing between STA 4+87 and 5+16 is not shown on the profile.
- 27) The sewer line crossing at STA 32+57 is not shown on the profile.

Review of Plans and Specifications

Shale Point Mobile Home Park Subdivision, DEQ #81-373

Date of Review - July 1, 1981

Page Three

- 28) Water riser pipes shall be protected by a concrete apron or other approved method.
- 29) Cast iron and ductile iron pipe should have a bituminous coal tar base coating approximately one mil. thick. This is not stated in the specs.
- 30) All water lines should be pressure tested to a minimum of $1\frac{1}{2}$ times the operating pressure. The specs call for pressure testing at the normal system hydrostatic pressure.
- 31) Sewers passing over or under water mains should be constructed of materials and with joints that are equivalent to water main standards of construction for a horizontal distance of at least ten feet on each side of the crossing, and should be pressure tested to assure watertightness prior to backfilling. Adequate structural support is needed for sewers, passing over water mains, to prevent excessive deflection of joints and settling on and breaking of the water main. In addition, the length of water pipe should be centered at the point of crossing so the joints will be equidistant and as far as possible from the sewer. The specs need to address these points. A note should be placed on the drawings referencing this specification for crossing details.
- 32) A typical lot plan is needed showing the separation distance between the water and sewer risers.

SEWER SYSTEM

- 33) From STA 14-98 to the cleanout is not shown in profile.
- 34) The water line crossing between the treatment plant and MH #2 is not shown on the profile.
- 35) Why are the sewer line profiles for Phase II shown in this application? Isn't this application for Phase I, only?
- 36) A minimum slope of 2% (i.e., $\frac{1}{4}$ " per foot) is required on sewer service lines.
- 37) The specs do not state what type of leakage test is to be used.
- 38) I have been informed by our Cheyenne office that the discharge limits for the proposed package plant will be:

30 mg/l of BOD
30 mg/l of S.S.
200 F.C./100 ml.
Total residual Cl_2 of 0.1

Review of Plans and Specifications

Shale Point Mobile Home Park Subdivision, DEQ #81-373

Date of Review - July 1, 1981

Page Four

Please provide the necessary calculations showing the loading on the plant and that it can meet these limits. Use Ten State Standards as a guideline for the various process requirements. The model selected must be clearly indicated.

- 39) Where will the sludge generated from this plant be disposed of? Only stabilized sludge can be disposed of.

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

FL:nb
7/1/81

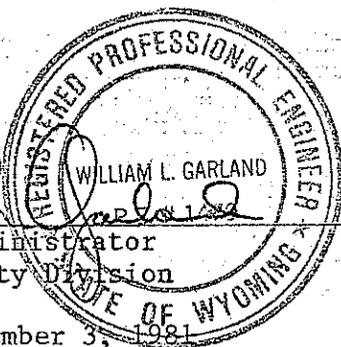
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

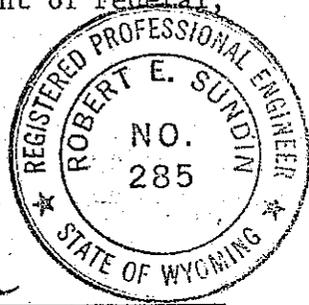
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
November 3, 1981


Robert E. Sundin
Director
Dept. of Environmental Quality

November 3, 1981
Date of Issuance

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

- CONDITIONS:
1. Groundwater sampling, analysis, and monitoring may be required as requested by the Department of Environmental Quality, Water Quality Division. This may include the development of up to three monitoring wells.
 2. Infiltration/Inflow abatement shall be a major consideration before other future capital improvements.
 3. A draft of the operation and maintenance (O & M) manual is to be presented by 50% completion of the project, and the finalized O & M manual by 90% completion of the project, to the Lander office, in triplicate.

AB:nb
11/5/81



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 4, 1981

Mr. Reed Bluemel, Chairman
Ft. Bridger Sewer and Water District
Ft. Bridger, WY 82933

RE: Sewage Lagoon Renovation, 81-374R

Dear Mr. Bluemel:

A condition of the above referenced construction permit is that periodic groundwater monitoring may be required. At this time, monitoring is not required. Should it be needed in the future, the District will be contacted.

Should you have questions, please contact me.

Respectfully,

Handwritten signature of Albert J. Berreth in cursive.

Albert J. Berreth
Southwest District Engineer

AJB:nb

Copy: Tony Mancini
Eckhoff, Watson & Preator
File (5)

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Ft. Bridger Wastewater Lagoon

ENGINEER: Eckhoff, Watson, and Preator
1798 S. West Temple
Salt Lake City, UT
ATTN: Steve Rieber

OWNER: Ft. Bridger Water and Sewer District
P.O. Box 2
Ft. Bridger, WY 82933

WATER QUALITY DIVISION REFERENCE NUMBER: 81-374

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: June 26, 1981

ACTION: Not authorized.

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

- 1) As we discussed on June 22, an operation and maintenance manual will be a condition of your permit. The condition will state that, by 50% completion, a draft must be submitted, and by 90% completion, a finalized version must be supplied.
- 2) As we discussed on June 22, Groundwater will need to review the plans. As a minimum, you will need to supply existing groundwater quality and depth. Also, a vicinity map with surface contours and static groundwater depths of all local wells needs to be provided.
- 3) As we discussed on June 22, you will need to get a letter from John Wagner, supervisor of the discharge permit section, giving you a variance to by-pass the treatment process during construction.
- 4) As we discussed on June 22, you will need to provide specifications for the project. In all, three copies of plans and specifications are required for approval. One set will be returned to you and stamped, "Approved."
- 5) As I relayed to you on June 25, I spoke with our groundwater section on the possibility of a variance for groundwater separation requirements, and that

A.B.C

the Groundwater Section indicated that a synthetic liner would be adequate to protect groundwater quality with no separation between the lagoon floor and the groundwater.

- 6) Closer examination of the plan reveals that the secondary cell may tend to accumulate sludge. This will need to be addressed. In particular, an estimate of the amount, available storage and possible cleaning requirements.
- 7) An important item, which I forgot to mention on June 22, is the excessive infiltration in the Ft. Bridger collection system. What will be done to correct this? Please show any lines to be fixed on a plan and specify the method of repair.
- 8) John Wagner will also re-evaluate the discharge permit limitations. I will be in contact with him to learn of any changes.
- 9) The calculations estimate the effluent soluble BOD₅. Please address the effluent BOD₅.
- 10) It appears that the estimated per capita organic loading (0.19 lb/cap-day) was not used in determining the total waste loading for the facility (410 lbs/day).
- 11) Since a by-pass line will probably not be permitted, what action would be taken if repair work would be needed and one of the cells drained?
- 12) The through pipe will require some type of rip rap and seepage cutoff.
- 13) A concrete pad and blocking is needed on the inlet line.
- 14) What is the invert of the existing inlet manhole?
- 15) Why not provide for greater depth and variable operating level in the primary cell?
- 16) Fencing and warning signs need to be addressed.
- 17) More detail is needed on the flow measuring device.
- 18) Head loss calculations are needed for the air piping system.
- 19) What is the minimum chlorine dosage that can be applied? That is, what will the concentration be at maximum flow and application in mg/l.

- 20) What type of standby chlorination equipment will be provided?
- 21) A bottle of 56% ammonium hydroxide needs to be available for detecting leaks.
- 22) The door to the chlorine room must open outward and open to the outside of the building. The wall we discussed cannot be installed.
- 23) An inspection window must be provided.
- 24) Ventilation in the chlorination room must be addressed. One air change per minute is required with the exhaust port near the floor. Cross ventilation is needed and the temperature must remain fairly constant.
- 25) The electrical switch for the fan and light need to be located outside the room at the entrance.
- 26) A respiratory air pac needs to be available and stored in a convenient location. The unit must be capable of supplying air for 30 minutes.
- 27) Calculations must be supplied which demonstrate that a minimum chlorine contact time of 15 minutes is achieved at peak flow.
- 28) What will be done with the sludge already existing in the pond? An approved landfill site is required. Charles Porter, in Cheyenne, can direct you if you have questions about burial requirements. We will need a letter of acceptance from the receiving landfill.
- 29) Some type of baffling in the chlorine contact chamber is preferred. The flow entering the chamber needs to be distributed over the depth of the chamber.
- 30) Standby power needs to be addressed. That is, the reasoning behind not including it are needed. Please include what the expected length of power outage would be.
- 31) The equation used for aerator requirements is the same as for surface aerators. Please explain.
- 32) The specific weight of air at standard temperature and pressure is 0.075 lb/ft³.
- 33) Please explain the last correction in the oxygen requirements.

Review of Plans and Specifications
Ft. Bridger Wastewater Lagoon, DEQ #81-374
Date of Review - June 26, 1981
Page Four

- 34) How will the air flow be equally distributed among the various diffusers?
What is the individual diffuser capacity in cfm?
- 35) All the central manifolds shown have eight connection points. How will ten diffusers be connected to one?

The comments do not necessarily constitute a final review, as the District Engineer may have comments, or other items may have been inadvertently overlooked.

AB:nb
xc: Carlton & Carlton
✓Cheyenne DEQ/WQD
File (4)

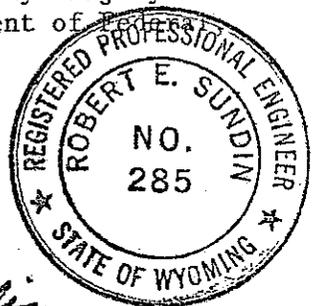
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:



William L. Garland
Administrator
Water Quality Division P.E. # 1479
July 14, 1981
Date of Issuance

Robert E. Sundlin
Director
Dept. of Environmental Quality

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

RR:nb
7/14/81

7-2

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 81-376

SEE SPECIAL CONDITIONS

AMF Tuboscope
(Name of Facility)

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

AMF Tuboscope

P.O. Box 808

Houston, Texas 77001

to construct, install, or modify a commercial subsurface disposal wastewater treatment facility according to the procedures and conditions of the application No. 81-376. The facility is located in Lot 13, Westage Park III Subdivision, Section 34, T34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

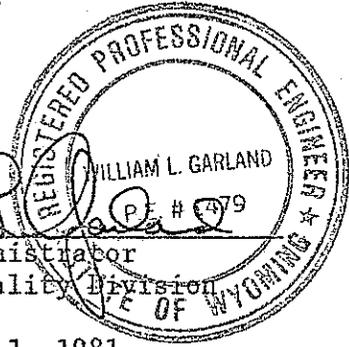
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

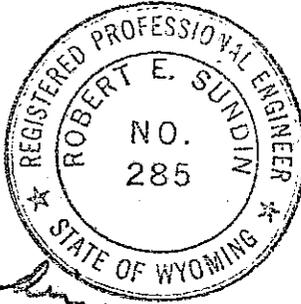
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:

William L. Garland

 WILLIAM L. GARLAND
 P.E. # 479
 Administrator
 Water Quality Division
 STATE OF WYOMING

Robert E. Sundin

 NO. 285
 STATE OF WYOMING
 Director
 Dept. of Environmental Quality

July 1, 1981
Date of Issuance

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

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

Conditions to Permit to Construct

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

648 7-10-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-377

SEE SPECIAL CONDITIONS

Gable Investments
(Name of Facility)

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

Spiva Backhoe Service

P.O. Box 122

Mills, WY 82644

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 81-377. The facility is located in Section 32, 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.

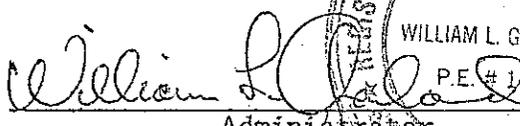
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

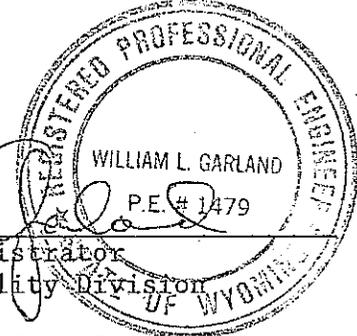
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

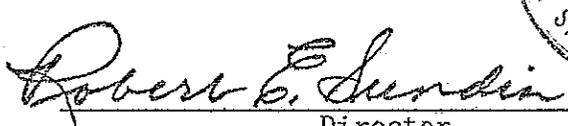
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

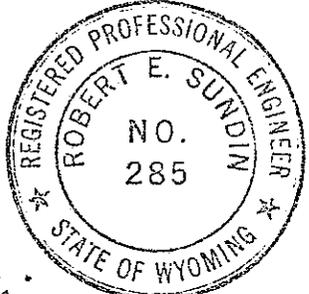
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


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




ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



July 8, 1981
Date of Issuance

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

cc: Ed S. Rate, Jr.
P.O. Box 930
Casper, WY 82602

Conditions to Permit to Construct

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



THE STATE OF WYOMING

NORMA - Rec'd phone call from Dick Appel.
This application is to be kept
in HOLD status awhile.

Lea
7/27
ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING, 82801

TELEPHONE 307-672-6457

June 29, 1982

Mr. Charles G. Johnson
UNC Teton Exploration Drilling
P.O. Drawer A-1
Casper, Wyoming . 82602

Dear Mr. Johnson:

Our records indicate your application for a permit to construct East and West Leuenberger Reservoirs, WQD Reference No. 81-378, has not been resubmitted to this office. Please indicate below the status of your application.

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

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

Sincerely,

Lea Stoneburner

Lea Stoneburner
Administrative Assistant

ls

Attachment: Review of plans dated 8/7/81

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Norma



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Files
FROM: A.J. Mancini *ajm*
DATE: August 19, 1981
SUBJECT: Additional comments by Groundwater Section on Teton-Nedco East and West Luenberger Reservoirs, DEQ/WQD Ref. No. 81-378

The submittal does not indicate who will install the pond liner(s). We prefer that a firm experienced in installing liners be contracted to install the liner(s).

There is no information on any stability analysis having been made on the west berm of the west reservoir. This berm, according to information submitted, is composed essentially of all fill material.

We feel that it is imperative that the surface under the line be prepared as specified and would like assurances that the company inspector will be apprised of the importance of this part of the project, and will make daily reports on the preparation of the subbase under the liner and the installation of the leak detection system. These reports should be available to the DEQ.

cc: Dan Kim, Sheridan
Becky Mathison, LQD

Normal copy

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: A.J. Mancini, Groundwater Control Supervisor
FROM: Bill Ewen, Engineering Evaluator *WBE*
DATE: August 17, 1981
SUBJECT: Comments on Teton-Nedco East and West Luenberger Reservoirs In-Situ Application, DEQ/WQD Ref. No. 81-378

SEC. II

1. No determinations have been made concerning the quantitative characteristics of the clay confining layers between O & N aquifers and M & basal aquifers.
2. Are the 2 wells owned by J & J Development on the SW corner of the permit boundary being monitored? Is the owner aware of the situation?

SEC. III

1. The leak detection system for the E & W Ponds is inadequate as shown on Fig.
2. Fig. 6.1.01 - Which wells will be used to monitor MV-3?
3. p. III-32 - Resampling to detect an excursion should begin when any one parameter exceeds UCL. At least if the U parameter is exceeded, resampling should occur.
4. p.III-33
 - a. The first step taken for an excursion should be re-calibration of the flow meters.
 - b. If the excursion is in the O aquifer then reducing injection pressure below SWL of O should be the first thing done. There is no restoring the O aquifer so an excursion would be a serious event.
 - c. Step No. 5 appears to contradict Chapter IX. They refer to degradation of domestic water only.
5. p.III-32 - The number of sample volumes evacuated before sampling should be the same on each occasion.

Memo to A.J. Mancini
Teton-Nedco East & West Luenberger Reservoirs
DEQ/WQD Ref. No. 81-378

6. p.III-34 top - If an excursion is over when "three" parameters are not out of line, then the excursion would be self-correcting.
7. p.III-35 - Have the J & J Development wells been sampled?
8. Comments on the proposed pond construction will be forthcoming.

cc: Dan Kim, WQD, Sheridan
Becky Mathison, LQD, Cheyenne

UNC TETON EXPLORATION DRILLING, INC.

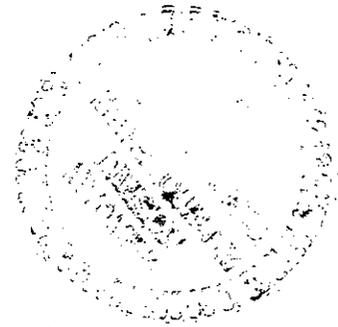


Subsidiary of United Nuclear Corporation
A **UNC RESOURCES** Company

P.O. Drawer A-1
Casper, Wyoming 82602

Telephone 307/265-4102

May 4, 1983



Mr. Tom Mueller
District Supervisor
DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
2161 Coffeen Avenue
Suite 301
Sheridan, Wyoming 82801

RE: DEQ/WQD REFERENCE NO. 81-378
EAST & WEST LEUENBERGER APPLICATION

Dear Tom:

Per your letter of April 8, 1983, and our subsequent telephone conversation, I would like to confirm that the Leuenberger commercial in situ mining operation is presently on hold pending changes in market conditions and re-evaluation. Under these circumstances, UNC Teton respectfully requests that the above referenced application be withdrawn at this time.

When the time comes to move ahead on the project, the pond application will be resubmitted. You may rest assured that the comments made by Mr. Dan Kim in his original review will be considered at that time assuming that the original pond designs are retained. I hope that this request will not create any problems. Please contact me if you need further information or if I can be of assistance at any time. Thank you for your review efforts.

Sincerely yours,

UNC TETON EXPLORATION DRILLING, INC.

A handwritten signature in cursive script, reading "Richard R. Appel", is located below the typed name.

R. R. Appel
Permit Coordinator

RRA/mdd
Enclosure



Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

April 8, 1983

CERTIFIED

Mr. Dick Appel
UNC Teton Exploration Drilling
P.O. Drawer A-1
Casper, Wyoming 82602

Dear Mr. Appel:

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:	East and West Leuenberger Reservoirs
DEQ/WQD Reference Number:	81-378
Engineering Consultant:	Charles E. Johnson, P.E.
DEQ/WQD Review Engineer:	Originally Dan H. Kim, now Tom Mueller.
Date of DEQ/WQD Review:	August 7, 1981

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:

Project presently inactive on interim status. Please withdraw east and west Leuenberger application to be refiled at a later date.



Department of Environmental Quality

Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

April 8, 1983

CERTIFIED

Mr. Dick Appel
UNC Teton Exploration Drilling
P.O. Drawer A-1
Casper, Wyoming 82602

Dear Mr. Appel:

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:	East and West Leuenberger Reservoirs
DEQ/WQD Reference Number:	81-378
Engineering Consultant:	Charles E. Johnson, P.E.
DEQ/WQD Review Engineer:	Originally Dan H. Kim, now Tom Mueller.
Date of DEQ/WQD Review:	August 7, 1981

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.

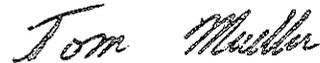
_____ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

_____ Other remarks:

Mr. Dick Appel
April 8, 1983
Page Two

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, and is punishable with a fine not to exceed \$10,000 for each day of violation. 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,



Tom Mueller
District Supervisor

TM:ls

Encl.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: East and West Leuenberger Reservoirs

ARCHITECT OR ENGINEER: Charles G. Johnson, P.E.
UNC Teton Exploration Drilling
P.O. Drawer A-1
Casper, Wyoming 82602

WATER QUALITY DIVISION
REFERENCE NUMBER: 81-378

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

DATE OF REVIEW: August 7, 1981

ACTION: Not Authorized for Construction (see the comments)

COMMENTS:

1. In calculating freeboard of the reservoirs, use of the mean monthly (January) wind speed of 16.7 mph appears to be relatively low. Wyoming winds sometimes reach 60 - 90 mph. Therefore, conclusion of freeboard design (page 7. of the application) should be corrected to read that at least 2 feet of freeboard would be maintained under normal operation.
2. Computation of fill and cut material balance is needed.

NOTE: The review sheet from the Groundwater Section, Water Quality Division, will be forwarded to you under separate cover. Contact Bill Ewen at 777-7089 in this matter.

xc: Dick Appel, UNC Teton Exploration Drilling

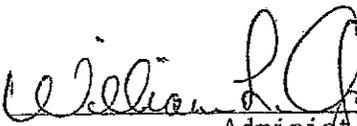
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

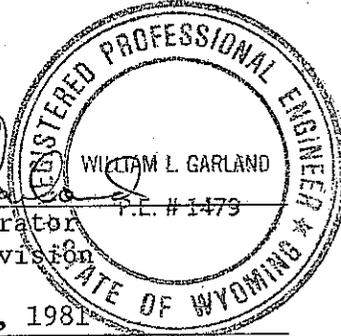
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

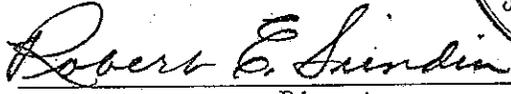
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

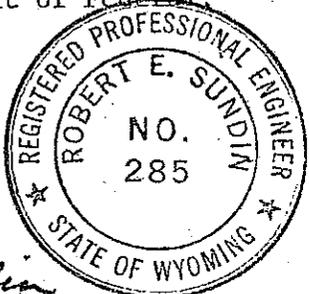
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division
July 27, 1981
Date of Issuance




Director
Dept. of Environmental Quality



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

7-10-81
Lef

PERMIT TO CONSTRUCT

Permit No. 81-380

- New
- Renewal
- Modified

Eastridge Mall
(Name of Facility)

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

Casper Board of Public Utilities

200 N. David

Casper, WY 82601

to construct, install, or modify a municipal wastewater collection system and water distribution system facility according to the procedures and conditions of the application No. 81-380. The facility is located in E 1/2 NW 1/4 W 1/2 NE 1/4 and E 1/2 NE 1/4 Section 12, T33N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

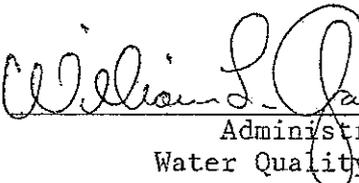
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

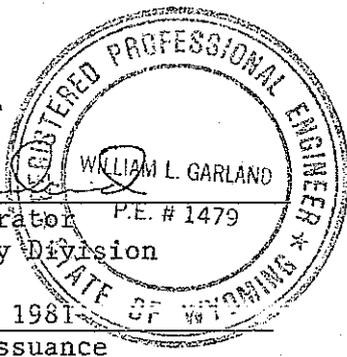
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:



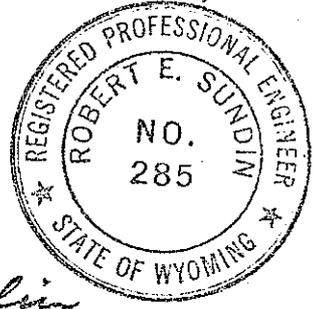
Administrator P.E. # 1479
Water Quality Division



July 8, 1981
Date of Issuance



Director
Dept. of Environmental Quality



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

cc: Robert D. Friesen
P.O. Box 1139
Wichita, Kansas 67201

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 81-381R

Ref.No.80-130
80-129

Riverside Addition
(Name of Facility)

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

Carroll, Krueger, & Millett

c/o George Millett

515 Ivinson Avenue

Laramie, WY 82070

to construct, install, or modify a public water distribution and wastewater collection systems facility according to the procedures and conditions of the application No. 81-381R. The facility is located in Section 29, T16N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

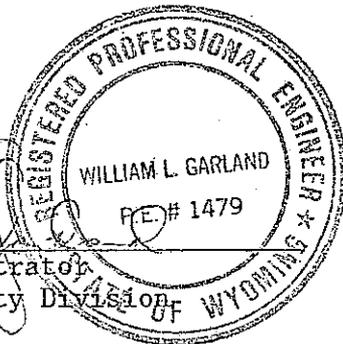
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

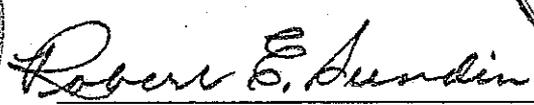
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

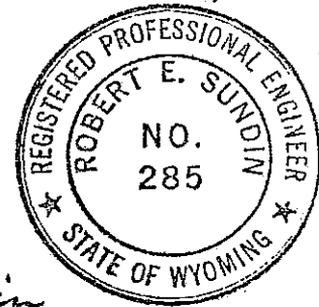
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Dept. of Environmental Quality



August 3, 1981
Date of Issuance

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

cc: Lloyd Baker
Gertsch/Baker & Assoc.
203 Grand Avenue
Laramie, WY 82070

8-27-81

PERMIT TO CONSTRUCT

New

Permit No. 81-382R

Renewal

Modified

Wycon Chemical Co.
(Name of Facility)

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

Wycon Chemical Co.

P.O. Box 1287

Cheyenne, WY 82001

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 81-382R. The facility is located in Section 17, T13N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
P.E. # 1479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Administrator
Water Quality Division
August 19, 1981
Date of Issuance


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

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

cc: Chester C. Smith
Empire Laboratories, Inc.
P.O. Box 429
Fort Collins, CO

LEJ 7-15-81

Review of Plans and Specifications

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

PROJECT: Wycon Chemical Company

ARCHITECT OR ENGINEER: Chester C. Smith, Empire Laboratories, Inc.
P. O. Box 429, Ft. Collins, CO

WATER QUALITY DIVISION REFERENCE NUMBER: 81-382

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

Theodore D. Coyer

DATE OF REVIEW: July 10, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. There are some discrepancies between the plans prepared by Empire Laboratories and Wycon Chemical Company.
2. The plans prepared by Wycon Chemical Company must be sealed or signed by a Wyoming Engineer.
3. What caused the existing leach field to fail? Inadequate septic tank size? Lack of dosing? Groundwater mounding?
4. The new leach field must be dosed.
5. A copy of our proposed standards is enclosed. They represent current technology and should be followed. The plans should therefore be revised to comply with them.

cc; Conrad Price
Wycon Chemical Co.
P. O. Box 1287
Cheyenne, WY 82001



Department of Environmental Quality
Water Quality Division

165 EAST RAILROAD AVENUE

GREEN RIVER, WYOMING 82935

TELEPHONE 307 875-6911

September 2, 1983

Mr. J. C. Rondeau, Env. Eng. Supt.
Stauffer Chemical Company of Wyoming
P. O. Box 513
Green River, WY 82935

Dear Mr. Rondeau:

The plans and specifications for Trench Systems #1 & #2, Application 81-383R and 81-384R are accepted as-built. A permit will not be issued for these facilities as they have been constructed.

The acceptance of these plans does not in any way absolve Stauffer Chemical Company of dealing with and correcting the seepage problems at the mine. Also, we are not saying that we believe that these trenches are totally adequate or that they have stopped any seepage. Monitoring and further study will be required before we are completely satisfied with the seepage containment at Stauffer Chemical.

Please keep us informed on the progress of System 3 and the clean-up of GC30.

Should you have any questions please refer them to Jack Bedessem.

Respectfully,

Albert J. Berreth by *JB*
Albert J. Berreth
Area III Supervisor

AJB:mpm

cc: Cheyenne DEQ/WOD, Tony Mancini
Lander DEQ/LQD
File (2)

Al B.

8-4-81

MEMO:

TO: Tony

FR: Phil

SUBJ: STAUFFER DEWATERING SYSTEM

81-383

81-384

The specifications seem to be adequate. Some details on the groundwater flow system are necessary in order to evaluate the location of the trench in regards to depth and relative distances from the dam and nearby surface waters. Is there another segment of the report which accompanies the plans?

Returned Comments +
plans 8-11-81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Stauffer Chemical Co. of Wyoming - System 1 & 2 Trenches

ENGINEER: -----

OWNER: Stauffer Chemical Co. of Wyoming
P.O. Box 513
Green River, Wyoming 82935
Attn: J. C. Rondeau

RECEIVED
JUL 10 1981
WATER QUALITY DIVISION

WATER QUALITY DIVISION REFERENCE NUMBER: 81-383

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: July 9, 1981

ACTION: Not authorized.

COMMENTS: Before final evaluation of your trench dewatering systems can be made, the following is needed:

- 1) The drawings will need to be stamped or signed by an engineer registered in the State of Wyoming.
- 2) Please include specifications for pipe materials.
- 3) Please detail the discharge point into Sewage Pond #2.
- 4) The "General Notes" on page 2 of System 2 refer to a 12-inch drain line and the drawings show an 8-inch line. Please explain.
- 5) Please submit specifications on the filter cloth and backfilling procedure, including compaction.
- 6) Please explain what happens if both pumps are down for repairs. How would a pump be removed?
- 7) How is ventilation to be provided when working in the pump pit?
- 8) Do the pumps alternate?

A. J. C.

Review of Plans and Specifications

Stauffer Chemical Co. of Wyoming - System 1 & 2 Trenches

Date of Review - July 9, 1981

Page Two

- 9) The "General Notes" refer to material excavated from the trench as being classified as "pit run." Was this material used as backfill? What is its consistency?
- 10) What is pump cycle time? What is the volume of wastewater held between pump turn-on and shut-off?
- 11) A copy of the plans, as submitted, have been referred to the groundwater section for review. Comments, when available, will be forwarded to you.

AB:nb

xc: Steve Jones

Tony Mancini

Bill Garland

Cheyenne DEQ/WQD

File (4)

7/10/81

Permit No. 81-384R

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-384R

NOTE CONDITION ON REVERSE

STAUFFER CHEMICAL CO. OF WYOMING - TRENCH SYSTEM #4

(Name of Facility)

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

Stauffer Chemical Co. of Wyoming
P.O. Box 513
Green River, WY 82935

to construct, install, or modify a _____

Pumpback Trench System

_____ facility according to the procedures and conditions of the

application No. 81-384R. The facility is located in _____

Sec. 15, T. 20N, R. 109W

_____ in the County of Sweetwater,

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

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

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

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

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

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

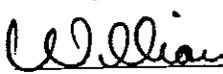
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

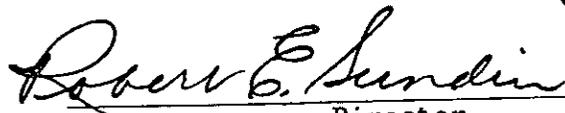
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

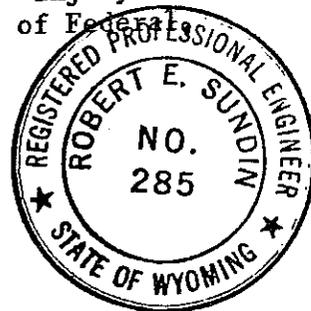
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
STATE OF WYOMING
October 2, 1981
Date of Issuance


Director
Dept. of Environmental Quality



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

CONDITION: If the trench system proves to be ineffective, permittee will be required to take remedial action which may include, but not be limited to, the installation of a pumpback system.

AJH:nb
10/5/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Stauffer Chemical Company of Wyoming - System 4 Trench

ENGINEER:

OWNER: Stauffer Chemical Co. of Wyoming
P. O. Box 513
Green River, WY 82935
ATTN: J. C. Rondeau

WATER QUALITY DIVISION REFERENCE NUMBER: 81-384

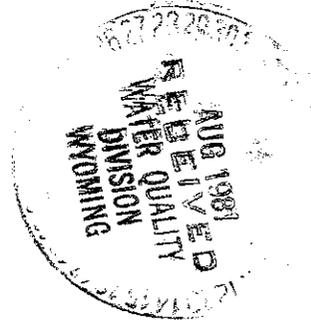
REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: August 3, 1981

ACTION: Not authorized.

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

1. The drawings need to be stamped or signed by an engineer registered in the State of Wyoming. Three sets are needed.
2. Please include specifications on pipe materials. What size are the slots?
3. Will these trenches experience any equipment loading, other than small vehicles?
4. The trench system appears to be 30 to 40 feet deep. What effect will the earth loading have on the drain pipe? What percent deflection is expected? Please furnish final calculations on this.
5. Please specify pumps. Will there be one or two? What do the piping details look like? Is a check valve to be installed? If not, will back spin be harmful to the motor? If so, what about freezing?



6. Please submit specifications on the filter cloth and back filling procedure, including compaction.
7. A copy of the plans, as submitted, have been referred to the groundwater section for review. Comments, when available will be forwarded to you.

AB:d1

8/3/81

cc: Tony Mancini, Cheyenne DEQ/WQD
File (4)

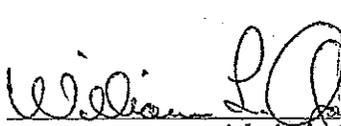
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

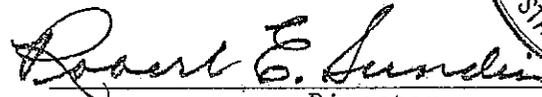
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
1479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

Administrator
Water Quality Division

July 14, 1981
Date of Issuance


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

Director
Dept. of Environmental Quality

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

RR:nb
7/14/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Exxon Fogerty Creek #1

ENGINEER: Exxon Co., U.S.A.,
P.O. Box 1600
Midland, TX 79703
ATTN: Jerold Klug

OWNER: Exxon Co., U.S.A.
P.O. Box 1600
Midland, TX 79703

WATER QUALITY DIVISION REFERENCE NUMBER: 81-385

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

DATE OF REVIEW: June 26, 1981

ACTION: Not authorized.

COMMENTS:

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

1. A ground slope of 16% requires that serial trenches with drop boxes or lines be used. A standard leach field cannot be used. Enclosed is a "Side Hill Disposal Field Detail Sheet." Please modify your application accordingly.
2. A percolation rate of 5 min./in. requires a minimum absorption area of 336 square feet. Using three-foot-wide trenches, you will need 112 feet of perforated pipe. Please show this on your revised plan sheet. Remember, you must have six feet from edge of trench to edge of trench. Refer to the "Side Hill Disposal Field Detail Sheet" for this.
3. Septic tank inlet and outlet piping must be cast iron or schedule 40 PVC for a minimum distance of five feet from the tank. Refer to the enclosed "Septic Tank Detail Sheet." This needs to be shown under Design Information, #8, on the "Checklist Sheet."

Review of Plans and Specifications - Exxon Fogerty Creek #1 (DEQ #81-385)
Date of Review - June 26, 1981
Page Two

4. On the "Checklist Sheet" it is stated the depth to the highest known groundwater is 50 feet, but on the plan view it is stated as 15 feet. Please clarify.
5. Enclosed is a "Plan Sheet." All the distances requested under the General Notes must be shown.
6. A profile is needed of the collection pipe and a detail is needed of the sewer risers. It is recommended that a cleanout be installed on the high end of the six-inch collection line and at any bends in this line. A cleanout detail is required. Please refer to Appendix A, Sec. 1.8, of Chapter III of the Wyoming Water Quality Rules and Regulations (copy enclosed) for details. The risers must conform with Chapter III.

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

FL:nb
Enclosures (4)
6/26/81

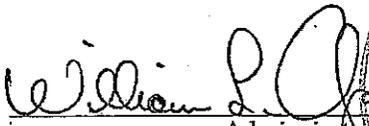
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

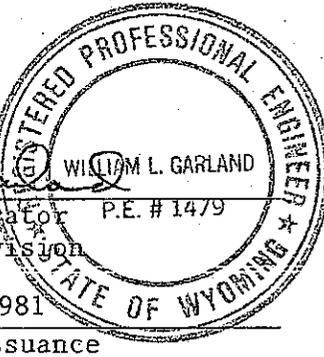
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

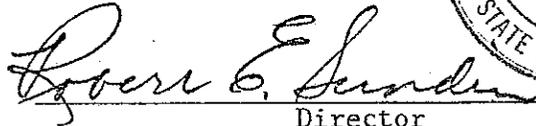
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

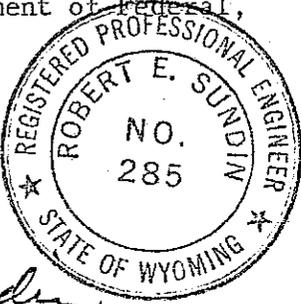
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


 Administrator
 Water Quality Division
 June 25, 1981
 Date of Issuance




 Director
 Dept. of Environmental Quality



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

FL:nb
6/26/81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-387

AMOCO SKULL POINT SULFUR TERMINAL TRUCK MAINTENANCE BUILDING
(Name of Facility)

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

Amoco Production Co. -- Agent: Stearns Roger Engineering Corp.
4500 Cherry Creek Drive
Denver, CO 80210

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

facility according to the procedures and conditions of the
application No. 81-387. The facility is located in Sec. 25, T. 20N, R. 117W

in the County of Lincoln,

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

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

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

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

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

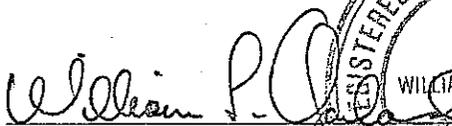
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

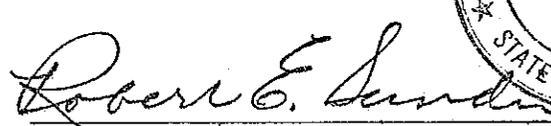
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


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

June 25, 1981
Date of Issuance


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

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

FL:nb
6/26/81

Memo

To Frank La Barge

From A J Mancini

Date July 2, 1981

Subject Amoco Skull Point Sulfer Terminal
81-388

81-388
Same as
81-141

Application is for "septic tanks w/ Leach Field", but no plans & specs for septic system are provided.

No WY PE # given.

What do State Engineer permit nos. on application (25478 and 25498) represent? They do not represent UW permits.

How does "2.0 gpm groundwater distribution system" relate to septic system? One and the same?

Volume I is titled, "Application for Permit to Construct Wastewater Pond", but application in this volume is for septic tanks w/ leach field, as mentioned earlier. There is no application form for pond construction.

Volumes II and III are also for a wastewater pond.

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

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

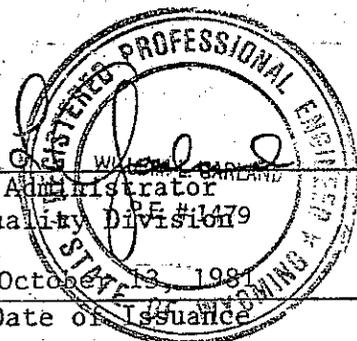
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

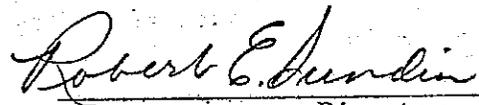
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

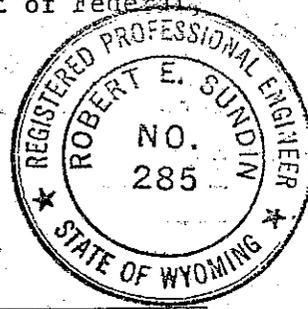


Administrator
Water Quality Division
PE #1479
October 13, 1981
Date of Issuance





Director
Dept. of Environmental Quality



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

FL:nb
10/14/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Tract "A" Wndriver Addition, Phase No. 2

ENGINEER: Costin Engineering Co.
2775 W. Hampden Avenue
Englewood, CO 80110
ATT: Steven Murray

OWNER: Pu]te Homes
Box 1305
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 81-389

REVIEWING EVALUATOR: Frank LaBarge 

DATE OF REVIEW: August 10, 1981

ACTION: Not authorized.

COMMENTS: The review of this project has been held up because the cover letter with the plans stated Pacific Power & Light would submit the Application and plans for the water system. As of this date there has not been an Application submitted for the water system. The plans submitted by Costin Engineering do show the water lines, therefore, in an effort to get this project moving, I have reviewed both the water and sewer systems and have the following comments:

Water System

1. The "Application for Permit to Construct" needs to include the proposed water-lines.
2. What is the maximum and minimum static and dynamic pressures in the proposed water line?
3. Please indicate on the plans the type, class and designation of the proposed water line.

A.C.

Review of plans and specifications
Tract "A" Windriver Addition, Phase No. 2
DEQ #81-389
August 10, 1981
Page 2

Sewer System

4. Please verify that existing 12 inch sewer lines can handle the additional flow.

General Comments

5. Is the proposed facility in a flood plain?
6. The plans must be stamped or signed by an engineer registered in the State of Wyoming.

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

FL/ch
8/12/81

xc: Cheyenne, DEQ/WQD
File



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 14, 1986

Mr. Arlan F. Schutteimeir
P.O. Box 169
Ft. Bridger, WY 82933

Dear Mr. Schutteimeir:

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

Facility Name:	<u>Schutteimeir Trailer & Shower House</u>
DEQ/WQD Reference Number:	<u>81-390R</u>
Engineering Consultant:	<u>---</u>
DEQ/WQD Review Engineer:	<u>Jack Bedessem/Bill Locke</u>
Date of DEQ/WQD Review:	<u>6-29-81</u>

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

- The application will not be resubmitted as the proposed project has been cancelled.
- The application will be resubmitted within thirty (30) days.
- The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within thirty (30) days.
- Other Remarks: _____

You are reminded that the construction, installation, or modification of any sewage 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, and is punishable with a fine not to exceed \$10,000 for each day of violation. Unless the Water Quality Division review engineer receives information concerning the status of this project within fifteen (15) days of the receipt of this letter, follow-up action will be taken.

Sincerely,

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

Bill Locke, P.E.
Water Quality Engineer

BL/jw



Department of Environmental Quality
Water Quality Division

210 Lincoln

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 13, 1981

Mrs. Liz M. Schuttemeier
P.O. Box 169
Ft. Bridger, WY 82933

RE: WQD Reference NO. 81-390

Dear Mrs. Schuttemeier:

Enclosed is a list of engineering companies, as we know them, registered to practice in the State of Wyoming.

Your request for a time extension is granted. However, it must be realized that any construction that is planned will be difficult in January.

We will be expecting your reply by January 30, 1982.

Please call if you have questions.

Respectfully,

Handwritten signature of Albert J. Berreth in cursive.

Albert J. Berreth
Southwest District Engineer

AB:ch

Enclosure

cc: Cheyenne, DEQ/WQD
Dennis Farley, Uinta County Planner
File (3)

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Schutte-meier Facility

ENGINEER:

OWNER: Arlan F. Schutte-meier
P.O. Box 169
Ft. Bridger, WY 82933

WATER QUALITY DIVISION REFERENCE NUMBER: 81-390

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: June 29, 1981

ACTION: Not authorized.

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

1. Your application form needs to be filled out and signed.
2. The application, as submitted, is classified as a large wastewater facility and needs to be signed and sealed by an engineer registered in the State of Wyoming. However, you may choose to leave the shower house off of the application and resubmit without the seal or signature of an engineer.
3. Separation between the bottom of the drainfield pipe and top of the high groundwater must be four feet. In this case, the drainfield pipe would be on the ground surface. More detail is needed on mound material. It is noted on the checklist under "Disposal," No. 7, that the depth of cover is two feet. This must be modified.
4. Please note distance from well to drainfield.
5. If the shower house is left, your engineer will need to estimate the wastewater flow from the shower house and show that the size of the septic tank and drainfield is adequate.

AB:nb

xc: Cheyenne DEQ/WQD
File (4)

6/29/81

A.B.C

M - 7-10-81
L2

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-391

Grandview Park, 5th Filing
(Name of Facility)

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

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

to construct, install, or modify a sanitary sewer and potable water mains facility according to the procedures and conditions of the application No. 81-391. The facility is located in Section 35, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

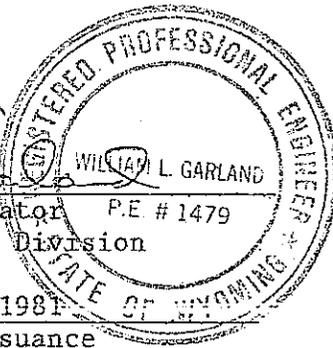
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

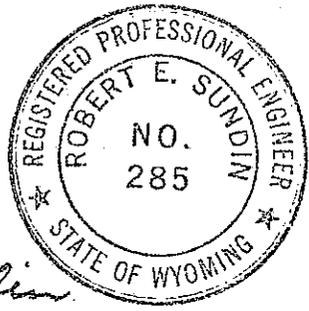


Administrator P.E. # 1479
Water Quality Division
July 8, 1981
Date of Issuance





Director
Dept. of Environmental Quality



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

cc: Joe E. Kub
BRW, Inc.
1912 Capitol Ave., Suite 300
Cheyenne, WY 82001

69/10 7-10-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-392

View Point Subdivision
(Name of Facility)

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

City of Cheyenne

2101 O'Neil Avenue

Cheyenne, WY 82001

to construct, install, or modify a sanitary sewers and potable water mains facility according to the procedures and conditions of the application No. 81-392. The facility is located in Section 22, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

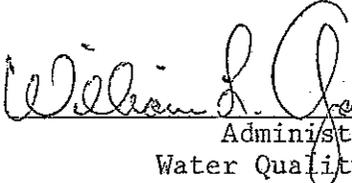
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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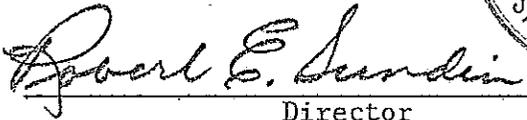
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

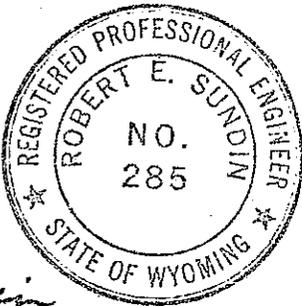


Administrator P.E. #1479
Water Quality Division
July 8, 1981
Date of Issuance





Director
Dept. of Environmental Quality



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

cc: W. Michael Taylor
BRW/Noblitt
1912 Capitol Ave.
Cheyenne, WY 82001

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

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

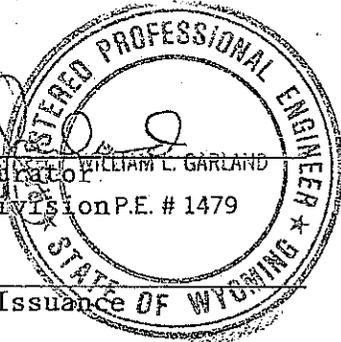
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AUTHORIZED BY:

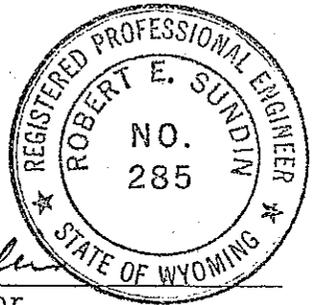


WILLIAM L. GARLAND
Administrator
Water Quality Division P.E. # 1479
March 1, 1982
Date of Issuance





ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



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

AJB:ch

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

OK

PROJECT: SUNRIDGE P.U.D. PHASE I

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

OWNER: Westview Building Co.
c/o Gage Froerer
3340 Harrison Blvd.
Ogden, UT 84403

WATER QUALITY DIVISION REFERENCE NUMBER: 81-393RR

REVIEWING ENGINEER: Al Berreth *ajt*

DATE OF REVIEW: January 20, 1982

ACTION: Not authorized.

COMMENTS:

The revised sheets have been reviewed. The invert elevations shown on the plan sheet do not agree with those on the profile sheets. This needs to be clarified before a permit can be issued.

AB:ch

cc: Wayne Shepherd
Cheyenne DEQ/WQD
File (4)

A

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Sunridge P.U.D. Phase I

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

OWNER: Westview Building Co.
c/o Gage Froerer
3340 Harrison Blvd.
Ogden, UT 84403

WATER QUALITY DIVISION REFERENCE NUMBER: 81-393

REVIEWING ENGINEER: Al Berreth *ajf*

DATE OF REVIEW: June 29, 1981

ACTION: Not authorized.

COMMENTS: The "Permit to Construct" is being held pending resolution of the following items:

- 1) A completed application form is required. The form is attached.
- 2) Manholes are needed where the service laterals tie into the mainline sewer.
- 3) It is preferred that the service laterals be straight and without bends. It appears this can be accomplished.
- 4) What is the slope of the service laterals? Some flow line elevations are missing.
- 5) What size is the main water line?
- 6) When specifying PVC pipe, please note ASTM No. and SDR or class designation.
- 7) Please detail connections to existing water and sewer.
- 8) Please show gate valves in conjunction with fire hydrants.
- 9) Water/sewer separation details should be provided since there are a large number of crossings.
- 10) The Evanston City Engineer will also have comments on the water and sewer which must be addressed. Also, we need a letter from the city, stating that they have capacity to accommodate the increased loadings.

AB:nb

7/14/81

xc: Wayne Shepard
Cheyenne DEQ/WQD
File (4)
Enclosure

A.B.C

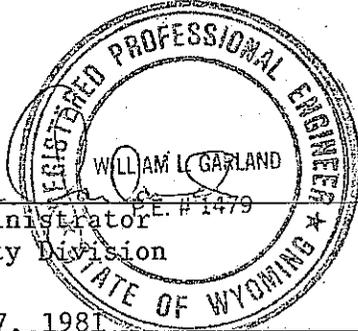
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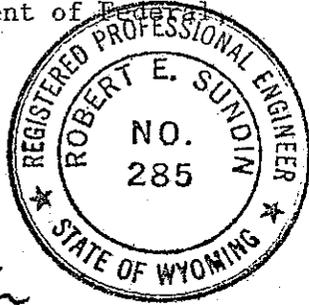
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


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



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


July 17, 1981
Date of Issuance

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

MRC:d1
7/17/81

Cheyenne

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 2, 1981

Mr. Dale Crank
Johnson, Fermelia & Crank, Inc.
P.O. Box 631
Kemmerer, WY 83101

RE: Silver Eagle Trailer Park
DEQ #81-395R, C.O. #1

Dear Mr. Crank:

The change order to include fiberglass manholes in the above referenced project has been received and reviewed. This letter constitutes acceptance of fiberglass manholes for this project.

Respectfully,

Albert J. Berreth
Albert J. Berreth
Southwest District Engineer

AJB:nb
Copy: Willard Hall
File (4)

5-4-81

PERMIT TO CONSTRUCT

New

Permit No. 81-395R

Renewal

Modified

Silver Eagle Trailer Park

(Name of Facility)

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

Silver Eagle Oil Company

LaBarge,

Wyoming 83123

to construct, install, or modify a _____

_____ water & sewer system for trailer park _____

_____ facility according to the procedures and conditions of the

application No. 81-395R. The facility is located in _____

_____ Sec. 7, T. 26N, R. 112W. _____

_____ in the County of Lincoln, _____

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

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

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

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

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

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

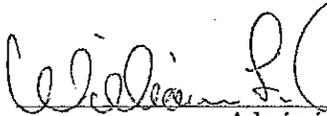
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

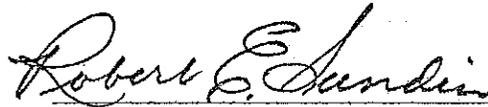
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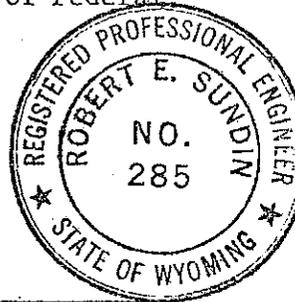
AUTHORIZED BY:


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

Administrator
Water Quality Division



Director
Dept. of Environmental Quality



July 23, 1981

Date of Issuance

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

AB:nb
7/23/81

Cher.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Silver Eagle Trailer Park

ENGINEER: Johnson, Fermelia & Crank
Box 631
Kemmerer, WY 83101
ATTN: Dale Crank

OWNER: Silver Eagle Oil Co.
LaBarge, WY 83123

WATER QUALITY DIVISION REFERENCE NUMBER: 81-395

REVIEWING ~~ENGINEER~~ EVALUATOR: Francis LaBarge

DATE OF REVIEW: July 1, 1981

ACTION: Not authorized.

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

WATER SYSTEM

- 1) A minimum size water line of six inches in diameter is required, if the line is to be used for firefighting purposes.
- 2) A peak demand of 65 GPM is required. Can this be met?
- 3) Design calculations are needed showing the anticipated maximum and minimum pressures at the high and low lots in the trailer court. A pressure test should be conducted on the main which feeds the park, and this number used as the starting point for determining the pressures.
- 4) The Town must state, in a letter, that they can adequately supply 350 gallons of water per mobile home at the required pressure of 20 psi under all conditions of flow.
- 5) Sheet 2 shows a typical six-inch water service line. Is this an error?

A, B, C

- 6) The fire hydrant should sit on a concrete slab.
- 7) Cast iron and ductile iron pipe should have a bituminous coal tar base coating approximately one mil. thick. This is not stated in the specs.
- 8) All water lines should be pressure tested to a minimum of $1\frac{1}{2}$ times the operating pressure. The specs call for pressure testing at the normal system hydrostatic pressure.

SEWER SYSTEM

- 9) A minimum slope of 2% (i.e., $\frac{1}{4}$ " per foot) is required on sewer service lines.
- 10) Sewers passing over or under water mains should be constructed of materials and with joints that are equivalent to water main standards of construction for a horizontal distance of at least ten feet on each side of the crossing and should be pressure tested to assume watertightness prior to backfilling. Adequate structural support is needed for sewers, passing over the water mains, to prevent excessive deflection of joints and settling on and breaking of the water main. In addition, the length of water pipe should be centered at the point of crossing so the joints will be equidistant and as far as possible from the sewer. The specs need to address these points. A note should be placed on the drawings referencing this specification for crossing details.
- 11) The specs do not state what type of leakage test is to be used.

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

FL:nb
7/1/81

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

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

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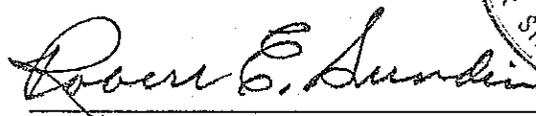
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AUTHORIZED BY:

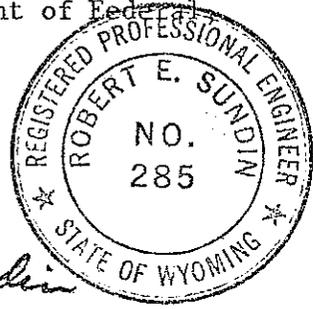


Administrator
Water Quality Division
July 1, 1981
Date of Issuance





Director
Dept. of Environmental Quality



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

JH:nb
7/1/81

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

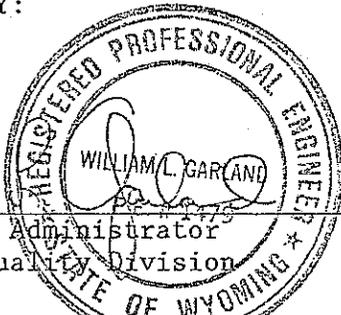
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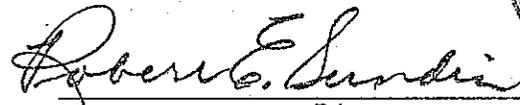
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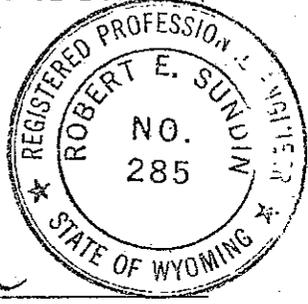
AUTHORIZED BY:



Administrator
Water Quality Division

July 6, 1981

Date of Issuance



Director
Dept. of Environmental Quality


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

AB:nb
7/6/81

L.C.B. 7-10-81

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 80-397RRR

SEE SPECIAL CONDITIONS

Industrial Area Interceptor Sewers
(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 sanitary interceptor sewers facility according to the procedures and conditions of the application No. 80-397RRR. The facility is located in Section 15, T21N, R87W in the County of Carbon, in the State of Wyoming.

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

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

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

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

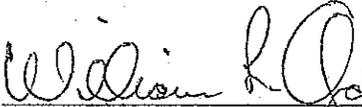
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

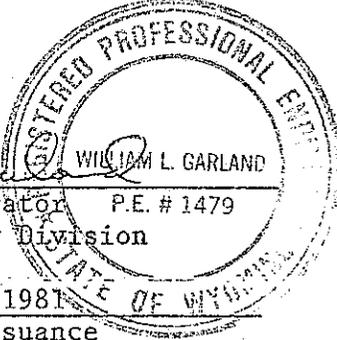
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AUTHORIZED BY: .

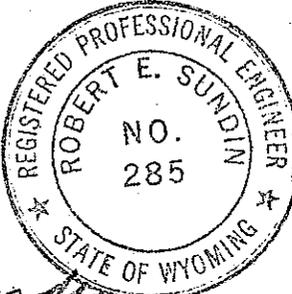


Administrator P.E. # 1479
Water Quality Division
July 8, 1981
Date of Issuance





Director
Dept. of Environmental Quality



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

SPECIAL CONDITIONS

1. Drop manhole shall be installed at Stations 2+43 and 9+64.
2. All defects in the pipe coating shall be repaired.
3. No service connections shall be installed in the sewers except at manholes.

cc: James H. Carney
P.O. Box 953
Rawlins, WY 82301

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

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

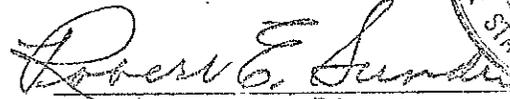
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator 1479
Water Quality Division
STATE OF WYOMING
January 5, 1982
Date of Issuance



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

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

AJB/db
1/6/82

CONDITIONS

- 1.) Groundwater monitoring may be required if it is believed that contamination is occurring. This may include but not be limited to: 1)drilling of monitoring wells at locations and in numbers acceptable to DEQ/WQD; and 2)sampling, analysis and reporting of results from the monitoring wells.
- 2.) That the facility be constructed in a timely manner.
- 3.) That a spare pump be available to prevent unnecessary overflows.



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 6, 1982

Mr. Gordon Steele
PO Box 25
Boulder, WY 82923

RE: Construction of Leach Bed, 81-398RR

Dear Mr. Steele:

The permit for the construction of the above referenced facility has been written and sent to Cheyenne for signature. You have our apology for this taking so long to process, but we are backlogged from a heavy workload.

It is important now that the leach bed be constructed as soon as weather permits.

Please keep us informed as we will want to made an inspection next summer.

If you have questions, please contact me.

Respectfully,

Handwritten signature of Albert J. Berreth in cursive.

Albert J. Berreth,
Southwest District Engineer

AJB/db

cc Rio Verde

Jeanette Montgomery (w/ plans)

✓Cheyenne DEQ/WQD

File (4)

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Pete Steele - Wastewater Treatment Facility

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

OWNER: Gordon Steele
P.O. Box 25
Boulder, WY 82923

WATER QUALITY DIVISION REFERENCE NUMBER: 81-398

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: July 10, 1981

ACTION: Not authorized.

COMMENTS: Before a "Permit to Construct" can be issued the following items need to be addressed:

- 1) It is noted that five additional trailers may be connected to the system. A permit will be needed before construction of additional sewer and water lines. What is the status of this item? That is, when will facilities be constructed, or are the facilities existing?
- 2) Please show a detail of the existing sewer risers. Modification may be needed.
- 3) Details of the inlet and outlet manholes are needed. It needs to be shown that proportionate distribution between the septic tanks can be obtained.
- 4) Please include a profile from the existing line to the field.
- 5) Inlet/outlet septic tank pipe must be either schedule 40 PVC or cast iron. This needs to be shown.
- 6) Please detail the inspection pipes. Where are they to be located?
- 7) A ten-inch layer of gravel is needed below the distribution lines.
- 8) There is a note on the drawings at the end of the leach field line that says, "Cap all ends." These lines need to be looped.

Review of Plans and Specifications

Pete Steele - Wastewater Treatment Facility, DEQ #81-398

Date of Review - July 10, 1981

Page Two

- 9) How will even distribution of the wastewater be attained with this configuration? Why is a header pipe not used?
- 10) The water table needs to be shown in relation to the bed. A minimum of four-foot separation between the piping and high water table must be maintained.
- 11) The information submitted is being reviewed by the groundwater section. In addition to that which has been submitted, the following is needed for that review: a) a map of the vicinity showing all water wells within a half-mile radius and the corresponding depth to groundwater, and, b) a copy of the chemical, radiological and bacteriological quality of the groundwater.

AB:nb

7/13/81

xc: Frank Gerlock

✓ Cheyenne DEQ/WQD

Tony Mancini, DEQ/WQD w/plans

File (4)

NORMA
Campbell

REVIEW OF PLANS AND SPECIFICATIONS

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



PROJECT: Rocky Hill Project, Process Water Pond
ARCHITECT OR ENGINEER: ARCO Coal Company
Attention: Mary Bliszcz
P.O. Box 5300
Denver, Colorado 80401
WATER QUALITY DIVISION
REFERENCE NUMBER: 81-399R
REVIEWING ENGINEER: Tom Mueller *TJM*
DATE OF REVIEW: September 14, 1981.
ACTION: Plans Satisfactory. Additional Material Required.
COMMENTS:

1. This Division requires that four (4) copies of plans for coal-related facilities be submitted. Therefore, three (3) additional copies of drawings Process Water Pond Locations Sec. 16, T.44N., R.71W., Rocky Hill Section Well Locations (Figure D-51), and Sour Water Pond No. 2 Rehabilitation should be submitted. Please note that the drawings should carry the signature of a Professional Engineer registered to practice in Wyoming.
2. When a Permit to Construct is issued, a monitoring schedule will be attached as a condition to the Permit. If ARCO will be required to monitor the leak detection dry well according to any currently existing schedule (issued by any other agency), that schedule should be forwarded in order that the Water Quality Division schedule will be compatible.

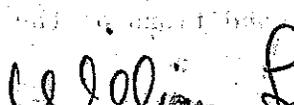
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AUTHORIZED BY:


WILLIAM L. GARLAND
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Administator
Water Quality Division
August 13, 1981


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

Date of Issuance

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