

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Elkhorn Store and Bar

ENGINEER: Tudor Engineering Co.
450 S. Federal Blvd.
Riverton, WY 82501 Attn: Richard F. Orton, Jr.

OWNER: Lee R. McNutt
555 N. VanNess
Fresno, California 93728

WATER QUALITY DIVISION REFERENCE NUMBER: 81-51

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: March 9, 1981

ACTION: Not authorized.

COMMENTS:

In a phone conversation with Mr. Ken Hake, most of my questions were answered. However, a couple of questions need to be resolved.

- 1) What is the distance between the well and the first septic tank?
- 2) Drawings need to be stamped.

cc: Cheyenne DEQ/WQD
Walker Realty
Ken Hake Construction

A/C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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933 MAIN STREET
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PHONE: (307) 332-3144



PROJECT: Elkhorn Store and Bar

ENGINEER: Tudor Engineering Co.
450 S. Federal Blvd.
Riverton, WY 82501
ATTN: Richard F. Orton, Jr.

OWNER: Lee R. McNutt
555 N. Van Ness
Fresno, California 93728

WATER QUALITY DIVISION REFERENCE NUMBER: 81-51

REVIEWING ENGINEER: Albert Berreth, P.E. *ast*

DATE OF REVIEW: February 9, 1981

ACTION: Not authorized.

COMMENTS:

The following items need to be clarified to determine whether the system was built in accordance with Wyoming Water Quality rules and regulations.

- 1) The septic tank inlet-outlet material is specified as PVC. What type of PVC was used?
- 2) The application states a discharge permit has been applied for. Is this a mistake?
- 3) What is the distance between the first septic tank and well?
- 4) Please describe leach field more completely. The field shown does not agree with that described.
- 5) Was the mound overlaid with topsoil and seeded?
- 6) Please stamp drawings.

cc: Cheyenne DEQ/WQD
Walker Realty

A.C

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 81-52

SUTHERLAND TRACT C, PHASE V RESUBDIVISION
(Name of Facility)

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

City of Gillette, c/o Jeff Smith
Box 3003
Gillette, Wyoming 82716

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

facility according to the procedures and conditions of the application

No. 81-52. The facility is located in _____

Section 33. T.50N., R.72W.

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

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

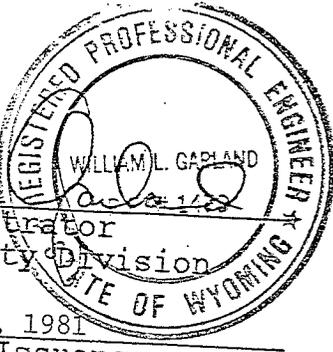
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

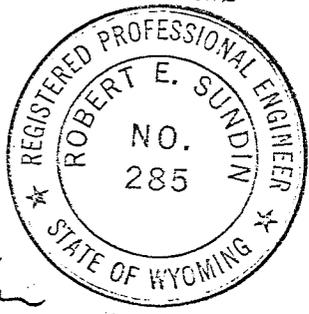
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
STATE OF WYOMING


Robert E. Sundin
Director
Dept. of Environmental Quality

March 19, 1981
Date of Issuance

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

xc: Mike McDill
3308 Sutherland
Gillette, Wyoming 82716

4-1-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-53

EAGLE BUTTE MINE SEDIMENT 811 RESERVOIR
(Name of Facility)

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

AMAX Coal Company, c/o Mike Brown
P.O. Box 3005
Gillette, Wyoming 82716

to construct, install, or modify a sediment control pond

facility according to the procedures and conditions of the application

No. 80-53. The facility is located in _____
Section 16, T.51N., R.72W.

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

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

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

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

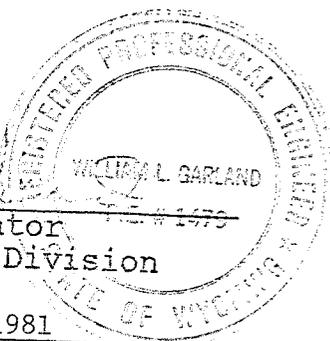
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

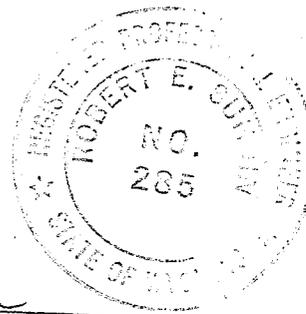


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



March 24, 1981
Date of Issuance

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

4-1-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-54

EAGLE BUTTE NPDES 008 RESERVOIR
(Name of Facility)

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

AMAX Coal Company, c/o Mike Brown
P.O. Box 3005
Gillette, Wyoming 82716

to construct, install, or modify a NPDES pond

facility according to the procedures and conditions of the application

No. 80-54. The facility is located in _____
Section 9, T.51N., R.72W.

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

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

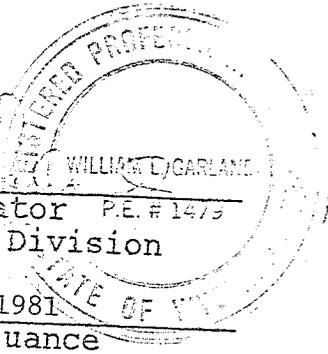
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

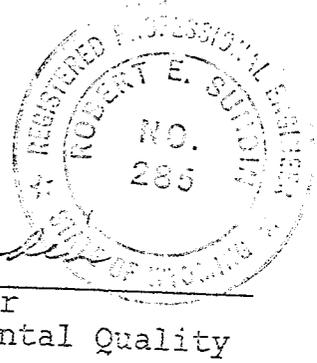
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

Administrator P.E. # 1475
Water Quality Division

March 24, 1981
Date of Issuance

Director
Dept. of Environmental Quality

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

4-1-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-55

EAGLE BUTTE NPDES 009 RESERVOIR

(Name of Facility)

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

AMAX Coal Company, c/o Mike Brown
P.O. Box 3005
Gillette, Wyoming 82716

to construct, install, or modify a NPDES pond

facility according to the procedures and conditions of the application

No. 80-55. The facility is located in _____
Section 16, T.51N., R.72W.

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

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

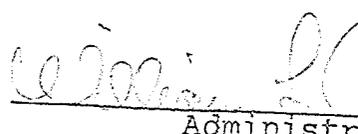
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
E.E. 10479

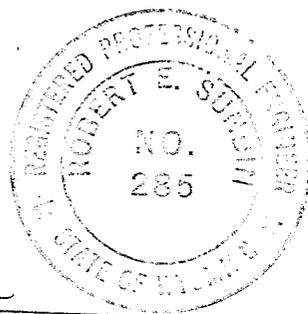
Administrator
Water Quality Division

March 24, 1981

Date of Issuance



Director
Dept. of Environmental Quality



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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-56

EAGLE BUTTE NPDES 010 RESERVOIR
(Name of Facility)

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

AMAX Coal Company, c/o Mike Brown
P.O. Box 3005
Gillette, Wyoming 82716

to construct, install, or modify a NPDES pond

facility according to the procedures and conditions of the application

No. 80-56. The facility is located in Section 17, T.51N., R.72W.

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

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

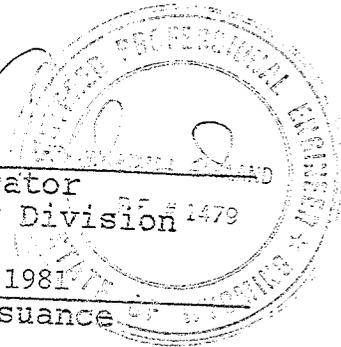
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

AUTHORIZED BY:

A circular seal for a Professional Engineer, State of Wisconsin. The text around the perimeter reads "REGISTERED PROFESSIONAL ENGINEER" and "STATE OF WISCONSIN". In the center, it says "ROBERT E. BURKIN" and "No. 285".
[Signature]

Administrator
Water Quality Division #1479
March 24, 1981
Date of Issuance

A circular seal for a Registered Professional Engineer, State of Wisconsin. The text around the perimeter reads "REGISTERED PROFESSIONAL ENGINEER" and "STATE OF WISCONSIN". In the center, it says "ROBERT E. BURKIN" and "No. 285".
[Signature]

Director
Dept. of Environmental Quality

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

4-1-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-57

EAGLE BUTTE NPDES 011 RESERVOIR
(Name of Facility)

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

AMAX Coal Company, c/o Mike Brown
P.O. Box 3005
Gillette, Wyoming 82716

to construct, install, or modify a NPDES pond

facility according to the procedures and conditions of the application

No. 80-57. The facility is located in _____
Section 16, T.51N., R.72W.

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

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

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

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

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

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

AUTHORIZED BY:

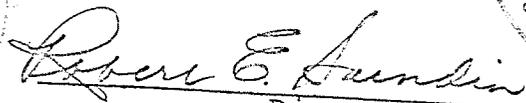


WILLIAM L. GARLAND
PE # 1479

Administrator
Water Quality Division

March 24, 1981

Date of Issuance



Director
Dept. of Environmental Quality



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

LEB

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-58R

SEE SPECIAL CONDITIONS

Energy Services Bldg Septic System
(Name of Facility)

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

CDL Corporation

341 East "E" Street, Suite 215A

Casper, Wyoming 82601

to construct, install, or modify a commercial subsurface disposal of wastewater facility according to the procedures and conditions of the application No. 81-58R. The facility is located in Tract No. 7, Tank Farm Industrial Park, 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.

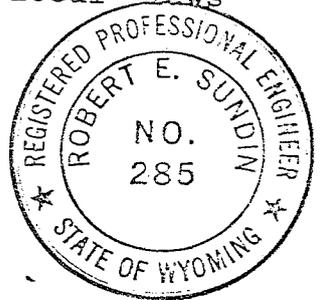
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

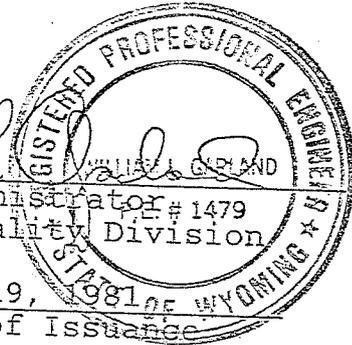
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

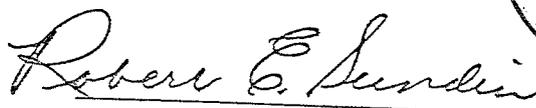
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:




William L. G. [unclear]
Administrator # 1479
Water Quality Division
March 19, 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: Chuck Davis
City-County Planners
200 N. David
Casper, WY 82601

Terry Titus
Worthington Lenhart
632 South David Street
Casper, Wyoming 82601

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.

M
2-20-81

Review of Plans and Specifications

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

PROJECT: Energy Service Building Septic System

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

WATER QUALITY DIVISION REFERENCE NUMBER: 81-58

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

DATE OF REVIEW: February 20, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The cross-section of your drainfield shows the drain pipe at a 56 inch depth. This is not in compliance with 36 inch maximum depth that is stated in Appendix B, Chapter III of the Wyoming Water Quality Rules and Regulations.
2. The application sheet is incorrectly labeled as this system is 'commercial' and not 'small'.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-59

NAVAL PETROLEUM RESERVE #3 - GAS PLANT OFFICE
(Name of Facility)

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

Fenix & Scisson, Inc.
P.O. Box 3880
Casper, Wyoming 82602

to construct, install, or modify a septic wastewater system

facility according to the procedures and conditions of the application

No. 81-59. The facility is located in Section 4, T.38N., R.78W.

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.

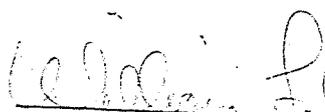
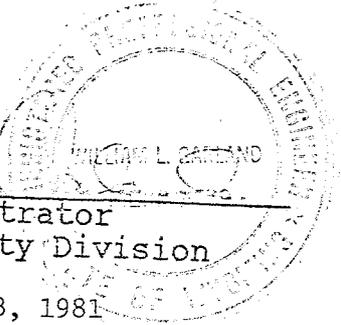
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

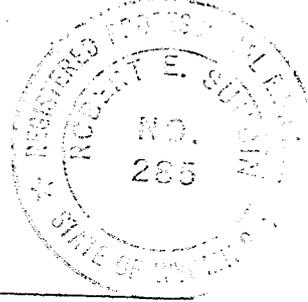
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:



 Administrator
 Water Quality Division
 March 23, 1981
 Date of Issuance



 Director
 Dept. of Environmental Quality

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

- xc: Gray C. Wangelin
 E.I.T.S.
 P.O. Box 4075
 Casper, WY 82604

- Nix Anderson
 County Sanitarian
 1200 E. 3rd Street
 Casper, WY 82601

Log E/f

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-60R

West Waterline Replacement
(Name of Facility)

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

Town of Hanna

P. O. Box 99

Hanna, WY 82327

to construct, install, or modify a 8-inch water line facility according to the procedures and conditions of the application No. 81-60R. The facility is located in Sections 18 & 19, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

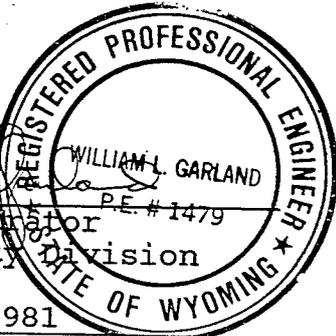
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

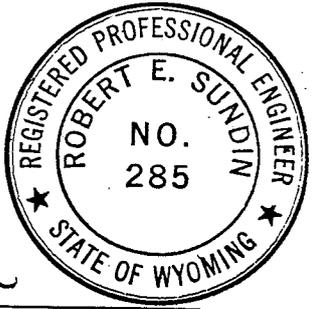
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


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


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

March 4, 1981
Date of Issuance

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

cc: Paul McCarthy
Robert Jack Smith & Assoc.
Box 1104
Rawlins, WY 82301

2 of 10

Review of Plans and Specifications

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

PROJECT: Waterline Replacement - Hanna

ARCHITECT OR ENGINEER: Robert Jack Smith and Associates, Inc.
P. O. Box 1104, Rawlins, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 81-60

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

DATE OF REVIEW: February 16, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Will the system have sufficient pressure and flow to meet the minimum pressure requirement of 20 psi under fire flow conditions?
2. The fire hydrants on the 4-inch main, which is to be abandoned, must be removed.
3. What is the purpose of the concrete tunnel at the station 13+26?
4. Valves should be installed at 500 foot maximum intervals in commercial areas and 800 foot maximum intervals in other areas.
5. Is the septic tank at station 25+00 active?
6. The water meter and valve pits (detail 400-01) shown in the specifications should be used only if they will not flood.
7. The statement on detail 400-01 which allows a sewer pipe in the meter pit should be deleted.

Leif

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-61R

See Special Condition

North Platte Sanitary Sewer - Phase II
(Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify a 164 l.f. or 48", 9703 l.f. of 42",
and 3089 l.f. of 36" diameter sewer interceptor with appurtenas and
replacing a 20 inch diameter water main facility according to the
procedures and conditions of the application No. 81-61R. The facility
is located in Sections 7, 8, 9, 18, 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 Environ-
mental 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 responsi-
bility 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 oper-
ational requirements.

The permittee shall allow authorized representatives from the Depart-
ment of Environmental Quality, Water Quality Division, upon the pre-
sentation 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.

Lef

Review of Plans and Specifications

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

PROJECT: North Platte Sanitary Sewer - Section 2

ARCHITECT OR ENGINEER: Jim W. Nollenberger, Black & Veatch Con. Eng.
12075 East 45th Ave. Suite 400, Denver, CO
80239

WATER QUALITY DIVISION REFERENCE NUMBER: 81-61 (with ref. to 80-258)

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

DATE OF REVIEW: March 9, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Plans

1. Pg. 17/34. Which manholes specifically must meet the requirements of Hole #12. I understand other manholes will have this requirement besides the Garden Creek Area. Please list these other manholes.
2. Construction within the 100-year flood zone must be described to DEQ.
3. The sewer slopes stated on the drawings are not accurate to the significant digits indicated (i.e. sewer slopes noted as 0.128% range from 0.125% to 0.133%). What are the allowable tolerances for installing the sewer as the specs do not address it except as being 'straight'.
4. In general, there appears to be considerable more manholes planned than would be necessary. By better locating the manholes, most sewer main crossing could be reduced to one.
5. Detail D of sheet 33 is not shown and/or labeled.
6. Cannot find where the cross-section of of detail C/33 is taken from.
7. No details as specifications are included for water main reaction blocking and bedding requirements.
8. Pg. 16/34. The elevation at Station 208+50 is incorrect. Should be 5103.90.

Specifications

1. General Conditions. Section 5. All change orders must also be approved by DEQ. This includes all addendums.

Supplementary Conditions. Section SC-3. The contractor should be made aware of the necessary DEQ permits for dewatering, discharging or injection which are required prior to construction.

3. Specifications. Section 2C-3.I understand the diapered joints have been ammended. Please submit the changes.
4. Specs. Section 2E. Asbestos-bonded corrugated steel pipe has not yet been approved by DEQ as an acceptable pipe material for sewers. Concern is shown for the possibility of dissolving the bituminous liner with solvents or petroleum products found in the wastewater - particularly in the Casper area. Since the soil and groundwater are also known to have petroleum products by the Amoco Refinery, concern is also expressed for the pipe's bituminous exterior.

Due to DEQ's unfamiliarity with the pipe, more information would be appreciated on the type of joint, infiltration rates, service life, etc.
5. Specs. Section 2H-3. No petroleum contaminated groundwater shall be allowed to enter the sewer.
6. Specs. Section 2I-1. Why are steps not required in the manholes? DEQ prefers steps for access.
7. Specs. Section 2I-2. Natural rubber gaskets and joint filler shall not be used in areas where petroleum products are present.
8. Specs. Figure 1-2I. Will the Class B bedding provide adequate support for the live loads encountered on the MH cover? It appears that a concrete base would be necessary. (This also applies to Section 1/32 on page 29/34 of the plans).
9. Specs. Section 25-19.06. The highly chlorinated water shall not be flushed to "waters of the State" unless a specific discharge permit it obtained to do so.
10. Specs. Section 25-19. AWWA C 601-68 should be referenced for disinfection procedures.
11. Cannot seem to find where the specs clarify when the existing sewers are to be plugged and the new sewer put in use. Obviously, this is a timing matter, but drawings show to block existing sewers when MH are constructed-which is not correct.
12. The specifications do not contain the minimum requirements for separation of water and sewer lines.

General

1. DEQ is awaiting to resolve the groundwater dewatering problems in the Amoco area. Any changes (i.e. Clay apron) will require DEQ approval prior to construction.

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

Lef

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 81-62R
Ref. No. 80-258 & 81-61R
See Special Condition

North Platte Sanitary Sewer - Section III
(Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify a wastewater collection system facility according to the procedures and conditions of the application No. 81-62R. The facility is located in Section 18, T33N, R79W and Sections 13, 14, 24, T33N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

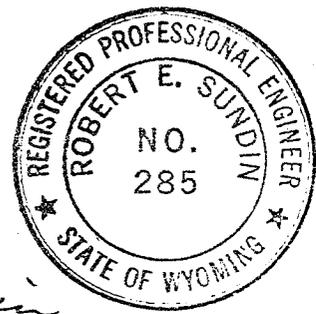
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. [Signature]
Administrator
Water Quality Division
P.E. #1479
April 28, 1987
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.

Special Condition

If sewer trench dewatering is required to complete installation, the applicant must apply to the Department of Environmental Quality, Water Quality Division, for the appropriate permit prior to initiation of the dewatering action.

A1
3-17-81

Review of Plans and Specifications

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

PROJECT: North Platte Sanitary Sewer - Section 3

ARCHITECT OR ENGINEER: John Donmyer, HNTB, 200 North Wolcott
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 81-62 (Reference 80-258 & 81-61)

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

DATE OF REVIEW: March 12, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. Plans.

1. Sheet 14/15. How will house sewers lie in relationship to the thirty inch sewer prior to connection to the eight inch sewer? It looks like the house sewers must pass through the thirty inch sewer line first.
2. Sheet 14/15. How will the six inch force main be connected to the thirty inch gravity sewer? Show detail drawing. Force main should enter gravity sewer system at a point not more than two feet above the flow line of the receiving manhole. Will Paradise Valley plant be kept in operation? I thought Paradise Valley plant was to be eliminated. If its use will be terminated, how will disconnection in Manhole 48A be accomplished?

B. Specifications.

1. General Conditions. Where is a statement indicating responsibility for obtaining all construction and/or water quality permits? The contractor should be made aware of the necessary DEQ permits for dewatering, discharging, reinjection, or contaminated soil disposal.
2. General Conditions. Section 5. All change orders must also be approved by DEQ.
3. Special Conditions. Section SC-26. The BPU Water Specifications should be included in document.

4. Special Conditions. Section SC-29. Asbestos - bonded corrugated steel pipe has not yet been approved by DEQ as an acceptable pipe material for sewers. Concern exists for the possibility of dissolving the bituminous liner with solvents or petroleum related products found in the wastewater. More manufacturer technical information would be appreciated to assist our review.
5. Special Conditions. Section SC-35. What exfiltration limits will apply? What is "exfiltration of infiltration" on page SC-21? No infiltration limits are provided.

288

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-63

SEE SPECIAL CONDITIONS

Veterinary Services, Inc.
(Name of Facility)

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

Town of Wheatland

609 9th Street

Wheatland, WY 82201

to construct, install, or modify an 8-inch sewer main facility according to the procedures and conditions of the application No. 81-63. The facility is located in Section 13, T24N, R68W in the County of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

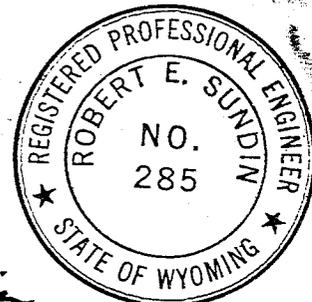
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

AUTHORIZED BY:



William L. Garland

Administrator
Water Quality Division

Robert E. Sundin

Director
Dept. of Environmental Quality

February 20, 1981

Date of Issuance

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

SPECIAL CONDITIONS

Steps in the manholes should be of the noncorrosive type.

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-64RR

BINGO SERVICE
(Name of Facility)

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

Telum, Inc.
3227 North Canyon Road
Provo, Utah 84601

to ~~construct~~, ~~install~~, or modify a sewage collection system and
water supply system for ten trailers, one service station and one cafe

facility according to the procedures and conditions of the application

No. 81-64R. The facility is located in _____
Sec. 4, T. 15N, R. 116W

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.

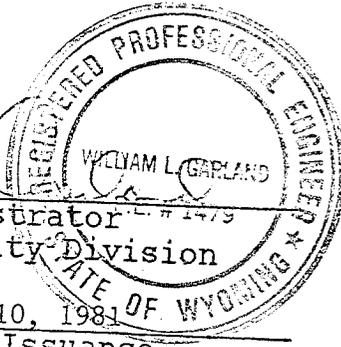
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

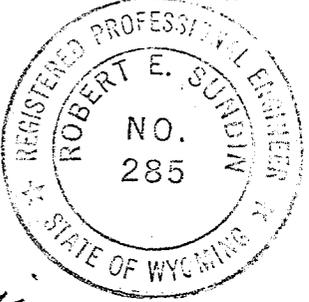
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
STATE OF WYOMING


Robert E. Sundin
Director
Dept. of Environmental Quality

April 10, 1981
Date of Issuance

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

FL:nb



THE STATE OF WYOMING

81-64

Norma

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

April 10, 1981

Telum, Inc.
3227 North Canyon Road
Provo, UT 84601

RE: Bingo Service - Fort Bridger, Wyoming

Dear Sir:

The plans for the above referenced facility have been approved. The permit to construct has been sent to Cheyenne for the necessary signatures. You should receive it in approximately two weeks, with a copy of the approved plans.

As stated in my January 14, 1981 letter, all modifications required to bring this facility into compliance with the approved plans must be completed by June 1, 1981. In addition, yield and drawdown tests results must be furnished to this office, as well as copies of the physical and chemical analyses run on the water for the existing and proposed wells.

In order to verify that minimum separation distances exist between the water and sewer lines, these lines will have to be dug up in certain locations. Have your engineer notify me at this office, when this will occur, so the findings can be verified. If the minimum distances are not met, the lines will have to be modified to confirm with minimum design standards.

A follow-up inspection will be made on June 4, 1981 to determine if the facility complies with the approved plans. If it does, a letter stating such will be issued and the case closed. If not, the Attorney General's office will be informed of our findings.

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

Yours truly,

Francis LaBarge

Francis LaBarge, Water Quality Evaluator
Southwest District

FL:nb

cc: Jake Strohmman, Engineering Control Supervisor, Cheyenne DEQ/WQD
Ken Walker, Uinta Engineering and Surveying

REVIEW OF PLANS AND SPECIFICATIONS.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Bingo Service - Fort Bridger

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

OWNER: Telum, Inc.
3227 North Canyon Road
Provo, UT 84601

WATER QUALITY DIVISION REFERENCE NUMBER: 81-64R

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

DATE OF REVIEW: March 24, 1981

ACTION: Not authorized.

COMMENTS:

- 1) Resolved.
- 2) The capacity of the wells is needed. The capacity of the existing well can be determined when the equipment is on-site for the yield and drawdown tests on the proposed new well. This information must be furnished to this office to verify the wells are adequate.
- 3) Resolved.
- 4) Physical and chemical analysis of the water in the existing well has not yet been received. This information will be required on the proposed new well, also.
- 5) Resolved.
- 6) Resolved.
- 7) The existing well "B" should be grouted at least 20 feet below original or final ground elevation or into the clay layer. Can this be determined?
- 8) Resolved.
- 9) Resolved.

A, B, C

Review of Plans and Specifications -- Bingo Service - Fort Bridger
Date of Review - March 24, 1981
Page Two

- 10) Resolved.
- 11) Resolved.
- 12) Resolved.
- 13) Resolved.
- 14) Drop pipe material should be noted on the plans.
- 15) Resolved.
- 16) Disconnects for removing the submersible pump are not shown on the well detail. They should be.
- 17) Details are needed of how the top well plate on the casing will support the pump.
- 18) Resolved.
- 19) A splash pad should be provided under the discharge pipe. This should be shown on the drawing.
- 20) Resolved.
- 21) Resolved.
- 22) Resolved.
- 23) Resolved.
- 24) Resolved.
- 25) Resolved.
- 26) Resolved.
- 27) The typical water riser shown on the plans is unacceptable. The water riser must meet minimum design standards, as defined in Chapter III of the "Wyoming Water Quality Rules and Regulations." A detail is needed of the revised water riser.
- 28) Resolved.
- 29) Resolved.
- 30) Resolved.
- 31) To be determined at a later date when pipes are uncovered.

- 32) See #31.
- 33) See #31.
- 34) Resolved.
- 35) Acceptability will be determined when pipes are uncovered.
- 36) Resolved.
- 37) To be determined in the field.
- 38) A six (6) inch line will be required from the service station and cafe, replacing the existing four (4) inch line. A manhole will be required at one end of this line. This revision needs to be shown on the plans, along with a profile.
- 39) See #38.
- 40) See #38.
- 41) See #38.
- 42) The plan view does not show the turn on the sewer line at 0 + 85 being made through a septic tank.
- 43) The septic tanks are undersized. Why are they being used? Wasn't the lagoon designed to handle the wasteloading?
- 44) Resolved.
- 45) Resolved.
- 46) Resolved.

ADDITIONAL COMMENTS

- 48) When the old well is abandoned, it should be plugged and sealed. No reference has been made to this.
- 49) The pump house needs ventilation.
- 50) Well B is to be reconstructed in accordance with these plans -- is this correct?

Please submit the necessary information, in triplicate, to this office within two (2) weeks of your receipt of this review. If you have any questions, please call me.

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

March 25, 1981

CERTIFIED MAIL

Telum, Inc.
3227 North Canyon Road
Provo, UT 84601

RE: Bingo Service - Fort Bridger
DEQ Ref. No. 81-64R

Dear Sir:

A review of your March 13, 1981 reply to my February 17, 1981 review letter has been completed. As you can see from my latest review letter (copy enclosed), several points remain to be resolved. It should be self-explanatory.

When it has been determined the plans meet minimum design standards, a "Permit to Construct" will be issued. I will then be in contact with you and your engineer to set up a date for an on-site inspection.

A reply is due within two (2) weeks of your receipt of this letter. Failure to receive it within this time frame will result in this office recommending enforcement action.

Yours truly,

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

Francis LaBarge
Water Quality Evaluator
Southwest District

FL:nb

Enclosure

cc: Cheyenne DEQ/WQD

Ken Walker, Uinta Engineering & Surveying, Inc.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

CERTIFIED MAIL

PROJECT: Bingo Service
Fort Bridger, Wyoming

ENGINEER: Kenneth Walker
Uinta Engineering & Surveying, Inc.
808 Main Street
Evanston, WY 82930

OWNER: Telum, Inc.
3227 North Canyon Road
Provo, Utah 84601

WATER QUALITY DIVISION REFERENCE NUMBER: 81-64

REVIEWING EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: February 17, 1981

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

COMMENTS: The following items remain to be clarified.

Water System

1. Calculations of required volumes of water for the cafe, service station and all mobile homes are needed.
2. What is the capacity of these wells? If this figure is unknown, yield and drawdown tests should be performed on each well. The capacity of the wells and pumps in a hydropneumatic system should be at least six (6) to ten (10) times the average daily consumption rate of the community.
3. Is standby power available?
4. A complete physical and chemical analysis of the water is required.
5. What are the specifications of the six (6) inch steel casings in the wells?
6. Details are needed of the submersible pumps. It is my understanding that Meyers does not make a four (4) inch submersible pump.
7. How far down are the well casings grouted?
8. Is Bingo Service located in a known flood plain?

A, B, C

9. What is the width and depth of Manhole "B"?
10. What materials are these manholes constructed of?
11. Are the manholes watertight?
12. What type of floor do the manholes have in them?
13. How is the sanitary well seal sealed where the power cable and discharge pipe penetrates it?
14. What material is the drop pipe made of?
15. The electrical cables should be attached to the drop pipe at twenty (20) feet intervals or less. Is it?
16. How can these pumps be pulled? No valves or disconnects are shown.
17. How are these pumps supported?
18. A check valve, shutoff valve, pressure gauge, flow meter, and a smooth nosed sampling tap should be located at a point where positive pressure is maintained. Does this system have these features?
19. The discharge piping should be provided with a means of pumping to waste, but should not be directly connected to a sewer. Has this been provided for?
20. How are these manholes drained?
21. Are these wells vented in any way?
22. Are these pressure tanks ASME approved or do they comply with the requirements of AWWA standards for the construction and installation of unfired pressure vessels?
23. Pressure tanks should be located above the normal ground surface and be completely housed.
24. The gross volume of the pressure tanks, in gallons, should be at least ten (10) times the capacity of the pump. What is the capacity of these pumps and tanks?
25. Pressure tanks should have bypass piping. Can these tanks be isolated for repair or service?
26. Each tank should have an access manhole, a drain and control equipment consisting of pressure gauge, watertight glass, automatic or manual air blowoff, mechanical means for adding air and pressure operated start-stop controls for the pumps. Do the tanks meet these requirements?
27. Details are needed of a typical water riser including material specifications.
28. What is the material specification for the water lines?

29. Were these water lines disinfected prior to use?
30. What is the distance from the wells to the sewer line?
31. What is the vertical separation where the water and sewer lines cross? What pipe is on top?
32. What is the horizontal separation distances between the water and sewer lines?
33. What is the horizontal separation distances between the water and sewer risers?
34. Details are needed of the water faucet riser.
35. To what construction specifications were the water and sewer lines installed?

Sewer System

36. Details are needed of a typical sewer riser.
37. Grades need to be shown for all sewer lines.
38. Calculations are needed verifying that the four (4) inch line from the service station and cafe can adequately handle all flows imposed on it. This includes the additional flows mentioned in your January 7, 1981 letter. Normally, the smallest line DEQ will approve is six (6) inches.
39. If this four (4) inch line plugs, how can it be cleaned?
40. Do you know what the specifications are for this sewer pipe?
41. A manhole or cleanout should be located at each end of all sewer lines. Are there any cleanouts?
42. A manhole is needed at Station 0+85 SL "G".
43. Details are needed of the septic tanks.
44. How often are they cleaned?
45. Calculations are needed to verify the six (6) inch sewer line can handle the flow imposed upon it and it meets a minimum velocity of 2 fps.

Additional Comments

46. Please fill out, but do not sign, the enclosed "Application for Permit to Construct".
47. This does not constitute a final review.

Please submit the necessary information, in triplicate, to this office within thirty (30) days of your receipt of this review. If you have any questions, please call me.

FL/kn

Enclosure

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 17, 1981

CERTIFIED MAIL

Telum, Inc.
3227 North Canyon Road
Provo, Utah 84601

Re: Bingo Service, Fort Bridger,
WY - DEQ #81-64

Dear Sir:

A review has been made of the "as built" plans submitted to this office. A review letter, copy enclosed, has been sent to your engineer asking for additional information. A reply is due thirty (30) days from your receipt of this letter.

Several points have been raised in this review. Any further comments will be made after your reply to this review has been made. As a reminder, failure to receive a reply within thirty (30) days will result in this office recommending enforcement action.

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

Yours truly,

Francis LaBarge

Francis LaBarge
Water Quality Evaluator
Southwest District

FL/kn

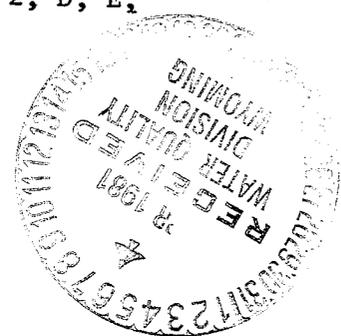
Enclosure

cc: Cheyenne DEQ/WQD
Ken Walker - Uinta Engineering & Surveying, Inc.

C. Jensen

REVIEW OF PLANS AND SPECIFICATIONS

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



PROJECT: WYMO Mine Reservoirs (A, B, C-1, C-2, D, E, and F) and Diversion Ditches

ARCHITECT OR ENGINEER: William Fischer, P.E.
Morrison-Knudson Company
P.O. Box 7808
Boise, Idaho 83729

WATER QUALITY DIVISION REFERENCE NUMBER: 81-65R through 81-78R

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

DATE OF REVIEW: April 2, 1981

ACTION: Not Authorized for Construction (see comments)

COMMENTS:

1. "Reservoir Construction Detail" drawing must show the following information for NPDES Reservoirs:
 - A. Maximum sediment level prior to clean out (this elevation should be marked on the staff gauge).
 - B. Water level resulted from 10 year - 24 hour storm event.
 - (1) Although water level for 50 year - 24 hour storm event was shown, 10 year - 24 hour water level is still needed to identify the storage volume reserved for pit water.
 - (2) Runoff volume resulted from 10 year - 24 hour event should also be shown.
 - C. Estimated flow rate of pit water to be pumped into each reservoir, available storage for pit water during 10 year - 24 hour storm event, and minimum detention time.
2. Although several subdrainage areas were shown in Table MP-5 and MP-17, the following items are still not clear.
 - A. Which drainage areas belong to which reservoir?
 - B. Runoff from which drainage areas are to be diverted or discharged into the reservoirs?
 - C. Were all subdrainage areas within Section 16 considered to be disturbed areas?

3. We are not familiar with TR-20 computer model and the attached computer output is quite confusing due to lack of process index. Please describe briefly the equation or procedure used for computing the peak flow for ditch design and runoff volume if they are different from S.C.S. method. Has the "muskingum method" been used for flood routing?
4. Mine Plan maps indicate that runoff and sediment control berms are to be provided for the stockpiles. Does the runoff collected by the berms overflow into the adjacent NPDES reservoirs or mine pit? If so, indicate those secondary receivers and the channel that will transport the flow. If not, these structures must be designed to retain the runoff and sediment resulted from 10 year - 24 hour event.
5. NPDES permit requires that the flow measuring device for the NPDES pond outfalls must indicate values within ten (10) percent of the actual flow. Please discuss if this requirement can be met.
6. Construction details for bentonite liner for the Reservoir C-1 is needed.
7. Construction specifications for pond dams and dikes are needed, including compaction, seeding, cuts and fills, etc.
8. Reservoir D has a 24" CMP outfall with a gate valve. Please indicate the elevation of the inlet opening of the outfall pipe in relation to maximum sediment level.
9. Construction Reservoir for railroad spur culvert still needs a construction permit although it is to be a temporary use. Please submit design information such as inflow rate, detention time, etc., along with a separate DEQ application form.

Note: Due to the number of comments, this is not considered a final review.

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

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

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AUTHORIZED BY:

William L. Garland
WILLIAM L. GARLAND
No. 1479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

Administrator
Water Quality Division

November 6, 1981
Date of Issuance

Robert E. Sundin
Director
Dept. of Environmental Quality

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

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

cc: Robert L. Thornton
Morrison-Knudsen Co., Inc.
P.O. Box 7808
Boise, Idaho 83729

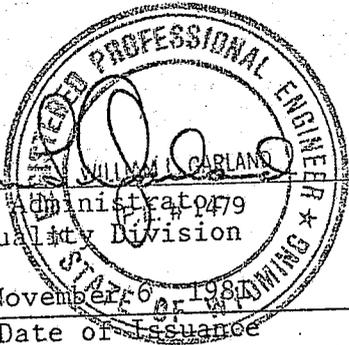
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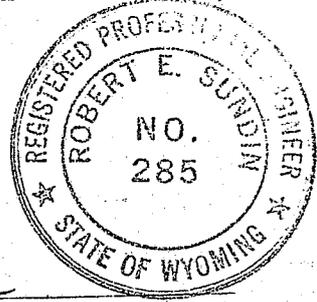
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AUTHORIZED BY:

A circular seal for a Registered Professional Engineer, William Garland, State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER", "WILLIAM GARLAND", "STATE OF WYOMING", and "NO. 1479".
William Garland
Administrator #1479
Water Quality Division
November 6, 1984
Date of Issuance

A circular seal for a Registered Professional Engineer, Robert E. Sundin, State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER", "ROBERT E. SUNDIN", "STATE OF WYOMING", and "NO. 285".
Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Robert L. Thornton

11-17-8
PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 81-67RRR

WYMO Mine Reservoir C
(Name of Facility)

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

WYMO Fuels, Inc.

1330 Baltimore Ave.

Kansas City, Missouri 64105

to construct, install, or modify a NPDES reservoir

facility according to the procedures and conditions of the application No. 81-67RRR. The facility is located in Sec. 16, T.45N., R.70W.

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

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

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

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

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

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

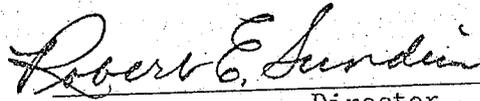
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AUTHORIZED BY:


WILLIAM L. GARLAND
1479
Administrator
Water Quality Division
STATE OF WYOMING
November 6, 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: Robert L. Thornton

M 11-17-8

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-68RRR

WYMO Mine Reservoir D
(Name of Facility)

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

WYMO Fuels, Inc.
1330 Baltimore Ave.
Kansas City, Missouri 64105

to construct, install, or modify a NPDES reservoir

_____ facility according to the procedures and conditions of the application No. 81-68RRR. The facility is located in Sec. 16, T.45N., R.70W.

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

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

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

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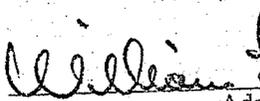
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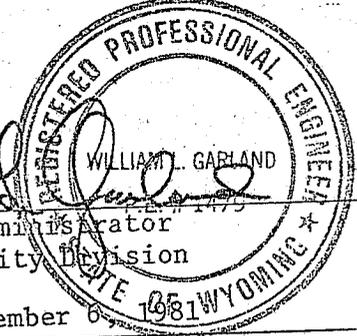
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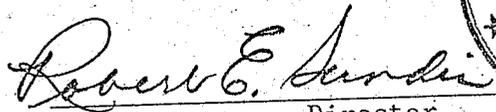
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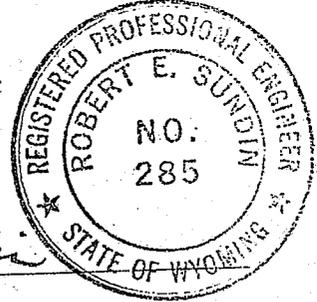
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AUTHORIZED BY:


WILLIAM J. GARLAND
Administrator
Water Quality Division
November 6, 1981
Date of Issuance




Director
Dept. of Environmental Quality



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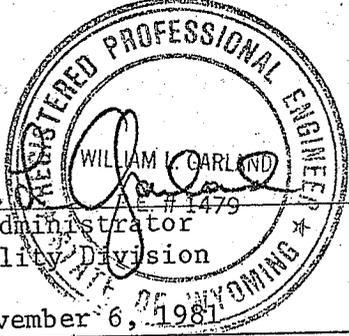
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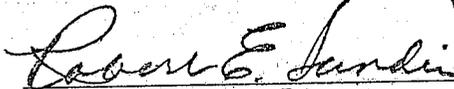
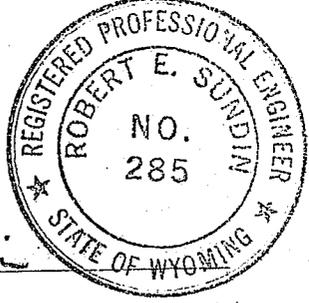
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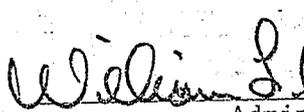
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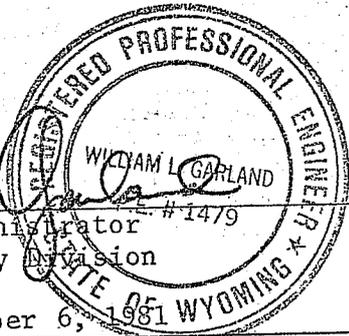
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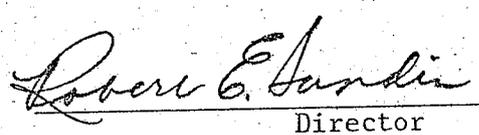
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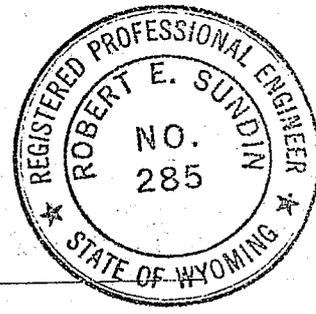
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#1479
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November 6, 1981
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Director
Dept. of Environmental Quality



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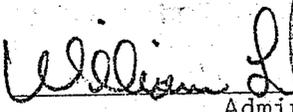
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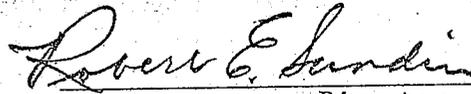
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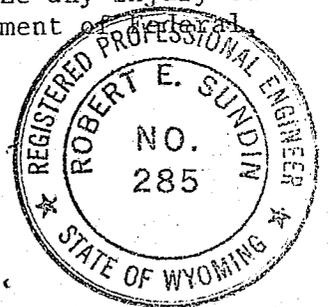
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WILLIAM L. GARLAND
1979
Administrator
Water Quality Division
STATE OF WYOMING
November 6, 1981
Date of Issuance


Director
Dept. of Environmental Quality



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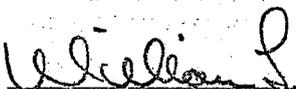
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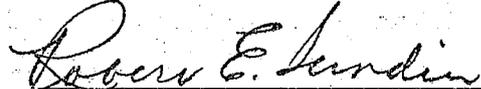
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AUTHORIZED BY:


WILLIAM L. GARLAND
REGISTERED PROFESSIONAL ENGINEER
No. 179
STATE OF WYOMING
Administrator
Water Quality Division
November 6, 1981
Date of Issuance


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

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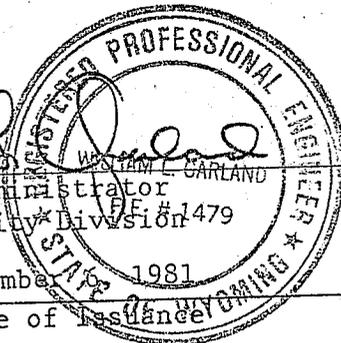
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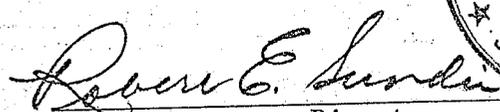
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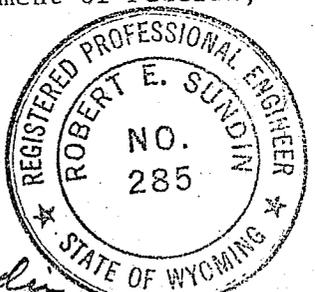
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Administrator
Water Quality Division #1479
November 1981
Date of Issuance




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Director
Dept. of Environmental Quality



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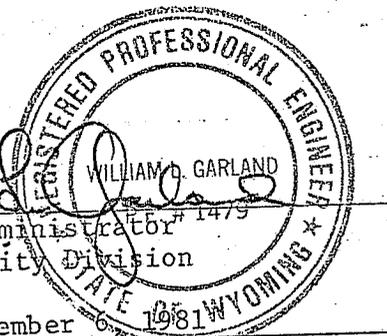
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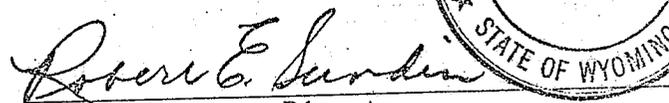
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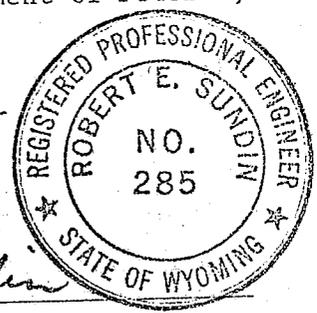
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WILLIAM D. GARLAND
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Water Quality Division
November 6, 1981
Date of Issuance




Director
Dept. of Environmental Quality



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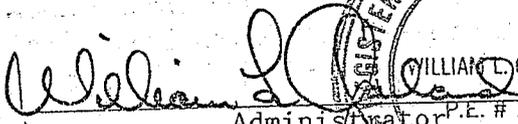
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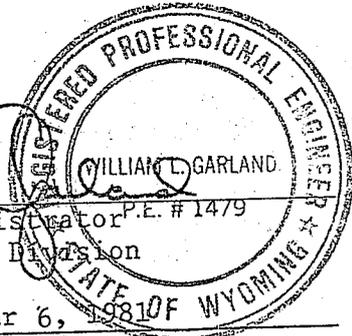
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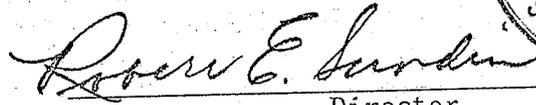
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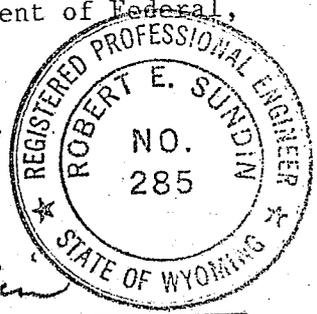
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WILLIAM L. GARLAND
Administrator P.E. # 1479
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November 6, 1981
Date of Issuance




Director
Dept. of Environmental Quality



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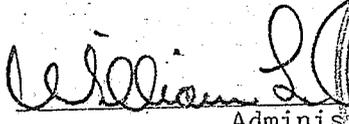
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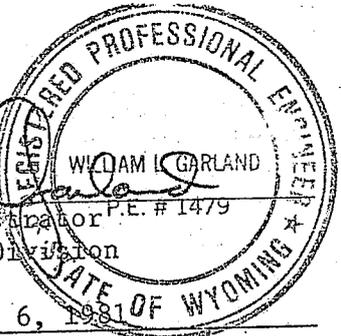
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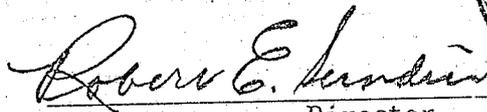
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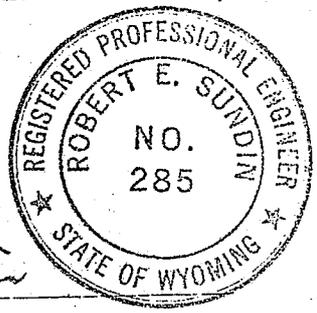
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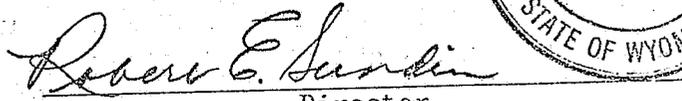
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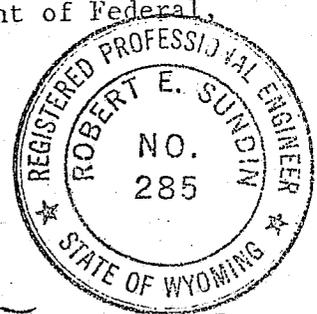
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING
November 6, 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 L. Thornton

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-78RRR

WYMO Mine Ditch 7
(Name of Facility)

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

WYMO Fuels, Inc.
1330 Baltimore Ave.
Kansas City, Missouri 64105

to construct, install, or modify a diversion ditch

facility according to the procedures and conditions of the application No. 81-78RRR. The facility is located in Sec. 21, T.45N., R.70W.

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

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

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

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

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

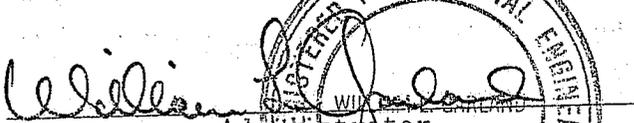
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

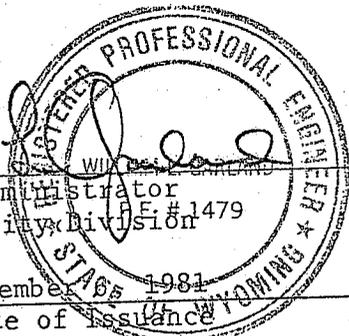
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

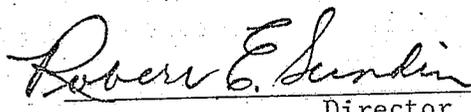
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

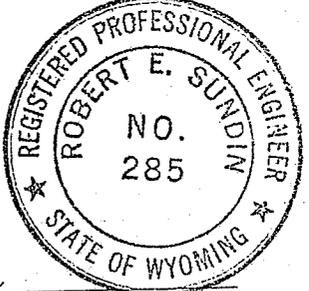
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
P.E. # 1479
November 25, 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 L. Thornton



THE STATE OF WYOMING

81-79 M
3-18-81
ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1981

Mr. David W. Hill, P.E.
Casper Board of Public Utilities
200 North David Street
Casper, Wyoming 82601

RE: Standard Specifications for Water Mains - Casper Board
of Public Utilities

Dear Mr. Hill:

The Casper Board of Public Work's "Standard Specification for Water Mains" have been reviewed and are in compliance with the Water Quality Rules and Regulations.

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

Very truly yours,

Theodore D. Coyer, P.E.
Environmental Engineer

TDC/ad

Review of Plans and Specifications

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

PROJECT: Standard Specifications for Water Mains

ARCHITECT OR ENGINEER: David W, P.E., Casper Board of Public
Utilities, 200 North David, Casper, Wyoming
82601

WATER QUALITY DIVISION REFERENCE NUMBER: 81-79

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

DATE OF REVIEW: February 23, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Design Criteria, Section II, 2.08-15, "Cross connections and Interconnections"

The second sentence of the first paragraph is unacceptable. DEQ will accept nothing short of a physical separation between the public water supply distribution system and a secondary system which may contain sanitary waste or a chemical contaminant. We suggest the following statement instead:

An air gap of at least two (2) pipe diameters, (but not less than one (1) inch nor need be greater than twelve (12) inches), shall be provided betweenm the distribution system and a secondary system which may contain sanitary wastewater or a chemical contaminant.

2. Standard Specifications

- a. Section 18,C,7: The sites for flushing the highly chlorinated water should be indicated in the specifications or on the plans. Care must be taken to prevent this water from reaching a surface body of water.
- b. Section 19,B,Z,a: Should "B.2" be A,Z,b?
- c. Section 19,B,2: Should "A Be B,1?"

4-14-82

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 81-80RR
SEE SPECIAL CONDITION

Construction of Turner Nos. 1 and 2 and Pope No. 4 Water Well
(Name of Facility)

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

City of Laramie

City Hall, P.O. Box C

Laramie, WY 82070

to construct, install, or modify a public water supply source development and treatment system facility according to the procedures and conditions of the application No. 81-80RR. The facility is located in Section 25, T16N, R73W and Sections 14 and 15, T15N, 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.

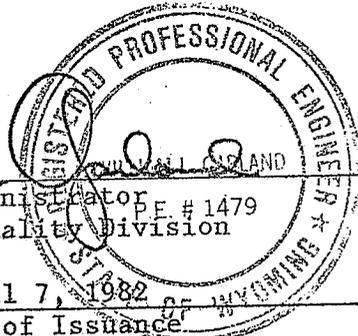
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

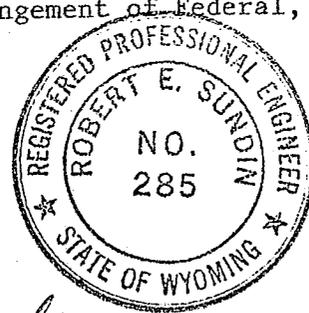
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

Adminisrator P.E. # 1479
Water Quality Division
April 7, 1982
Date of Issuance



Director
Dept. of Environmental Quality



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

Condition to Permit to Construct

The applicant shall sample and analyze water from Turner Well #2, on an annual basis from the date of this permit, for the following parameters: sodium, magnesium, calcium, chlorides and TDS. These results will be submitted to the Water Quality Division immediately after completion of the analyses.

cc: Victor Anerson
Banner Associates, Inc.
P.O. Box 550
Laramie, WY 82070

Tony Mancini, DEQ/WQD, Cheyenne

Lef M 4-29

Review of Plans and Specifications

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

PROJECT: Turner and Pope Spring Well Improvements

ARCHITECT OR ENGINEER: Victor Anderson, Banner Assoc.
P. O. Box 550, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 81-80R

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

DATE OF REVIEW: April 28, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Based upon the information contained in your April 6, 1981 letter and a discussion with our geological engineer, complete chemical analysis of the raw water from each proposed water well must be completed and submitted to this Division for compliance with the EPA Safe Drinking Water Act. Parameters should cover the inorganic and radiological items (both primary & secondary). Since the water quality in the Casper formation cannot be considered homogeneous, the requirement to determine its quality must be met.
2. Application for a Permit to Construct must also include the evaporative treatment pond for chlorination/fluoridation building. Provide design details/information, including proposed water quality, flow rate, sizing, depth to groundwater, groundwater quality, etc.
3. Well Pumphouses Layout Plan, page 9/12. Where is the capability for sampling raw water at the well head? (Section 3.2.7.3/Ten State Standards).
4. How will the air vacuum valve manhole be drained when surface waters enter? (page 9/12).
5. What is the groundwater level in the vicinity of the blow-off valves? How will security be maintained on the flap valves?
6. To avoid precipitation of fluoride, the fluoride compound should not be added before lime-soda softening and shall not be added before ion exchange softening.

7. How will fluoride dust collector be ventilated? The enclosure shall be provided with an exhaust fan and dust filter which place the hopper under a negative pressure. Air exhausted from fluoride handling equipment shall discharge through a dust filter to the outside atmosphere.
8. What personal protective equipment will be provided for fluoride handling?
9. Will chlorination/fluoridation building be heated to prevent freezing and allow proper storage of protective equipment?
10. A note indicating the use of the Wyoming Public Works Standards Specifications, 1979 edition, must be placed on plans.

Review of Plans and Specifications

M
3-17-81

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

PROJECT: Construction of Turner Nos 1 and 2 and Pope No 4 Water Wells

ARCHITECT OR ENGINEER: Victor Anderson, Banner Associates, Inc.
P. O. Box 550, Laramie, Wyoming 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 81-80

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

DATE OF REVIEW: March 10, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. We have no objection to drilling the proposed water wells in order to obtain pump tests and to collect water samples for compliance with the EPA Safe Drinking Water Act primary and secondary standards. Before issuing a Permit to Construct for the wells, we will need the above information. I would prefer to review the water well design and transport water mains as one project and issue one Permit to Construct for the project. Please provide the water main plans and specifications, along with the well test data/water analyses, with your next submission.
2. Is the existing water treatment plant capable of handling the additional hydraulic load?

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 81-81R

MOUNTAIN VIEW RANGER DISTRICT - WASATCH NATIONAL FOREST
(Name of Facility)

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

District Ranger, Wasatch National Forest

P.O. Box 129

Mountain View, WY 82939

to ~~construct~~ ~~install~~ ~~or~~ modify a water distribution system

facility according to the procedures and conditions of the application

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

Sec. 24, T. 15N, R. 115W

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.

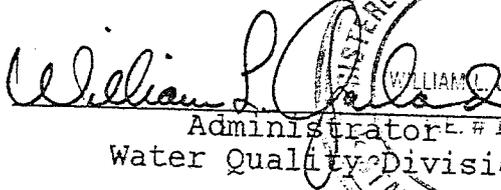
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

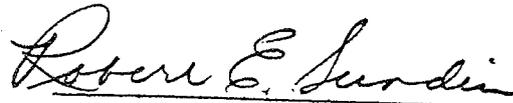
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

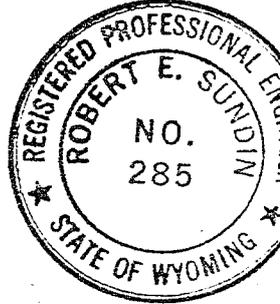
ning in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
STATE OF WYOMING
April 20, 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:NB

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Mt. View Ranger District - Wasatch National Forest

ENGINEER: ?

OWNER: District Ranger, Wasatch National Forest
P.O. Box 129
Mt. View, WY 82939

WATER QUALITY DIVISION REFERENCE NUMBER: 81-81

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

DATE OF REVIEW: March 12, 1981

ACTION: Not authorized.

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

- 1) On the Application for Permit to Construct:
 - List the State Engineer's permit number for the water source. This probably can be obtained from the town records.
 - Where does the water go after it has been used? Into the town wastewater system? (This is question #5.)
 - The section for the name of the engineer, etc., must contain that of a Wyoming Professional Engineer. Enclosed is a new application form - fill it out and resubmit it. A copy should also be sent to Mr. Louis Allen of the State Engineer's Office.
- 2) Has the local fire marshall approved the proposed fire hydrant location? If not, he should.
- 3) A letter is needed from the Town of Mt. View stating they will allow the connection to their system and that they can adequately supply sufficient volumes of water at minimum pressures to meet your needs.
- 4) A profile of the six (6) inch main is needed.

... /2

A, B, C

Review of Plans and Specifications
Mt. View Ranger District - Wasatch National Forest
Date of Review - March 12, 1981
Page Two

- 5) A hydraulic analysis of the main line is required. This includes anticipated pressures in the line.
- 6) Pipe specifications and class should be called out on the drawings. ASTM D2241 has been derated by this department as follows:
 - Class 160 to 100 psi
 - Class 200 to 125 psiYour pressure calculations will verify the correct class.
- 7) A detail is needed showing the connection to the existing eight (8) inch main. This should include thrust blocking.
- 8) Will the fire hydrant be located within ten (10) feet of any sanitary sewer or storm drain?
- 9) The fire hydrant should sit on a concrete slab. The detail on Sheet 2 of 4 does not show this.

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

FL:nb

Enclosure

cc: John W. Nielsen - Forest Engineer, Wasatch National Forest



Department of Environmental Quality

Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 18, 1981

Mr. John W. Nielsen
U. S. Forest Service
Wasatch National Forest
125 South State
Salt Lake City, UT 84138

Re: Mountain View Ranger District - Wasatch National Forest
DEQ Ref. No. 81-81

Dear Mr. Nielsen:

The plans submitted to this office carry the signature of an engineer registered in the State of Utah. As stated in Chapter III of the Wyoming Water Quality Rules and Regulations (copy enclosed) and my January 7, 1981 letter to Mr. Jim Elsea (copy enclosed), the plans must be signed by an engineer registered in the State of Wyoming.

The plans cannot be accepted for review and are being returned to you. If you have any questions, please contact me at this office.

Yours truly,

Francis LaBarge

Francis LaBarge
Water Quality Evaluator
Southwest District

FL:nb

Enclosures (2)

cc: Cheyenne DEQ/WQD

Jim Elsea - U.S. Forest Service

Vern Mitchell - Wasatch Design Center

Alfred W. Walker - District Ranger, Wasatch National Forest

m 4-20-81

PERMIT TO CONSTRUCT

New

Permit No. 81-82

Renewal

Modified

CABALLOS ROJO FACILITIES POND NO. F-1

(Name of Facility)

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

Mobil Oil Corporation

P.O. Box 5444

Denver, Colorado 80217

to construct, install, or modify a runoff and washdown water
control pond

facility according to the procedures and conditions of the application

No. 81-82. The facility is located in

Sections 2 and 11, T.47N., R.71W.

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

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

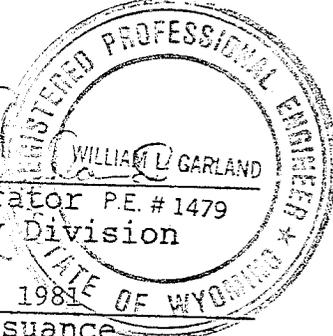
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

AUTHORIZED BY:


William L. Garland

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

April 10, 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.

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

PERMIT TO CONSTRUCT

New

Permit No. 81-83

Renewal

Modified

CABALLOS ROJO FACILITIES POND NO. F-2

(Name of Facility)

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

Mobil Oil Corporation

P.O. Box 5444

Denver, Colorado 80217

to construct, install, or modify a runoff and washdown
water control pond

facility according to the procedures and conditions of the application

No. 81-83. The facility is located in

Section 2, T.47N., R.71W.

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

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

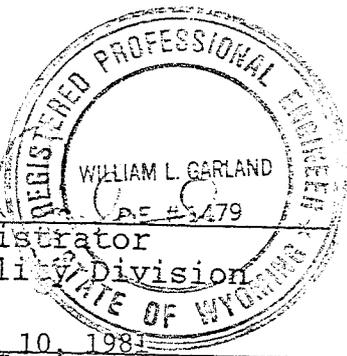
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

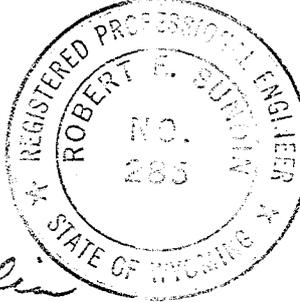
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
PE #2479
Administrator
Water Quality Division
STATE OF WYOMING

April 10, 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.

) xc: Doyl Fritz
Western Water Consultants
P.O. Box 3042
Sheridan, Wyoming 82801

PERMIT TO CONSTRUCT

New

Permit No. 81-84

Renewal

Modified

CABALLOS ROJO FACILITIES POND NO. F-3

(Name of Facility)

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

Mobil Oil Corporation

P.O. Box 5444

Denver, Colorado 80217

to construct, install, or modify a runoff and washdown water
control pond

facility according to the procedures and conditions of the application

No. 81-84. The facility is located in

Section 2, T.47N., R.71W.

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

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

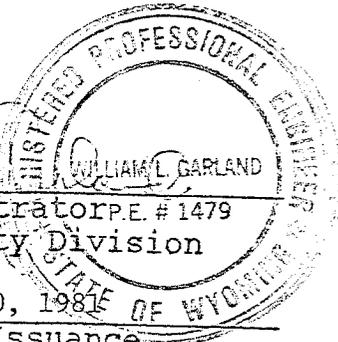
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

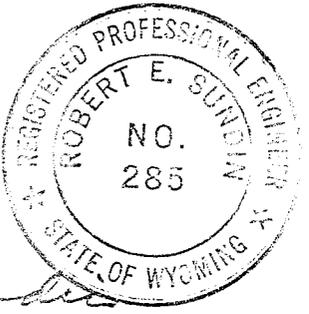
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
Administrator P.E. # 1479
Water Quality Division
April 10, 1981
Date of Issuance


Robert E. Sander
Director
Dept. of Environmental Quality

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

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

Leif

PERMIT TO CONSTRUCT

New

Permit No. 81-85R

Renewal

Ref. No. 79-29RR

Modified

Medicine Bow Water Line Replacement
(Name of Facility)

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

Town of Medicine Bow

P. O. Box 156

Medicine Bow, WY 82329

to construct, install, or modify a public water supply distribution system facility according to the procedures and conditions of the application No. 81-85R. The facility is located in Section 8, T22N, R78W 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.

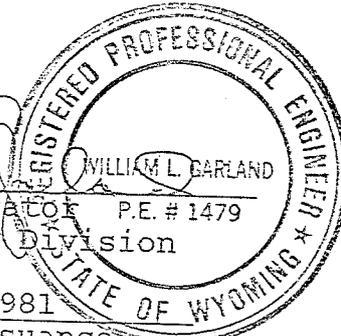
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

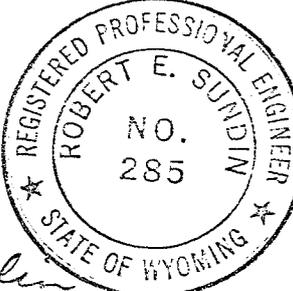
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
March 20, 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: Victor E. Anderson
P. O. Box 550
Laramie, WY 82070

43/6

PERMIT TO CONSTRUCT

Permit No. 81-86

- New
- Renewal
- Modified

West Side Addition
(Name of Facility)

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

Bruce Cameron

P. O. Box 725

Saratoga, WY 82331

to construct, install, or modify a sanitary sewer facility according to the procedures and conditions of the application No. 81-86. The facility is located in Section 11, T17N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

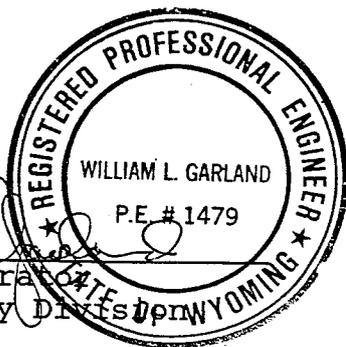
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

AUTHORIZED BY:



William L. Garland

Administrator
Water Quality Division



Robert E. Sundin

Director
Dept. of Environmental Quality

March 4, 1981
Date of Issuance

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

cc: Paul McCarthy
Robert Jack Smith & Assoc.
Box 1104
Rawlins, WY 82301

KUMPE AND ASSOCIATES, P.C.
ENGINEERING/SURVEYING.

81-87R

138 S. Kimball Suite 200

CASPER, WYOMING 82601

September 16, 1981

ROBERT L. KUMPE, P.E.
PRESIDENT

WILLIS W. TILTON, L.S.
LAND SURVEYOR

ADDENDUM NUMBER 4

INDIAN SPRINGS IMPROVEMENT DISTRICT
WATER SYSTEM



The Indian Springs Improvement District Water System has been indefinitely postponed until a suitable water supply can be worked out that will be approved by all agencies.

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Review of Plans and Specifications

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

PROJECT: Indian Springs Water System

ARCHITECT OR ENGINEER: Robert L. Kumpe
Kumpe & Associate

WATER QUALITY DIVISION REFERENCE NUMBER: 81-87

REVIEWING ENGINEER: T. S. Norman *TSN*

DATE OF REVIEW: March 16, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application for a 'Permit to Construct' was not included. Form is attached.
2. Well water source:
 - a. DEQ has not received the heavy metal and hydrogen sulfide analysis.
 - b. The partial water analysis shows that the well water does not meet the recommended water quality criteria as established by EPA.

<u>Parameter</u>	<u>Well Source</u>	<u>EPA Criteria</u>
pH	8.9	6.5-8.5
Total dissolved solids	1049 mg/l	500 mg/l
Sodium	436 mg/l	20 mg/l

The quality of this water for drinking purposes is very questionable. DEQ recommends the water be treated prior usage.

EPA in Denver should also be consulted for their recommendations. EPA will eventually get involved anyway for routine quality analysis.

- c. I am confused as to the quantity of water that can be developed. Insufficient data was presented to calculate well yield. With a well yield of 6.25 gpm at 75-80% of aquifer capacity, only 5 gpm is obtained. This is inadequate for even two homes.

Please submit more well data and the per lot water demands (ave, daily flow, peak daily flow, peak hourly flow, fire demands). If only the well is going to be developed, please designate which lots will allowed to be developed.

The well construction details are required showing casing, pumps, cap, valves, well depths, pump depth, water depth, etc.

3. Spring Water Sources

- a. What are the estimated flows from the springs? No details of the actual infiltration galleries is shown or where the springs are located.
- b. No elevations of the structures are shown to determine pumping heads. No level controls are shown for the pumps. No piping details are included.
- c. I assume septic systems will be used for wastewater treatment. This is of great concern with springs in the area. Why isn't this a concern of yours?

4. Fire Flow

Which fire district has jurisdiction of the Indian Springs development? Please have the fire district submit their fire flow requirements, duration of flow, and fire hydrant spacing.

5. Pg 5/12, Plans. A stationing equation is not shown in the cross section view.
6. Six inch diameter lines are the minimum allowable for fire flow. (i.e. the loop on the south end).
7. Pg 6/12, Plans. The connections to the intake structures are not shown or labeled.
8. Pg 8/12, Plans. A detail of the entire pump house is required showing piping and equipment. The plumbing detail (plan or cross-section?) does not agree with the large plan layout. Is the check valve by the well or in the building?
9. Storage Tank, Pg 9/12
 - a. Although the gross capacity of the tank is 100,000 gallons, what is the working capacity? Show level controls.
 - b. Where is the valve located for the drain?
 - c. Show detail of both weir boxes.
 - d. The interior of tank coating should be per AWWA specifications not DEQ's.
 - e. What does the "50' steel tank" note refer to on "reservoir drain pipe outlet"?

- f. Where would drainage from tank eventually go? Would the neighboring owners want this water on their land?
10. Pg 10/12, Plans
- a. What is the 60'x60' easement for?
11. Specifications pg 42. The specifications state a 400,000 gallon and a 100,000 gallon tank. Which is correct?
12. Specifications pg 44. The disinfection of the storage tank shall be according to AWWA D105-80.
13. Specifications pg 46. What is the type of chlorine to be used? If calcium hypochlorite is the source, a mixer should be included.
- Stand-by chlorination equipment is a requirement of Ten State Standards.
14. Concern is expressed for the operating pressure shown on pg 1/12 of the plans. These are calculated with a full tank and will not meet minimum pressure requirements if the tank is drawn down at all. Minimum pressure must be met throughout the working elevations of the tank.
15. A method of relieving air at the high points in the line is required.
16. A certified water operator is required per Chapter V of Wyoming Rules & Regulations. A compliance schedule must be submitted.

Review of Plans and Specifications

LEJ
M 7-24-81

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

PROJECT: Indian Hills Improvement District Water District

ARCHITECT OR ENGINEER: Robert Kumpe, P.E., Kumpe & Assoc., P.C.
138 South Kimball Suite 200, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 81-87R

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

DATE OF REVIEW: July 20, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Water Supply

1. The water quality is inadequate to supply the needs of the subdivision. Although 100 gpcd is an allowable useage, a more reasonable rate for Wyoming is 150-200 gpcd especially where large lots (more irrigation requirements) and livestock watering are involved. The peak daily follow (PDF) factor of 2 x average daily flow (ADF) is also a low value as 1.5 to 3.0 are the usual ranges. Where a low ADF rate is used, a high PDF factor is usually applied. The water system must be designed for PDF rates. The 3.0 persons per home is also low compared to the 3.5 rate which is commonly used throughout the state. Even using your low useage rates, the water supplies are in adequate. Designing for PDF at 200 gpcd at 3.0 person/lot at 70 lots requires 30 gpm. Per the water rights permit nos. 26815 & 26816, only 20 gpm can be taken at any one time. Although the well will provide 6.5 gpm, the reverse osmosis treatment is only 70 % efficient which then only produces 4.5 gpm. Thus, the 24.5 gpm supply is inadequate even at these low useage rates. I would recommend a supply of at least 60 gpm.
2. The stream intake structure is unacceptable. No method of backwashing is provided. The cones will probably washout with the first storm. The cones will not allow 20 gpm to enter them. The cones will also collect trash.

The details are without dimensions and a plan view is needed. A 404 Permit may be required to construct the intake in the stream. How come the profile map (sheet 1/12) does not not show a two foot stream with fifteen foot banks?
3. The heavy metals and hydrogen sulfide analysis on the well has still not been submitted.

Water Treatment

1. Surface Water

- a. Pressure filters are not allowed in the filtration of polluted waters unless proper pretreatment (coagulation and flocculation) is provided because of the high occurrence of turbidity breakthrough. With the turbidity breakthrough would be the potential for pathogenic organism contamination and a false sense of security is given.
- b. Although the water rights are for 20 gpm, the filters are designed for only 15 gpm. Duplicate systems must be provided with each capable of handling ADF but together capable of meeting PDF.
- c. Insufficient details and specifications were provided in order to determine compliance with Ten State Standards (i.e. backwash capabilities and rates, gauges, valves, turbidity measurements, method of determining, backwash runs, etc.)
- d. Water produced in the first 3-5 minutes of a filter run after backwashing should be wasted. This ensures that any backwash water is not pumped into the portable water system.
- e. How will the backwash water be disposed?
- f. What is the quality of the surface water?

2. Well Water

- a. At 6.5 gpm entering the R.O. unit and at 70% recovery, only 4.5gpm will be produced. How will the wasted water be treated?
- b. Insufficient details and specifications were provided in order to determine workability and constructability of the whole treatment process.
- c. Duplicate systems are required.

3. Chlorination

- a. The method of chlorination is unacceptable. Refer to Ten State Standards (TSS).
- b. TSS requires two hours of contact time for surface waters.
- c. The chlorination directions for the steel tank are confusing.

Pumps and Wet Wells

1. The wet wells must have plan views and cross-sections with pump controls, drainage capabilities, access, etc.
2. The water system pump does not have sufficient head to overcome static and friction losses. Also the 43% efficiency required is very low.
3. I believe the State Engineer requires a meter for each water source. What are the flow ranges and accuracy of each meter? The AWWA standard must be met.
4. There is no construction detail of the well house.

5. The pressure calculations on Sheet 1/12 are not correct.
example: Full tank to "G"
operating head - head loss = operating pressure
 $\frac{185.04 - 16.46}{2.31} = 73.0$ psi not 80.3 psi

DUE TO THE GENERALITY AND SERIOUSNESS OF THESE COMMENTS AND TO THE LACK OF CONSTRUCTION INFORMATION AND DETAIL, THIS REVIEW IS NOT MEANT TO BE FINAL.

PERMIT TO CONSTRUCT

New

Permit No. 81-88

Renewal

Modified

Greybull's Refinery Site Water System Improvements
(Name of Facility)

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

Town of Greybull, c/o LaVerne Nelson, P.E.

P.O. Box 271

Greybull, WY 82426

to construct, install, or modify a _____

water line extension

facility according to the procedures and conditions of the application

No. 81-88. The facility is located in _____

Sec. 8 & 17, T.52N, R.93W

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

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

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

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

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PERMIT TO CONSTRUCT

Permit No. 81-91

- New
- Renewal
- Modified

McKinley Street Underpass - Water Main Relocation
(Name of Facility)

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

City of Casper
200 North David
Casper, WY 82601

to construct, install, or modify a 8-inch water main relocation facility according to the procedures and conditions of the application No. 81-91. The facility is located in Section 3, 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.

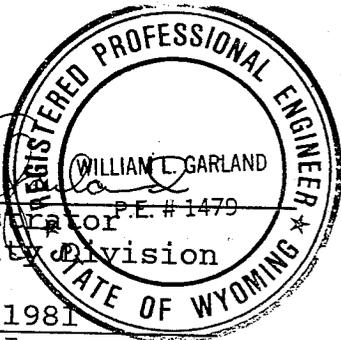
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

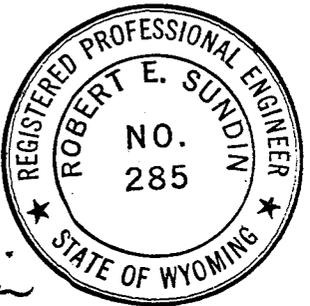
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING
March 4, 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: HNTB
John Donmyer
P. O. Box 3478
Casper, WY 82601

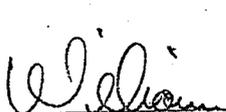
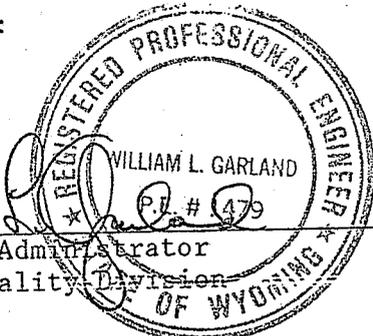
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

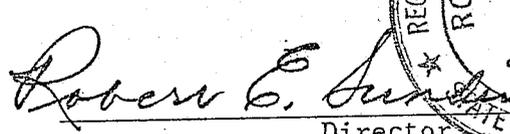
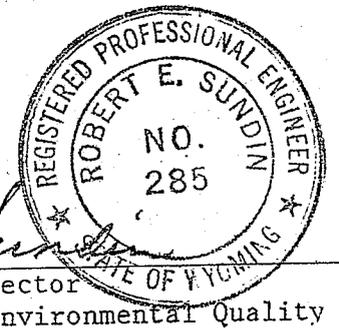
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction 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.L. # 479
Administrator
Water Quality Division
STATE OF WYOMING



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


June 23, 1981
Date of Issuance

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

81-92RR 6/6



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 11, 1981

Engineering Associates
1242 Bleistein
P. O. Box 1900
Cody, WY 82414

Attn: Roger Jacobson

RE: Powell, Wyoming Wastewater Treatment Plant - Plans and
Specification Review

Dear Roger:

Enclosed is a preliminary copy of our review comments on the plans and specifications for the new Powell sewage treatment lagoon system. Additional construction grants section review comments will be forwarded as soon as possible.

Robin Collins and myself are looking forward to meeting with you on Thursday, May 14, 1981, at 9:00 a.m. to discuss the project and the review comments. Jim Brooks of EPA's Region VIII office in Denver has indicated that the Powell Step III grant will definitely be signed and awarded this week.

Sincerely,

Mike Hackett
Engineering Grants Evaluator
Water Quality Division

MH/pjb
Enclosures

cc: Robin Collins, Lander WQD/DEQ
Robert Perala, FmHA-Casper
Grants File
Permits File

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
933 Main Street
Lander, Wyoming 82520

PROJECT: Powell Wastewater Treatment Facility

ARCHITECT OR ENGINEER: Engineering Associates, Roger Jacobson
P. O. Box 1900, Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 81-92 RR

REVIEWING ENGINEER: Robin Collins and Mike Hackett

DATE OF REVIEW: May 11, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

After reviewing the aforementioned project, we would like to offer the following comments for your consideration in processing the necessary "Permit to Construct".

Administration

1. The Corps of Engineer should be contacted in regards to the need of a 404 permit and 401 state certification for the Bitter Creek Box culvert. Contact for Corps of Engineer is:

Corps of Engineer
Permits Branch
P. O. Box 5
Omaha, NE 68102
Attn: Eldon Strine

2. Please be advised that the bottom slab surface of the pre-cast box culvert should be baffled/rippled to facilitate the movement of fish in Bitter Creek.

Sewage Pump Station

1. The sump pump should have dual check valves.
2. Basement floor should be sloped toward the sump.
3. Two fans are needed (one for each side) in order to create positive pressure in the wet well. Exhaust can go out the over flows. Fans should be able to provide at least 12 complete air changes per hour.
4. There is a need for some type of exhaust fan to provide ventilation of the dry well. Ventilation may be either continuous (at least 6 complete air changes per hour) or intermittent (at least 30 complete air changes per hour).
5. All ventilation equipment must be connected to the emergency standby generator.

6. Where the two 24" primary effluent lines connect together near pump station; shouldn't a 30" or 36" pipe be installed?
7. It is recommended that consideration be given to sloping the wet well bottom to help remove any sludge and to facilitate cleaning.
8. Where will the air-intake inlet be for the future chlorine room?
9. Should specify that the electrical equipment for pumps and their controls must comply with the NEC requirements for Class 1 Group D, Division 1 locations.
10. Need further information on the general hydraulics of the pump station, i.e.;
 - a) will the minimum velocity of the force main be less than 2.0 f.p.s.?
 - b) is the sizing of the wetwell and associated pumps control switching capable of avoiding excessive pump cyclings?
 - c) with one pump unit out, will the other five pumps handle maximum flows?
11. Where will the force main, secondary effluent line and recirculation line be located in relation to the box culvert?
12. Has consideration been given to the pump station design in regards to potential 100-year and 25-year floods?

Waste Stabilization Ponds

1. Need to submit the complete design parameters used in sizing the ponds, i.e. first-order soluble BOD5 removal-rate constant, percent removals, pond areas, pond dispersion factor (Metcalf & Eddy), etc.
2. Shouldn't a one-foot ice-sludge allowance be figured in the overall design?
3. Sheet 12 - Why does primary pond #4 have to be completely filled during initial start-up? Shouldn't concrete pad be extended?
4. How much of the 30-inch lateral D outfall line will be constructed during the project phase?
5. Why split ponds 5, 6, 7, & 8 into cells, since it is possible for electric utility power cables to cross open water?
6. The location and direction of all residences and water supplies within one mile of the proposed ponds should be included in the design analysis report.
7. All soil borings should be properly filled and sealed.
8. There will be a need to designate and install monitoring wells for purposes of providing groundwater protection which includes the monitoring of nitrate levels.
9. Why not line secondary ponds Nos. 5, 6, 7, & 8 and primary ponds Nos. 1, 2, & 3? Without a pond liner, a minimum separation of 4 feet between the pond bottom and the maximum groundwater elevation should be maintained. What will be the design permeability for the unlined pond bottom?
10. Further specifications on the pond liner need to be given. What will be the permeability for this liner?
11. In what direction are the prevalent winds?

12. The length: width ratios for the secondary ponds appear to be on the high side. Why not reduce the number of secondary cells from 8 to 4?
13. The dike slopes, both inner and outer, should be no steeper than 1 vertical to 3 horizontal as required in our Ten State Standards.
14. Sheet 7 - Excavated Zone 1 material containing roots should not be placed in the bottom of dikes #9, 10 & 11. Organic matter could decompose leaving potential problem voids.
15. Further information on obtaining an adequate vegetation cover along the pond dikes should be given.
16. Pond level gauges should be provided, particularly in the primary ponds.
17. Appropriate permanent signs shall be provided along the fence around the pond to designate the nature of the facility and advise against trespassing. At least one sign shall be provided on each side of the site and one for every 500 feet of its perimeter.
18. Recommend the discharge end of the primary & secondary pond inlet manifolds rest on a suitable concrete apron large enough to prevent the terminal influent velocity at the end of the apron from causing soil erosion. A minimum size apron of 2 feet square shall be provided.
19. Shouldn't the 12-inch gate and the downstream 18-inch gate be Type C for the primary pond outlet structures?
20. The hydraulic design of the recirculation line needs to be submitted. Also, need hydraulic computations of inlet & outlet piping. "Ten States Standards" recommend the hydraulic capacity for continuous discharge structures and piping shall allow for a minimum of 250% of the design flow of the system. Potential solids depositions should also be avoided.
21. Will there be a possibility for the interconnecting concrete pipes between the cells of the secondary ponds becoming plugged? What cleaning provisions have been made if they do become plugged?
22. Shouldn't the location of outlet manifold pipes be specified as being at least 10 feet from the top of the dike?
23. Consideration should be given to locating the submerged take-offs of the outlet manifolds 2.5 to 3.0 feet off of the primary pond bottoms as it is generally felt a better quality effluent can be found there. The secondary pond takeoffs should be located at least 3 feet below the operating surface level for the same reason.
24. Sheet 12 - The recirculation profile line is on Sheet #15 not #14 as stated.

Construction Grants Section Comments

1. Aren't there going to be significant construction problems at the new primary lagoon cell because of the groundwater which will be encountered at 4.5 feet below grade or less? How will this be dealt with? What measures are to be taken to ensure that primary cell No. 4 is not dewatered to levels which might allow groundwater to enter and disrupt the newly constructed clay sealer?
2. What is the maximum groundwater elevation anticipated in the area of the secondary cells?

3. Need to include a paragraph in the bid advertisement regarding minority and female utilization. (see paragraph 2.b. of Region VIII instructions in construction specifications). Also a paragraph regarding WBE should be included in the bid advertisement. The engineer should contact Chuck Gomez of EPA regarding WBE language.
4. The need for dewatering should be noted on plans or in specs especially for primary pond No. 4 and the pump station.
5. Typical section of wing wall on sheet 10 shows footing width to be 11'0" to 4'3" while top steel wing wall footing detail on sheet 11 shows footing width to be 9'6" to 3'3".
6. There are potential scouring problems on inlet manifold berm for ponds 1, 2, 3, & 4.
7. Hydraulic computations should be presented for the zero sloped influent lines on all primary and secondary cells.
8. A partial profile of the existing 30" influent line to the STP would be helpful for clarification of the plans and for detailing of the splitter box structure No. 5 and the bypass structure No. 11.
9. Sheet 14 - there should be manholes located at changes of: grade, pipe sizes, alignment, and every 500' to 600' lengths of straight piping.
10. The use of butterfly valves in the plant piping could be subject to future plant maintenance problems because of corrosion, clogging and failure of the valves to seat properly.
11. Has consideration been given in the design of all project facilities to the designated 100-year flood plain levels? What is the contour of the 100-year flood plain?
12. Page 21 - Need detail of the 48" x 36" type A gate connection to structure 1, 2, 3, & 4.
13. Sheet 21 - The detail of anchoring for the top of the trash rack is unclear.
14. Sheet 17 - Need outlet and inlet profiles of manifold lines at south end of secondary ponds.
15. Sheet 24 - The "B" dimension of structure 10 is incorrect, it should be 2'-6".
16. Do the mercury float switches meet EPA minimum criteria for use of such switches.
17. Sheet 27 - Is ballast provided for or needed to counteract the buoyancy of the fuel tank?
18. Sheet 31 - Please provide factory certification of pump performance and calculations indicating satisfactory performance under the proposed operating conditions as per Ten State Standards, page 30-5 Station 33.
19. Sheet 32 and 33 - How much of the chlorine tank lifting equipment is to be built under this project phase? This is unclear on the plans.
20. Sheet 36 - Pump controller gauges for future pump No. 7 should be provided.

21. A response to all Corps of Engineers review comments on bidability and constructability should be made through this office.
22. Bid award is made to the lowest responsible responsive bidder.
23. The latest applicable wage determinations for both heavy and building construction trades needs to be inserted in specification prior to bid advertising.
24. SGC-5 1.d(1) and 1.d(2) - description of geographical area and the goal needs to be inserted.
25. General condition item is required addressing by-passing during construction. i.e. Schedule construction so that by-passing of partially treated dewage does not occur. Continuous treatment of wastewater is a requirement under this contract.
26. A statement should be made in the Information for Bidders that the Wyoming law providing that in-state contractors shall have a five (5) percent preferential over out-of-state contractors does not apply under the contract to be bid.
27. SGC-13 Goals for minority and female participation should be inserted into specifications prior to bid advertising and dispersal of bid documents.
28. Section 502-Specifications state that reinforcing steel ties and stirrups shall conform to Grade 40 while sheet 10 Note 2 states that minimum yield strength shall be 60,000 p.s.i.
29. Sheet 16 - Footer of pipe end wall structure No. 13 might be extended to prevent excessive channel scouring.
30. Sheet 12 - How are primary pond influent lines to be unplugged should piping be blocked by debris, sticks, rags, diapers, etc.
31. Some method should be provided to identify valve box locations for winter operations when ground is covered by snow. Similarly valves should be numbered or identified in some manner to facilitate operation of treatment works in conjunction with O & M manual.
32. Shouldn't some kind of exfiltration testing be performed on the newly constructed lagoons?
33. Where is Zone 2 sub-base (dike cap) identified or detailed in specs and bid form?
34. No specs are given for item 710 -Crushed aggregate base course grading 4
35. Section 902-Panel P-1- does not provide blank for future pump starter and disconnect as outlined on the plans.
36. Grounding should be in accordance with latest requirements of NEC and the electric utility providing power to the pumping station.
37. Specification requirement to pump water to fill ponds could not be identified.
38. Design criteria; pond depths; loading rates; flows (maximum, minimum, and average); volumes and surface areas of each pond; and detention time of each pond, at the flows outlined above, should be detailed on the plans.

39. Is a flow meter provided for the treatment plant influent to the primary cells?
40. Plans need to show a piping schematic of all yard piping with flow direction and type of wastewater flow. Plans as presented are difficult to follow and confusing.
41. Check to make sure that pump station design has taken into account the potential buoyancy uplift force of ground water.
42. Cross sections need to be referenced to plan page on which they are found.
43. Sheet 13 - Elevations of inlet manifolds need to be given.
44. Sheet 15 - On recirculation line why not direct 11 1/4° bend in other direction at sta. 8+28.2 and change the 90° bend to 67 1/2° bend.
45. Specifications need a table of contents for all sections.
46. Pages SGC 82 and SGC 83 and missing in accordance with the SGC table of contents.

M
4-29-81

PERMIT TO CONSTRUCT

Permit No. 81-93RR

- New
- Renewal
- Modified

Encampment Water Treatment & Storage Facility
(Name of Facility)

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

Town of Encampment

P. O. Box 5

Encampment, WY 82325

to construct, install, or modify a potable water treatment plant, storage tank and distribution system modifications facility according to the procedures and conditions of the application No. 81-93RR. The facility is located in Section 15, T14N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

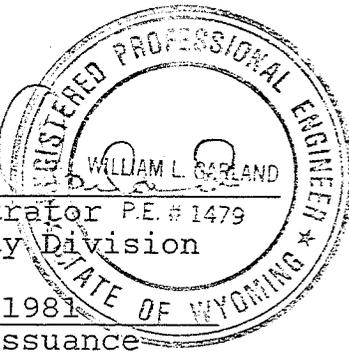
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

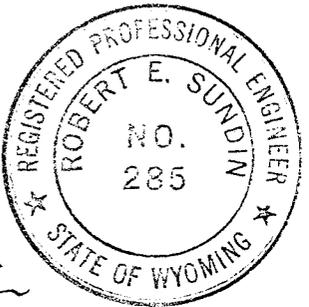
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


William L. Garland

Administrator P.E. # 1479
Water Quality Division
April 21, 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: Wind River Engineers
2333 Rose Lane
Riverton, WY 82501

Bill Loft
Mike Hackett

147

81-93



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 25, 1981

Elmo G. Peterson, P.E.
Wind River Engineers
2333 Rose Lane
Riverton, Wyoming 82501

RE: Encampment Water Treatment Plant Carbon County

Dear Mr. Peterson:

The plans for the Western Filter Company water treatment plant you left with me on March 18, 1981 are too incomplete for review.

I suggest you have the manufacture submit detailed shop drawings that would have sufficient information for fabrication of the proposed unit. As soon as I receive them along with the plans revised according to my review letter of March 16, 1981. I will complete my review of the project.

If you have any questions, please contact me.

Very truly yours,

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

Theodore D. Coyer, P.E.
Environmental Engineer

TDC/ad

LEB

Review of Plans and Specifications

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

PROJECT: Town of Encampment Water Treatment Plant and Storage Tank

ARCHITECT OR ENGINEER: James C. Gores, P.E., Wind River Engineers
2333 Rose Lane, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 81-93

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

DATE OF REVIEW: March 16, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The treatment plant building footings should be extended below the level of maximum frost penetration.
2. The velocity of flow into the intake pipe should be kept below 0.5 feet per second to prevent the buildup of frazil ice.
3. The switch for the fan and lights in the chlorination room must be located outside of the room, next to the entrance door. The entrance door must be provided with a window and panic hardware.
4. Chlorine leak detection, emergency cylinder repair, respiratory protection and related safety equipment must be provided as required by the "Recommended Standards for Water Works."
5. The area of the chemical pumping equipment must be curbed to control spills.
6. Will the backwash pond have sufficient volume to provide proper settling characteristics as well as sludge storage? How will solids be removed? Where will they be disposed of?
7. The decanting device for the backwash pond should be adjustable.
8. Appropriate warning signs should be posted on the fence.
9. The footings for the storage tank must extend to a level below maximum frost penetration.
10. How will the storage tank be anchored?

11. The storage tank roof hatch must be hinged and be provided with a locking device.
12. How will the storage tank overflow pipe be protected against entry by rodents and insects?
13. The overflow pipe must be protected from freezing.
14. The storage tank vent must be screened.
15. The storage tank area must be completely fenced to prevent trespass.
16. Will fire flow demand be met in the area of the distribution system served by the 1 1/2 inch pressure reducing valves?
17. Provide details of the septic tank and leach field.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-94

Town of Rock River Water System
(Name of Facility)

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

Town of Rock River

P. O Box 550

Laramie, WY 82070

to construct, install, or modify a public water distribution system facility according to the procedures and conditions of the application No. 81-94. The facility is located in Section 31, T21N, R76W 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.

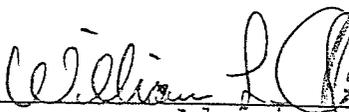
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:

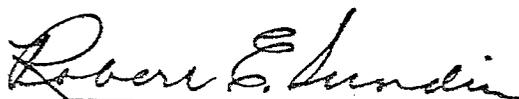




WILLIAM L. GAGLIARDI
Administrator
Water Quality Division
P.E. # 1479
MARCH 12, 1987

Date of Issuance

A circular seal for a Registered Professional Engineer. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM L. GAGLIARDI" and the number "P.E. # 1479".



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality

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

cc: Jim I. Cavalli
Banner Associates
P. O. Box 550
Laramie, WY 82070

2-3-84

PERMIT TO CONSTRUCT

Permit No. 81-95RR

- New
- Renewal
- Modified

Westward Village Mobile Home Park - IV
(Name of Facility)

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

Hanna Ventures

P.O. Box 803

Hanna, WY 82327

to construct, install, or modify a six-inch water and eight-inch sewer main extension facility according to the procedures and conditions of the application No. 81-95RR. The facility is located in Section 19, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

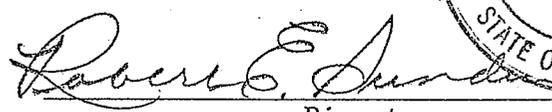
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

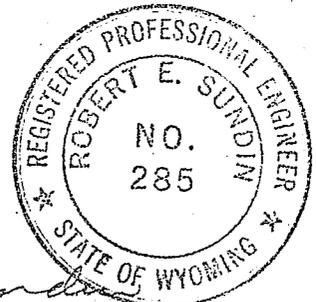
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
January 25, 1984
Date of Issuance

Director
Dept. of Environmental Quality


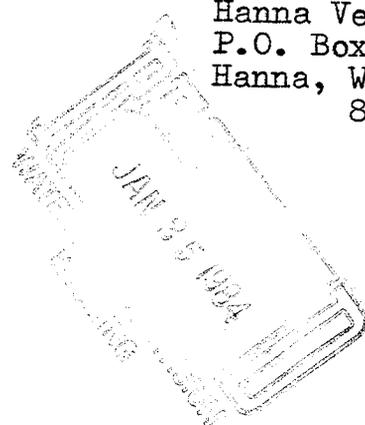
This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Joe Kub
Consulting Civil Engineer
1750 Westland Road
Cheyenne, WY 82001

January 24, 1984

Hanna Ventures
P.O. Box 803
Hanna, WY
82327

Leroy Feusner, District Engineer
D.E.Q.-Water Quality Division
111 E. Lincoln Way
Cheyenne, Wyoming
82002



Dear Mr. Feusner:

Permit No. 81-95RR for our Westward Village Mobile Home Park - IV is due to expire April 14, 1984. It is our desire to renew this permit for another two year term. All the design specifications will remain the same as in the original permit.

Due to the economic conditions affecting our operation it has not been necessary to construct the six-inch water and eight-inch sewer main extension during the original term of permit. This situation will change and it will be necessary to construct these extensions in the future.

If there are any problems with this request please contact us at the above address.

Very Truly Yours

Edward F. Ziolkowski

February 24, 1964

Home Ventures
P.O. Box 803
Harris, WY
82832

Lexy Humber, District Engineer
U.S. Water Quality Division
111 R. Lincoln Way
Cheyenne, Wyoming
82002

Dear Mr. Humber:

Permit No. 81-2588 for our wastewater treatment plant is due to expire April 14, 1964. It is our desire to renew this permit for another two year term. All the specific conditions will remain the same as in the original permit. Due to the economic conditions affecting our operation it has not been necessary to construct the trick-water and effluent filter main expansion during the original term of permit. This situation will change and it will be necessary to construct these expansions in the future. If there are any problems with this request please contact us at the above address.

Very truly yours

Edward W. Starnes

4-26-82

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-95RR

Westward Village Mobile Home Park - IV
(Name of Facility)

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

Hanna Ventures

P.O. Box 803

Hanna, WY 82327

to construct, install, or modify a six-inch water and eight-inch sewer main extension facility according to the procedures and conditions of the application No. 81-95RR. The facility is located in Section 19, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

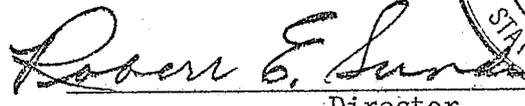
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING
April 14, 1982
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: Joe Kub
BRW/Noblitt, Inc.
1912 Capitol Ave., Suite 300
Cheyenne, WY 28001



Department of Environmental Quality

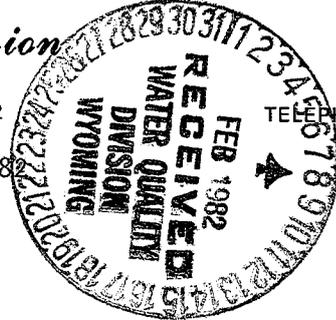
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 14, 1982



CERTIFIED

z
Ed ~~W~~iolkowski
Hanna Ventures
P.O. Box 803
Hanna, WY 82327

Dear Mr. ~~W~~iolkowski:

Our records indicate your application for a permit to construct, Reference Number 81-95R, Facility Name Westward Village Mobile Home Park IV, 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 *Applicant is still waiting on tour of Hanna for authorization*

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

Sincerely,

Thomas S. Norman

Thomas S. Norman
Water Quality Division

→ to proceed with final plans.

Edward J. Zerkow

*Copy Jackub
BRW
1912 Capitol Ave. Suite 300
Cheyenne, Wyo 82001*

U&F

5-1-81

Review of Plans and Specifications

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

PROJECT: Westward Village Mobile Home Park-IV

ARCHITECT OR ENGINEER: Joe Kub, BRW/Noblitt, Inc.
1912 Capitol Ave, Suite 300
Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 81-95R

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

DATE OF REVIEW: April 30, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A letter from the Town of Hanna stating adequacy of water and sewer systems has not yet been received.
2. The revised plans were not signed or sealed by a professional engineer.
3. I cannot locate where existing line pressures have been called out as stated in your reply comment No. 3.

Review of Plans and Specifications

~~12~~
J+J

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

PROJECT: Westward Village Mobile Home Park-IV

ARCHITECT OR ENGINEER: Joe Kub
BRW/Noblitt, Inc.

WATER QUALITY DIVISION REFERENCE NUMBER: 81-95

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

DATE OF REVIEW: March 18, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A letter from the Town of Hanna is required stating that an adequate water supply and pressures and wastewater treatment facilities are available to service the 34 mobile home lots.
2. The following sewer slopes are incorrect:

MH #5	To	MH #6
MH #6	To	MH #7
MH #8	To	MH #2
MH #2	To	MH #1
3. For the connection to the existing water system, please state the existing line sizes and pressures.
4. Please state the minimum cover for the water line to prevent freezing. Since it is expected that the sewer and water lines will be laid at the same depths, a typical crossing detail is needed. According to the Wyoming Public Works Standard, (1) sewer lines passing over water lines must be pressure tested and (2) water lines must be at least 18 inches under the sewer.
5. The application states 35 lots while there is only 34 shown.
6. The owners name and address must be submitted to obtain a permit.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-96R

Wyoming Industrial Park, Filing No. 1, Water Extension - Riverton
(Name of Facility)

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

Lawrence J. Geraud - Agent: Tom Axthelm
227 Valley Circle
Riverton, WY 82501

to construct, install, or modify a _____
water main extension

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

No. 81-96R. The facility is located in _____
Sec. 35, T. 1N, R. 4E.

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

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

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

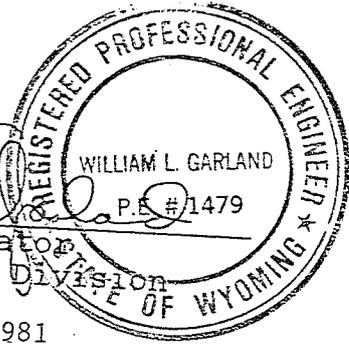
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

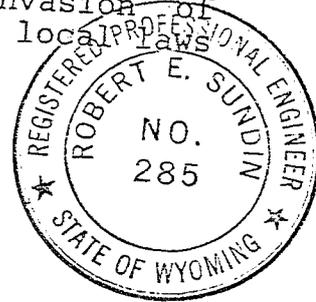
AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



March 11, 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.

MRC/nb

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Wyoming Industrial Park, Filing No. 1, Water Extension - Riverton

ENGINEER: Inberg-Miller Engineers
124 East Main
Riverton, WY 82501 Attn: Tom Axthelm

OWNER: Lawrence J. Geraud
227 Valley Circle
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 81-96

REVIEWING ENGINEER: M. Robin Collins



DATE OF REVIEW: March 2, 1981

ACTION: Not authorized.

COMMENTS: After reviewing the aforementioned project, we would like to offer the following comments for your consideration in processing the necessary permit:

1. A specification for water and sewer lines horizontal and vertical separation requirements should be included as part of the submittal.
2. If PVC pipe is to be used, a specification on deflection requirements should also be included.
3. Recommend further clarification be given to the placement of the $\frac{1}{2}$ cu. yd. of crushed stone underneath the fire hydrant's barrel.
4. A letter from the City of Riverton saying they can provide adequate water services for this extension should also be presented as part of this submittal.

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

MRC:nb

cc: City of Riverton

AIC



STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

May 19, 1981

Clay McAlpine
ARIX
609 East Madison, Suite 1
Riverton, WY 82501

RE: Change order for Jackson 1981
Improvements DEQ #81-97

Dear Clay:

As we discussed on May 18, 1981 a water line profile is needed for the additional line. If there are no sewer line crossings and the ground is uniform a statement addressing the following points is satisfactory and the profile will not be required.

1. There are no sewer line crossings.
2. The ground is of a uniform grade where the line is to be installed.
3. The line will be installed at a minimum cover of 6 feet.
4. The line will be installed at a uniform grade.

When this request has been satisfactorily addressed a letter will be issued accepting the change order.

Yours truly,

Francis LaBarge
Water Quality Evaluator
Southwest District

FB:ch

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-97RR

TOWN OF JACKSON 1981 STREET IMPROVEMENTS
(Name of Facility)

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

Town of Jackson
P.O. Box 1687
Jackson, WY 83001

to ~~construct~~ reconstruct sewer and water
lines

facility according to the procedures and conditions of the application

No. 81-97RR. The facility is located in Sec. 28, 34,
T. 41N, R. 116W

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

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

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

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

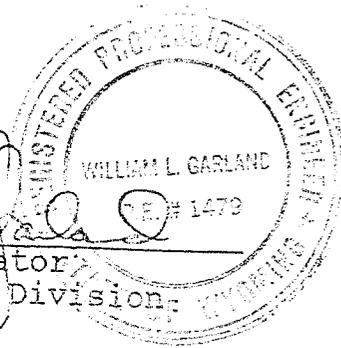
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

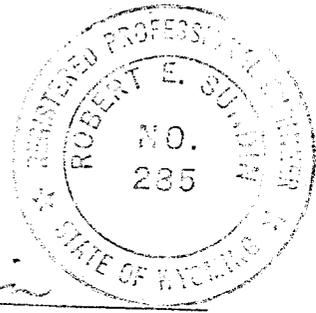


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



March 25, 1981
Date of Issuance

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

FB:nb

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Town of Jackson 1981 Street Improvements

ENGINEER: ARIX
609 E. Madison, Suite 1
Riverton, WY 82501 Attn: Clay McAlpine

OWNER: Town of Jackson
P.O. Box 1687
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 81-97

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

DATE OF REVIEW: March 9, 1981

ACTION: Not authorized.

COMMENTS:

The following points have to be clarified to complete the review of the proposed project before a "Permit to Construct" can be issued:

Sewer

- 1) The eight (8) inch PVC sewer line to be replaced on Simpson Street is at less than minimum slope allowed in Ten State Standards. Is there any way the slope can be increased?
- 2) Calculations verifying the size of this line are needed.

Water

- 3) The Project Manual states:
 - 1,285 L.F. of 6-inch ductile iron water pipe are required.
 - 1,475 L.F. of 8-inch ductile iron water pipe are required.The plans show:
 - 1,640 L.F. of 6-inch ductile iron water pipe.
 - 1,794 L.F. of 8-inch ductile iron pipeWhy the discrepancy?

A, B, C

Review of Plans and Specifications
Town of Jackson 1981 Street Improvements
Date of Review - March 9, 1981
Page Two

- 4) On Sheet 12 at STA 17+34.92, the profile shows existing 4-inch waterline, while the plan view shows a 6-inch waterline. Which is correct?
- 5) Calculations verifying the sizes of all the water lines are needed.
- 6) All thrust block locations should be clearly shown on the plans.

Additional Comments

- 7) Pipe deflection tests should be conducted after the final backfill has been in place at least 30 days.
- 8) The enclosed NPDES Application to Discharge from a Construction Project must be filed as instructed on the form. A copy should be sent to this office.
- 9) Does the storm sewer pick up any water that may contain any toxic chemicals, oil, grease, etc., that is not found in normal urban runoff?
- 10) Any dust suppressant material other than uncontaminated water cannot be used without obtaining permission for its use from the Water Quality Division. Will anything other than uncontaminated water be used?
- 11) Application must be made for a 404 permit from the Army Corps of Engineers and for a 401 State Letter of Certification for the work to take place in Flat Creek, concerning the 24-inch R.C.P. Storm Sewer. Enclosed are the necessary forms.

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

Enclosures

M4-28-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-98RR

BLACK BUTTE COAL COMPANY - TPI

(Name of Facility)

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

Black Butte Coal Company
P.O. Box 98
Point of Rocks, WY 82942

to construct, install, or modify a Transfer Pond - TPI

facility according to the procedures and conditions of the application

No. 81-98RR. The facility is located in _____
Sec. 34, T.19N, R.100W

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.

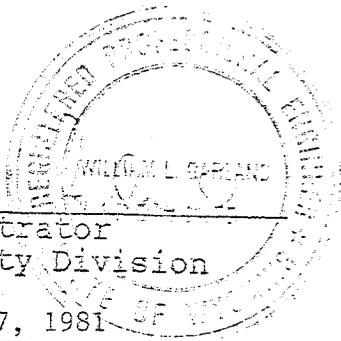
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

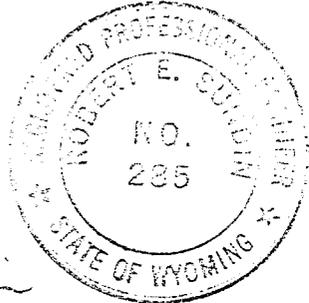
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Barland
Administrator
Water Quality Division
April 17, 1981


Robert E. Sundin
Director
Dept. of Environmental Quality

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

AB/nb

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Black Butte Coal Co.: TP-1

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

OWNER: Black Butte Coal Co.
P.O. Box 98
Point of Rocks, WY 82942
Attn: James S. Honn

WATER QUALITY DIVISION REFERENCE NUMBER: 81-98 R

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: April 7, 1981

ACTION: Not authorized.

COMMENTS:

Pending an answer on possible groundwater pollution, the following items need further clarification before a "Permit to Construct" can be issued.

- 1) Regarding specifications and liner, the liner is not presented on the drawing or in the specifications. Standard details of the liner installation need to be provided as well as specifications providing for the liner.
- 2) "Wyoming Water Quality Rules and Regulations," Chapter III, states in Section 4, part b, "The application must be accompanied by the specified number of copies of plans, specifications, design data or other pertinent information covering the project, as determined by the Administrator...." It has been determined that four copies of plans, specifications and design information are needed for coal mine permits. The distribution of those copies is Lander field office, Cheyenne archives, coal mine and Cheyenne Land Quality Division. Each application is a separate entity and must be complete with plans, specifications and design data.

A, C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Black Butte Coal Co.: TP-1

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

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

WATER QUALITY DIVISION REFERENCE NUMBER: 81-98

REVIEWING ENGINEER: Al Berreth *afb*

DATE OF REVIEW: March 23, 1981

ACTION: Not authorized.

COMMENTS:

As we have discussed, this pond will be governed under the same rules which will apply to the evaporation ponds, which are also to hold pit water. Also, the following items need to be answered:

- 1) Please provide specifications for pond construction.
- 2) Will the pond be lined? What is the perc rate of the natural soil or liner?
- 3) Three feet of freeboard is required.
- 4) Four sets of plans and specifications are required.
- 5) Is water pumped into, or hauled to, the pond?
- 6) How was the size of the pond determined?

A.C.



Ed Herschler

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

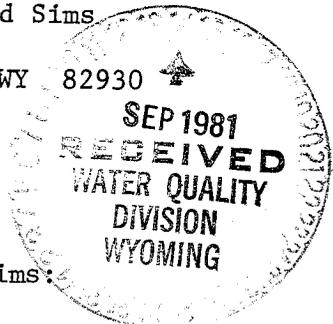
210 Lincoln

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

September 2, 1981

Mr. Richard Sims
Almy
Evanston, WY 82930



Re: Amoco Whitney Canyon
Construction Camp
Permit #81-99RRR

Dear Mr. Sims:

The change order for the above referenced facility has been approved and a copy of the plans sent to Uinta Engineering & Surveying, Inc. A copy of my cover letter is enclosed for your reference.

All concerns regarding this camp have been resolved to the satisfaction of this office.

Yours Truly,

Francis LaBarge

Francis LaBarge
Water Quality Evaluator

FL/pm

Enclosure

- xc: Jake Strohmman - Engineering Control Supervisor
Cheyenne DEQ/WQD
- Martin Zimmerman - Amoco District Superintendent
- Web Garey - PCC Site Manager
- Kenneth Walker - Uinta Engineering & Surveying, Inc.
- John Wagner - Technical Support Supervisor
Cheyenne DEQ/WQD

File (2)

Harmon

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

210 Lincoln

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

September 2, 1981

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



Re: Change Order #1 for Amoco
Whitney Canyon Construction
Camp, Permit #81-99RRR

Dear Mr. Walker:

The change order for the above referenced facility has been accepted by this office. Enclosed is a copy of the approved plan sheets.

Yours Truly,

Francis LaBarge
Water Quality Evaluator

FL/pm

Enclosure

- xc: Jake Strohmman - Engineering Control Supervisor
Cheyenne DEQ/WQD
- John Wagner - Technical Support Supervisor
Cheyenne DEQ/WQD
- Martin Zimmerman - Amoco District Superintendent
- Web Garey - PCC Site Manager
- Richard Sims - Owner

File (2)



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

August 14, 1981

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

Re: Change Order #1 for Amoco Whitney
Canyon Construction Camp,
Permit #81-99RRR

Dear Mr. Walker:

A review of the above referenced change order has been completed. The following items need to be resolved before a letter of acceptance can be issued.

1. A six inch discharge line to the Bear River is shown while the parshall flume detail shows an eight inch line.
2. Elevation dimensions are needed on the parshall flume detail. Please show the flume size on this detail also.
3. Verification is needed that the parshall flume will operate as installed. If the submergence ratio is greater than 50 percent, the installation will have to be modified.
4. Sheet 10 of 10 shows the depth of Cell 3 to be twelve feet.

A reply and revised drawings, in triplicate, is due in this office within one week of your receipt of this letter.

Yours truly,

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

Francis LaBarge
Water Quality Evaluator
Southwest District

FL/d1

cc: Jake Strohmman - Engineering Control Supervisor, Cheyenne DEQ/WQD
John Wagner - Technical Support Supervisor, Cheyenne DEQ/WQD
Martin Zimmerman, Amoco District Superintendent
Web Garey - PCC Site Manager
Richard Sims, owner
File (2)



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

August 14, 1981

Mr. Richard Sims
Almy
Evanston, WY 82930

Re: Amoco Whitney Canyon Construction
Camp, DEQ #81-99RRR

Dear Mr. Sims:

On August 4, 1981 I conducted a compliance inspection of the wastewater treatment system at the above referenced project. As a result of this inspection two variations from the approved plans were noted.

1. The parshall flume installation differed from the plans;
2. The dimensions of Cell #3 were greater than shown on the plans.

In an effort to resolve this matter I requested and received a change order showing the actual construction of these two items. The parshall flume detail was incomplete and a question has arisen as to whether the flume will operate properly as it is installed. A letter (copy enclosed) has been sent to your engineer requesting corrections and verification the flume will work.

Upon receipt of his reply a determination will be made as whether to accept the flume as installed or request it be modified.

Yours truly,

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

Francis LaBarge
Water Quality Evaluator
Southwest District

FL/d1

Enclosure

cc: Jake Strohman, Engineering Control Supervisor - Cheyenne DEQ/WQD
Martin Zimmerman, Amoco District Superintendent
Web Garey, PCC Site Manager
Kenneth Walker, Uinta Engineering & Surveying, Inc.
John Wagner, Technical Support Supervisor, 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, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

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

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

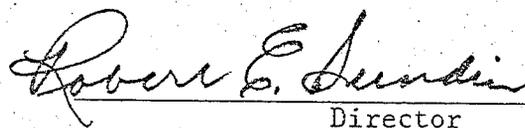
AUTHORIZED BY:


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

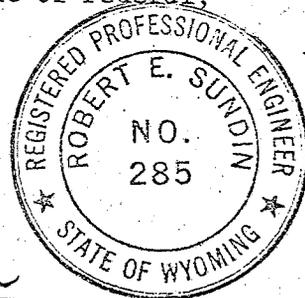
Administrator
Water Quality Division

June 26, 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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Amoco Whitney Canyon Construction Camp Modification

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

OWNER: Richard Sims
Army
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 81-99RR(Ref: 80-72RR)

REVIEWING EVALUATOR: Francis LaBarge *ff*

DATE OF REVIEW: June 4, 1981

ACTION: Not authorized.

COMMENTS:

The following points remain to be clarified,

1. a. The dimensions given for Cell #4 don't agree with the 3:1 slope shown on the plans. The dimensions given for Cells 1, 2, & 3 don't agree either although they are not as far off as those for Cell #4.
- b. Please verify your pond volume figures. I disagree with all of them. The pond volume should be figured at the high water level. This will change the design calculations. Please verify the revised figures.
- c. The slope of the influent lines needs to be added to the profiles.
- d. The transfer structure detail does not show the intake being located ten feet from the toe of the dike.
- e. Resolved
- f. See b.
- g. Your calculations indicate 2.9 hp are required, but the specifications call for 2 hp. Please clarify. Where will the control

building be located for the aerator in Cell 3? This needs to be shown. Details are needed showing how the aerator will be anchored.

- h. Which aerator are you specifying? Several are shown.
2. Sheet 3 of 9 shows three mobile homes. It was my understanding there was to be only two. Please clarify.
 3. Resolved
 4. Resolved
 5. Resolved
 6. Resolved
 7. The Storage capacity appears to be adequate but before it is approved we need to know the actual capacity of the two wells. As of this date, I have not received any information on the second well that was drilled (i.e. well log, yield and draw down test results, physical, chemical and bacteriological test results). This information is required before a "Permit to Construct" will be issued. The location of the wells on Sheet 1 of 10 should be changed to reflect the actual locations.
 8. Resolved
 9. The specifications call for a 2000 gallon tank not a 10,000 gallon tank as shown on the plans. The specifications do not address lagoon construction (i.e. material specifications, compaction, liner installation etc...).

Additional Comments

10. Cell 4 details show a six inch compacted clay liner. A copy of the testing program showing the required liner thickness for the material proposed is required.
11. The note of Sheet 10 of 10 states a concrete liner covers the entire bottom of the lagoons with a detail showing Cells 1, 2, and 3. Cell 3 does not have a concrete liner does it?

Please be advised that these plans must be approved by July 1, 1981, as stated in my May 29, 1981 letter. Failure to receive approval will result in a recommendation that a Notice of Violation be issued. This matter has been drawn out far too long now.

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

FL/d1

cc: R. W. Garey - PCC Site Manager
Martin Zimmerman - Amoco District Superintendent

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 Construction Camp Modification

ENGINEER: Kenneth Walker
Uinta Engineering
Box 746
Evanston, WY 82930

OWNER: Richard Sims
Almy
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 81-99R (Ref. 80-72RR)

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

DATE OF REVIEW: April 8, 1981

ACTION: Not authorized.

COMMENTS: The following points remain to be clarified:

- 1) a. The dimensions of all cells must be shown on the plans. This includes the pond bottom dimensions as well as the top of the dike dimensions.
- b. What are the volumes of Cells 3 and 4?
- c. A profile is needed of the influent lines from M.H.R. to Cells 1, 2 and 3. The distance from the toe of the dike to the end of the influent line for each cell should be shown. Influent lines should be located along the bottom of the pond so that the top of the pipe is just below the average elevation of the pond seal; however, the pipe shall have adequate seal below it. The detail on Sheet 10 of 10 is unacceptable.
- d. Transfer piping intakes should be located a minimum of 10 feet from the toe of the dikes. This is not shown on the transfer structure detail.
- e. My calculations indicate a total flow of 52,350 gpd for this camp. A minimum flow of 50 gpcd must be used for semi-permanent construction camps.
- f. Based on the above figure, I arrive at an aerated pond volume of 300,902 ft.³. It appears the present system will have to be enlarged.
- g. Calculations verifying aerator horsepower requirements and oxygen transfer capabilities are needed.
- h. Specifications are needed on the new aerator for Cell 3.

Review of Plans and Specifications - Whitney Canyon Construction Camp Modification
Date of Review - April 8, 1981
Page Two

- 2) The service line from these three trailers needs to be shown on the drawings.
- 3) Resolved.
- 4) Resolved.
- 5) Resolved.
- 6) After the plans have been approved, a permit will be issued for the lagoon, sewer and water system modifications. These modifications cannot be started until the permit has been issued.

Additional Comment

- 7) Calculations are needed verifying that the total water storage capacity is adequate.
- 8) The revised water storage plans do not show a tap for future chlorine connection.
- 9) Complete and detailed construction specifications are needed.

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.

FL:nb

cc: R. W. Garey - PCC, Site Manager
Martin Zimmerman - Amoco District Superintendent



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

April 10, 1981

Mr. Richard Sims
Almy
Evanston, WY 82930

Re: Whitney Canyon Construction Camp, DEQ No. 81-99R

Dear Mr. Sims:

The points raised in my January 28, 1981 letter have been answered to the satisfaction of this office. A review (copy enclosed) has been completed on the proposed lagoon and water systems modifications.

When these points have been resolved, a permit to construct will be issued for the modifications. As a reminder, do not start any construction until the permit has been issued.

A follow-up inspection will be made at a later date. I will get in touch with Mr. R. W. Garey, of PCC, to make the necessary arrangements. If you have any questions, contact me at this office.

Yours truly,

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

Francis LaBarge
Water Quality Evaluator
Southwest District

FL:nb

Enclosure

cc: Jake Strohman - Engineering Control Supervisor, Cheyenne DEQ/WQD
Kenneth Walker - Uinta Engineering & Surveying, Inc.
R. W. Garey - PCC, Site Manager
Martin Zimmerman - Amoco District Superintendent

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

CERTIFIED MAIL

PROJECT: Whitney Canyon Construction Camp Modification

ENGINEER: Kenneth Walker
Uinta Engineering
Box 746
Evanston, WY 82930

OWNER: Richard Sims
Almy
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 81-99 Ref. 80-72RR

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

DATE OF REVIEW: March 10, 1981

ACTION: Not authorized.

COMMENTS: The following points remain to be clarified:

- 1) A new kitchen, recreation building, eight (8) units and three (3) additional mobile homes have been added to this system. Please supply the necessary calculations to verify the water and sewer systems are adequate.
- 2) The four (4) inch line to the relocated unit and three (3) new mobile homes is inadequate. The minimum allowable size is six (6) inches. Please provide a profile of this line. Also show how the three (3) mobile homes tie into this line.
- 3) During my January 20, 1981 inspection I was told four (4) water lines had been extended on the South end of the camp. These are not shown on the plans. Why?
- 4) What is the extent of the three (3) inch concrete liner placed in Cells 1 & 2? Does it cover the entire bottom of both cells? This should be shown on the plans.
- 5) The modified transfer structure between Cells 1 and 2 is questionable. It is requested that a transfer structure similar to what was approved on the original plans be installed. The drawing should include a cross-sectional view of the piping into Cell 1, from Cell 1 to Cell 2, and from Cell 2 to Cell 3, or note it is to be installed as shown on the original approved plans. The piping as shown on these plans is unacceptable.

Review of Plans and Specifications
Whitney Canyon Construction Camp Modification
Date of Review - March 10, 1981
Page Two

- 6) Am I correct in assuming all the modifications shown on these plans are already complete?

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. A response is required within fifteen (15) days of your receipt of this letter.

FL:nb

cc: Jake Strohman - Engineering Control Supervisor, Cheyenne DEQ/WQD
Kenneth Walker - Uinta Engineering & Surveying, Inc.
R. W. Garey - PCC, Site Manager
Martin Zimmerman - Amoco District Superintendent



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

March 13, 1981

CERTIFIED MAIL

Mr. Richard Sims
Almy
Evanston, WY 82930

Re: Modifications to Whitney Canyon
Construction Camp
DEQ Ref. NO 81-99

Dear Mr. Sims:

The plans submitted to this office have been reviewed. A copy of the review letter is enclosed. It should be self-explanatory.

One point appears to need clarification. Any modifications to the water or sewer system in this camp must be approved by this department before any construction takes place. It appears from the plans that modifications have taken place since my January 20, 1981 inspection.

Please be advised that any further unauthorized construction will result in a Notice of Violation being issued and the recommendation of this office that the matter be referred to the Attorney General's office.

A response to the review letter is due within fifteen (15) days from your receipt of this letter. If you have any questions, please contact me at this office.

Yours truly,

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

Francis LaBarge
Water Quality Evaluator
Southwest District

FL:nb

Enclosure

cc: Jake Strohman - Engineering Control Supervisor, Cheyenne DEQ/WQD
Kenneth Walker - Uinta Engineering & Surveying, Inc.
R. W. Garey - PCC, Site Manager
Martin Zimmerman - Amoco District Superintendent

PERMIT TO CONSTRUCT

New

Permit No. 81-100R

Renewal

Modified

FRED S. MUFFLEY SMALL WASTEWATER FACILITY

(Name of Facility)

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

Fred S. Muffley, c/o Metzler Agency

P.O. Box 598

Powell, WY 82435

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

facility according to the procedures and conditions of the application

No. 81-100R. The facility is located in

Lot 61D, T. 55N, R. 99W

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

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

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

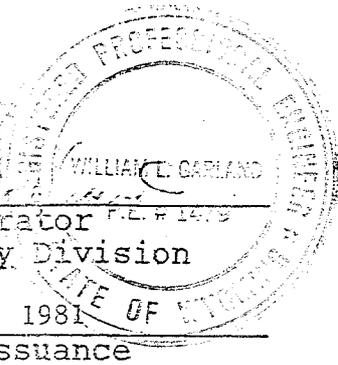
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

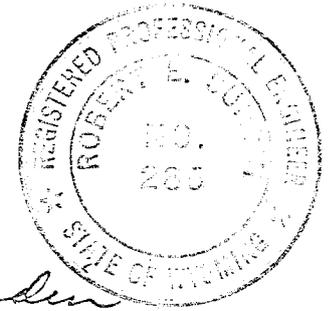
The schedule 40 PVC that is noted on your plan should be used for at least five feet on both the septic tank inlet and outlet.

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

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

AUTHORIZED BY:



Administrator
Water Quality Division
April 6, 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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Muffley Freight Depot and Office

ENGINEER:

~~OWNER~~ APPLICANT: Pat Finney
Metzler Agency
P.O. Box 598
Powell, Wyoming 82435

WATER QUALITY DIVISION REFERENCE NUMBER: 81-100

REVIEWING ENGINEER: Jeff Hermansky



DATE OF REVIEW: March 10, 1981

ACTION: Not authorized.

COMMENTS:

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

- 1) A Professional Engineer registered in the State of Wyoming must sign the plans and application, thus certifying the design as correct for the conditions noted.
- 2) What type of soil is encountered below the gravel layer (below 40")?
- 3) If the septic tank inlet and outlet pipes are to be PVC, they must be schedule 40 PVC. Please note this on the checklist.
- 4) Please show the locations of any wells on the properties that border yours. Include distances.

A/B/C