

1-19-81

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 80-601RRRR

Brentwood Subdivision
(Name of Facility)

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

City of Riverton

P.O. Box 1700

Riverton, WY 82501

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

facility according to the procedures and conditions of the application
No. 80-601RRRR. The facility is located in NE $\frac{1}{4}$, Sec. 28, T. 1N,
R. 4E

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

The issuance of this permit provides that the Department of 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.

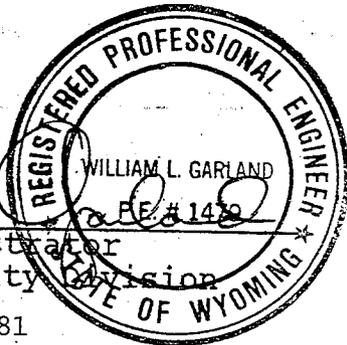
The authority to construct granted by this permit does not mean or
imply that the Wyoming Department of Environmental Quality guarantees
or insures that the permitted facility, when constructed, will meet
applicable discharge permit conditions or other effluent or oper-
ational requirements.

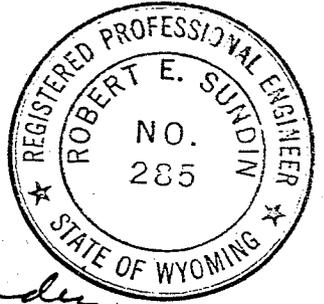
The permittee shall allow authorized representatives from the Depart-
ment of Environmental Quality, Water Quality Division, upon the pre-
sentation of credentials and during working hours, to have access to
inspect the facilities, at the above location, for the purpose of
compliance with the provisions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

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
No. 1479
Administrator
Water Quality Division
STATE OF WYOMING


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

January 12, 1981

Date of Issuance

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

JCH/kn

JOHNSON-FERMELIA AND CRANK, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

January 29, 1981

Department of Environmental Quality
Water Quality Division
933 Main
Lander, Wyoming 82520



Attention: Albert J. Berreth

Re: Sweetwater Housing No. 1
D.E.Q. No. 80-602
JFC Project No. 362-0280-1

Dear Mr. Berreth:

At this time I would like to withdraw the Application for Permit to Construct for the above referenced facility.

During the last month or so the scope of work was expanded which will require a much more extensive sewer design. At some time in the future I will make a new application for Permit to Construct.

Very truly yours,

Harry L. Moore, PE & LS

HLM:bw

cc: Mr. Don Smith
Sweetwater Housing

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Sweetwater Housing No. 1

ENGINEER: Harry Moore
Johnson-Fermelia & Crank, Inc.
P.O. Box 1633
Rock Springs, WY 82901

OWNER: Sweetwater Housing Development Company
P.O. Box 1312
Alamosa, Colorado 81101

WATER QUALITY DIVISION REFERENCE NUMBER: 80-602

REVIEWING ENGINEER: Albert J. Berreth, P.E. *AJB*

DATE OF REVIEW: December 2, 1980

ACTION: Not authorized.

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

1. A letter from the Town of South Superior needs to be supplied which states that they can treat and that they will accept the sewage from this subdivision.
2. Is this a mobile home park? If it is, then sewer service and riser details are needed.
3. How will Lots 1, 2, and 3 of Block 7 and Lot 13 of Block 9 be served?
4. What is the direction of flow in the existing sanitary sewer?
5. Please show rim elevations on the profile.
6. A notation should be made on the drawings concerning separation of water and sewer mains where they cross.
7. Calculations on the existing wastewater flow, projected future wastewater flow, peak flows, and sewer size selection need to be submitted.
8. Minimum slope is 0.4%. A slope of 0.06% is shown between MH31C and MH31C-1.
9. When specifying material, such as 8 inch PVC, please include the complete specification with ASTM designation and "SDR" number.

AJB/kn

A, B, C

M
12-15-89

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-603R

DIA - LOG WASTE TREATMENT NO. 1

(Name of Facility)

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

DIA - LOG

420 Mitchelson

Rock Springs, WY 82901

to construct, install, or modify a Septic Tank & Drainfield

facility according to the procedures and conditions of the application

No. 80-603R. The facility is located in 64 Gannett Drive

NE 1/4, Sec. 9, T.19N, R.105W

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

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

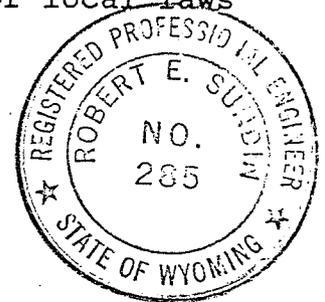
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

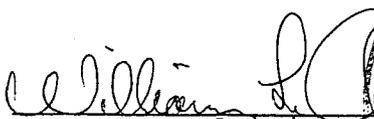
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

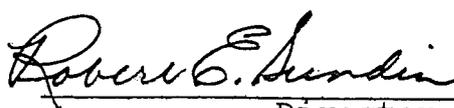
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 J. GARLAND
Administrator P.E. # 1479
Water Quality Division



Director
Dept. of Environmental Quality

~~December 8, 1980~~
Date of Issuance

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

A.J.B./yh

CONDITIONS PERMIT TO CONSTRUCT

1. The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Rock Springs Area Regional Wastewater Treatment System 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 and integrated into the regional system in accordance with the requirements of the Rock Springs Area Regional Wastewater Treatment System.
2. The intent to participate in an approved regional system will be formalized by the execution of an intergovernmental agreement between County of Sweetwater, City of Rock Springs, Inter-City Sewer and Water District, and White Mountain Water and Sewer District. This agreement will be executed and submitted to the Department of Environmental Quality, Water Quality Division by _____.
It is recognized that this agreement will include a provision for updating and revising the agreement as additional cost estimates and the schedule for various components are developed during the facility planning process.

PRELIMINARY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: DIA-LOG Waste Treatment No. 1

ENGINEER: Harry L. Moore
Johnson-Fermelia & Crank, Inc.
P.O. Box 1633
Rock Springs, WY 82901

OWNER: DIA-LOG
420 Mitchelson
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 80-603

REVIEWING ENGINEER: Albert J. Berreth, P.E. *AJB*

DATE OF REVIEW: December 2, 1980

ACTION: Not authorized.

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

1. On the plan sheet, the location of the water service line and main or well needs to be located with appropriate dimensions.
2. Is a cleanout available at the 90 degree bend?
3. On the plan sheet, 4 inch C.I. pipe is shown into the septic tank. Please note that there also must be 5 feet at the outlet.
4. Note on page 4 a math error, 1.29 gal/ft^2 into 150 gal/day is approximately $120 \text{ ft}^2/\text{day}$.
5. Note that a condition of the "Permit" will be that the building will be connected to the community sewer system when it becomes available.

AJB/kn

A, B, C

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-604R

Wind River High School Water Supply System

(Name of Facility)

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

Wind River School District #6 - Agent: Tom Axthelm

c/o Larry Mowry, Superintendent

Kinnear, WY 82516

to construct, install, or modify a water supply system

facility according to the procedures and conditions of the application

No. 80-604R. The facility is located in Sec. 2, T. 2N,

R. 1E

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.

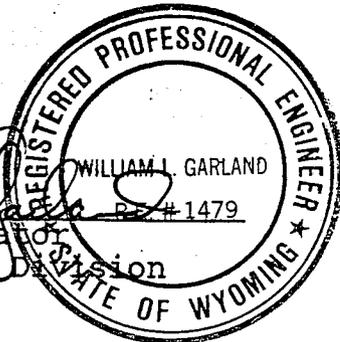
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

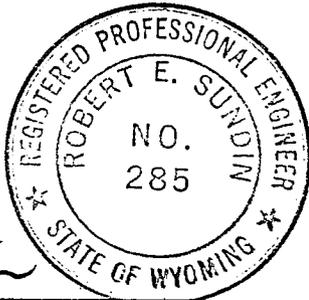
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

December 2, 1980

Date of Issuance

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

MRC/yh

PERMIT TO CONSTRUCT

New

Permit No. 80-605R

Renewal

Modified

Cowley, Wyoming, Water System Improvements
(Name of Facility)

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

Town of Cowley, Wyoming
Mayor James B. Harston
P.O. Box 172
Cowley, WY 82420

to construct, install, or modify a water distribution system

~~facility~~ according to the procedures and conditions of the application
No. 80-605R. The facility is located in Sec. 32, T. 57N,
R. 96W

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

The issuance of this permit provides that the Department of 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.

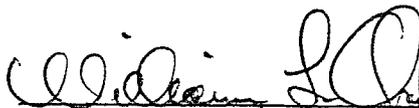
The authority to construct granted by this permit does not mean or
imply that the Wyoming Department of Environmental Quality guarantees
or insures that the permitted facility, when constructed, will meet
applicable discharge permit conditions or other effluent or oper-
ational requirements.

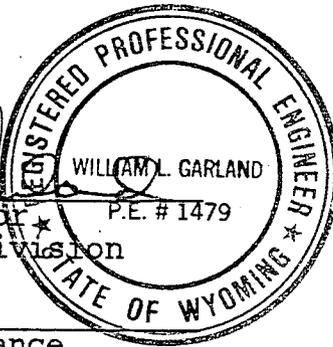
The permittee shall allow authorized representatives from the Depart-
ment of Environmental Quality, Water Quality Division, upon the pre-
sentation of credentials and during working hours, to have access to
inspect the facilities, at the above location, for the purpose of
compliance with the provisions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

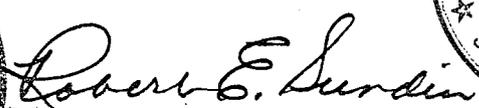
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

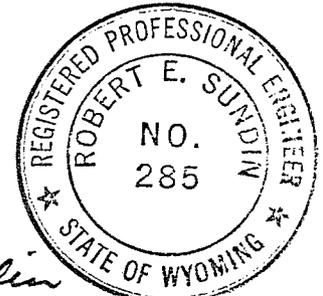
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrative
Water Quality Division
December 22, 1980
Date of Issuance




Director
Dept. of Environmental Quality



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

JCH/kn

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-606RR

Mountain Meadow Subdivision
(Name of Facility)

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

Keith Martin
P.O. Box 172
Lyman, Wyoming 82937

to construct, install, or modify a sewage system

facility according to the procedures and conditions of the application

No. 80-606RR. The facility is located in

Sec. 1, 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.

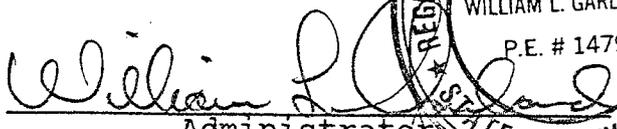
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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.

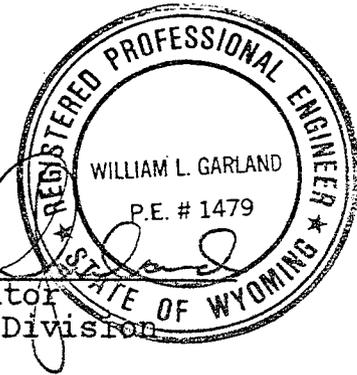
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

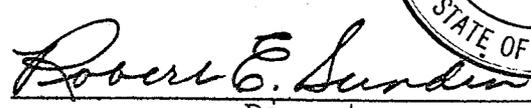
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AUTHORIZED BY:

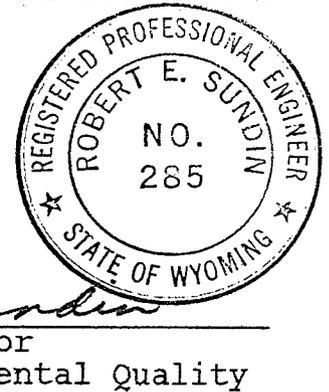


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



February 2, 1981
Date of Issuance

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

AJB/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: Mountain Meadow Subdivision

ENGINEER: Rocky Mountain Engineering
P.O. Box 805
Evanston, WY 82930

OWNER: Keith Martin
P.O. Box 172
Lyman, WY 82937

WATER QUALITY DIVISION REFERENCE NUMBER: 80-606R

REVIEWING ENGINEER: Albert J. Berreth, P.E. *AJB*

DATE OF REVIEW: December 2, 1980

ACTION: Not authorized.

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

1. Are details needed of the service connections? Are there existing trailer units?
2. Is this permit going to be for the section of sewer line that will serve block 2 of the addition being done by Carlton & Carlton?
3. The manhole at station 10+45 does not have the same invert as does the manhole submitted on the plans from Carlton & Carlton.
4. Please include inverts to the nearest 0.01 foot and rim elevations.

AJB/kn

A, B, C

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-607

Wilson Subdivision - Lander
(Name of Facility)

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

William Wilson
Squaw Creek Route
Lander, WY 82520

to construct, install, or modify a Wastewater Sewer Extension

~~facility~~ according to the procedures and conditions of the application
No. 80-607. The facility is located in Sec. 13, T. 33N,
R. 100W

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

The issuance of this permit provides that the Department of 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.

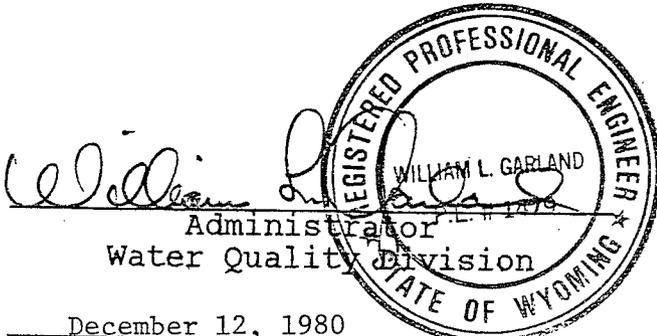
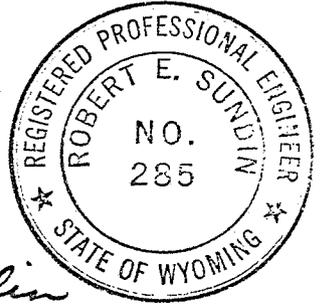
The authority to construct granted by this permit does not mean or
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or insures that the permitted facility, when constructed, will meet
applicable discharge permit conditions or other effluent or oper-
ational requirements.

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.

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

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AUTHORIZED BY:



William L. Garland
Administrator
Water Quality Division
December 12, 1980
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/yh

M
12-15-80

PERMIT TO CONSTRUCT

New

Permit No. 80-608

Renewal

Modified

Small Times Construction Shop & Office
(Name of Facility)

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

Chris R. Olsen

4608 Rock Springs

Cheyenne, WY 82001

to construct, install, or modify a commercial subsurface wastewater disposal system facility according to the procedures and conditions of the application No. 80-608. The facility is located in Sunnyside 6th Addition, Tracts 257, 258, & 259, Section 26, T14N, R66W, in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

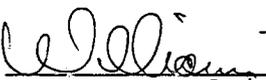
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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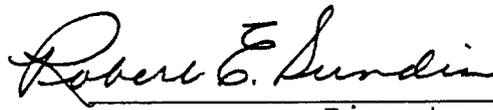
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AUTHORIZED BY:



Administrator
Water Quality Division
December 9, 1988
Date of Issuance


Director
Dept. of Environmental Quality



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

cc: Jon L. Anderson
AVI Engineering
7300 Yellowstone Rd.
Cheyenne, WY 82001

Don Pack
Laramie County Health Department
Environmental Health
1700 Synder Ave.
Cheyenne, WY 82001

M
12-16-50

PERMIT TO CONSTRUCT

Permit No. 80-609

- New
- Renewal
- Modified

Orrison Water Line
(Name of Facility)

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

City of Cheyenne

2101 O'Neil Avenue

Cheyenne, WY 82001

to construct, install, or modify a municipal water distribution system (1100 L.F. of 8" D.I.) facility according to the procedures and conditions of the application No. 80-609. The facility is located in Dunn Ave. & East Lincolnway St., Section 32, T14N, R66E, in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

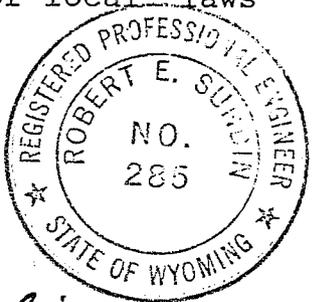
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:



William L. Garland
Administrator
Water Quality Division
December 15, 1988
Date of Issuance

A circular seal for a Registered Professional Engineer. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM L. GARLAND" and the number "147".

Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Charles B. Richardson
BRW/Noblitt, Inc.
1912 Capitol Ave., Suite 300
Cheyenne, WY 82001

Cef

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-610RR

Town of LaGrange Water System Improvements
(Name of Facility)

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

Town of LaGrange

P. O. Box 185

LaGrange, Wyoming 82221

to construct, install, or modify a public water supply and distribution system facility according to the procedures and conditions of the application No. 80-610RR. The facility is located in Section 3 & 11, T19N, R61W in the County of Goshen, 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.

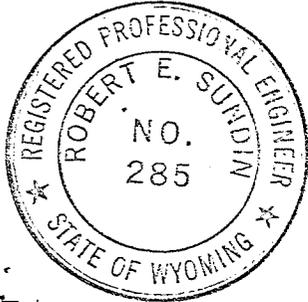
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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, PE # 1479
Water Quality Division
March 16, 1981
Date of Issuance

A circular seal for a Registered Professional Engineer in the State of Wyoming, partially overlapping the signature and text. 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. ..." and the number "PE # 1479".

Director
Dept. of Environmental Quality

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

cc: Charles A. Haas
Wells Engineering
1225 Sage Street
Gering, NE 69341

U. S. EPA
Mark Alston
Safe Drinking Water Act Program
1860 Lincoln Street
Denver, CO 80295

M
1-6-81

Review of Plans and Specifications

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

PROJECT: Water System Improvements, Town of LaGrange

ARCHITECT OR ENGINEER: Charles A. Haas, Wells Engineering
1225 Sage Street, Gering, NE 69341

WATER QUALITY DIVISION REFERENCE NUMBER: 80-610

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

DATE OF REVIEW: December 24, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Submit complete chemical, radiological and bacteriological analyses for new water source. Parameters should be consistent with EPA Safe Drinking Water Act.
2. Chlorination capability must be provided for the public water supply system. Chlorination must take place prior to storage in new tank.
3. Highly recommend a spare parts inventory be maintained by the Town of LaGrange for the water well pumping system, including a spare pump.
4. A certified water treatment plant operator will be required by this Division. Certification is obtained from this Division.
5. During the course of our review here in Cheyenne on December 9, 1980, the design engineer stated that the level control mechanism would be relocated from the tank to the well enclosure. Submit revised drawing showing changes.

11
12-10-10

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-611

Ref. No. 79-70

Medicine Bow Estates Subdivision
(Name of Facility)

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

David Crow

P.O. Box 607

Saratoga, WY 82331

to construct, install, or modify a public water distribution and wastewater collection system facility according to the procedures and conditions of the application No. 80-611. The facility is located in Section 7, 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.

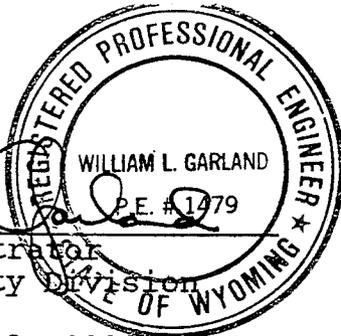
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

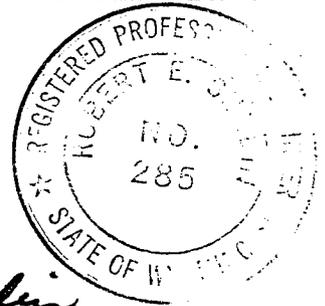
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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


Robert E. Sardin
Director
Dept. of Environmental Quality

December 3, 1980
Date of Issuance

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

cc: Lloyd Baker
Gertsch/Baker & Assoc.
P.O. Box 880
Laramie, WY 82070

2-3-51

PERMIT TO CONSTRUCT

New

Permit No. 80-612R

Renewal

Modified

Daniel Construction Co./Chevron Carter Creek
(Name of Facility)

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

Daniel Construction Co.

P.O. Box 966

Evanston, Wyoming 82930

to construct, install, or modify a/ temporary waste facilities

(two holding tanks and collection system for construction office, guard house and

13 trailers).

facility according to the procedures and conditions of the application

No. 80-612R. The facility is located in

Sec. 6, T. 18N, R. 119W

in the County of Uinta, 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.

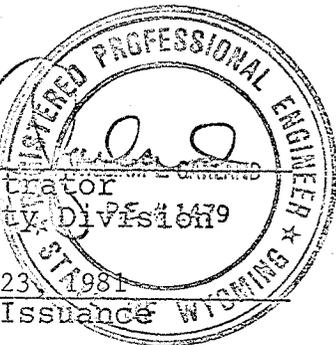
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

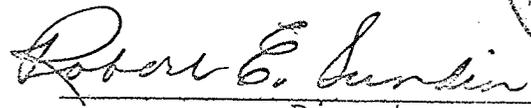
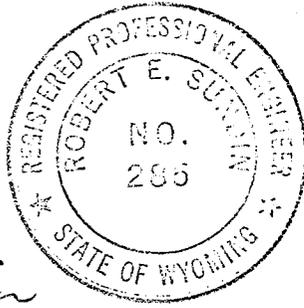
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of proper identification and during working hours, to have access to the facility, at the above location, for the purpose of compliance with the provisions 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
January 23, 1981
Date of Issuance WYOMING

 
Director
Dept. of Environmental Quality

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

AJB/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: Daniel Construction Co./ Chevron Carter Creek

ENGINEER: Daniel Construction Co.
P.O. Box 966
Evanston, WY 82930

ATT: Ron Blackburn & Bill Lewis

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

WATER QUALITY DIVISION REFERENCE NUMBER: 80-612

REVIEWING ENGINEER: Albert J. Berreth, P.E. *AJB*

DATE OF REVIEW: December 10, 1980

ACTION: Not authorized.

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

1. Where are the water service lines and connections? Has the minimum separation between water and sewer been maintained?
2. What material is the 2100 gallon holding tank made of? Where is its riser? Will it be fenced?
3. Please have the drawings sealed by a registered professional engineer.

AJB/yh

cc: Cheyenne

AJC

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

80-613



October 16, 1981

Mr. Theodore D. Coyer, P.E.
Water Quality Engineer
Water Quality Division
111 East Lincolnway
Cheyenne, WY 82002

Dear Mr. Coyer:

On November 19, 1980 I submitted an application for a Permit to Construct a sediment pond associated with the Creston Project in Carbon County, Wyoming. In a letter dated September 15, 1981, you have requested information as to the status of that project.

Please be advised that activity on the Creston Project has been suspended for the present time. We will notify your office of any change in the future status of the project.

Sincerely,

Don Crecelius

Don Crecelius
Environmental Permit
Coordinator

DWC/sgb

THE STATE OF WYOMING



9-17-81
Carbon

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 15, 1981

John Woodward, P.E.
Nerco, Inc.
111 S.W. Columbia
Portland, OR 97201

RE: Sedimentation Control Pond - Creston Project DEQ/WQD Ref. No. 80-613

Dear Mr. Woodward:

On December 20, 1980, I wrote to you concerning my review of the plans you submitted for a sediment control pond at the Creston Project.

Since I have not heard from you concerning the required revisions, I am wondering about the status of the plans. Please advise.

Very truly yours,

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

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

TDC/nc

245

Review of Plans and Specifications

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

PROJECT: Creston Project

ARCHITECT OR ENGINEER: John Woodward, P.E., NERCO, Inc.
111 S.W. Columbia, Portland, OR 97201

WATER QUALITY DIVISION REFERENCE NUMBER: 80-613

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

DATE OF REVIEW: December 22, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Please show the proposed elevation of the pond dikes and overflow.
Provision must be provided for dewatering the pond as soon as the effluent meets discharge permit parameters following a precipitation event.



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

July 6, 1981

Louis P. Orleans
Holly Sugar Corporation
P.O. Box 1052
Colorado Springs, Colorado 80901

Re: DEQ #80-614R

Dear Mr. Orleans:

During my September 12, 1980 inspection of the Worland factory, I noted that a PVC wastewater line had been constructed without a "Permit to Construct." In my September 25, 1980 inspection report, I requested that plans and specifications of the project be sent to this office, so that I could determine if the "as built" construction would meet the Department of Environmental Quality's standards.

Your last submittal of plans and letter, on June 9, 1981, has allowed me to complete my evaluation of the project.

The material and construction methods shown in your plans and specifications appear to meet this Department's minimum construction standards. Therefore, the installation is approved, as built.

As a general reminder, the construction or modification of any wastewater treatment facility requires a "Permit to Construct" prior to the start of the work.

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

Respectfully,

A handwritten signature in cursive script that reads "Jeff C. Hermansky".

Jeff C. Hermansky
Water Quality Engineer
Northwest District

JCH:nb

xc: Jake Strohmman, DEQ/WQD, Cheyenne
Marion Yoder, Assistant Attorney General
File (2)



80-614

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

May 1, 1981

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

Attn: Louis P. Orleans

Dear Sir:

I have recently completed a review of plans and specifications for a new mud pond at the Worland factory. Sid Win, your engineer, sent these plans along with notification that the existing mud pond which I have reviewed as Water Quality Division Reference Number 80-614, is to be removed. The new pond, Water Quality Division Reference Number 81-212, is to be built in the same location. I will, therefore, remove the existing mud pond from further consideration.

Part of the same 80-614 submittal was the 6" PVC pipeline from the clarifier to the mud ponds. The questions I had on my February 3, 1981 review letter regarding this pipeline still need to be answered. Please submit your response at your earliest convenience. If you have any questions, please contact either Robin Collins or myself.

Respectfully,

Jeff C. Hermansky
Water Quality Engineer
Northwest District

JCH:nb
cc: Jake Strohman
Marion Yoder, Assistant Attorney General

*Department of Environmental Quality**Water Quality Division*

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 3, 1981

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

Attention: Louis P. Orleans

Re: Permit to Construct 80-614

Dear Sir:

I am presently reviewing the "as built" plans and specifications of the mud pond and pipeline that were constructed during the summer of 1980 at the Holly Sugar Factory in Worland.

In order to make an accurate and complete review, I will need additional information and questions answered as follows:

1. Include a "Permit to Construct" application form signed by the applicant.
2. A Professional Engineer registered in the State of Wyoming must certify the construction plans and specifications and be listed on the application form.
3. An analysis of the wastewater to be stored in the mud pond must be submitted. The analysis should include BOD, TSS, phosphates, nitrates and temperature when leaving the clarifier. Grab samples will be adequate for the analysis.
4. Supply information regarding the total yearly quantity of wastewater expected and the loading rate of the aforementioned parameters.
5. Describe the sequence in which the ponds are to be used and the manner in which the mud (sludge) will be disposed of.
6. Why is the depth of bury only 2 to 3 feet for the 6" PVC line between the clarifier and the mud ponds?
7. Show on the plan sheet any locations where traffic crosses the 6" PVC wastewater line.
8. How was the pipe installed and protected where the rail line crosses over the pipe?

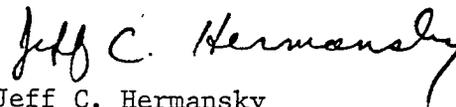
A, B, C

February 3, 1981

9. A pressure-leakage test must be performed on the pipeline. Describe the test procedure to be used.
10. Show details of the pond inlet and outlet structures.
11. How was the backfill over the pipeline compacted - to what specifications?

If you have any questions regarding this review, please feel free to contact either Robin Collins or myself.

Respectfully,



Jeff C. Hermansky
Water Quality Engineer
Northwest District

JCH/kn

cc: Andy Pitsch - Holly Sugar Corporation
Jake Strohmman

PERMIT TO CONSTRUCT

New

Permit No. 80-615

Renewal

Modified

H & H LUMBER DRAIN FIELD
(Name of Facility)

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

H & H Lumber

510 Fort Road

Sheridan, Wyoming 82801

to construct, install, or modify a subsurface wastewater disposal

facility according to the procedures and conditions of the application

No. 80-615. The facility is located in Section 16,

T.56N., R.84W.

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

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

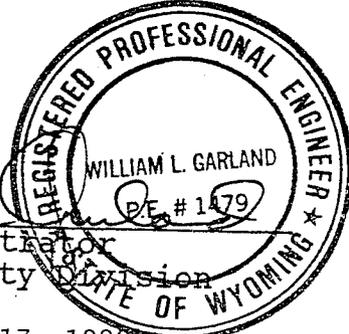
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

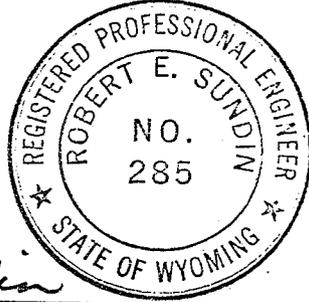
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

December 17, 1980
Date of Issuance

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

cc: Roger Reich
Pilch Engineering and Surveying
45 East Loucks
Sheridan, Wyoming 82801

10-30-83

PERMIT TO CONSTRUCT

- New
- Renewal and Name Change
- Modified

Permit No. 80-616RR

SAND ROCK MILL EVAPORATION POND
(Name of Facility)

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

Kerr-McGee Nuclear Corporation
Kerr-McGee Center, P.O. Box 25861
Oklahoma City, Oklahoma 73125
 Attention: Marvin D. Freeman

to construct, install, or modify a _____
uranium mill evaporation reservoir and temporary tailings disposal area.

_____ facility according to the procedures and conditions of the
application No. 80-616RR. The facility is located in Sec. 1, T.41N., R.75W.

_____ in the County of Campbell,

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

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

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

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

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

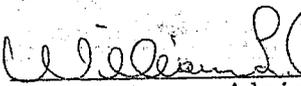
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

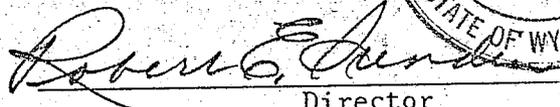
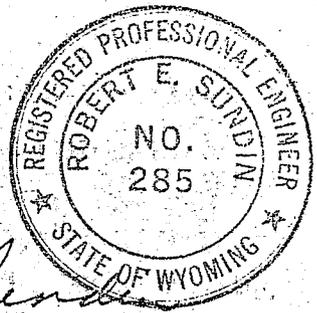
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 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 E. # 1479
Water Quality Division
OCTOBER 12, 1983
Date of Issuance



Director
Dept. of Environmental Quality


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

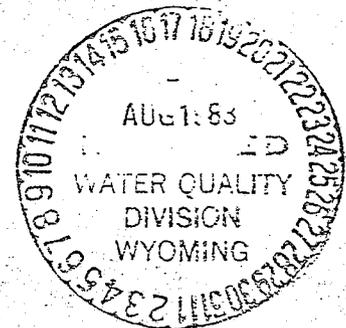
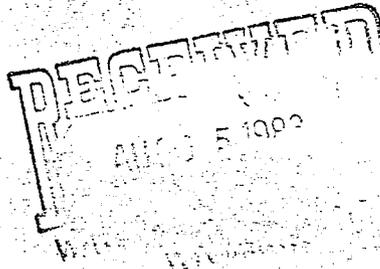
CONDITIONS

1. Results of all tests described in Division 1, "Earthwork," Section 1.2B, Quality Control and Testing, shall be retained by the Permittee, and made available upon request to the Director of the Department of Environmental Quality, or his designated representative.
2. An impermeable blanket liner shall be installed within those areas of the evaporation pond that are prescribed by the Geotechnical Investigation for the Proposed Evaporation Pond and Temporary Tailings Disposal Area, prepared by Chen and Associates and dated July 25, 1980. The blanket liner shall be constructed to the same specifications as the impermeable core of the dam main embankment.
3. The permittee shall institute a groundwater monitoring program, in accordance with Section 6.2.2.2 of the Environmental Report, Sand Rock Mill Project. A report, summarizing the information gathered by this program, shall be prepared and submitted to the Administrator of the Water Quality Division annually, until such time as the evaporation reservoir has been decommissioned.

R. Carol Harvey
Attorney

Conoco Inc.
555 - 17th Street
Denver, CO 80202

June 10, 1983



William L. Garland,
Administrator
Water Quality Division
1111 E. Lincolnway
Cheyenne, Wyoming 82002

RE: Evaporation Pond (Permit No. 80-616RR)

Dear Mr. Garland:

Conoco Inc. hereby submits this notice to the Water Quality Division, Department of Environmental Quality, of Conoco's transfer of its position as Operator under the subject permit to Kerr-McGee Nuclear Corporation, a Delaware corporation, ("Kerr-McGee"), Kerr-McGee Center, P. O. Box 25861, Oklahoma City, Oklahoma 73125, Attention: Marvin D. Freeman. Kerr-McGee accepts such transfer and herein agrees to assume all duties, responsibilities, obligations, and liabilities as Operator related to the subject permit and as to operations conducted by Kerr-McGee under said permits as of June 10, 1983.

Please contact me for any further information needed to process said transfer.

Thank you.

Very truly yours,

R. Carol Harvey
Attorney
Denver

kf

PERMIT TO CONSTRUCT

Permit No. 80-616RR

New
 Renewal
 Modified

SAND ROCK MILL EVAPORATION POND
(Name of Facility)

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

Conoco, Inc. Attention: Terry Quigley
555 Seventeenth Street
Denver, Colorado 80202

to construct, install, or modify a uranium mill evaporation reservoir and temporary tailings disposal area

facility according to the procedures and conditions of the application No. 80-616RR. The facility is located in Sec. 1, T.41N., R.75W.

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.

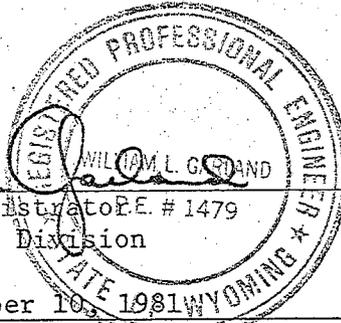
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

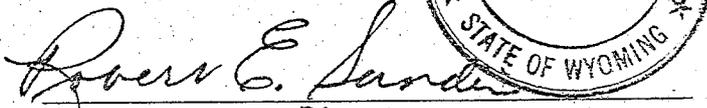
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

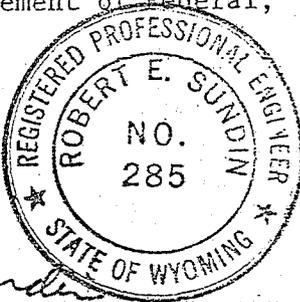
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator P.E. # 1479
Water Quality Division
September 10, 1981
Date of Issuance




Director
Dept. of Environmental Quality



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

CONDITIONS

1. Results of all tests described in Division 1, "Earthwork," Section 1.2B, Quality Control and Testing, shall be retained by the Permittee, and made available upon request to the Director of the Department of Environmental Quality, or his designated representative.
2. An impermeable blanket liner shall be installed within those areas of the evaporation pond that are prescribed by the Geotechnical Investigation for the Proposed Evaporation Pond and Temporary Tailings Disposal Area, prepared by Chen and Associates and dated July 25, 1980. The blanket liner shall be constructed to the same specifications as the impermeable core of the dam main embankment.
3. The permittee shall institute a groundwater monitoring program, in accordance with Section 6.2.2.2 of the Environmental Report, Sand Rock Mill Project. A report, summarizing the information gathered by this program, shall be prepared and submitted to the Administrator of the Water Quality Division annually, until such time as the evaporation reservoir has been decommissioned.

*Returned
copy to Sheridan
8-18-81*

Norma's copy

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: A. J. Mancini, Groundwater Control Supervisor
FROM: Phil Pucel, Environmental Engineer *pp*
DATE: August 11, 1981
SUBJECT: Conoco Sand Rock Mill Project, DEQ/WQD Ref. No. 80-616RR

HYDRAULIC CONDUCTIVITY

Why is there such a wide variability in hydraulic conductivity data as presented in Table 2.7-5, such as the values 5,070 ft/yr and 1.5 ft/yr at PD-8 and PD-9 respectively in the "USS" lithologic unit?

MONITORING

Groundwater quality analyses of wells in the immediate vicinity of the tailings disposal areas should include parameters such as SO₄ and Cl in order to indicate migration of leachate from the tailings areas. (See section 6.1.5.3; page 6-43.)

TAILINGS DISPOSAL AREAS

What are the long-term effects of low pH on the permeability and integrity of a clay liner? What long-term provisions exist for the maintenance of the clay cap?

The pits are being dewatered for mining ore and disposing tailings. The groundwater levels will recover above the bottom of the tailings disposal pit, thereby increasing the potential for groundwater contamination.

PRIVATE WELLS

Location, well logs and use of private wells should be provided. Cor- relate penetrated aquifer to lithologic units described in report.

GROUNDWATER MOVEMENT

The static water levels of the well clusters at pond 35N suggest downward groundwater movement. This question has not been adequately addressed. The water levels of wells in the evaporation pond area do not substantiate the inferred direction of groundwater movement. The large time lapse among the recorded levels may contribute to the problem.

GROUNDWATER QUALITY

The groundwater quality data should be presented in a form suitable for evaluation, demonstrating spatial and time variations in constituents. The use of different types of diagrams, graphs and maps can bring coherence into a water quality report. Detailed information is needed on the lithologic unit or aquifer from which a sample is being taken (see table 2.7-7, page 2-113). Logs of sampled wells would be useful as well as sampling protocol.

Iron

Four wells (893, 886, 1806 and 1814) exceed the Wyoming standards (Classes I and II). However, these wells sample water from the same lithologic unit in the same project area as other wells whose samples demonstrate an acceptable level of Iron.

Selenium

Well #1 (W-2) exceeds standards in the 70SS but all other wells in the area show acceptable levels.

Total Dissolved Solids

The static water level in 35N-2A (U70SS) is substantially (eighteen feet) higher than the level in 35N-7A (70SS), thereby indicating possible downward groundwater movement (see table 2.7-2 and figure 2.7-3). The TDS in 35N-2A is three times higher than that in 35N-7A. Usually, groundwater quality deteriorates as mineral dissolution occurs along the path of flow. Is there more data related to vertical groundwater movement? Explain the inconsistent groundwater analysis results.

Sulfates

Wide variations exist in sulfate levels in the 70SS (table 7.7-8).

Boron

Wide variations occur in Boron levels (table 7.7-8) in the 70SS. The lower detection limits in the Boron analyses are higher than the standards of Classes I and II.

A.J. Mancini
Conoco Sand Rock Mill
August 11, 1981
Page Three

Cadmium and Lead

Well P-5 produced much lower levels of Cadmium and Lead than other wells in the E COAL (see table 2.7-9).

MISCELLANEOUS COMMENTS

Locations and logs of holes in table 2.7-5 should be included.

TYPOGRAPHICAL ERRORS

1. Conversion error at Hole #PD-22 under "Hydraulic Conductivity" (table 2.7-5);
2. On page 5-55, line ten, "34S" should be "35S";
3. On page 2-97, table 2.7-1, Hole #P-8, elevation is 5296.9; should be 5242.9.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sand Rock Mill Evaporation Pond

ARCHITECT OR ENGINEER: T. W. Quigley
Conoco, Inc.
555 Seventeenth Street
Denver, Colorado 80202

WATER QUALITY DIVISION
REFERENCE NUMBER: 80-616R

REVIEWING ENGINEER: Tom Mueller *TMM*

DATE OF REVIEW: May 27, 1981

ACTION: Not Authorized for Construction

COMMENTS:

1. The background information provided for the in-pit disposal operation is generally acceptable. What is needed now are actual drawings and specifications for the construction work. The drawings need not be perfect as to final elevations, etc., but should be an accurate representation of the proposed disposal facility. The specifications need not be in a "ready for bid" form, but should accurately describe the work to be done, the methods to be used, and particularly, the tests to be performed and acceptable limits for test results.
2. When the permit for the evaporation reservoir is issued, a condition or conditions will be attached regarding a monitoring program for groundwaters. It is recommended that the applicant include as part of the application any monitoring program which will be required by any other agency. If such a program can be accepted by this Division with little or no modification, it will be approved.

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
30 East Grinnell
Sheridan, Wyoming 82801



PROJECT: Moore Ranch Mine/Sand Rock Mill Evaporation Pond

ARCHITECT OR ENGINEER: Conoco, Inc. Attention: Terry Quigley
555 17th Street
Denver, Colorado 80202

WATER QUALITY DIVISION REFERENCE NUMBER: 80-616

REVIEWING ENGINEER: Tom Mueller *TJ Mc*

DATE OF REVIEW: January 22, 1981

ACTION: Not Authorized for Construction. See comments.

COMMENTS:

Attached are the Guidelines for Wastewater Pond Construction Permit Applications issued by this agency. The plans and specifications received for the proposed facility are largely complete; however, very little supporting design information was provided. Such information must be provided. Of particular importance are (1) groundwater information as called for in the attachment, (2) soils information as called for in the attachment, (3) wastewater characteristics, and (4) design information and basis for various items noted on the plans such as the clay liner.

6-22-80

PERMIT TO CONSTRUCT

New

Permit No. 80-617RR

Renewal and Name Change

Modified

Sedimentation Ponds
(Name of Facility)

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

Kerr-McGee Nuclear Corporation

ATTN: Marvin D. Freeman

Kerr-McGee Center, P.O. Box 25861

Oklahoma City, OK 73125

to construct, install, or modify a sediment runoff control ponds facility according to the procedures and conditions of the application No. 80-617RR. The facility is located in Section 3, T41N, R75W and Section 35, T42N, R74W in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of three (3) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

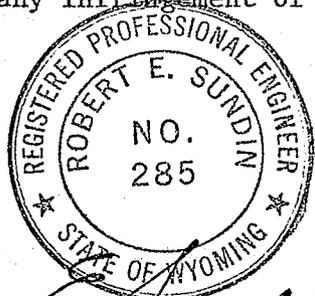
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:



WILLIAM L. GARLAND
Administrator
Water Quality Division
P.E. # 1479
June 13, 1982
Date of Issuance



Director
Dept. of Environmental Quality

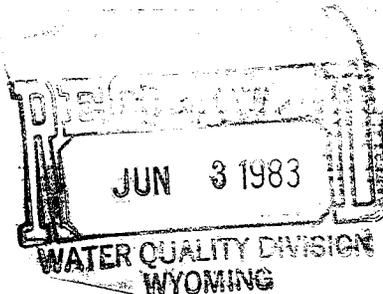
This permit does not supercede the requirements for obtaining any permit from local agencies.

R. Carol Harvey
Attorney

Conoco Inc.
555 - 17th Street
Denver, CO 80202

April 6, 1983

William L. Garland
Administrator
Water Quality Division
1111 E. Lincolnway
Cheyenne, Wyoming 82002



RE: Impoundment 1A, 1B, 2 (Permit No. 80-617RR)

Dear Mr. Garland:

Conoco Inc. hereby submits this notice to the Water Quality Division of Conoco's transfer of its position as Operator under the subject permit to Kerr-McGee Nuclear Corporation, a Delaware corporation, ("Kerr-McGee"), Kerr-McGee Center, P. O. Box 25861, Oklahoma City, Oklahoma 73125, Attention: Marvin D. Freeman. Kerr-McGee accepts such transfer and herein agrees to assume all duties, responsibilities, obligations, and liabilities as Operator related to the subject permit and as to operations conducted by Kerr-McGee under said permit as of April 1, 1983. Kerr-McGee further covenants to comply with all the terms and conditions of said permit.

Please contact me for any further information needed to process said transfer.

Thank you.

Very truly yours,

R. Carol Harvey
Attorney
Denver

kf

cc: D. W. Bollig
M. D. Freeman
R. W. Heggland
Tom Mueller
C. R. Pipoly
M. I. Ritchie
R. E. Sundin
P. H. Wilke

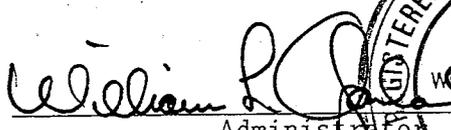
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

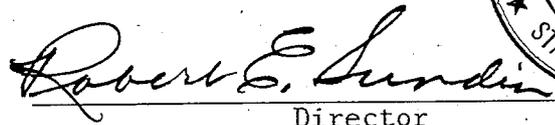
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


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


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

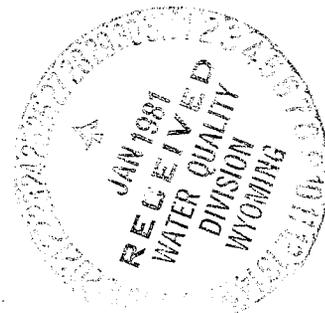
May 26, 1981
Date of Issuance

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

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
30 East Grinnell
Sheridan, Wyoming 82801



PROJECT: Moore Ranch Mine/Sand Rock Mill
Settling Reservoirs 1A, 1B and 2

ARCHITECT OR ENGINEER: Conoco, Inc. Attention: Terry Quigley
555 17th Street
Denver, Colorado 80202

WATER QUALITY DIVISION REFERENCE NUMBER: 80-617

REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: January 22, 1981

ACTION: Not Authorized for Construction. See Comments.

COMMENTS:

1. The calculations and assumptions used to size the reservoirs must be provided.
2. It is noted that the sediment control reservoirs intercept runoff from large areas of land which will not be disturbed. This is not necessary in order to comply with this Division's regulations. It is suggested, though not required, that the possibility of locating the sediment control facilities out of the natural drainage be investigated.

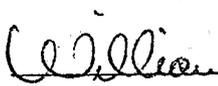
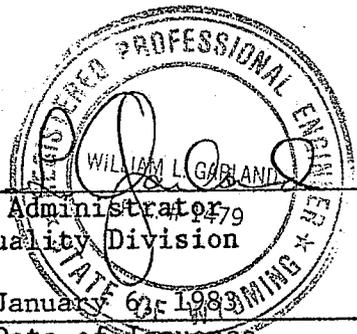
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

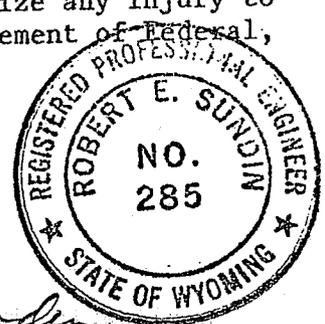
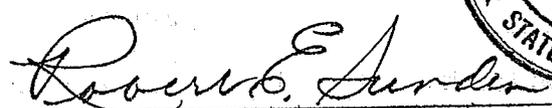
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction 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
January 6, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

PERMIT TO CONSTRUCT

Permit No. 80-618
SEE SPECIAL CONDITION

- New
- Renewal and Name Change
- Modified

Moore Ranch/Sand Rock Mill Septic Systems
(Name of Facility)

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

Kerr-McGee Nuclear Corporation

ATTN: Marvin D. Freeman

Kerr McGee Center, P.O. Box 25861

Oklahoma City, OK 73125

to construct, install, or modify a domestic wastewater subsurface disposal facility according to the procedures and conditions of the application No. 80-618. The facility is located in Section 34, T42N, R75W in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of three (3) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

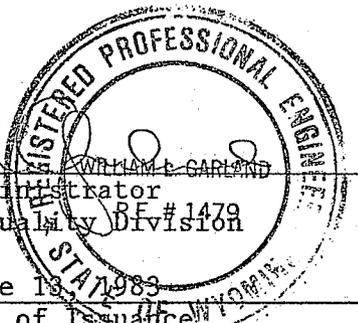
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:

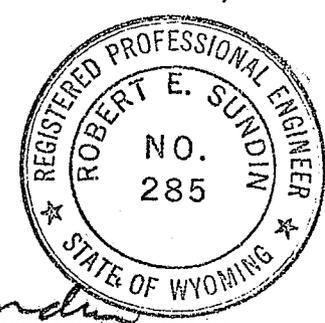


WILLIAM L. GARLAND
Administrator
Water Quality Division
1479
June 13, 1983
Date of Issuance





ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



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

Condition to Permit to Construct

The permittee shall notify the Campbell County Engineer of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. The authorized representative in your area can be contacted at the following address:

Bill Flaherty
Campbell County Sanitarian
500 South Gillette Avenue
Gillette, WY 82716

R. Carol Harvey
Attorney

Conoco Inc.
555 - 17th Street
Denver, CO 80202

WCH

April 6, 1983

William L. Garland
Administrator
Water Quality Division
1111 E. Lincolnway
Cheyenne, Wyoming 82002



RE: Sewage System (Permit No. 80-618)

Dear Mr. Garland:

Conoco Inc. hereby submits this notice to the Water Quality Division of Conoco's transfer of its position as Operator under the subject permit to Kerr-McGee Nuclear Corporation, a Delaware corporation, ("Kerr-McGee"), Kerr-McGee Center, P. O. Box 25861, Oklahoma City, Oklahoma 73125, Attention: Marvin D. Freeman. Kerr-McGee accepts such transfer and herein agrees to assume all duties, responsibilities, obligations, and liabilities as Operator related to the subject permit and as to operations conducted by Kerr-McGee under said permit as of April 1, 1983. Kerr-McGee further covenants to comply with all the terms and conditions of said permit.

Please contact me for any further information needed to process said transfer.

Thank you.

Very truly yours,

R. Carol Harvey
R. Carol Harvey
Attorney
Denver

kf

cc: D. W. Bollig
M. D. Freeman
Tom Mueller
R. E. Sundin
R. W. Heggland
C. R. Pipoly
M. I. Ritchie
P. H. Wilke

ACCEPTED AND APPROVED THIS 6th DAY OF April, 1983.

CONOCO INC.

By: [Signature]
R. W. Heggland
Executive Vice-President

KERR-MCGEE NUCLEAR CORPORATION

By: [Signature]
Its: Vice President

STATE OF COLORADO)
) ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 6th day of April, 1983, by R. W. Heggland, of Conoco Inc., a Delaware corporation, on behalf of the corporation.

My commission expires:
July 15, 1984

Paula F. Kulwicki
Notary Public
555 17th Street
Denver, Colorado 80202

STATE OF Oklahoma)
) ss.
COUNTY OF Oklahoma)

The foregoing instrument was acknowledged before me this 26th day of May, 1983, by R. Tregembo, of Kerr-McGee Nuclear Corporation, a Delaware corporation, on behalf of the corporation.

My commission expires:
October 24, 1986

Karen Fleming
Notary Public

PERMIT TO CONSTRUCT

New

Permit No. 80-618

Renewal

Modified

MOORE RANCH/SAND ROCK MILL SEPTIC SYSTEMS

(Name of Facility)

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

Conoco, Inc. Attention: Terry Quigley

555 17th Street

Denver, Colorado 80202

to construct, install, or modify a domestic wastewater sub-
surface disposal

facility according to the procedures and conditions of the application

No. 80-618. The facility is located in Section 34,
T.42N., R.75W.

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.

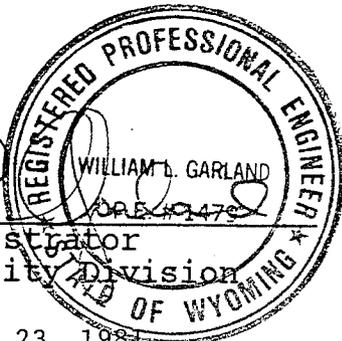
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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.

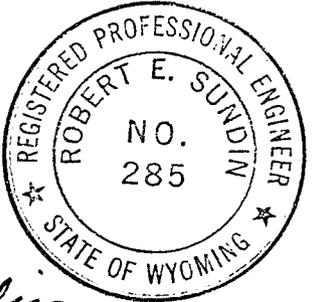
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

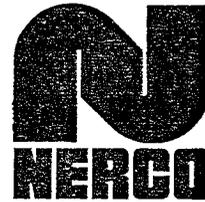

Robert E. Sundin

Director
Dept. of Environmental Quality

January 23, 1984
Date of Issuance

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

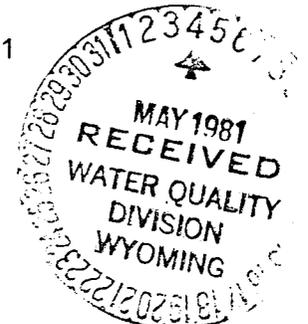
NERCO INC.
111 S.W. COLUMBIA, SUITE 800
PORTLAND, OREGON 97201
TELECOPIER 503-241-2819
TELEPHONE 503-241-6600



80-619

April 30, 1981

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



81-237

SUBJECT: Permit to Construct for Sediment Ponds
at the Jim Bridger Mine

Dear Mr. LaBarge:

By letter dated January 6, 1981, the Water Quality Division notified NERCO, Inc. that the permit to construct had not been authorized. The letter noted several points which needed clarification in relation to sediment ponds (DEQ Ref. No. 80-619) and the holding ponds (DEQ Ref. No. 80-620). With this letter NERCO, Inc., in behalf of Bridger Coal Company, is withdrawing the permit application No. 80-619. This letter also transmits and submits a new permit to construct for sediment ponds JB-20 through JB-37. In the near future a second permit to construct will be submitted which will address the mine permit area controlled by sediment ponds JB-1 through JB-19. Also be advised that holding ponds (DEQ Ref. No. 80-620) are still under review and revision.

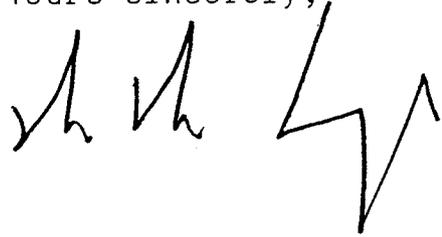
A review of the table of contents will provide an excellent overview of the format of the permit. The application consists of one original application form (a photocopy reproduction is also included in the body of each text), the text of the application, Appendix A which is Ancillary Permits, Appendix B which are the detailed calculation sheets and the maps and detail sheets for each pond.

As you are aware these ponds must be constructed by July 26, 1981. Before construction can commence, Bridger Coal Company must have the approval of the State Engineer's Office, Land Quality and Water Quality. Therefore, approval of these permits must be obtained at the earliest possible date to allow time for construction in the field. Your cooperation and prompt response will be greatly appreciated. The permit has been carefully prepared by supplying supportive tables and figures along with an example problem as you previously requested. We hope this will expedite your review.

Mr. Frank LaBarge
April 30, 1981
Page Two

If you have any questions regarding the permit, its format or technical content please contact Dave Richards of my staff at (503)241-5562.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'D. Richards', written in a cursive style.

WWL/dls

80-620

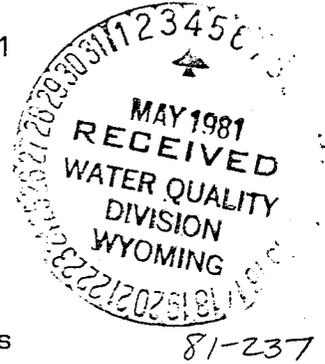
NERCO INC.
111 S.W. COLUMBIA, SUITE 800
PORTLAND, OREGON 97201
TELECOPIER 503-241-2819
TELEPHONE 503-241-6600

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



April 30, 1981

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



SUBJECT: Permit to Construct for Sediment Ponds
at the Jim Bridger Mine

Dear Mr. LaBarge:

By letter dated January 6, 1981, the Water Quality Division notified NERCO, Inc. that the permit to construct had not been authorized. The letter noted several points which needed clarification in relation to sediment ponds (DEQ Ref. No. 80-619) and the holding ponds (DEQ Ref. No. 80-620). With this letter NERCO, Inc., in behalf of Bridger Coal Company, is withdrawing the permit application No. 80-619. This letter also transmits and submits a new permit to construct for sediment ponds JB-20 through JB-37. In the near future a second permit to construct will be submitted which will address the mine permit area controlled by sediment ponds JB-1 through JB-19. Also be advised that holding ponds (DEQ Ref. No. 80-620) are still under review and revision.

A review of the table of contents will provide an excellent overview of the format of the permit. The application consists of one original application form (a photocopy reproduction is also included in the body of each text), the text of the application, Appendix A which is Ancillary Permits, Appendix B which are the detailed calculation sheets and the maps and detail sheets for each pond.

As you are aware these ponds must be constructed by July 26, 1981. Before construction can commence, Bridger Coal Company must have the approval of the State Engineer's Office, Land Quality and Water Quality. Therefore, approval of these permits must be obtained at the earliest possible date to allow time for construction in the field. Your cooperation and prompt response will be greatly appreciated. The permit has been carefully prepared by supplying supportive tables and figures along with an example problem as you previously requested. We hope this will expedite your review.

Mr. Frank LaBarge
April 30, 1981
Page Two

If you have any questions regarding the permit, its format or technical content please contact Dave Richards of my staff at (503)241-5562.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Dave Richards". The signature is stylized with a large, sweeping initial "D" and "R".

WWL/dls

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

March 16, 1981

NERCO, Inc.
111 S.W. Columbia. Suite 800
Portland, Oregon 97204

Attn: Jim Kandolin

Re: Jim Bridger Mine Sediment Ponds
DEQ No. 80-619
Jim Bridger Mine Holding Ponds
DEQ No. 80-620

Dear Jim:

As of this date I have not received a response to my January 6, 1981 review of the above referenced projects.

Please inform this office of when we can expect your reply.

Yours truly,

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

Francis LaBarge
Water Quality Evaluator
Southwest District

FL:nb

cc: ✓ Jake Strohman - Engineering Control Supervisor, Cheyenne DEQ/WQD
Rick Engelmann - DEQ/LQD, Lander

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Jim Bridger Mine Sediment Ponds JB-1 thru JB-37
Jim Bridger Mine Holding Ponds A thru H

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

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

WATER QUALITY DIVISION REFERENCE NUMBER: 80-619, 80-620

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: January 6, 1981

ACTION: Not authorized.

COMMENTS: The following points need to be clarified concerning the review of the proposed sedimentation and holding ponds before the "Permit to Construct" can be issued.

Sedimentation Ponds

DEQ Ref. No. 80-619

1. Any impoundment, diversion or use of surface or underground water must have clearance by the Office of the State Engineer. A copy of the clearance document is needed for both the sedimentation and holding ponds.
2. All the rules and regulations set forth in Chapter X of the Wyoming Water Quality Rules and Regulations (copy enclosed) must be met. Specifically:
 - Application must be made for the necessary discharge permits (Section 3).
 - Minimum design standards for runoff control facilities set forth in Appendix A must be met.
 - Details are needed of how the ponds will be dewatered. In the application, it is stated that the ponds will be dewatered within 15 days after the design storm. Provision for dewatering as soon as the effluent meets discharge permit parameters following a precipitation event is required.

A, C

- The ponds need to be designed and constructed to prevent short-circuiting. Details of how this will be done are needed.
 - All supportive documentation, calculations and drawings necessary to determine compliance with the effluent limitations of Section 4 - Chapter X are required. Computations showing the detention time to include sedimentation storage, for a 10 year - 24 hour precipitation event are required.
 - Equipment, structures and other devices necessary to measure and accurately sample the quantity and quality of surface water discharges from the affected area are required. Complete details are needed.
3. The Guidelines on Construction Authorization for Sediment Control Structures and Ponds at Surface Mining Operations (copy enclosed) must be met.
- A statement that necessary facilities for topsoil stockpiles shall be completed within 15 days after the need arises and all other control structures shall be constructed before the lands are affected. The stockpiles should be bermed or ditched. Details are needed.
 - Complete and detailed hydrologic control maps are needed.
 - Please note the condition which will be attached to the Permit to Construct.
4. The design calculations for at least one sedimentation pond and one holding pond need to be shown in complete detail. Every step needs to be clearly presented along with all figures, tables, etc., used to arrive at the design figures.
5. Determination of Surface Water Runoff Volume:
- The hydrologic soil groups used to determine the runoff curve number (RCN) should be included with the runoff volume calculations.
 - The weighted average RCN, used to determine runoff volume, for each drainage should be included in the calculations for each pond.
 - The perimeters of the drainage area for each pond need to be clearly defined.
 - We do not agree with several of the equivalent areas used in the calculations. Please show in detail how the equivalent drainage area figures were determined.
 - Calculations showing the average watershed slope and hydraulic length for each pond are needed.
 - We do not agree with the peak discharge rates given for several of the ponds. Please show in detail how the peak discharge rate figures were determined.

6. Determination of Sediment Volumes:

- Soil maps of the mine area are needed to check the soil erodibility factor K.
- Details are needed of how the length-slope factors (LS) were arrived at. How was the length of slope extrapolated beyond 2000 feet?

7. A narrative is needed on the proposed method of operation for sediment removal from the ponds.
8. Cross-sections of the inlet and outlet channels showing all details and dimensions are needed. Riprap details are needed.

Holding Ponds

DEQ Ref. No. 80-620

9. As I understand it, the holding ponds will be used to hold pit water. This water is therefore classified as a wastewater. A copy of Guidelines for Wastewater Pond Construction Permit Applications is enclosed. The application must contain all of the applicable information as requested in this guideline.

On the "Application for Permit to Construct" it is stated limited discharge is expected from the holding ponds. Please explain so it can be determined if discharge permits will be required. Please submit all of the applicable information requested in the enclosed guidelines.

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

FL/kn

Enclosures

cc: Rick Engelmann

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 80-621RR

(See condition of permit on other side.)

Wind River Reservoir
(Name of Facility)

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

Pacific Power and Light Company

920 S.W. Sixth Avenue

Portland, Oregon 97204

to construct, install, or modify a 1.5 million gallon reservoir

facility according to the procedures and conditions of the application

to 80-621RR. The facility is located in Sec. 27, T. 19N,

R. 105W

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

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

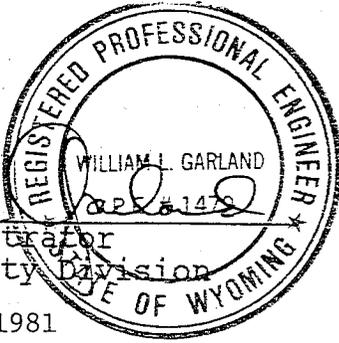
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

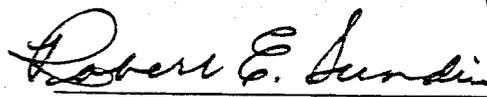
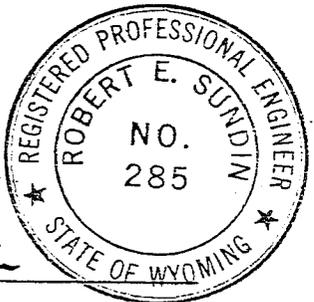
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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
February 16, 1981



Director
Dept. of Environmental Quality

Date of Issuance

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

PERMIT CONDITION: Permit to Construct Number 80-621RR is issued with the understanding that complete and detailed "as built" plans of the Wind River Reservoir will be submitted upon completion of construction.

FL/kn



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 18, 1980

Mr. Chester E. Elston, P.E.
Senior Water Systems Engineer
Pacific Power & Light Company
920 S.W. Sixth Avenue
Portland, Oregon 97204

RE: Rock Springs Water System-
Wind River Reservoir
DEQ Ref. No. 80-621

Dear Mr. Elston:

A preliminary review of ~~this~~ application has determined it to be incomplete. As stated in Chapter III of the Wyoming Water Quality Rules and Regulations, Section 4, Paragraph C (copy enclosed) applications which are incomplete will not be accepted for review and will be returned to the applicant for completion.

The application at a minimum, should contain all of the detailed plans, specifications, calculations and engineering reports as called for in the Recommended Standards for Water Works (copy enclosed). The document supplied with the "Application for Permit to Construct" is a Contact for Construction and does not contain the required information to conduct a review.

Respectfully,

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

Francis LaBarge
Water Quality Engineer
Southwest District

FL/yh

Enclosures

cc: Cheyenne DEQ/WQD

A, B, C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Rock Springs Water System - Wind River Reservoir

ENGINEER: Chester E. Elston
920 S.W. Sixth Avenue
Portland, Oregon 97204

OWNER: Pacific Power and Light Co.
920 S.W. Sixth Avenue
Portland, Oregon 97204

WATER QUALITY DIVISION REFERENCE NUMBER: 80-621R

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: January 15, 1981

ACTION: Not authorized.

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

1. Results of the soil analysis are needed. Specifically, what is the load-bearing capacity of the soil? Please show in detail that the soil, inside the ring, can adequately support the loads to be imposed upon it.
2. Storage facilities should have sufficient capacity, as determined by engineering studies, to meet domestic demands, and where fire protection is provided, fire flow demands. Please provide the necessary figures justifying the size of this reservoir.
3. Fencing, locks on access manholes and other necessary precautions, should be provided to prevent trespassing, vandalism and sabotage.
4. Where does the 10 inch overflow drain pipe drain to? Details are needed.
5. How will the overflow drain pipe be supported?
6. The overflow pipe should be of sufficient diameter to permit waste of water in excess of the filling rate. This needs to be verified.
7. Complete details of the inlet and outlet piping inside the tank are needed.
8. Silt stop details are needed.

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

AC

PERMIT TO CONSTRUCT



New

Permit No. 80-622RR



Renewal

Ref: 80-516R



Modified

WEMPEN MOBILE HOME PARK WASTEWATER DISPOSAL SYSTEM
(Name of Facility)

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

Freeman Wempen - Agent: Jerry Crews, P.E.

P.O. Box 1569

Riverton, WY 82501

to construct, install, or modify a septic tank/absorption bed

facility according to the procedures and conditions of the application

No. 80-622RR. The facility is located in NW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 36,

T. 1N, R. 4E

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

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

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

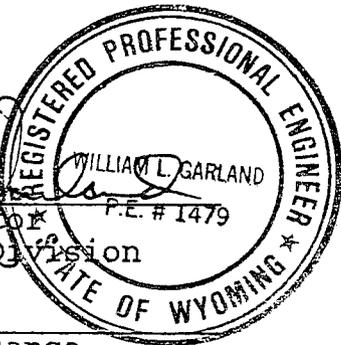
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

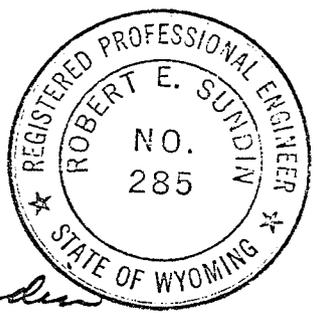
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



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




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


December 22, 1980

Date of Issuance

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

MRC/yh

PERMIT TO CONSTRUCT

New

Permit No. 80-623

Renewal

Modified

BIG HORN COAL RESERVOIRS 101, 102 and 103

(Name of Facility)

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

Big Horn Coal Company

P.O. Box 724

Sheridan, Wyoming 82801

to construct, install, or modify NPDES ponds #005, #006 and
#007

facility according to the procedures and conditions of the application

No. 80-623. The facility is located in Sections 9 and 10,
T.57N., R.84W.

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

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

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

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the notification of the Division and during working hours, to have access to the facility at all times, at the site of the permit, for the purpose of monitoring and enforcing 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.

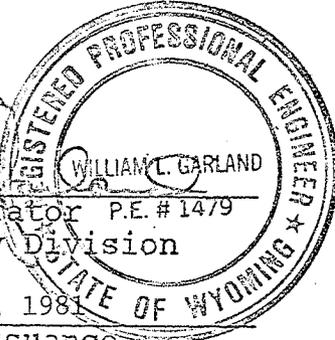
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William L. Garland

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

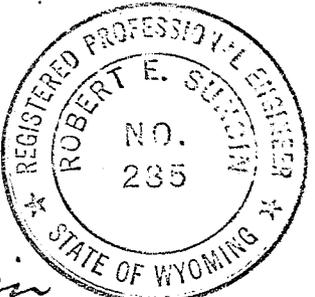
January 23, 1981
Date of Issuance



Robert E. Sinden

ROBERT E. SINDEN
NO. 235
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.

11-25-81

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 80-624R

Modification of Water and Sewer Lines on Prairie Ave. & Del Range Blvd.
(Name of Facility)

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

Wyoming Highway Department

P. O. Box 1708

Cheyenne, WY 82001

to construct, install, or modify a municipal water distribution line and wastewater collection sewer line facility according to the procedures and conditions of the application No. 80-624R. The facility is located in Sections 19 & 20, T14N, T66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

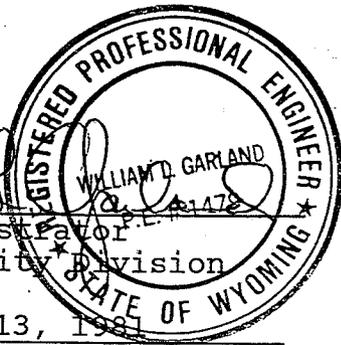
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

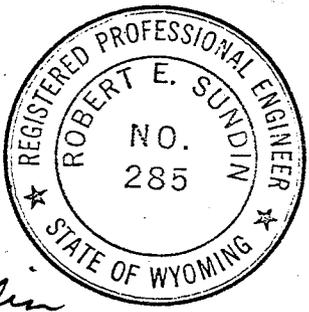
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William D. Garland
Adminisrator
Water Quality Division
STATE OF WYOMING
January 13, 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: Gary E. Brown
Wyoming Highway Department
P. O. Box 1708
Cheyenne, WY 82002

City of Cheyenne
City Engineer's Office
2101 O'Neill
Cheyenne, WY 82001

Review of Plans and Specifications

M
1-6-81

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

PROJECT: Prairie Avenue & Dell Range Blvd.

ARCHITECT OR ENGINEER: Gary E. Brown, Wyoming Highway Dept.
P. O. Box 1708, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 80-624 (Ref. No. 80-216)

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

DATE OF REVIEW: December 24, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Plans must carry signature or seal of registered Professional Engineer licensed in Wyoming.

2000

PERMIT TO CONSTRUCT

Permit No. 80-625

- New
 Renewal
 Modified

Frontier Well Service
(Name of Facility)

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

Frontier Well Service

P. O. Box 1090

Casper, WY 82602

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 80-625. The facility is located in Section 29, T34N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

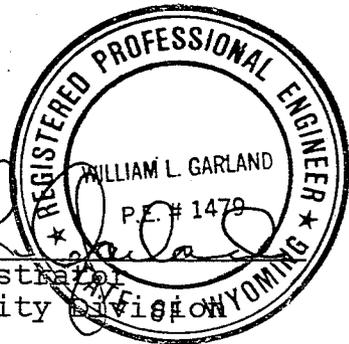
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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.

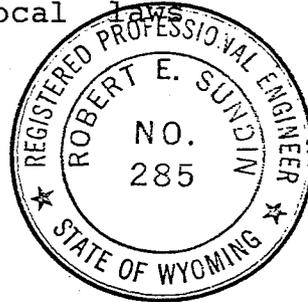
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

January 8, 1981
Date of Issuance

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

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

Review of Plans and Specifications

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

PROJECT: Frontier Well Service

ARCHITECT OR ENGINEER: Gray C. Wangelin, P.E., P.O. Box 4075
Casper, WY 82604

WATER QUALITY DIVISION REFERENCE NUMBER: 80-625

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



DATE OF REVIEW: December 22, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Details of the septic tank and distribution box must be provided.
2. What is the slope of the drain field laterals?
3. Please indicate the classification of soils in the drainfield area.

M
12-16-84

PERMIT TO CONSTRUCT

Permit No. 80-626

- New
- Renewal
- Modified

SEE ATTACHED CONDITIONS

W. B. Bates
(Name of Facility)

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

W. B. Bates

130 South Wolcott

Casper, WY 82601

to construct, install, or modify an industrial subsurface diposal wastewater treatment facility according to the procedures and conditions of the application No. 80-626. The facility is located in Tract 1 & 2, Morgareidge Subdivision, Section 34, T34N, R80W, in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

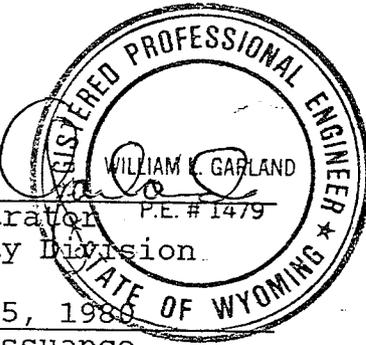
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

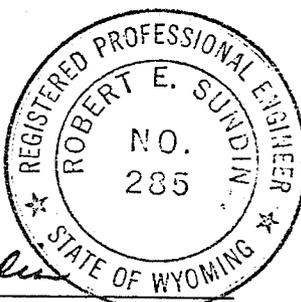
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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
December 15, 1988
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.

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.

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

Chuck Davis
Casper City/County Planners
200 North David
Casper, WY 82601

M 80-71

PERMIT TO CONSTRUCT

Permit No. 80-627

- New
 Renewal
 Modified

Signal Oilfield Service
(Name of Facility)

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

Signal Oilfield Service

P. O. Box 79

Casper, WY 82602

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 80-625. The facility is located in Section 35, T34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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.

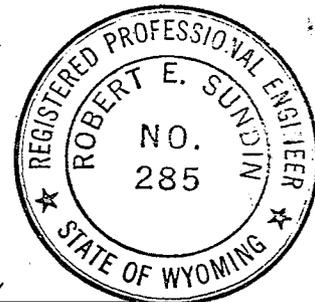
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

January 8, 1981
Date of Issuance

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

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

Review of Plans and Specifications

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

PROJECT: Signal Oilfield Service

ARCHITECT OR ENGINEER: Gray C. Wangelin, P.E., Engineering Inspection
Testing Serv.
P.O. Box 4075, Casper, WY 82604

WATER QUALITY DIVISION REFERENCE NUMBER: 80-627

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

Theodore D. Coyer

DATE OF REVIEW: December 22, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Details of the septic tank and distribution box must be provided.
2. What is the slope of the drain field laterals?
3. Please indicate the classification of soils in the drainfield area.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-628
Reference No. 79-682

COLLINS DRAW INDUSTRIAL WASTEWATER FACILITY MODIFICATIONS
(Name of Facility)

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

The Cleveland-Cliffs Iron Company
P.O. Box 3140
Casper, Wyoming 82602

to construct, install, or modify a industrial wastewater leach
field

facility according to the procedures and conditions of the application
No. 80-628. The facility is located in Section 35,
T.43N., R.76W.

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 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.

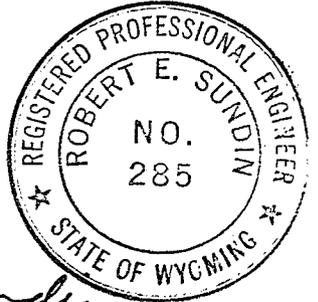
The authority to construct granted by this permit does not mean or
imply that the Wyoming Department of Environmental Quality guarantees
or insures that the permitted facility, when constructed, will meet
applicable discharge permit conditions or other effluent or oper-
ational requirements.

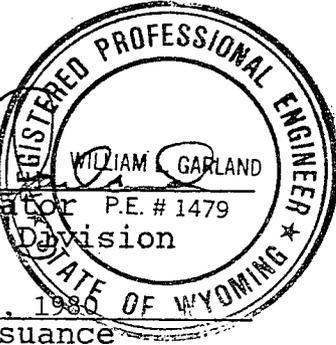
The permittee shall allow authorized representatives from the Depart-
ment of Environmental Quality, Water Quality Division, upon the pre-
sentation of credentials and during working hours, to have access to
inspect the facilities, at the above location, for the purpose of
compliance with the provisions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

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

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

AUTHORIZED BY:




William Garland
Administrator P.E. # 1479
Water Quality Division
December 12, 1980
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.

NOTE: See attached condition.

cc: Robert O. Birkle
2680 18th Street
Denver, Colorado 80211

Conditions Attached to Water Quality Division
Permit to Construct Number 80-628

(Permittee: Cleveland Cliffs Iron Company)

Condition No. 2 of Permit No. 79-682 is hereby revised to reflect the following changes in maximum discharge:

Uranium	3.5 kilogram
Radium	8.0×10^7 picoCuries

All other conditions and provisions of Permit 79-682 remain in effect.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 80-629

SOUTHSIDE INDUSTRIAL PARK — GILLETTE
(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. 80-629. The facility is located in Section 34,
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 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.

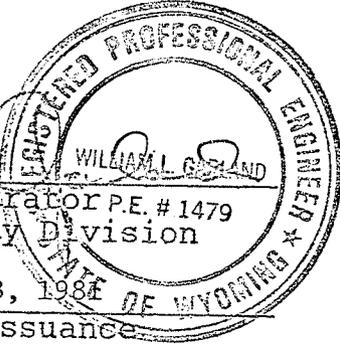
The authority to construct granted by this permit does not mean or
imply that the Wyoming Department of Environmental Quality guarantees
or insures that the permitted facility, when constructed, will meet
applicable discharge permit conditions or other effluent or oper-
ational requirements.

The permittee shall allow authorized representatives from the Depart-
ment of Environmental Quality, Water Quality Division, upon the pro-
vision 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
January 23, 1984
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Rendezvous Addition

ENGINEER: Bush & Gudgeon
P.O. Box 1144
Rock Springs, WY 82901
Attn: Leon R. Kjellgren

OWNER: City of Rock Springs
P.O. Box 698
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 80-630R

REVIEWING ENGINEER: Al Berreth *ajb*

DATE OF REVIEW: March 24, 1981

ACTION: Not authorized.

COMMENTS:

The following items must be addressed before a "Permit to Construct" will be issued:

GENERAL

- 1) Please modify your application for a "Permit to Construct" to include the water system, as a permit is also needed for it.
- 2) Specifications are required in triplicate. If the Wyoming Public Works Specifications are to be used, it must so state on the plans.
- 3) Please describe any streams to be crossed.
- 4) Regarding the response from Mr. Kjellgren:
 - a) It is felt that 3.5 people per home is a better estimate.
 - b) According to "Ten-States Standards," a peaking factor of 3.0 needs to be used.
 - c) Sewer main sizes will need to be re-evaluated.
 - d) What is meant by a temporary connection between MH #1 and the existing system? Please review "Ten-States Standards" as the requirement as set forth must be met.

... /2

A, B, C

Review of Plans and Specifications - Rendezvous Addition

Date of Review - March 24, 1981

Page Two

SEWER SYSTEM

- 1) Does the 8-inch sewer lateral connecting to MH #31 connect directly to a building? Normally, a manhole is placed at the end of lines. What is the invert in MH #31 for this pipe?
- 2) Please explain 8-inch sewer stubbed into a lot from MH #5. What is its invert in the manhole?
- 3) Please explain 8-inch sewer stubout into lot from MH #18. What is its invert in the manhole?
- 4) In manholes, such as MH #10, "Ten-States Standards" requires that "the larger sewer should be lowered sufficiently to maintain the same energy gradient. An approximate method for securing these results is to place the 0.8 depth point of both sewers at the same elevation." Please review these manholes.
- 5) MH #13 is 16 feet deep. Will groundwater be a problem? What special construction practices will be required for safety and quality?
- 6) Please explain 8-inch sewer stubout into lot from MH #19. What is its invert in MH #19?
- 7) Please explain 8-inch sewer stubout into Tract A from MH #26. What is the invert of the stubout in the manhole?
- 8) A cleanout is shown at the end of Popo Agie Drive. Why not a manhole?
- 9) On sheet 21/25, it reads that MH #27 flows to MH #33. It appears that it should be MH #29.
- 10) The cleanout shown on sheet 22/25 is not acceptable. A manhole must be installed.
- 11) Existing sewer appears inadequate to convey proposed flows.

WATER SYSTEM

- 1) A Hardy-Cross Analysis is required which demonstrates that minimum pressure (20 psi) is maintained during fire flow.
- 2) Profiles of the water mains are required. Please show minimum depth.
- 3) Please describe and detail connection to existing water.
- 4) A letter from the water utility, similar to the one from the City of Rock Springs, should be obtained, which states water is available at sufficient quantity.

Review of Plans and Specifications - Rendezvous Addition

Date of Review - March 24, 1981

Page Three

- 5) What is the average operating pressure?
- 6) As with the sewer stubouts, please explain the various watermain stubouts.
- 7) Thrust blocking needs to be shown on the plan sheets. Also, the amount of thrust blocking needs to be shown.
- 8) Waterline crossings need to be noted on the sewerline profile.
- 9) Please submit manufacturers recommendations on the effects of minor bending at pipe joints. For example, the allowable radius of curve for AC pipe on Popo Agie Drive.
- 10) Blow-off is needed for watermain at the end of Popo Agie Drive, sheet 17/25.
- 11) Is a true wye to be used at the intersection of Clyman Drive and Cache Valley Drive, sheet 19/25?
- 12) Describe how the pipe is to be tapped.
- 13) Recommend moving valve on the 12-inch line at the intersection of Fitzpatrick Drive and Sweetwater Drive to the other side of the cross to facilitate operation and maintenance.
- 14) Please verify locations of fire hydrants with the local fire marshall.
- 15) Is a master plan for the area available? It would be helpful to examine the entire water system hydraulically. What is the expected maximum water demand for the area?

Further review will be made when this submittal is complete.

cc: Cheyenne DEQ/WQD
Rick Unger

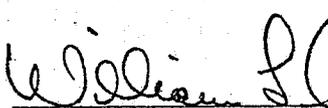
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

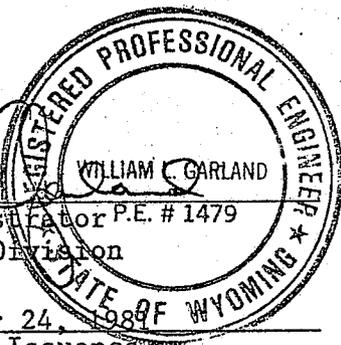
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

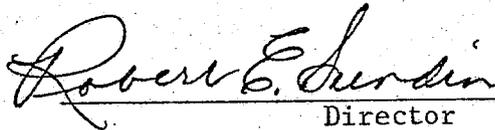
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

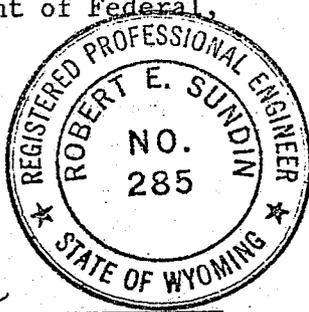
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Adminis~~trator~~ator P.E. # 1479
Water Quality Division
September 24, 1981
Date of Issuance




Director
Dept. of Environmental Quality



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

RR:nb
9/25/81



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 19, 1980

Bush & Gudgell, Inc.
P.O. Box 1144
Rock Springs, WY 82901

Attention: Leon Kjellgren

Re: Rendezvous Addition
DEQ #80-630

Dear Mr. Kjellgren:

The plans for the Rendezvous Subdivision have been received by this office. A review will be made as soon as the specifications are received. In order to save time in the review process, please consider the following points:

1. Army Corps dredge and fill permits are required when filling intermittent streams. If the ditches being crossed are defined as intermittent streams, a permit will be required.
2. Calculations and flow estimates are required for sewer lines to justify line slope and size. Special attention will be given to short lines and areas of steep slope.
3. Cleanouts are not normally accepted on main line sewers.
4. Blow-offs are required on all dead end water lines.
5. Calculations and flow estimates are required with a Hardy-Cross analysis using fire flows to justify water line size. Attention will be given to minimum pressure.

While looking at the plans which were submitted, an error was found on page 23 of 25. The writing has been cut-off the left side of the "Plan-Sewer Line Junction". If you have questions or wish to discuss the review process, please call.

Respectfully,

Albert J. Berreth
Albert J. Berreth, P.E.
Southwest District Engineer

AJB/kn

cc: Cheyenne
Richard W. Unger, City Planner - City of Rock Springs

A, B, C

PERMIT TO CONSTRUCT



New

Permit No. 80-631



Renewal



Modified

Jeff's Water Service

(Name of Facility)

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

Jeff's Water Service

P.O. Box 129

Wamsutter, WY 82336

to construct, install, or modify a sewage collection system

facility according to the procedures and conditions of the application

No. 80-631. The facility is located in Sec. 34, T. 20N,

R. 94W

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

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

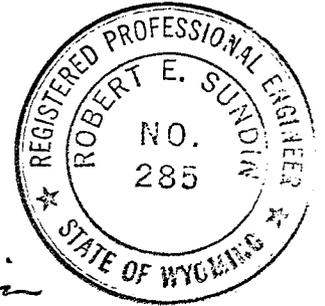
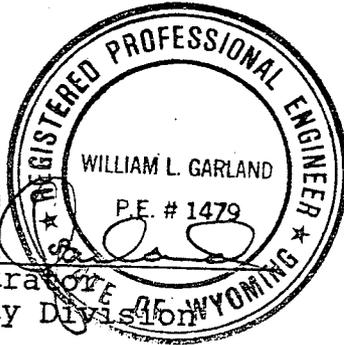
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

December 16, 1980

Date of Issuance

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

FL/kn

11/20/81

PERMIT TO CONSTRUCT

New

Permit No. 80-632R

Renewal

Modified

Bryan-Evansville Road-Water Main
(Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82061

to construct, install, or modify a 430 L.F. - 8" diameter municipal water main facility according to the procedures and conditions of the application No. 80-632R. The facility is located in Bryan-Evansville Road, Section 2, 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.

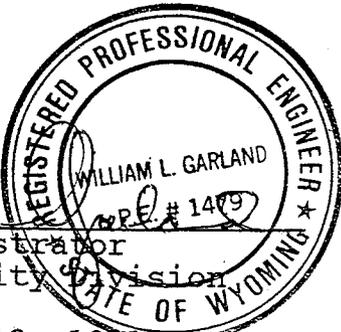
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

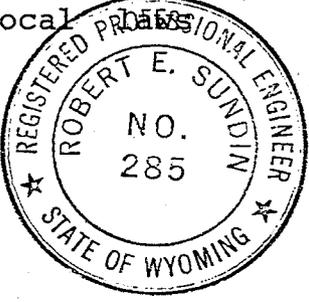
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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


Robert E. Sundin
Director
Dept. of Environmental Quality

January 13, 1981
Date of Issuance

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

cc: Terry L. Titus, P. E.
Worthington, Lenhart, Carpenter & Johnson
632 South David
Casper, WY 82601

M
12-30-80

Review of Plans and Specifications

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

PROJECT: Bryon-Evansville Road Water Main Extension

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

WATER QUALITY DIVISION REFERENCE NUMBER: 80-632

REVIEWING ENGINEER: T.S. Norman, E.I.T. *T.S. Norman*

DATE OF REVIEW: December 24, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

What is the depth to invert on the 30" s.s. and the 18" v.c. pipes where they cross the proposed water line? Will adequate separation be maintained between the sewer and the water?

cc: Dave Hill, Casper Board of Public Utilities

M
1-20-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-633R

SEE SPECIAL CONDITIONS

Spiva Backhoe Service
(Name of Facility)

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

Spiva Backhoe Service

P. O. Box 122

Mills, WY 82644

to construct, install, or modify a commercial subsurface disposal waste facility facility according to the procedures and conditions of the application No. 80-633R. The facility is located in Lot 13, Hartranft Subdivision, Section 20, T34N, T79W 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.

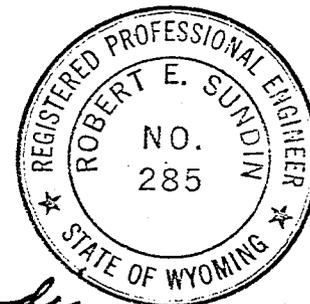
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

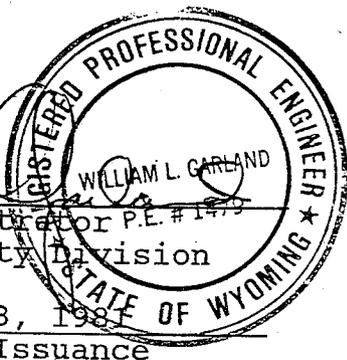
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

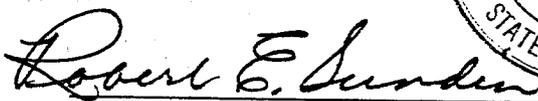
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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:




W. L. Garland
Administrator P.E. # 1473
Water Quality Division
January 13, 1987
Date of Issuance


Director
Dept. of Environmental Quality

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

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

Chuck Davis
City-County Planner
200 N. David
Casper, WY 82061

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 on 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:
12-30-80

Review of Plans and Specifications

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

PROJECT: Spiva Backhoe Service

ARCHITECT OR ENGINEER: Ed. S. Rate, Jr.
P.O. Box 930
Casper, WY 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 80-633

REVIEWING ENGINEER: T. S. Norman, E.I.T. *T.S. Norman*

DATE OF REVIEW: December 23, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Plans, page 2/2. Note 'b' is unacceptable as 18 inches is the minimum separation and then only under the conditions set forth in Ten State Standards.
2. Plans, page 2/2. The plan view describes a "septic/siphon tank". If this is the correct description, could you clarify as I am unfamiliar with this type of tank?
3. Application Sheet. This facility would correctly be described as 'commercial' rather than small.
4. Are there any other types of wastewater expected to enter the sewage system besides domestic wastes?

M
1-20-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-634R

SEE SPECIAL CONDITIONS

U.S.S. Oilwell
(Name of Facility)

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

Larson Construction Company

P. O. Box 1527

Mills, WY 82644

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 80-634R. The facility is located in Section 27, T34N, T80W 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.

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AUTHORIZED BY:


Admin. Director
Water Quality Division
January 13, 1981
Date of Issuance


Director
Dept. of Environmental Quality

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

cc: Detmer R. Knapp, P. E.
P. O. Box 2308
Mills, WY 82644

Chuck Davis
City-County Planner
200 N. David
Casper, WY 82061

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 on integrated into the regional system in accordance with the requirements of the Casper Urban Water Quality Management Plan and the Final 201 Facility Plan.



THE STATE OF WYOMING

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

December 22, 1980

Detmer R. Knapp, P.E.
Knapp Engineering
P. O. Box 2308
Mills, WY 82644

Subject; U.S.S. Oilwell, DEQ
Reference No. 80-634

Dear Mr. Knapp:

Enclosed herewith are the "original" drawings for the U.S.S. Oilwell project. We cannot accept the "originals" for the purpose of issuing a construction permit. Please make one copy of each and send them to us so that a construction permit can be processed.

Very truly yours,

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

TDC/com/pjb

PERMIT TO CONSTRUCT



New

Permit No. 80-635R
See Special Conditions



Renewal



Modified

Nania Development
(Name of Facility)

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

Barnard Watts

2700 Allendale Road

Casper, WY 82601

to construct, install, or modify a public water distribution system and commercial wastewater collection/subsurface disposal facility in the Nania development facility according to the procedures and conditions of the application No. 80-635R. The facility is located in Section 20, T34N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

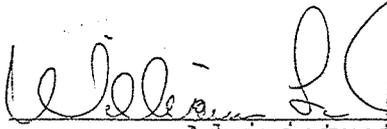
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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.

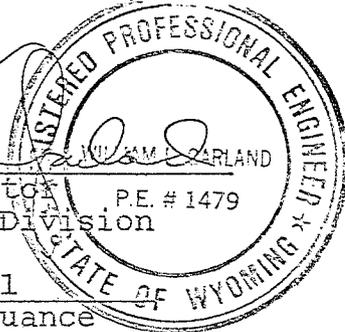
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

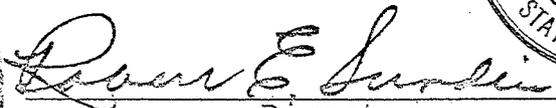
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

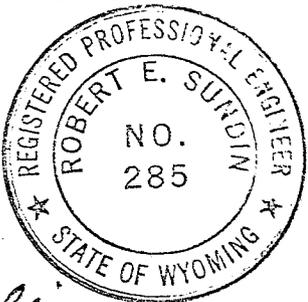


Administrator
Water Quality Division
P.E. # 1479
MARCH 9, 1981
Date of Issuance





Director
Dept. of Environmental Quality



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

cc: Gray C. Wangelin
E, I, & T Service
P. O. Box 4075
Casper, WY 82604

Conditions to Permit to Construct

The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Casper Urban Water Quality Management Plan requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned on 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
1-6-81

Review of Plans and Specifications

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

PROJECT: Nania Development

ARCHITECT OR ENGINEER: Gray Wangelin
Engineering, Inspection & Testing Service
P.O. Box 4075
Casper, WY 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 80-635

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

DATE OF REVIEW: December 23, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Application form must be signed by applicant. Additionally, the applicant must also make application for a public water supply distribution system permit on the same form.
2. Provide a letter from Wardwell Water & Sewer District indicating that they can adequately supply at least 350 gallons/day/space of drinking water at a minimum pressure of 20 psi under all conditions of flow.
3. Recommend curb stop assemblies with space service instead of the proposed gate valve as shown in the Typical Water Service Detail. The water service riser pipe shall be protected by a concrete apron (paragraph 2.1, Chapter III, DEQ/WQD Rules & Regulations).
4. Wardwell construction specifications require a 6 inch butterfly valve at the center fire hydrant.
5. The applicant should be aware that this wastewater treatment facility is located within the Casper Urban Water Quality Management Plant (Sections 208/201) study area. The applicant should realize that this wastewater treatment system may be considered interim treatment until such time that collection and treatment is available through a regional wastewater system. At that time, these facilities would be abandoned in accordance with the requirements of the Casper Urban Water Quality Management Plan. When a Permit to Construct is issued by this Department, we probably will require a written agreement to be signed between the applicant and local governmental agencies indicating the applicants intent to participate in an approved regional wastewater system.

6. According to Wardwell Water & Sewer District, a regional wastewater sewer would probably be placed in Andrea Street. Therefore, I recommend that the proposed septic tanks/leach fields be turned 180 degrees, and placed on the South end of the development. This would allow easier connection to a centralized sewer system when it becomes available. I would also utilize only two septic tank/leach field systems, one on each side and would install eight inch sewer lines to facilitate the future conversion work. Manholes would be required at least every 400 feet for an eight inch sewer. Recreational areas (parks) could then be constructed over the leach field areas.
7. If the four septic tanks/leach fields are kept, the clean-outs must be installed at an angle equal to or less than 45 degrees.

cc: Chuck Davis
Natrona County Planner
200 South David
Casper, WY 82601

Bob Moore, Manager
Wardwell Water & Sewer District
P.O. Box 728
Mills, WY 82644

LEY

PERMIT TO CONSTRUCT

Permit No. 80-636R

- New
- Renewal
- Modified

State Office Building North
(Name of Facility)

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

City of Cheyenne

2101 O'Neil Avenue

Cheyenne, WY 82001

to construct, install, or modify a sanitary sewer facility according to the procedures and conditions of the application No. 80-636R. The facility is located in Section 31, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

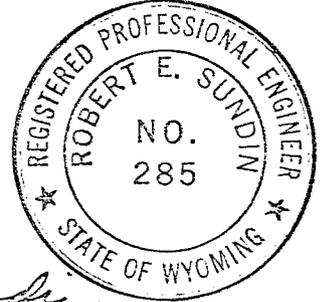
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

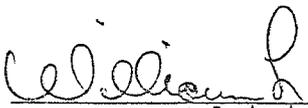
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

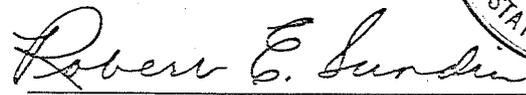
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:




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

March 17, 1981
Date of Issuance


Director
Dept. of Environmental Quality

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

cc: John E. Parks
3001 Henderson Drive
Suite M
Cheyenne, WY 82001

Review of Plans and Specifications

M
12-30-80

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

PROJECT: State Office Building North, Laramie County

ARCHITECT OR ENGINEER: John E. Parks, P.E.
3001 Henderson Dr., Suite M
Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 80-636

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

Theodore D. Coyer

DATE OF REVIEW: December 24, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Please indicate the slope of the 6-inch sanitary sewer on the west side of the building. A minimum slope of 0.60 feet per 100 feet is required.
2. We suggest the low water shut-off switch in the raw sewage lift station be raised since the pump requires submergence for cooling (Detail H, page 20).

1-19-81

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 80-637RR

Lovell's Water Treatment Plant Improvements
(Name of Facility)

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

City of Lovell - Agent: Gerald Gaston, P.E.

336 Nevada Ave.

Lovell, WY 82431

to construct, install, or modify a Surface Water Treatment Plant

facility according to the procedures and conditions of the application

No. 80-637RR. The facility is located in Sec. 15,

T. 56N, R. 96W

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

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

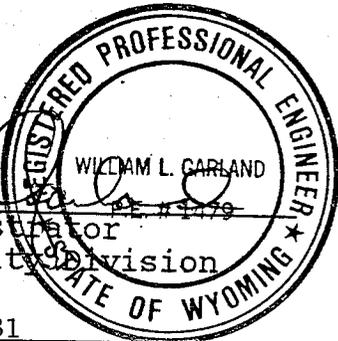
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

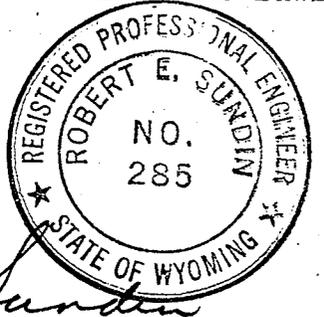
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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 #4479
Administrator
Water Quality Division
STATE OF WYOMING


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

January 6, 1981
Date of Issuance

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

MRC/yh

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Lovell's Water Treatment Plant Improvements

ENGINEER: Sanderson/Stewart/Gaston Engineering
1629 Avenue D
Billings, Montana, 59102

OWNER: City of Lovell
City Hall
Lovell, WY 82431

WATER QUALITY DIVISION REFERENCE NUMBER: 80-637

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



DATE OF REVIEW: December 22, 1980

ACTION: Not authorized.

COMMENTS: After reviewing the aforementioned project and in reference to our recent phone conversation, I would like to offer the following comments for your consideration in processing the necessary permit.

1. All plans and specifications must be stamped and signed by a professional engineer licensed in the State of Wyoming.
2. An "Application form for a Permit to Construct", properly completed and signed, must also be submitted.
3. The velocity gradient (G Factor) for the inline static mixer should be specified to at least 1000 sec^{-1} . A Reynolds number of 500 depicts laminar flow not the desired turbulent flow regime.
4. In general the flocculators should be designed so as to provide a detention time of 10-90 minutes with a corresponding G Factor of $10-75 \text{ sec}^{-1}$. A tapered mixing regime from an initial 100 sec^{-1} to a final of 20 sec^{-1} would be acceptable. Because of the cold water temperatures, recommend a detention time of at least 30 minutes with an acceptable G Factor be provided for this treatment plant.

A/B/C

5. Because this plant does not plan to soften the raw water, recommend the acid-feeder be eliminated. Any pH adjustment required may be done by lime addition and/or deletion. In general, pH adjustments required in water softening plants are done by carbon dioxide not acid.
6. Recommend an air-gap dispenser similar to what's described in "Ten-State Standards" be installed on the water sales unit.
7. The locations of the exhaust fan, vent and chlorine gas mask for the chlorination rooms need to be shown on the plans.
8. Recommend all screens be 16-mesh copper, brass or bronze.
9. Recommend the disinfection specifications for pipes and storage tanks (clear well) follow the procedures as outlined in AWWA C 601 and AWWA D 102-73, second method, respectively.
10. The PVC water pipe specification should reference AWWA C 900.
11. An overflow or equivalent should be provided for the clear well.
12. Although not required, recommend a schematic diagram of the treatment plant and the corresponding locations of the chemical feed points be submitted as part of the engineering plan.
13. If a septic tank/absorption field disposal system is proposed for the plant's domestic wastes, the attached check sheet should be filled out and submitted as part of the application. Also, please reference the attached proposed design standards for small wastewater disposal system.
14. The design criteria used for the wastewater lift station should also be presented. Emphasis should be placed on sloping the discharge line back to the wet well in order to prevent freezing problems.
15. If at all possible recommend consideration be given to lifting the dikes of the receiving pond in order to achieve a non-discharging status. If this proves feasible, the plant's domestic wastes may also be sent to the pond thus eliminating the need for installing the proposed septic tank/absorption field.

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

MRC/yh

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 80-638RR

River West Wastewater Treatment Plant
(Name of Facility)

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

Radix, Inc.

731 East 2nd St.

Casper, WY 82601

to construct, install, or modify a gas chlorination system facility according to the procedures and conditions of the application No. 80-638RR. The facility is located in Section 22, 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.

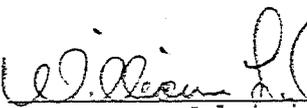
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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.

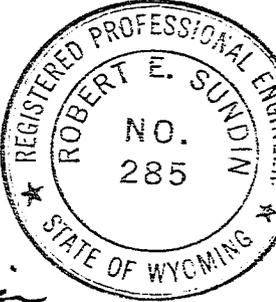
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:



Administrator E.#1479
Water Quality Division
February 12,
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Pix Howell
The Engineers
6405 Indian Scout Dr.
Casper, WY 82601

M 27-81

Review of Plans and Specifications

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

PROJECT: River West Wastewater Treatment Plant
Chlorination Modification

ARCHITECT OR ENGINEER: Thomas P. McDill, Jr., The Engineers
6405 Indian Scout Dr., Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-638R

REVIEWING ENGINEER: T. S. Norman, E.I.T. *T. S. Norman*

DATE OF REVIEW: January 22, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Scales for weighing chlorine cylinders are required by Ten State Standards. This does not require anything fancy or accurate but merely a scale that is stable, has a range of up to 250-300 pounds and can weigh to an accuracy of a few pounds.
2. The range of the roto-meter is inadequate to handle the range of flow conditions (peaks).
3. We do not have the manufacturers catalog for chlorine diffusers. Will adequate mixing be provided since the influent enters at the top and the chlorinator is on the bottom? Since the chlorine solution is colder than the wastewater, won't there be a tendency to form a chlorine pocket on the bottom?
4. No electrical schematic was submitted.
5. The chlorine containers should be chained to the wall to prevent any hazard from being knocked over.

cc: Radix, Inc.
731 East 2nd St.
Casper, WY 82601

M
12-30-80

Review of Plans and Specifications

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

PROJECT: Riverwest Wastewater Treatment Plant
Chlorination Modification

ARCHITECT OR ENGINEER: Thomas P. McDill, Jr.
The Engineers
6405 Indian Scout Dr.
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-638

REVIEWING ENGINEER: T.S. Norman, E.I.T. *Thomas S. Norman*

DATE OF REVIEW: December 24, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A window must be installed on the door of the chlorination building to permit viewing without entering.
2. The chlorination building must be heated.
3. Scales for weighing cylinders must be provided at facilities using chlorine gas.
4. A method for detecting chlorine leaks must be provided. A bottle of ammonium hydroxide solution is acceptable but must not be placed inside chlorinator room.
5. Due to the high potential for flooding, it is recommended that the backflow preventer be elevated to within the floor surface.
6. The roto-meter, controls and ejector should be placed in the chlorine building to eliminate the dangerous gas line within the working area.
7. What is the range capacity of the roto-meter and the ejector?
8. What is the configuration of the chlorine diffuser?
9. What is the type of pipe that carries the dry chlorine to the ejector?
10. Please submit an electrical schematic of the control processes.

11. In an attempt to interpret the 'note' at the center top of the plans, could one assume that everytime the equalization pumps shut down (deactivating the solinoid and chlorinator) that there will be 45 minutes of flow without any chlorination?
12. Respiratory air-pac protection equipment is required wherever chlorine gas is handled.

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PERMIT TO CONSTRUCT

Permit No. 80-639R

- New
 Renewal
 Modified

Bingo Fuel Stop
(Name of Facility)

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

Telum, Inc.

3227 North Canyon Road

Provo, UT 84601

to construct, install, or modify a public water distribution and wastewater collection and treatment systems facility according to the procedures and conditions of the application No. 80-639R. The facility is located in Section 22, T21N, R86W 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.

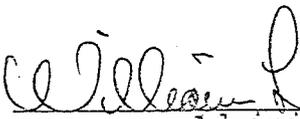
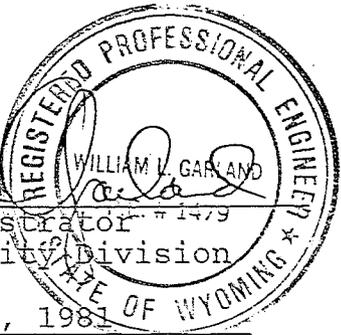
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

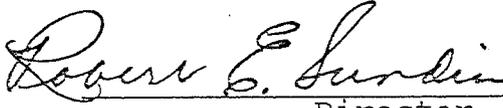
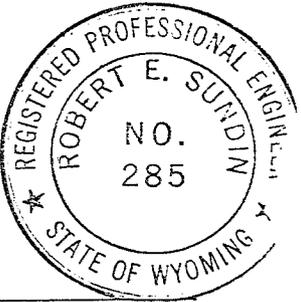
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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



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



Director
Dept. of Environmental Quality

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

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

Review of Plans and Specifications

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

PROJECT: Bingo Fuel Stop

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

WATER QUALITY DIVISION REFERENCE NUMBER: 80-639

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

DATE OF REVIEW: February 2, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Since this proposed lagoon system will operate as an evaporation-percolation cell, the applicant must demonstrate that the ground percolation will not have an adverse impact on ambient groundwater. This would require, as a minimum, a comparison between the quality of the pond wastewater and the ambient groundwater. Groundwater and wastewater samples are required for this design. Parameters should contain, as a minimum, those found in the EPA Safe Drinking Water Act. Also, indicate depth to groundwater. Attached are some DEQ guidelines for wastewater pond construction. A groundwater monitoring program may be required.
2. Why provide a looping effect in the 2 1/2 inch force main from the pumping facility to the pond?
3. Provide a letter from the City of Rawlins indicating that they can adequately supply the required volume of drinking water at a minimum pressure of 20 psi under all conditions of flow.
4. Recommend that the applicant either amend or establish a Spill Prevention, Control and Countermeasures Plan (SPCC Plan) for his petroleum storage tanks. Information on this program requirement can be obtained form EPA/Denver Regional Office. 303-837-3880.
5. A minimum of 3 feet freeboard must be provided for the wastewater pond.
6. Recommend that access be provided to septic tanks to allow easy pumping of solids. A riser extending to about six inches below ground level surface can be used to accomplish this task.

7. Appropriate permanent warning signs must be placed on each side of the pond one every 500 feet along the fence around the pond to designate the nature of the facility and advise against trespassing.
8. Installation of a flow measuring device would be desirable. Flow measurement facilities for lagoon systems shall not be less than pump calibration time clocks or calibrated flume.
9. Show detail drawing for mobile home water and sewer service. Must comply with DEQ requirements contained in Chapter III.

286

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-640RRRR

Hillcrest Mobile Manor East - Addition
(Name of Facility)

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

Dorie Jackson

Box 391

Kemmerer, WY 83101

to construct, install, or modify a water distribution and
sewer collection system for 12 mobile homes

facility according to the procedures and conditions of the application

o. 80-640RRRR. The facility is located in Sec. 25, T. 21N,
R. 116W

in the County of Lincoln, 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.

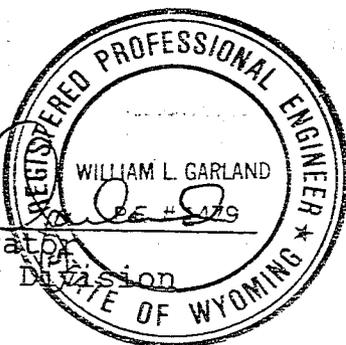
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

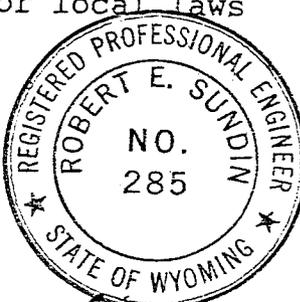
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

February 16, 1981
Date of Issuance

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

FL/kn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Hillcrest Mobile Manor East -- Addition

ENGINEER: Dan Dean, Project Engineer
 Johnson, Fermelia & Crank, Inc.
 Box 631
 Kemmerer, WY 83101

OWNER: Dorie Jackson
 Box 391
 Kemmerer, WY 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 80-640RRR

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: January 28, 1981

ACTION: Not authorized.

COMMENTS: A review has been made of your second resubmittal. The remaining items still need to be resolved before a "Permit to Construct" will be issued.

GENERAL

4. The note added to the plans is unacceptable. The Ten State Standards are a guide to be used in the design and preparation of plans and specifications. They are not construction specifications, nor are the Wyoming Water Quality Rules & Regulations. Complete specifications are still needed.

7. This still has not been answered to the satisfaction of this office. Once again: A detailed sketch is needed of the connection to the existing lift station. It should show the location of the entrance in relation to the rest of the station. What type of grout will be used?

8. A peaking factor of 4 should be used as per Ten State Standards. Using this peaking factor gives a peak flow of 92gpm, which is just under the capacity of the lift station.

A, B, C

WATER SYSTEM

14. The water line profile needs to be added to the drawings. The plans must be complete and in their final form before the permit is issued.

18. If this line needs to be flushed, how will the section from STA 6+50 to STA 7+90 be flushed? A flushing device needs to be added.

21. The plans will not be approved until all thrust block locations and amounts are shown on the drawings as requested. Unless the Town of Diamondville Standards for New Construction have been approved by the DEQ, and I don't have any record showing they have been, they are not recognized by this office regardless of the fact that the work is within the Town limits. Until those standards have been reviewed and accepted by the DEQ, this office will not accept a reference to them.

ADDITIONAL COMMENT

23. On the sewer line profile, the slope is given as $S=0.0040\%$. I assume this was meant to be $S=0.0040$ in. foot per foot, or $S=0.40\%$. Please correct this.

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

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: Hillcrest Mobile Manor East - Addition

ENGINEER: Dan Dean
Project Engineer
Johnson, Fermelia & Crank, Inc.
Box 631
Kemmerer, WY 83101

OWNER: Dorie Jackson
Box 391
Kemmerer, WY 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 80-640R

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: January 14, 1981

ACTION: Not authorized.

COMMENTS: A review has been made of your resubmittal. The following items still need to be clarified before a "Permit to Construct" can be issued.

General

1. The "Application for Permit to Construct" showing the location of the facility (question number 2) was not received with the resubmittal.
2. & This office has not received the necessary letters of verification from the
3. Town of Diamondville.
4. The construction specifications are incomplete. They must, at a minimum, meet Ten State Standards. Complete specifications, complying with Ten State Standards, are needed.
5. Rim elevations are needed on the sewer line profile.
6. Okay
7. A detailed sketch is needed of the connection to the existing lift station. It should show the location of the entrance in relation to the rest of the station. What type of grout will be used to seal the new pipe? Will it be water tight?

8. Please show the calculations you used to arrive at the figures you presented.
9. Okay
10. The cleanout should be protected at the ground surface by a concrete collar a minimum of four (4) inches thick and twelve (12) inches in diameter.
11. Okay
12. Please refer to Chapter III, Appendix A, Section 1.8, of the Wyoming Water Quality Rules and Regulations (copy enclosed). The concrete collars are required. Please show them on the riser detail.
13. Okay

Water System

14. A profile of the water main is needed.
15. Okay
16. Complete, detailed design calculations are needed to verify that adequate volumes of water are available as well as maximum and minimum pressures can be met.
17. Okay
18. An approved flushing device is needed at the end of the water line.
19. Okay
20. Okay
21. Please show all thrust block locations and amounts on the drawings.
22. Okay

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

FL/kn

Enclosures

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Hillcrest Mobile Manor East

ENGINEER: Dale Crank
Box 631
Kemmerer, WY 83101

OWNER: Mrs. Dorie Jackson
Box 391
Kemmerer, WY 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 80-640

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: December 29, 1980

ACTION: Not authorized.

COMMENTS: The following points have to be clarified to complete the review of the proposed addition to Hillcrest Mobile Manor before a "Permit to Construct" can be issued.

General

1. On the "Application for Permit to Construct", the location of the facility (question number 2) needs to be filled in.
2. A letter of verification is needed from the Town of Diamondville stating they will allow the sewer connection to their system and that they are capable of handling the added organic and/or hydraulic load.
3. A letter of verification is needed from the Town of Diamondville stating they can adequately supply 350 gallons of water per mobile home at the required pressure of 20 psi under all conditions of flow.
4. Complete and detailed construction specs are requested. They should include installation standards, trenching details, bedding details, backfill, deflection testing, maximum infiltration and exfiltration rates, leakage testing details, inspection procedures, cover, thrust blocking pressure testing, disinfection procedures and separation of water and sewer mains. (A sketch of a typical crossing is requested.)

A, B, C

Sewer System

5. A profile of the sewer line is requested. It should show all water line crossings, depth of cover, rim and invert elevations, slope, pipe specifications, etc.
6. Maximum allowable manhole spacing for an eight (8) inch sewer line is 400 feet.
7. Details of the tie-in to the lift station are needed.
8. Calculations are needed to verify that the lift station can adequately handle this additional flow.
9. Manhole details are needed. This should include a cross-section drawing. Include flow channel details and inlet and outlet pipe connection details.
10. A detail is needed of the cleanout at the end of the 8 inch line.
11. The branch line from the sewer main to the riser should be installed at a minimum slope of 1/8 inch per lineal foot.
12. The riser pipe needs to be protected by concrete at ground surface. The concrete protector should be a minimum of 4 inches thick and 12 inches in diameter.
13. The general notes state all sanitary sewer lines shall be ASTM D 3034 SDR35. I assume this includes the 4 inch laterals. Please clarify this on the drawing.

Water System

14. A water line profile is requested. It should show all sewer line crossings, depth of cover, valves, pipe specifications, etc.
15. The minimum size water main for providing fire protection and serving fire hydrants is six inches.
16. Design calculations are needed to support the water system design. This should include maximum and minimum pressures and flows.
17. This line should be looped.
18. Dead-end mains must be provided with a fire hydrant if flow and pressure are sufficient or with an approved flushing hydrant or blow off. Details are needed.
19. Details are needed of the fire hydrant connection showing thrust blocking, gravel drain pocket, etc. Hydrants shall not be located within 10 feet of sanitary sewers or drains.

Hillcrest Mobile Manor East
DEQ #80-640

3

December 29, 1980

20. Details are needed of the water risers.
21. Thrust blocking locations and amounts should be shown on the drawings.
22. Details are needed of the service line connections.

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

FL/kn

PERMIT TO CONSTRUCT

New

Permit No. 80-641

Renewal

Modified

HULETT WATER TANK

(Name of Facility)

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

Town of Hulett

Town Hall

Hulett, Wyoming 82720

to construct, install, or modify a water storage tank

facility according to the procedures and conditions of the application

No. 80-641. The facility is located in Section 7,

T.54N., R.64W.

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

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

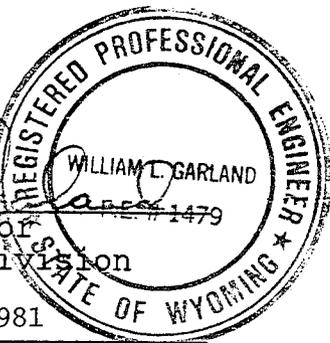
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

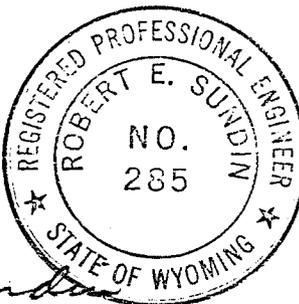
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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
January 30, 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: James T. Fletcher
Plains Engineering
P.O. Box 727
Newcastle, WY 82701

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 80-642

ROLLING HILLS BLOCK 20, WATER AND SEWER SYSTEM
(Name of Facility)

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

Millette Properties Inc.
P.O. Box 2281
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. 80-642. The facility is located in Section 26,
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 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.

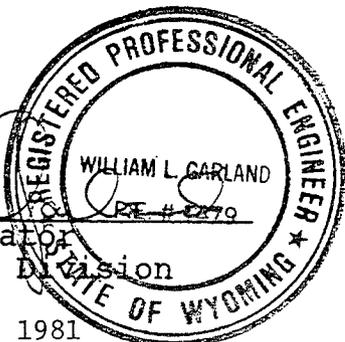
The authority to construct granted by this permit does not mean or
imply that the Wyoming Department of Environmental Quality guarantees
or insures that the permitted facility, when constructed, will meet
applicable discharge permit conditions or other effluent or oper-
ational requirements.

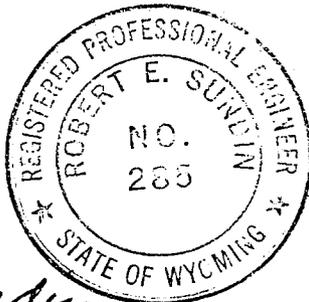
The permittee shall allow authorized representatives from the Depart-
ment of Environmental Quality, Water Quality Division, upon the pre-
sentation of credentials and during working hours, to have access to
inspect the facilities, at the above location, for the purpose of
compliance with the provisions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

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

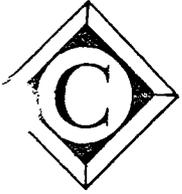

Robert E. Sunder
Director
Dept. of Environmental Quality
STATE OF WYOMING

January 29, 1981

Date of Issuance

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

cc: Kanti Patel
3602 Force Road
Gillette, WY 82716



CARDINAL ENGINEERING
CONSULTING ENGINEERS

March 19, 1981
8030

Mr. Frank LaBarge, Sanitary Engineer
Department of Environmental Quality
933 Main Street
Lander, WY 82520

Re: 80-643
Crossbow Venture



80-643RR

Dear Frank:

Please void the application dated 12-24-80 for a permit to construct for the subject project. The purpose of withdrawing this application is to accomodate the revision of "B"-Line, since this revision was a major change, you indicated that we would need to file a new application. A new application was filed on 3-13-81.

81-131

Sincerely,

CARDINAL ENGINEERING

Jerald B. Crews, P.E.

cc: Crossbow Venture

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Crossbow Venture

ENGINEER: J. B. Crews
2334 Rose Lane
Riverton, WY 82501

OWNER: Crossbow Venture
P.O. Box 359
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 80-643R

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

DATE OF REVIEW: February 26, 1981

ACTION: Not authorized.

COMMENTS: A review of your resubmittal has been completed. The following points remain to be clarified before a "Permit to Construct" can be issued:

General

1. Resolved.
2. On Sheet 1 - Site Plan, unit SE-2 is not shaded in as the rest of the buildings are. Is this an oversight or is it not included for some reason?
3. Resolved.
4. Resolved.
5. Resolved.

Sewer System

6. Resolved.
7. The detail of the connection to the existing eight (8) inch line needs to be shown on the drawings, not on a single 8½" x 11" sheet. I assume the existing manhole (MH #6) has a stub previously installed. Is this correct?

8. Resolved.

9. Calculations showing that A-Line can handle the anticipated flow are requested. If A-Line can handle this flow it is obvious the rest of the eight (8) inch lines in the subdivision can. Mr. Lemke's letter resolves the question about the existing eight (8) inch line.

10. Three feet of cover will expose the sewer lines to potential freezing and possible damage due to live loads. It appears these lines could be lowered and still tie into MH #6, thus providing additional cover. This office is requesting the lines be lowered to achieve a minimum cover of five (5) feet as measured from the final ground elevation to the top of the pipe.

11. Pipe material specification should include which SDR is to be used.

12. Resolved.

13. Resolved.

14. Resolved.

15. Resolved.

Water System

16. Resolved.

17 & 18. A complete and detailed hydraulic analysis of the water system is requested. The system should maintain a minimum pressure of 20 psi at all points under all conditions of flow. Can this four (4) inch main supply enough water for all the units, plus irrigation? Please verify this with your design calculations.

19. Resolved.

20. Detail "A" should be added to the drawings.

21. All thrust blocking and required quantities should be shown on the plan view.

22. Resolved.

23. Detail "C" should be added to the drawings. (Refer to #7.)

24. Resolved.

25. Resolved.

26. Resolved.

Crossbow Venture - Review of Plans and Specifications
Date of Review - February 26, 1981
Page Three

Additional Comments

27. As we discussed, a valve should be installed on the four (4) inch water main near the irrigation system connection. This was not shown on the plans.

28. All the points raised in Rick Lemke's January 9, 1981 review letter must be addressed. Before a "Permit to Construct" will be issued, we require Mr. Lemke's approval of the plans. As of yet we have not received it.

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

FL:nb

cc: Rick Lemke - City Engineer, City of Green River

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Crossbow Venture

ENGINEER: J.B. Crews
2334 Rose Lane
Riverton, WY 82501

OWNER: Crossbow Venture
P.O. Box 359
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 80-643

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: December 31, 1980

ACTION: Not authorized.

COMMENTS: The following points have to be clarified before a "Permit to Construct" can be issued.

GENERAL

1. Sheet 1 - Site Plan is unreadable. Three readable copies of this sheet are required.
2. How many units will be in each building? What is the total number of units for the project?
3. A letter of verification is needed from the Town of Green River stating they will allow the sewer connection to their system and that they are capable of handling the added organic and hydraulic load.
4. A letter of verification is needed from Pacific Power and Light stating they can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.
5. You have referenced the Wyoming Public Works Standards. The following statement is needed on the plans: "The 1979 Wyoming Associated General Contractor (AGC), Public Works Standard Specifications, shall apply to the construction of this project. All work will be in conformance with the standards and specifications of the Wyoming AGC." Any variations in materials, specs, etc. from these standards must be clearly called out on the drawings.

A, B, C

SEWER SYSTEM

6. The sewer line profile should show all water line crossings.
7. Details are needed of the connection to the existing eight (8) inch line.
8. Calculations are needed showing minimum velocities to be expected.
9. Calculations are needed showing that the existing eight (8) inch line can handle this additional flow.
10. A minimum of five (5) feet of cover is required over the sewer line. This is measured from the top of the pipe to the final grade elevation. It appears that this is not met over the entire length of sewer line.
11. I assume you intend to use ASTM D 3034 SDR35 sewer pipe. Complete sewer pipe specifications need to be called out on the drawings.
12. Cleanout locations need to be shown on the plan view.
13. Sewer lateral size and specifications need to be called out on the drawing as well as the slope. Will there be only one lateral going into each building? Details are needed of the connection between the lateral and the main.
14. Details are needed of the proposed flow channels in MHA and MHC. It appears that the angle between the influent and effluent lines may be too sharp to be acceptable.
15. A manhole is required where the six (6) inch line from the laundry building ties into the eight (8) inch line. A profile of this line is needed. Details are needed of the flow channel showing the invert elevations of both pipes. The same energy gradient should be maintained.

WATER SYSTEM

16. It appears that this development should have more adequate fire protection. The local fire warden should be contacted for his recommendation on proper hydrant spacing.
17. The distribution system should be of sufficient size to supply the required volumes and pressures and in no case be less than two (2) inches in diameter. A minimum size of six (6) inches diameter is required if the line is to be used for fire fighting purposes.
18. A complete and detailed hydraulic analysis of the water system is needed. The normal working pressure in the distribution system should be approximately 60 psi and not less than 35 psi. The system should maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow.

19. A profile of the distribution system is required. It should show all sewer line crossings.
20. Details of the connection to the existing water main are needed.
21. All thrust blocking and required quantities need to be shown on the plan view.
22. This system should be looped.
23. Details are needed of the future meter and backflow prevention vault.
24. The water line specifications need to be clarified. The class of AWWA-C 900 pipe needs to be stated. This will be determined by your pressure calculations.
25. Manufacturer's information is requested on the following:
 - straight coupling
 - curb stop and box
 - gate valves and boxes
 - valve boxes
 - service line tees
26. A statement should be included on the drawings pertaining to minimum vertical and horizontal sewer and water line separations.

This does not necessarily constitute the final review. Please submit the required information and revised drawings, in triplicate, to this office. Also submit a copy of the revised plans and information to Rick Lembke, City Engineer for the City of Green River, for his review and comments. If you have any questions, please call me.

FL/yh

cc: Rick Lembke

10.81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 80-644R

Fleming Wastewater Treatment Facility
(Name of Facility)

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

Roy Fleming
1111 Elk Drive
Riverton, WY 82501

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

facility according to the procedures and conditions of the application
No. 80-644R. The facility is located in Sec. 10, T. 1N, R. 3E

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

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

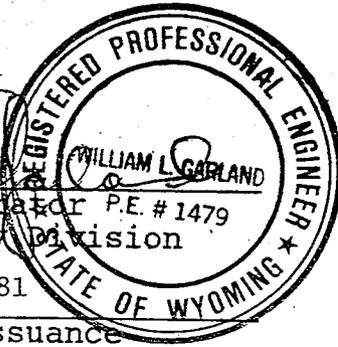
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

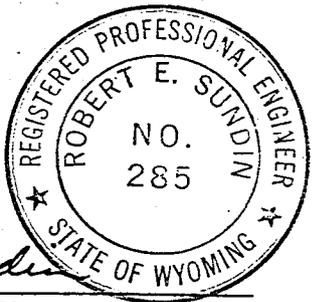
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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
January 12, 1981
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

JCH/kn

80-644

REVIEW OF SMALL WASTEWATER FACILITY PLANS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

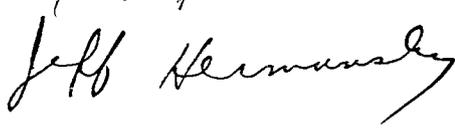
PHONE: (307) 332-3144

OWNER/APPLICANT: Roy Fleming
1111 Elk Drive
ADDRESS: Riverton, WY 82501

Contractor: Major's Equipment
450 South Federal
Riverton, WY 82501

FREMONT COUNTY
~~WATER QUALITY DIVISION~~ REFERENCE NUMBER: 80/224, 80/225

REVIEWING ENGINEER: Jeff C. Hermansky



DATE OF REVIEW: December 10, 1980

ACTION: Not authorized.

COMMENTS:

1. The percolation rate must be determined for both the commercial building and the trailer leach field locations.
2. Show the location of the well on the plan sheet.
3. The application forms need the applicants signature.
4. Please show the width of the distribution line trenches. The disposal area is the total trench area not the gross area of the field.
5. The minimum distance required between the edges of the distribution trenches is 6 feet.

JCH/yh

M
1-20-81

Review of Plans and Specifications

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

PROJECT: Rawlins Water Treatment Plant - Peaking Reservoir Wastewater Disposal System

ARCHITECT OR ENGINEER: MSM Consultants, Inc.
350 West "A" Street, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-645

REVIEWING ENGINEER: T. S. Norman, E.I.T. *T.S. Norman*

DATE OF REVIEW: January 8, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Plans must carry signature or seal of Wyoming registered engineer. Two copies of plans must also be submitted.
2. The Plan Sheet is incomplete. Must show total sewer line from building to drainfield. Also need to know depths to sewer and how sewer will cross 24" water line. How will sewer be protected against service road traffic, if shallow bury?
3. Manholes must meet the requirements of Ten State Standards.
4. Which way does flow go through the culvert on service road? If it drains towards the drainfield, the drainfield must be protected from such runoff.
5. The Percolation Test Report infers that the test holes were not soaked overnight as the total test time was only "4 1/2 hours." Also in sandy soils where the first six inches of water drains away in 30 minutes, the test shall be taken at 10 minute intervals for one hour. In either case, your percolation test procedure is not acceptable.
6. How was the 200 gpd flow estimate derived? How many employees are present throughout the working day?
7. Toxic materials from laboratory shall not be discharged into septic system.

cc: James H. Carney
City of Rawlins
P. O. Box 593
Rawlins, WY 82301

Attachment

M
1-20-81

Review of Plans and Specifications

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

PROJECT: Rawlins Water Treatment Plant - Fort Steele Wastewater Disposal System

ARCHITECT OR ENGINEER: MSM Consultants, Inc.
350 West "A" Street, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 80-646

REVIEWING ENGINEER: T. S. Norman, E.I.T. *T.S. Norman*

DATE OF REVIEW: January 8, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Plans must carry signature or seal of Wyoming registered engineer. Two copies of plans must also be submitted.
2. If the sewer line between the trailer and the septic tank is not straight, manholes or cleanouts must be placed at the bends. A cleanout or manhole detail would then be required.
3. The ends of the perforated pipe in the drainfield must be connected.
4. How was the 300 gpd flow estimate derived?
5. The Percolation Test Report infers that the test holes were not soaked overnight as the total test time was only "4 1/2 hours". Also in sandy soils where the first six inches of water drains away in 30 minutes, the test shall be taken at 10 minute intervals for one hour.

Attachment: Percolation Test Procedure

cc: James H. Carney
City of Rawlins
P. O. Box 593
Rawlins, WY 82301

M
1-27-81

PERMIT TO CONSTRUCT

New

Permit No. 80-647R

Renewal

SEE SPECIAL CONDITIONS

Modified

Town of Hanna - Lagoon By-Pass
(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 lagoon by-pass sanitary sewer facility according to the procedures and conditions of the application No. 80-647R. 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.

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.

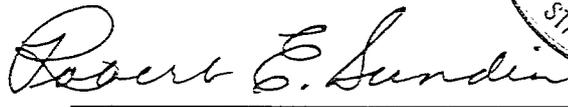
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 # 1475
Administrator
Water Quality Division
STATE OF WYOMING

January 22, 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.

SPECIAL CONDITION

This permit does not authorize the portion of the sanitary sewers indicated as "future".

cc: Western States Engineers, Inc.
Durbin Center, Suite 303
145 S. Durbin
Casper, WY 82601

M
1-20

PERMIT TO CONSTRUCT

Permit No. 80-648

- New
 Renewal
 Modified

Evergreen Business Park
(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 potable water distribution system and wastewater collection facility according to the procedures and conditions of the application No. 80-648. The facility is located in Sections 5 & 8, 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.

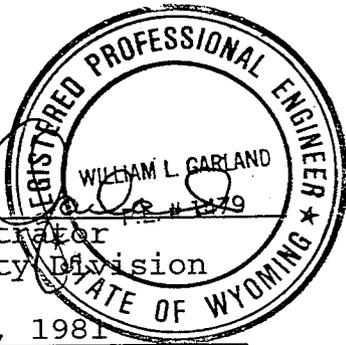
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

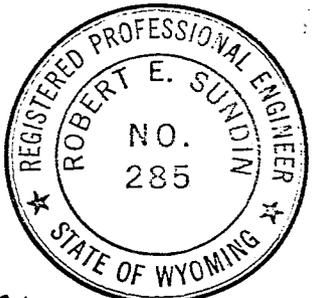
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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
Administrator
Water Quality Division
STATE OF WYOMING
January 8, 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: Terry L. Titus, P.E.
Worthington, Lenhart, Carpenter, & Johnson
632 South David
Casper, WY 82601

PERMIT TO CONSTRUCT

Permit No. 80-649RR

- New
- Renewal
- Modified

Yellowstone Road Industrial Park
 (Name of Facility)

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

Upland Industries

404 "N" St.

Rock Springs, WY 82901

to construct, install, or modify a Industrial Subdivision

_____ facility according to the procedures and conditions of the
 application No. 80-649RR. The facility is located in Sec. 15, T.19N., R.105W.

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

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

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

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

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

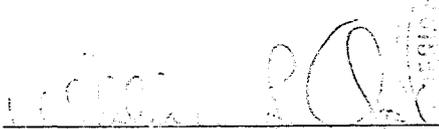
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

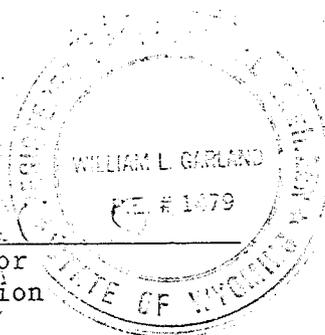
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

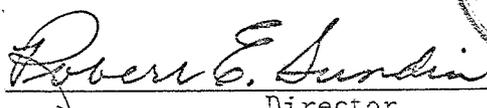
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

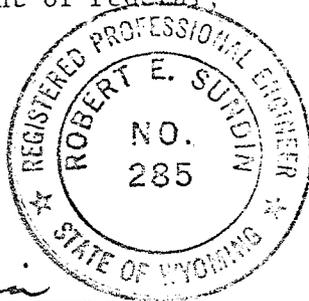


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



May 11, 1981
Date of Issuance

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

AB/tc

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Yellowstone Road Industrial Park

ENGINEER: Upland Industries
404 "N" Street
Rock Springs, WY 82901
ATTN: Benjamin C. Braken

OWNER: Same

WATER QUALITY DIVISION REFERENCE NUMBER: 80-649R

REVIEWING ENGINEER: Al Berreth, P.E. *ajb*

DATE OF REVIEW: February 4, 1981

ACTION: Not authorized.

COMMENTS: A "Permit to Construct" will not be issued until satisfactory clarification is obtained on the following points which relate to the initial review.

A. Sewer Main System

1. Who are to be the residents of the industrial park? Of what will their wastewater consist?
2. When Lot 29 is further subdivided, a "Permit" will be required.
3. Do any services come into the extension? If Lot 28 comes in upstream of the manhole, a cleanout is required.
4. Your plans call out PVC, therefore, call out ASTM designation and SDR number on the plans.
5. An example sheet is attached. Please include flow from the expected development of Lot 29.
6. Is the 6 inch line going to Lot 13 a service line? Will it carry flow from only Lot 13?
7. A review will be made of flow and flow depths when submitted.

ABC

Review of Plans and Specifications
Yellowstone Road Industrial Park, Rock Springs, WY
Date of Review--February 4, 1981
Page Two

8. Refer to No. 6.

9. Please provide details. Is the pipe to be on skids or be packed in sand? Drawings are required. Has the railway approved the design? Please send a copy of the letter.

10. Normally, new drawings are requested. This correction will be made in pencil on our drawings.

B. Water Main System

1. You are requesting the permit, not PP&L.

2. Drawings would be appreciated. Has the railway approved this method? Please send a copy of the letter.

3. Detail how the tap will be made.

4. See No. 1 above.

5. See No. 1 above.

6. See No. 1 above.

7. Okay.

8. Okay.

9. Please clarify drawings.

C. Lift Station

1. Okay.

2. Okay.

3. Okay.

4. What head, what flow rate, and what size impeller are needed? The pumps will need to be specified in the specifications or on the drawings.

5. "Ten-States Standards" requires dual vacuum pumps. These, too, need to be specified.

6. Do you mean that both pumps will operate when the high level alarm is activated? This, too, should be specified.

Review of Plans and Specifications
Yellowstone Road Industrial Park, Rock Springs, Wy
Date of Review--February 4, 1981
Page Three

C. (continued)

7. Okay.
8. "Ten-States Standards" requires that intermittent ventilation provide at least 30 complete air changes per hour and that air be forced into the wet well. Ventilation is required. Details are required.
9. Why? Are there running time meters on the pumps?
10. What activates light?
11. How would this be done?
12. Okay.

AB/nb
Copy: DEQ/WQD - Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Yellowstone Road Industrial Park

ENGINEER: Upland Industries
Attention: Benjamin C. Bracken
404 "N" Street
Rock Springs, WY 82901

OWNER: Upland Industries
404 "N" Street
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 80-649

REVIEWING ENGINEER: A. Berreth, P.E. *AB*

DATE OF REVIEW: January 14, 1981

ACTION: Not authorized.

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

A. Sewer Main System

1. What are the general characteristics of the wastewater? Will pretreatment be necessary?
2. Is lot #29 to have water or sewer service?
3. The stub-out at manhole #13 is rather long. What is the reason for not relocating the manhole at the end of the line? A cleanout is normally required on a stub-out of that length.
4. When specifying PVC pipe on plan and profile sheets, please also note the ASTM designation and SDR number so that a specific pipe is specified.
5. Calculations are needed which justify sewer slope and size. Include flow information such as maximum hourly, infiltration, if expected, and fully developed.
6. "Ten-States Standards" states that the minimum sewer size shall be 8 inches in diameter.

7. Is it possible to provide a small drop in manholes that have a change in direction?
8. A cleanout is not acceptable on the line going into manhole #4.
9. Details of casing the sewerline are needed.
10. Manhole #4 shown on page 9/15 is shown as manhole #3 on page 10/15.

B. Water Main System

1. What is the average system pressure?
2. How will the contractor case the existing main? Please provide details.
3. Are the tees existing at the wet taps?
4. What are the expected flows, maximum, minimum, fire, etc.
5. Calculations are needed which show that a minimum of 20 psi is maintained at peak demand plus fire flow.
6. The dead end on the west end of "Dines Way" needs a flushing device.
7. Is there an existing 2 inch main under Yellowstone Road as shown?
8. Normally, 6 feet of cover over the top of the pipe is required.
9. The gate valve thrust blocking is not clear. Steel rods or straps are required.

C. Lift Station

1. Details of the gravity main from manhole #1 to the lift station are needed.
2. Is the station subject to flooding?
3. What is the depth to groundwater? Will the wet well be subject to floating?
4. Pump curves need to be supplied.
5. Information is needed on the pumps. Are they capable of passing a 3 inch sphere? How are they primed?
6. Are the pumps alternated? Please explain control system.

7. A gate valve and box are needed on the discharge line outside the wet well.
8. Ventilation for the wet well is needed.
9. Has consideration been given to flow measurement?
10. Is there an alarm system?
11. What is the overflow prevention strategy? An overflow tank will probably be required.
12. Please explain the alternate discharge locations shown.

AB/kn

cc: Glen Sugano



STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 4, 1982

Larry Williamson
Executive Vice President
Big Valley Corporation
Alta, WY via Driggs, ID 83422

RE: Grand Targhee Resort Lagoon
Permit # 80-65ORRR

Dear Mr. Williamson:

In reference to your December 23, 1981 letter, you will not need to obtain any extensions to complete the necessary work to bring the lagoon into compliance with Permit # 80-65ORRR.

I would like to remind you that as of this date I have not received the results of the water tests that were to be run on well # U.W. 3373. If you will refer to my September 2, 1981 letter (copy enclosed), this well was to be tested for the primary and secondary drinking water standards as well as for TDS and NH₃-N. I am looking forward to receiving this information in the near future. If you have any questions, please contact me at this office.

I will contact you at a later date to make the necessary arrangements for our annual inspection. I am tentatively planning the inspection for the latter part of August, 1982, in anticipation that all the lagoon modifications will be completed by then.

Yours truly,

Francis LaBarge
Water Quality Evaluator
Southwest District

FL/db

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

File (2)

*Department of Environmental Quality**Water Quality Division*

210 Lincoln

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

September 2, 1981

Big Valley Corporation
Alta, Wyoming
Via Driggs, Idaho 83422
ATTN: Larry Williamson, Executive Vice President

Re: Grand Targhee Wastewater Lagoon
DEQ #80-650RRR

Dear Mr. Williamson:

The plans and specifications for the above referenced facility have been approved as of this date. The permit has been sent to Cheyenne for signatures. In the near future your engineer will be receiving a copy of the permit and approved plans.

Concerning the sampling of Well #U.W. 3373 the groundwater section in Cheyenne has requested you sample the well in approximately three (3) months (i.e. by December 1, 1981) for both the primary and secondary drinking water standards. In addition the water should be analyzed for TDS and $\text{NH}_3\text{-N}$. Upon receipt of this information it will be evaluated and you will then be informed if additional sampling will be necessary.

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

Yours Truly,

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

Francis LaBarge
Water Quality Evaluator

xc: Tony Mancini - Groundwater Control Supervisor
Cheyenne DEQ/WQD
File (2)

Chey.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

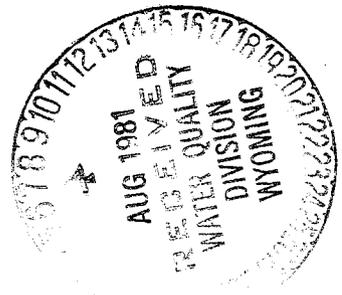
WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: GRAND TARGHEE RESORT LAGOON MODIFICATIONS

ENGINEER: A. W. Engineering
Box 139
Victor, Idaho 83455
ATTN: Arnold Woolstenhulme

OWNER: Big Valley Corporation
Alta Wyoming
Via Driggs, Idaho 83422
ATTN: Larry Williamson



WATER QUALITY DIVISION REFERENCE NUMBER: 80-650RR

REVIEWING EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: August 3, 1981

ACTION: Not authorized.

COMMENTS: A review of your July 1, 1981 reply to my June 10, 1981 review letter has been completed by this office and the Groundwater Section. Following are the results of this review. My comments are in the same order as those in the June 10, 1981 letter.

- 1(a). Resolved.
- (b). As of this date, copies of the physical and chemical analyses that have been run on the three wells has not been received in this office. The Groundwater Section in Cheyenne has requested that Well # U.W. 3373 be tested for the Primary and Secondary Drinking Water Standards. This information will be kept on file by the DEQ as a source of background data as of the sample date. You will be requested to periodically sample Well # U.W. 3373 for T.D.S., NH₃-N and NO₃-N and submit the results to this office. The purpose is to see if the quality of the water from this well is being affected by percolation from the lagoon.
- (c). Resolved.
- (d). Resolved.
- (e). Resolved.
- (f). Resolved.
- (g). Resolved.

This department has determined that a liner will not be required if the owners consent to 1-b above.

.../2 A.B.C

2. It is recommended that the bank be stabilized (i.e. rip rap) around the inlet box and overflow box.

Why do you switch from an eight inch pipe from the inlet box to a 15 inch pipe from the overflow box? Please verify the eight inch line can handle the anticipated flow. A profile is needed of the eight and 15 inch discharge lines. A detail is needed of the discharge point of the 15 inch line (i.e. adequate erosion control is required).

- 3(a). Resolved.
- (b). Resolved.
- (c). Resolved.
- (d). Resolved.

4. Resolved.

5. Resolved.

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

FL:d1

8/4/81

cc: Tony Mancini, Jake Strohman - Cheyenne DEQ/WQD

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: GRAND TARGHEE RESORT LAGOON MODIFICATIONS

ENGINEER: A W ENGINEERING
BOX 139
VICTOR, IDAHO 83455
ATTN: ARNOLD WOOLSTENHULME

OWNER:
BIG VALLEY CORPORATION
ALTA VIA DRIGGS, IDAHO 83422
ATTN: LARRY WILLIAMSON, MANAGER

WATER QUALITY DIVISION REFERENCE NUMBER: 80-650 R

REVIEWING ~~ENGINEER~~ EVALUATOR: FRANK LABARGE

DATE OF REVIEW: JUNE 10, 1981

ACTION: NOT AUTHORIZED.

COMMENTS: Based upon a review of the proposed modifications and my on-site inspection and meeting with Fred Dalton and Arnold Woolstenhulme on June 8, 1981, the following items need to be resolved before a permit for the proposed modifications can be issued.

1. The possibility of a liner being required for the lagoon exists. As we discussed the following information should be provided so such a determination can be made.

- - depth to groundwater (i.e., static-level and pump setting levels)
- - a copy of the physical and chemical analysis previously conducted on each of the 3 wells
- - show the direction of groundwater flow (topo lines would be helpful)
- - show the location of all wells in the immediate area in relationship to the lagoon
- - how far away is the nearest neighbor's well?
- - a soil profile
- - an idea of how much percolation is occurring including flow rate into the lagoon

If the information is as we discussed, it appears a liner may not be required but a final determination will be made by the groundwater section in Cheyenne.

Remember, you must completely justify your position that a liner is not required.

2. After checking on the need for a pond drain it has been decided one will not be required and it is preferred that one is not installed. The effluent and overflow pipes existing in the west dike should be plugged, or better yet, removed and abandoned. A revised outfall structure and piping should be shown as discussed. The outlet piping intake should be located diagonally across from the inlet pipe.

3. Because of the very steep terrain (-40%) a dike with a slope of 3:1 would be impractical due to the tremendous amount of fill that would be required. A 1 3/4:1 dike slope will be acceptable in this case if the following items are properly addressed:

- - it can be shown the dike will be stabilized to prevent erosion.
- - it appears seeding would be helpful along the top part of the dike, check with the local SCS office for a recommended seed.
- - rip rap will be needed on the lower portion of the dike, complete construction and material specs are needed as well as a cross-section
- - dike material and construction specs are needed.

4. Please show the influent line and manhole on the plans. The invert elevation of the influent manhole should be included. It should be at least six inches above the high water elevation of the pond to prevent surcharging.

5. A flow measuring device, such as a wier, should be included on the discharge.

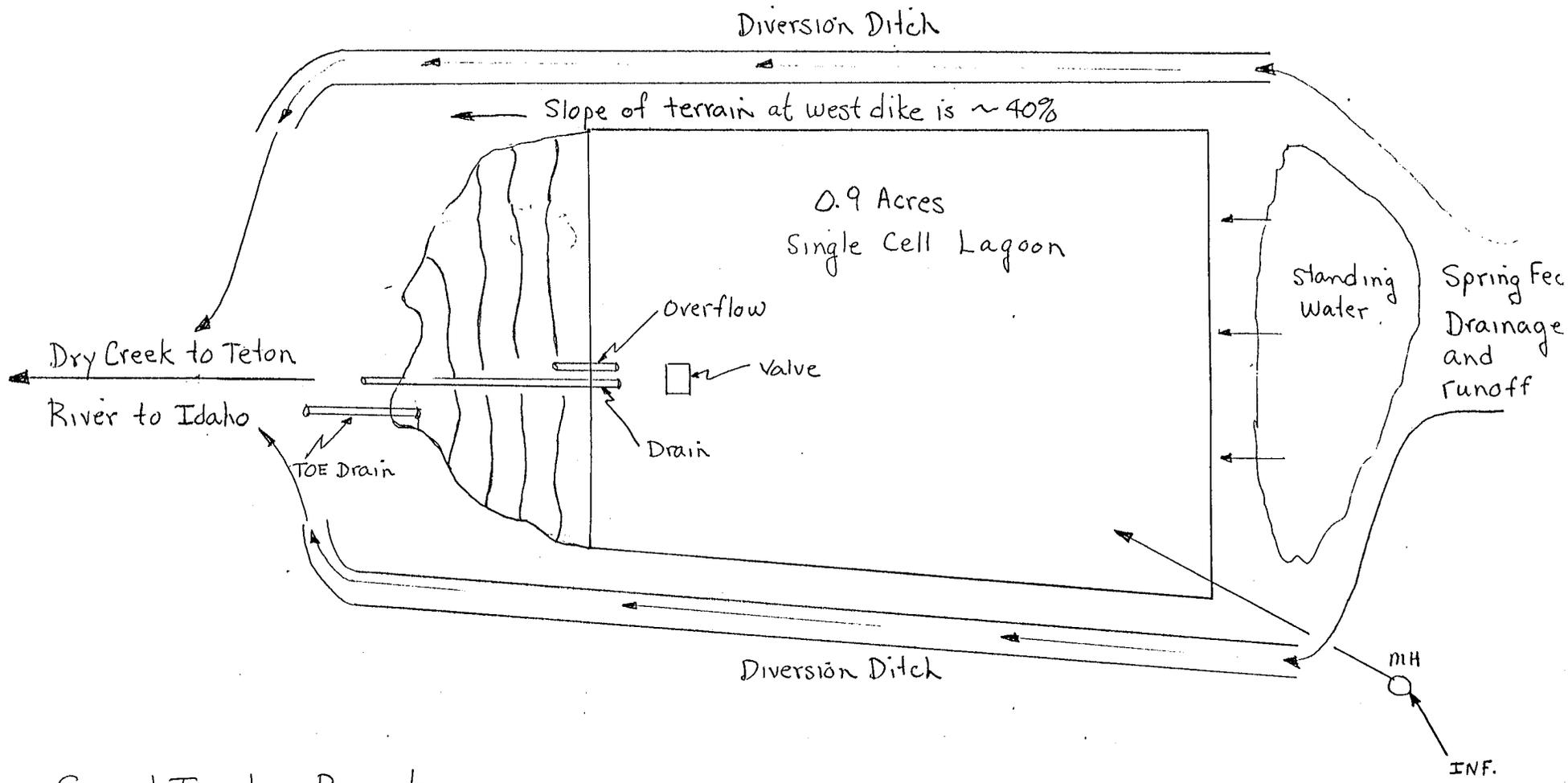
Please submit the required information and revised drawings, in triplicate, to this office. If you have any questions, please call me.

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

FL:sj



N.T.S.



Grand Targhee Resort
Alta Via Driggs, Idaho

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

WASTE STABILIZATION PONDS

Item	Physical Condition	Comments
Weeds Cut	S	
Dikes Maintained	M	East dike is eroding-diversion ditch is needed. West dike is eroding-modifications proposed (DEQ#80-650)
Erosion Control	M	
Seepage	To Be Determined in Application for Modifications.	
Ground Water Contamination		
Fencing	U	Fence needs to be completely repaired.
Posted	U	Warning signs need to be posted.
Access Road	M	
Rodents	M	
Mosquito Problem	S	
Inlet Structure	S	Appears to be satisfactory.
Depth Control	U	Pipes have erroded off dike.
Effluent Release	U	Pipes have erroded off dike.
Frequency of Inspections	S	
Flow Measurements		No flow measuring device-has never been any discharge.

Cells	Max. Depth	Min. Depth	Area	Outlet	Color	Comments
#1	Design-12' Actual-4-5'	4'	.9 ac.	U	Green	modifications have been proposed in process of approving plans
#2						
#3						
#4						

Lift Stations	Records	Ventilation	Comments
#1	N/A	N/A	Gravity System
#2			
#3			

Rating Codes: E=Excellent; S=Satisfactory; M=Marginal; U=Unsatisfactory

STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

March 16, 1981

A. W. Engineering
Box 139, 4th North
Victor, Idaho 83455

Attn: Arnold Woolstehulme

Re: Grand Targhee Resort - Lagoon Improvement
DEQ Ref. NO. 80-650

Dear Mr. Woolstehulme:

This office is in receipt of your February 2, 1981 letter in reference to the above project. As of this date I have not received any reply to my January 14, 1981 review letter (copy enclosed).

You are requested to inform this office of the status of this project and to provide the name and address of the owner of this facility. When can a reply be expected? If the project has been abandoned, submit a letter withdrawing the application.

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

Yours truly,

Francis LaBarge

Francis LaBarge
Water Quality Evaluator
Southwest District

FL:nb

Enclosure

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Grand Targhee Resort - Lagoon Improvement

ENGINEER: AW Engineering
c/o Arnold W. Woolstehulme
Box 139
Victor, Idaho 83455

OWNER: ?

WATER QUALITY DIVISION REFERENCE NUMBER: 80-650

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: January 14, 1981

ACTION: Not authorized.

COMMENTS: The following points need to be clarified to complete the review of the proposed lagoon improvements before a "Permit to Construct" can be issued.

1. Please fill out and sign the enclosed "Application for Permit to Construct" and return to this office in triplicate.
2. The plans must be stamped by an engineer registered in the State of Wyoming. Please refer to Section 4, paragraph a. of Chapter III of the Wyoming Water Quality Rules and Regulations (copy enclosed).
3. Three copies of the plans, specifications, design data, etc., are required.
4. The plans and specifications, at a minimum, must meet the standards in Chapter 100, Wastewater Treatment Ponds (Lagoons) of the Recommended Standards for Sewage Works - 1978 Edition (Ten State Standards, copy enclosed).
5. Enclosed is a copy of Guidelines for Wastewater Pond Construction Permit Applications. All applicable information should be included in the permit application.
6. Complete construction specifications and lagoon design calculations are needed.

Grand Targhee Resort
DEQ #80-650

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The information submitted is not adequate for a complete review. The above information must be supplied so a detailed review can be made. Please be advised that, as stated in Chapter III, Section 1, a "Permit to Construct" must be issued before construction or modification of the facility may begin.

Please submit all information and plans to this office. If you have any questions, please call.

FL/kn

Enclosures

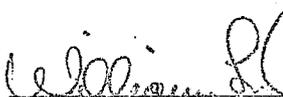
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

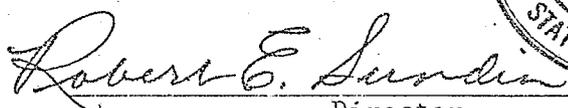
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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


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

September 2, 1981
Date of Issuance

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

FL/ch
9/4/81