

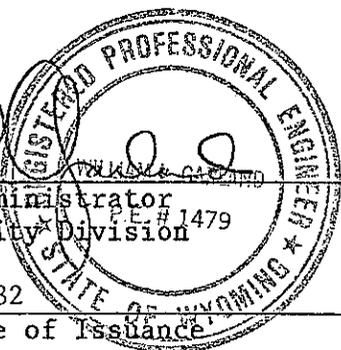
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

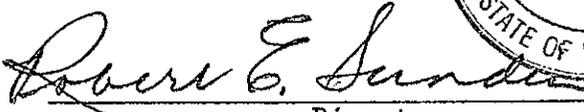
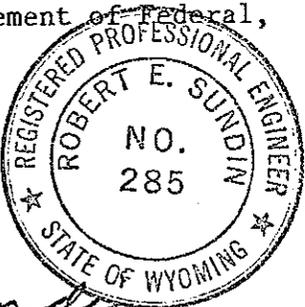
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
P.E. # 1479
October 7, 1982

Date of Issuance

Director
Dept. of Environmental Quality

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

AJB:ch

PERMIT TO CONSTRUCT

Permit No. 78-451

- New
 Renewal
 Modified

SOUTH HAYSTACK RESERVOIR NO. 7

(Name of Facility)

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

CUMBERLAND COAL COMPANY

1000 KIEWIT PLAZA

OMAHA, NEBRASKA 68131

to construct, install, or modify a SEDIMENT & RUNOFF CONTROL

facility according to the procedures and conditions of the application
No. 78-451. The facility is located in SEC. 20, T17N, R117W

in the County of UINTA, in the State of Wyoming. This permit
shall be effective for a period of 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.

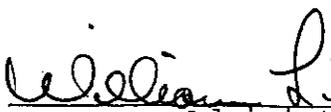
The authority to construct granted by this permit does not mean or
imply that the Wyoming Department of Environmental Quality guarantees
or insures that the permitted facility, when constructed, will meet
applicable discharge permit conditions or other effluent or oper-
ational requirements.

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.

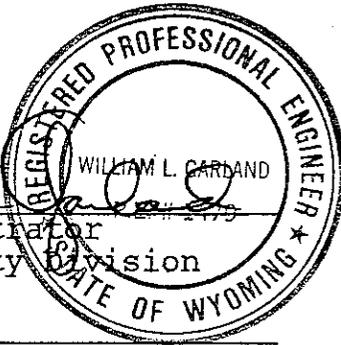
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

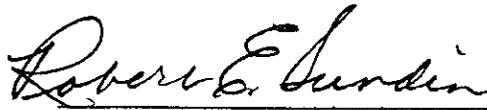
AUTHORIZED BY:



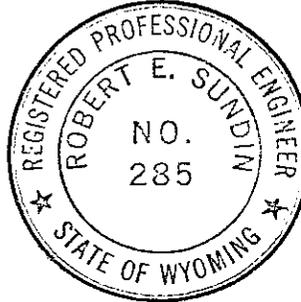
Administrator
Water Quality Division
September 19, 1980

Date of Issuance





Director
Dept. of Environmental Quality



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

FL /lh

PERMIT TO CONSTRUCT

Mailed
9/14/78

- New
- Renewal
- Modified

Permit No. 78-451

SOUTH HAYSTACK RESERVOIR NO. 7

(Name of Facility)

This permit hereby authorizes the applicant:

CUMBERLAND	COAL	COMPANY
_____	_____	_____
(Last)	(First)	(Middle)
1000 KIEWIT PLAZA		

(Street or P.O. Box)		
_____	_____	_____
OMAHA	NEBRASKA	68131
_____	_____	_____
(City)	(County)	(State)

to construct, install, or modify a SEDIMENT & RUNOFF CONTROL
 facility located in SEC 20 T17N R.117W
 (Legal Description)

in the County of UINTA, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Goulard
 Administrator
 Water Quality Division

Robert E. Sardin
 Director
 Wyoming Dept. of Environmental Quality

September 13, 1978
 Date of Issuance

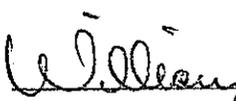
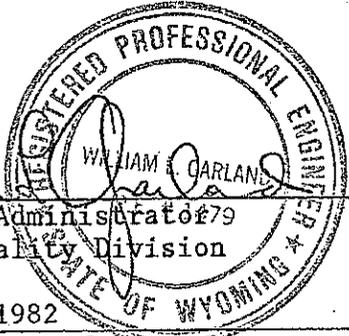
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

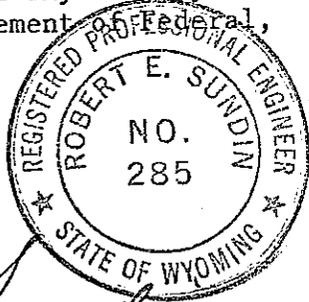
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:



Administrator #279
Water Quality Division
October 7, 1982
Date of Issuance



Director
Dept. of Environmental Quality

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

AJB:ch

PERMIT TO CONSTRUCT

New

Permit No. 78-452

Renewal

Modified

SOUTH HAYSTACK RESERVOIR NO. 8

(Name of Facility)

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

CUMBERLAND COAL COMPANY,

1000 KIEWIT PLAZA

OMAHA, NEBRASKA 68131

to construct, install, or modify a SEDIMENT & RUNOFF CONTROL

facility according to the procedures and conditions of the application
No. 78-452. The facility is located in SEC. 20, T17N, R117W

in the County of UINTA, in the State of Wyoming. This permit
shall be effective for a period of 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.

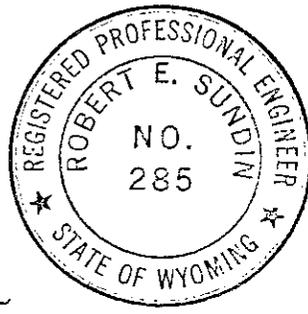
The permittee shall allow authorized representatives from the Depart-
ment of Environmental Quality, Water Quality Division, upon the pre-
sentation of credentials and during working hours, to have access to
inspect the facilities, at the above location, for the purpose of
compliance with the provisions 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 P.E. #1479
Water Quality Division
September 19, 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.

EL/1h

mailed
9/14/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-452

SOUTH KAYSTACK RESERVOIR NO. 8

(Name of Facility)

This permit hereby authorizes the applicant:

CUMBERLAND COAL COMPANY
 (Last) (First) (Middle)

1000 KIEWIT PLAZA
 (Street or P.O. Box)

OMAHA NEBRASKA 68131
 (City) (County) (State)

to construct, install, or modify a SEDIMENT & RUNOFF CONTROL
 facility located in SEC 20 T17N R117W
 (Legal Description)

in the County of UINTA, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Quisenberry
 Administrator
 Water Quality Division

Robert E. Sardin
 Director
 Wyoming Dept. of Environmental Quality

September 13, 1978
 Date of Issuance

Cumberland Coal Company

One Thousand Kiewit Plaza
Omaha, Nebraska 68131

(402) 342-2052

October 19, 1982

State of Wyoming
Department of Environmental Quality
Water Quality Division
933 Main Street
Scheele Building
Lander, WY 82520

Attn: Mr. Al Berreth
S.W. District Engineer

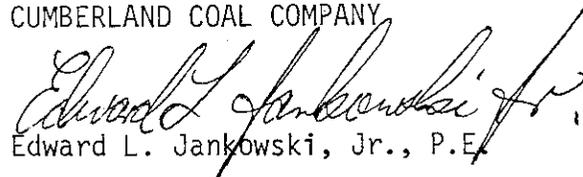
Dear Mr. Berreth:

Please find this as an official request for the cancellation of four permits. The involved permit numbers are 78-453, 78-455, 78-456 and 77-534R, i.e. South Haystack Reservoirs No. 9, 11, 12 and the silo evaporation pond. These structure permits are being cancelled due to revisions to the mine plan concerning coal handling at loadout facilities.

At this time we would also like to make application for two new evaporation ponds, four containment ponds and a reservoir at our South Haystack Mine. These new evaporation ponds, containment ponds and reservoir are required since the location of our railroad loadout loop has changed and we are trying to contain runoff closer to the point of disturbance. The new loadout facilities will make use of a 5.0 mile long conveyor. The containment ponds, each less than 2 acre-foot will be located along the conveyor and railroad loadout loop near topsoil stockpiles. The evaporation ponds EP-1 and EP-2 will control the washdown water from the silos and the loadout building respectively. Reservoir No. 9 was moved closer to the point of disturbance, the overburden stockpile in Section 29. Included with this letter are application forms and two sets of plans.

Very truly yours,

CUMBERLAND COAL COMPANY



Edward L. Jankowski, Jr., P.E.

ELJ/cmb

cc: Jack Reed
Jane Stark
Glenn Hansen



PERMIT TO CONSTRUCT

New

Permit No. 78-453

Renewal

Modified

South Haystack Reservoir No. 9

(Name of Facility)

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

Cumberland Coal Company

1000 Kiewit Plaza

Omaha, Nebraska 68131

to construct, install, or modify a Sediment and Runoff Control

facility according to the procedures and conditions of the application

No. 78-453. The facility is located in Sec. 20, T. 17N,

R. 117W

in the County of Uinta, in the State of Wyoming. This permit

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

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

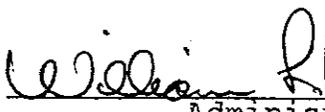
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

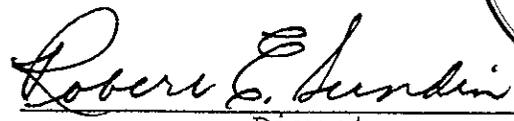
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



WILLIAM L. GARLAND
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Administrator
Water Quality Division
September 19, 1980
Date of Issuance



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

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

FL/kn

PERMIT TO CONSTRUCT

Mailed

9/14/78

- New
- Renewal
- Modified

Permit No. 78-453

SOUTH HAYSTACK RESERVOIR NO. 9

(Name of Facility)

This permit hereby authorizes the applicant:

CUMBERLAND COAL COMPANY
 (Last) (First) (Middle)
1000 KIEWIT PLAZA
 (Street or P.O. Box)
OMAHA NEBRASKA 68131
 (City) (County) (State)

to construct, install, or modify a SEDIMENT & RUNOFF CONTROL
 facility located in SEC. 20 T17N R.117W
 (Legal Description)

in the County of UINTA, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. O'Leary
 Administrator
 Water Quality Division

Robert E. Sardin
 Director
 Wyoming Dept. of Environmental Quality

September 13, 1978
 Date of Issuance

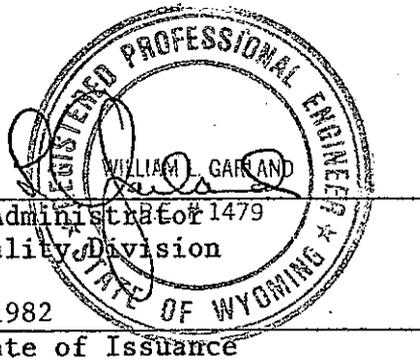
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

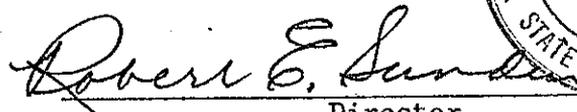
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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AUTHORIZED BY:



Administrator #1479
Water Quality Division
October 7, 1982
Date of Issuance



Director
Dept. of Environmental Quality

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

AJB:ch

PERMIT TO CONSTRUCT

New

Permit No. 78-454

Renewal

Modified

SOUTH HAYSTACK RESERVOIR NO. 10

(Name of Facility)

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

CUMBERLAND COAL COMPANY

1000 KLEWIT PLAZA

OMAHA, NEBRASKA 68131

to construct, install, or modify a SEDIMENT & RUNOFF CONTROL

facility according to the procedures and conditions of the application

No. 78-454. The facility is located in SEC. 3, T16N, R118W

in the County of UINTA, in the State of Wyoming. This permit shall be effective for a period of 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.

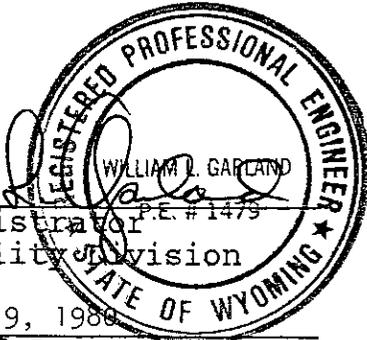
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

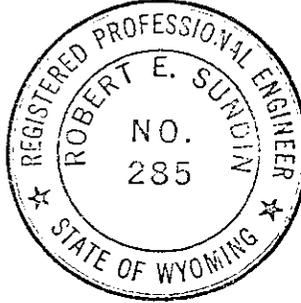
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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
September 19, 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.

FL/1h

mailed
9/14/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-454

SOUTH HAYSTACK RESERVOIR NO. 1G

(Name of Facility)

This permit hereby authorizes the applicant:

CUMBERLAND	COAL	COMPANY
(Last)	(First)	(Middle)
1000 KIEWIT PLAZA		
(Street or P.O. Box)		
OMAHA	NEBRASKA	68131
(City)	(County)	(State)

to construct, install, or modify a SEDIMENT & RUNOFF CONTROL
 facility located in SEC. 3 T16N R118W
 (Legal Description)

in the County of UINTA, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Ojala
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

September 13, 1978
 Date of Issuance

PERMIT TO CONSTRUCT

New

Permit No. 78-455

Renewal

Modified

South Haystack Reservoir No. 11

(Name of Facility)

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

Cumberland Coal Company

1000 Kiewit Plaza

Omaha, Nebraska 68131

to construct, install, or modify a Sediment and Runoff Control

facility according to the procedures and conditions of the application

No. 78-455. The facility is located in Sec. 31, T. 17N,

R. 117W

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.

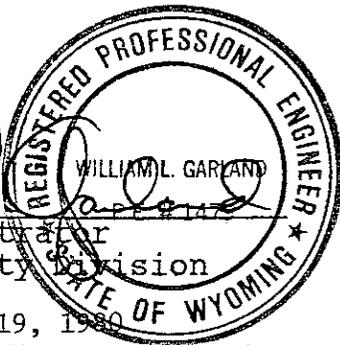
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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:


William L. Garland
Administrator
Water Quality Division
September 19, 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.

FL/kn

PERMIT TO CONSTRUCT

mailed
9/14/78

- New
- Renewal
- Modified

Permit No. 78-455

SOUTH HAYSTACK RESERVOIR NO. 11

(Name of Facility)

This permit hereby authorizes the applicant:

CUMBERLAND COAL COMPANY

 (Last) (First) (Middle)
1000 KIEWIT PLAZA

 (Street or P.O. Box)
OMAHA NEBRASKA 68131

 (City) (County) (State)

to construct, install, or modify a SEDIMENT & RUNNOFF CONTROL
 facility located in SEC. 31 T17N R117W

 (Legal Description)

in the County of UINTA, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Garland
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

September 13, 1978
 Date of Issuance

PERMIT TO CONSTRUCT

New

Permit No. 78-456

Renewal

Modified

SOUTH HAYSTACK RESERVOIR No. 12
(Name of Facility)

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

CUMBERLAND COAL COMPANY

1000 KIEWIT PLAZA

OMAHA, NEBRASKA 68131

to construct, install, or modify a SEDIMENT & RUNOFF CONTROL

facility according to the procedures and conditions of the application
No. 78-456. The facility is located in Sec. 6, T16N, R117W

in the County of UINTA, in the State of Wyoming. This permit
shall be effective for a period of 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.

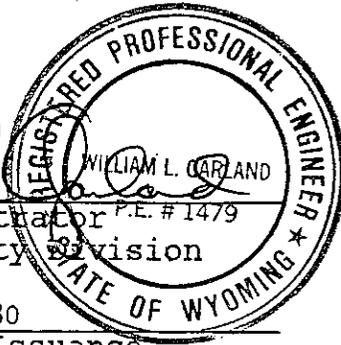
The authority to construct granted by this permit does not mean or
imply that the Wyoming Department of Environmental Quality guarantees
or insures that the permitted facility, when constructed, will meet
applicable discharge permit conditions or other effluent or oper-
ational requirements.

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.

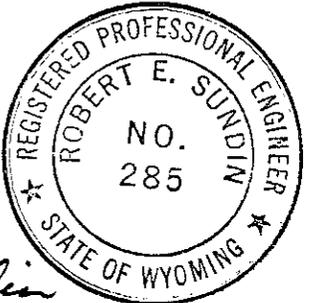
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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. Carland

Administrator P.E. # 1479
Water Quality Division


Robert E. Sundin

Director
Dept. of Environmental Quality

September 19, 1980
Date of Issuance

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

EL/lh

Mailed
9/14/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-456

SOUTH HAYSTACK RESERVOIR No. 12

(Name of Facility)

This permit hereby authorizes the applicant:

CUMBERLAND COAL COMPANY

(Last)	(First)	(Middle)
<u>1000 KIEWIT PLAZA</u>		
(Street or P.O. Box)		
<u>OMAHA</u>		<u>NEBRASKA 68131</u>
(City)	(County)	(State)

to construct, install, or modify a SEDIMENT & RUNOFF CONTROL
 facility located in SEC6 T16N R117W
 (Legal Description)

in the County of UINTA, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. O'Connell
 Administrator
 Water Quality Division

Robert E. Scudina
 Director
 Wyoming Dept. of Environmental Quality

September 13, 1978
 Date of Issuance

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

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

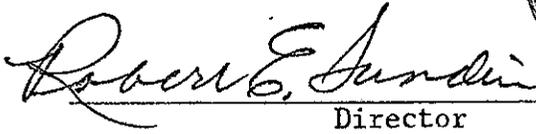
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



WILLIAM C. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING



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

October 7, 1982

Date of Issuance

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

AJB:ch

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-457

South Haystack Reservoir No. 13

(Name of Facility)

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

Cumberland Coal Company

1000 Kiewit Plaza

Omaha, Nebraska 68131

to construct, install, or modify a Diversion Structure

facility according to the procedures and conditions of the application

No. 78-457. The facility is located in Sec. 19, T. 17N,

R. 117W

in the County of Uinta, in the State of Wyoming. This permit

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

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

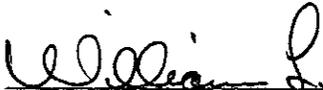
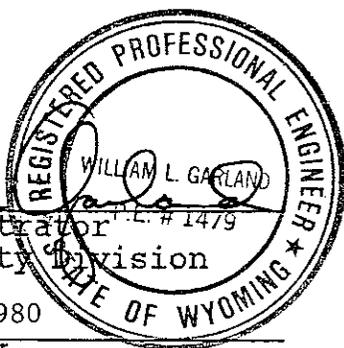
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

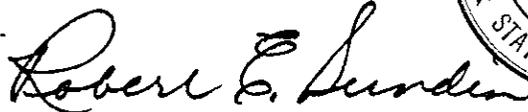
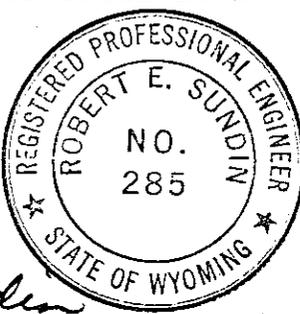
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division
September 19, 1980
Date of Issuance



Director
Dept. of Environmental Quality

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

FL/kn

Mailed
9/14/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-457

SOUTH HAYSTACK RESERVOIR NO. 13

(Name of Facility)

This permit hereby authorizes the applicant:

CUMBERLAND	COAL	COMPANY
(Last)	(First)	(Middle)
1000	KIEWIT PLAZA	
(Street or P.O. Box)		
OMAHA		NEBRASKA 68131
(City)	(County)	(State)

to construct, install, or modify a DIVERSION STRUCTURE
 facility located in SEC. 19 T 17N R117W
 (Legal Description)

in the County of UINTA, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Galarza
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

September 13, 1978
 Date of Issuance

PERMIT TO CONSTRUCT

mailed
11/2/78

- New
- Renewal
- Modified

Permit No. 78-458R

Big Sky Estates
(Name of Facility)

This permit hereby authorizes the applicant:

Chism Homes
(Last) (First) (Middle)

P. O. Box 867
(Street or P.O. Box)

Cheyenne Laramie Wyoming 82001
(City) (County) (State)

to construct, install, or modify a Water & Sewer Lines
facility located in Section 7, T13N, R66W
(Legal Description)

in the County of Laramie, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. ...
Administrator
Water Quality Division

Director
Wyoming Dept. of Environmental Quality

October 12, 1978
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: Big Sky Estates
Chisolm Homes, Cheyenne, WY Laramie Co., 82001

ARCHITECT OR ENGINEER: BRW/Noblitt

WATER QUALITY DIVISION REFERENCE NUMBER: 78-458

REVIEWING ENGINEER: Thomas F. Hamm

DATE OF REVIEW: 8/9/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Specifications for water lines must be to AWWA specs.
2. Thrust blocking requirements must be delineated (para 8.5.4 10 States)
3. Require a statement relative to the minimum 10 feet horizontal water-sewer line separation.
4. Specify maximum ^{leakage} allowed for pipe.
5. Exfiltration tests also required on pipe and manholes.
6. Lamp test and ball or mandrel test all sewer lines.
7. Lay asbestos - cement pipe to AWWA C401 and cast iron to AWWA C600.
8. Gauges for pressure tests must be calibrated within 90 days of test.
9. See 23060.6 Delineate allowable leakage.
10. Recommended delineation of disinfection procedures or insure the contractor has a current copy of AWWA C601.
11. Standard drawing ^Db-10, for thrust blocking delineate amount of concrete for each application by pipe diameter.

This may not be construed as a final review. Questions and/or clarifications should be directed to Tom Hamm, 777-7781.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-459

Arch Mineral Safety Training Facility
(Name of Facility)

This permit hereby authorizes the applicant:

Arch Mineral Corp.
(Last) (First) (Middle)
P.O. Box 530
(Street or P.O. Box)
Hanna Carbon Wyoming 82327
(City) (County) (State)

to construct, install, or modify a small waste facility
facility located in Sec. 8, T22N, R81W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of _____ years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 20, 1978

Date of Issuance

mailed
11/14/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-461R

Septic System for Well field Bldg.

(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming Mineral Corp. ATTN: An Jochens
 (Last) (First) (Middle)

3900 South Wadsworth Boulevard
 (Street or P.O. Box)

Lakewood CO 80235
 (City) (County) (State)

to construct, install, or modify a Wastewater Treatment
 facility located in Section 9, T45, R77
 (Legal Description)

in the County of Johnson, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Galand
 Administrator
 Water Quality Division

Robert E. Lunden
 Director
 Wyoming Dept. of Environmental Quality

October 27, 1978
 Date of Issuance

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Septic system for well field building

ARCHITECT OR ENGINEER: C.K. Wolz

Wolz & Associates
Room 208, Midwest Bldg.
Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 78-461 Ref. 77-48R

REVIEWING ENGINEER: Dan H. Kim, Jake Strohmman, P.E.

DATE OF REVIEW: September 6, 1978

ACTION: Not authorized for construction

COMMENTS:

1. Please indicate the SDR of the 6" PVC outfall line. The pipe should meet the requirements of ASTM D3033 or 3034.
2. Provide the bedding and backfilling specifications.
3. The sewer line should be tested for exfiltration and alignment provide details.

cc: Ann E. Jochens
Wyoming Mineral Corporation
39005 Wadsworth Blvd.
Lakewood, Colorado 80235

To Sheridan

11/15/78

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-462RR

5th STREET and GOOSE CREEK
(Name of Facility)

This permit hereby authorizes the applicant:

McStain Enterprises, Inc.
(Last) (First) (Middle)
4800 Riverbend Road
(Street or P.O. Box)
Boulder, CO 80301
(City) (County) (State)

to construct, install, or modify a sewage collection and water distribution
facility located in Section 22, T.56N., R.84W.
(Legal Description)

in the County of Sheridan, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Paul
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

Date of Issuance

cc: Cliff Sanders, City Engineer

REVIEW OF PLANS AND SPECIFICATIONS

mailed -
9/20/78

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: West 5th Street Water & Sewer Line - Sheridan WY

ARCHITECT OR ENGINEER: Thomas Hoyt, 4800 Riverbend Road
Boulder, CO

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-410~~ 78-462

REVIEWING ENGINEER: Dan H. Kim, Jake Strohmman, P.E.

DATE OF REVIEW: 8/28/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A letter form the City of Sheridan should be provided indicating that that City can provide adequate water and sewer services to the Mall.
2. 3/4" yard hydrant at the dead end of 6" water main is not acceptable. Either an AWWA approved fire hydrant or a flushing hydrant no less than 2" in size should be provided at the cul-de-sac.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-463R

Valley View Addition Phase I
(Name of Facility)

This permit hereby authorizes the applicant:

Welton Construction Co.
(Last) (First) (Middle)
P.O. Box 128
(Street or P.O. Box)
Saratoga Carbon Wyoming 82331
(City) (County) (State)

to construct, install, or modify a water and sewer lines
facility located in Sec. 14, T17, R84
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of _____ years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Ojala
Administrator
Water Quality Division

Robert E. Sundie
Director
Wyoming Dept. of Environmental Quality

September 20, 1978
Date of Issuance

Book

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-464R

Buffalo Hills - City of Wright
(Name of Facility)

This permit hereby authorizes the applicant:

A. K. Morley & Sons, Inc
(Last) (First) (Middle)

1063 Santee Drive
(Street or P.O. Box)

Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 27 & 34, T44N, R72W
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Galand
Administrator
Water Quality Division

Robert E. Leland
Director
Wyoming Dept. of Environmental Quality

October 23, 1978

Date of Issuance

cc: Kanti Patel, 310-4J Road, Gillette, WY 82716

Book

REVIEW OF ~~SEWER~~ FACILITY PLANS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002
(307) 777-7781

OWNER/APPLICANT: Buffalo Hills - City of Wright (Latigo Hills Subdivision Filing No. 1)

ADDRESS: Kanti R. Patel
310-4J Road
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-464

REVIEWING ENGINEER: Dan H. Kim, Jake Strohmman, P.E.

DATE OF REVIEW: Sept. 5, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) The following specifications should be provided:
 - a) specifications concerning pipe installation including handling and laying the pipe, relieving the bells, etc.
 - b) Type & material of fittings & joints
 - c) Trench excavations
 - d) Details of backfilling procedure including type & size of material
 - e) procedures of sewer line teste (i.e. exfiltration & alignment)
 - f) Details of water line hydrostatic tests, etc.
 - 2) Are sufficient water valves provided?

It appears that about a half of the total subdivision will be out of service, should a line or either InYan Drive or Cattle Drive break.
 - 3) Wright Water & Sewer District requires a minimum of 5½' cover on the water main, whereas your plans call for 5 feet cover. Please clarify.
 - 4) PVC sewer pipe shall meet the requirements of ASTM 3033 or 3034.
 - 5) The maximum vertical deflection allowed should not exceed 5% of the pipes internal diameter. This test may be accomplished by pulling a madrel through the pipe (i.e. Go-No-Go deflection gauge).

ALL REPLIES SHOULD BE DIRECTED TO DAN H. KIM REF. NO. 78-464

mailed
10/23/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-466

Mon-L Enterprises, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Leal</u> (Last)	<u>Les</u> (First)	<u></u> (Middle)
<u>P. O. Box 1057</u> (Street or P.O. Box)		
<u>Wheatland</u> (City)	<u>Platte</u> (County)	<u>Wyoming 82201</u> (State)

to construct, install, or modify a Wastewater
facility located in 5 miles west of Douglas on I-25
(Legal Description)

in the County of Converse, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

Roger E. Gordon
Director
Wyoming Dept. of Environmental Quality

September 27, 1978
Date of Issuance

PERMIT TO CONSTRUCT

Mailed
9/27/78

- New
- Renewal
- Modified

Permit No. 78-468

South Washington Extensions
(Name of Facility)

This permit hereby authorizes the applicant:

City of Casper
(Last) (First) (Middle)

200 North David
(Street or P.O. Box)

Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Water & Sewer Lines
facility located in City of Casper
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Lurdin
Director
Wyoming Dept. of Environmental Quality

September 12, 1978
Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-469R

Wyodak Septic System
(Name of Facility)

This permit hereby authorizes the applicant:

Wyodak Resources Development Corporation
 (Last) (First) (Middle)

Garner Lake Route
 (Street or P.O. Box)

Gillette Campbell Wyoming
 (City) (County) (State)

to construct, install, or modify a wastewater treatment
 facility located in Sec. 28 T72 R50
 (Legal Description)

in the County of Campbell, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Janda
 Administrator
 Water Quality Division

Robert E. Dundin
 Director
 Wyoming Dept. of Environmental Quality

September 20, 1978
 Date of Issuance

cc: Robert Timm
 Timm & Associates, P.O. Box 726, Gillette, Wyo. 82716

PERMIT TO CONSTRUCT

10-11-78

- New
- Renewal
- Modified

Permit No. 78-472

Alcova Acres Water Lines

(Name of Facility)

This permit hereby authorizes the applicant:

Alcova Acres Investments, Inc.

(Last)	(First)	(Middle)
5017 Alcorn Route, Box 6.		
(Street or P.O. Box)		
Casper,	Natrona,	Wyoming 82601
(City)	(County)	(State)

to construct, install, or modify a water lines
facility located in Section 26, T33, R80
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Galand
Administrator
Water Quality Division

Robert E. Surden
Director
Wyoming Dept. of Environmental Quality

September 26, 1978
Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-473

Brooks Water Plant Intake
(Name of Facility)

This permit hereby authorizes the applicant:

Brooks Water and Sewer District
(Last) (First) (Middle)
P.O. Box 2080
(Street or P.O. Box)
Mills Natrona Wyoming
(City) (County) (State)

to construct, install, or modify a water intake
facility located in Section 14, T33N, R80W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Jones
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 20, 1978
Date of Issuance

SEND SECOND SET OF PLANS!

Mailed -
10/3/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-474

Painted Hills Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

J. A. and J. R. Zwierzycki
 (Last) (First) (Middle)

Key Motel Inc., 1806 Cedar
 (Street or P.O. Box)

Rawlins Carbon Wyoming 82301
 (City) (County) (State)

to construct, install, or modify a sewage and water lines
 facility located in Sec. 9, T21N, R87W
 (Legal Description)

in the County of Carbon, in the State of
 Wyoming. This permit shall be effective for a period of _____ years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Garland
 Administrator
 Water Quality Division

Robert E. Saurdin
 Director
 Wyoming Dept. of Environmental Quality

September 20, 1978
 Date of Issuance

mailed
11/28/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-475R

Multi-Family Units on Blk 13, Lot 4-14 - City of Wright
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Stovall</u>	<u>Douglas</u>	<u>Gingery Assoc., Inc.</u>
(Last)	(First)	(Middle)
<u>2840 South Vallejo Street</u>		
(Street or P.O. Box)		
<u>Englewood</u>	<u>CO</u>	<u>80110</u>
(City)	(County)	(State)

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 27, T44, R72
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Galan
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

November 16, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Multi-Family Units on Block 4, Lot 13 - Water & Sewer Extension
Latigo Hills Filing No. 1, Wright, Wyoming

ARCHITECT OR ENGINEER: Douglas Stovall, Gingery Associates, Inc., 2840 South
Vallejo Street, Englewood, Colorado 80110

WATER QUALITY DIVISION REFERENCE NUMBER: 78-475

REVIEWING ENGINEER: Dan H. Kim, Jake Strohman, P.E.

DATE OF REVIEW: September 7, 1978

ACTION: Not authorized for construction.

COMMENTS:

1. A letter from the Wright Water & Sewer District should be provided, stating that the District can provide adequate water and sewer services to the lot.
2. Location map is needed.
3. Please submit the design calculations including water demand per building and total lot, adequacy of 2" line for the service of the lot (Hardy Cross or equivalent), maximum and minimum pressure in the line, etc.
4. There should be another water line connection with valves provided between 12" existing water main and the 2" looping line to prevent entire lot from being out of service, should the proposed 3" line break.
5. Provide profiles of all the sewer lines.
6. Backfilling specifications should include degree of compaction. What is densely compacted backfill?
7. Specification concerning water/sewer crossings must be provided. This specification shall meet the requirements of Chapter III, Wyoming Water Quality Rules & Regulations.
8. Commercial specifications do not generally come up to the AWWA specifications. The proper plastic water pipe installation specification is Uni-Bell UNI-B-3-77.
9. Please indicate a means of alignment testing for sewer lines.
10. The maximum vertical deflection allowed should not exceed 5% of the pipes internal diameter (i.e., Go-No-Go deflection gauge) --- recommendation only.

cc: Frank L. Novak, Housing Services, Inc., 1600 Security Life Bldg., Denver, CO 80202

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-476
 Ref 76-369RRRR

Sunburst Water and Sewer Improvements
 (Name of Facility)

This permit hereby authorizes the applicant:

<u>Sunburst Water and Sewer District</u>	<u>Attn: Mrs. Frances Hoadley</u>
(Last)	(First) (Middle)
<u>P. O. Box 150</u>	
	(Street or P.O. Box)
<u>Gillette</u>	<u>Campbell Wyoming 82716</u>
(City)	(County) (State)

to construct, install, or modify a sewer collection line
 facility located in Section 2 & 3, T49N, R72W
 (Legal Description)

in the County of Campbell, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Galar
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

September 20, 1978
 Date of Issuance

cc: Gordon Fluke, Hoskins-Western-Sonderegger, P. O. Box 2020, Gillette, WY 82716

PERMIT TO CONSTRUCT

*Mailed -
9/26/78*

- New
- Renewal
- Modified

Permit No. 78-478

Alternate II - Parcel B, Block 1, Foothills PUD Phase 3A
(Name of Facility)

This permit hereby authorizes the applicant:

Holmes	Gary	A.
(Last)	(First)	(Middle)
c/o Albertson & Associates 6 Park Circle		
(Street or P.O. Box)		
Gillette	Campbell	Wyoming 82716
(City)	(County)	(State)

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 30, T50N, R72W
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Sinsin
Director
Wyoming Dept. of Environmental Quality

September 13, 1978
Date of Issuance

PERMIT TO CONSTRUCT

Mailed

New

Renewal

Modified

Permit No. 78-479R

10/23/78

JEFFREY CITY, WYOMING - 56 UNIT MOBILE HOME COURT

(Name of Facility)

This permit hereby authorizes the applicant:

WESTERN NUCLEAR c/o DICK FAIRSERVIS
(Last) (First) (Middle)

P.O. BOX 630
(Street or P.O. Box)

JEFFREY CITY, WYO. 82310
(City) (State) (Zip Code)

to construct, install, or modify a WATER DISTRIBUTION & SEWAGE COLLECTION
facility located in SEC 15 T29N R92W
(Legal-Description)

in the County of FREMONT, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Quinn
Administrator
Water Quality Division

Robert E. ...
Director
Department of Environmental
Quality

OCTOBER 17, 1978
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-481R

Wind River Ranch Sewerage and Lagoon Facility
(Name of Facility)

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

Arthur M. Davenport and Arthur A. Davenport
PO Box 278
Dubois, WY 82513

to construct, install, or modify a _____
sewage and lagoon

_____ facility according to the procedures and conditions of the
application No. 78-481R. The facility is located in _____

Sec. 2, T42N, R109W

_____ in the County of Fremont,

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

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

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

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

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

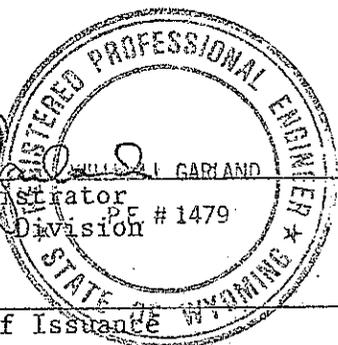
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

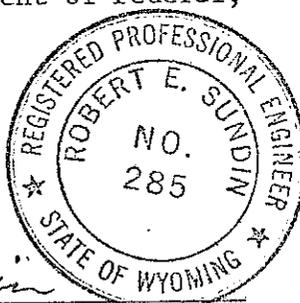
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division # 1479
April 26, 1982
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Elmo G. Peterson, P.E.
Wind River Engineers
2333 Rose Lane
Riverton, WY 82501

M to L
12-10-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-481R

Wind River Ranch Sewerage and Lagoon Facility
(Name of Facility)

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

Arthur M. Davenport and Arthur P. Davenport

P.O. Box 278

Dubois, WY 82513

to construct, install, or modify a sewerage and lagoon facility according to the procedures and conditions of the application No. 78-481R. The facility is located in Section 2, T42N, R109W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

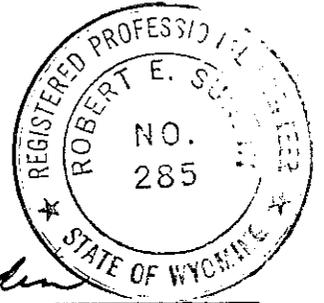
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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.

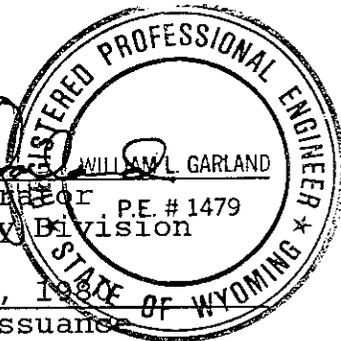
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
Administ~~er~~or P.E. # 1479
Water Quality Division
December 2, 1980
Date of Issuance



Robert E. Sunden
Director
Dept. of Environmental Quality

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

cc: Elmo G. Peterson, P.E.
Wind River Engineers
2333 Rose Lane
Riverton, WY 82501



Department of Environmental Quality
Water Quality Division.

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 10, 1980

Arthur M. and Arthur A. Davenport
Wind River Ranch
P.O. Box 278
Dubois, WY 82513

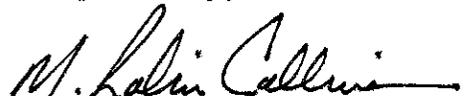
RE: Extension Permit
No. 78-481R - Wind River
Ranch Sewage Lagoon

Gentlemen:

In refernece to Mr. Elmo G. Peterson's correspondence of November 6, 1980, this letter is to serve as our approval to a one year time extension for the "Permit to Construct" issued for the Wind River Ranch Sewage Lagoon on November 8, 1980.

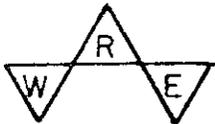
If further information is required, please do not hesitate to contact us.

Respectfully,


M. Robin Collins, P.E.
Northwest District Engineer

MRC/yh

cc: Elmo G. Peterson, Wind River Engineers
DEQ/WQD - Cheyenne ✓



WIND RIVER ENGINEERS

(307) 856-2221 2333 ROSE LANE RIVERTON, WY 82501



November 6, 1980

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

Proj. No: 7815
Project: Wind River Ranch Sewage
Lagoon
D.E.Q. Permit No. 78-481R

Gentlemen:

A permit to construct sewer lines and lagoons was issued to Arthur M. and Arthur A. Davenport, Wind River Ranch, P.O. Box 278, Dubois, Wyoming 82513 on November 8, 1978. The work of constructing lagoon embankments was delayed because of economic conditions, but is planned to be completed next summer. Work was started in September, 1980 on lagoon construction.

The Owner requests a one year extension of the Permit to Construct. A copy of the Permit to Construct is enclosed. The motel facilities which were to discharge into the lagoons have not been built and are planned to be started next year.

Very truly yours,

Elmo G. Peterson, P.E.

cc: Mac Davenport

Encl:

- New
- Renewal
- Modified

Permit No. 78-481R

WIND RIVER RANCH SEWERAGE AND LAGOON FACILITY

(Name of Facility)

EGH ✓
DRF ✓
PER ✓

This permit hereby authorizes the applicant:

DAVENPORT	ARTHUR	M.	AND
DAVENPORT	ARTHUR	A.	
(Last)	(First)	(Middle)	

P.O. BOX 278

(Street or P.O. Box)

DUBOIS

WYO.

82513

(City)

(State)

(Zip Code)

to construct, install, or modify a SEWERAGE AND LAGOON

facility located in SEC. 2 T42N R109W
(Legal Description)

in the County of FREMONT, in the State of Wyoming.

This permit shall be effective for a period of 2 years from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Department of Environmental
Quality

NOVEMBER 8, 1978.

Date of Issuance

Wind River Engineers
~~205 1507~~

2333 Rose Lane

Reverton Wyo 82501



COPY FILE
7815

WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 78-483RR

TOWN OF SHOSHONI SEWERAGE SYSTEM
(Name of Facility)

This permit hereby authorizes the applicant:

TOWN OF SHOSHONI
(Last) (First) (Middle)

207 WYOMING ST.
(Street or P.O. Box)

SHOSHONI WYO. 82649
(City) (State) (Zip Code)

to construct, install, or modify a SEWAGE
facility located in SEC27, 28 T38N R94W
(Legal Description)

in the County of FREMONT, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

[Signature]
Director
Department of Environmental
Quality

OCTOBER 5, 1978
Date of Issuance

DEQ

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: TOWN OF SHOSHONI

ARCHITECT OR ENGINEER: WIND RIVER ENGINEERS
2333 Rose Lane, Riverton, Wyo. 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-483R

REVIEWING ENGINEER: RICK ENGELMANN, ROY E. PRIOR, P.E.

R.E. *Roy E. Prior*

DATE OF REVIEW: SEPTEMBER 26, 1978.

ACTION: NOT AUTHORIZED.

COMMENTS:

1. Please provide a specification for testing of flexible pipe ovalation. Such a test employs a pig or a "go-no go" gauge.
2. All wyes installed should be single piece.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

Book
mailed
10/21/78

- New
- Renewal
- Modified

Permit No. 78-484R
~~78-484R~~

MONSANTO OIL COMPANY
(Name of Facility)

This permit hereby authorizes the applicant:

RUSSELL CONSTRUCTION

(Last) (First) (Middle)

BOX 319

(Street or P.O. Box)

DOUGLAS

WYOMING

82633

(City)

(State)

(Zip Code)

to construct, install, or modify a COMMERCIAL SEPTIC DRAIN FIELD

facility located in Sec. 18 T30 N R90W

(Legal Description)

in the County of FREMONT, in the State of Wyoming.

This permit shall be effective for a period of 2 years from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gault
Administrator
Water Quality Division

Robert E. Lundin
Director
Department of Environmental
Quality

SEPTEMBER 27, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-485R

UNION OIL CO. - PLANT SANITARY SEWER FACILITIES

(Name of Facility)

This permit hereby authorizes the applicant:

MINERALS EXPLORATION COMPANY

(Last) (First) (Middle)

P.O. BOX 1500

(Street or P.O. Box)

RAWLINS

WYOMING

82301

(City)

(State)

(Zip Code)

to construct, install or modify a SEWAGE COLLECTION

facility located in SEC 15 T24N R93W
(Legal-Description)

in the County of SWEETWATER, in the State of Wyoming.

This permit shall be effective for a period of 2 years from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

[Signature]

Administrator
Water Quality Division

[Signature]

Director
Department of Environmental
Quality

OCTOBER 23, 1978
Date of Issuance

WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

file

New

Renewal

Permit No. 78-486

Modified

CENTURY EQUIPMENT WASTE FACILITY
(Name of Facility)

This permit hereby authorizes the applicant:

CENTURY EQUIPMENT
(Last) (First) (Middle)

P.O. BOX 7525

(Street or P.O. Box)

SALT LAKE CITY

UTAH

84119

(City)

(State)

(Zip Code)

to construct, install, or modify a SEPTIC TANK LEACH FIELD

facility located in SEC. 4 T18N R105W

(Legal Description)

in the County of SWEETWATER, in the State of Wyoming.

This permit shall be effective for a period of 2 years from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Garland

Administrator
Water Quality Division

BY Doug King

Director
Department of Environmental
Quality

SEPTEMBER 19, 1978.

Date of Issuance

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

*mailed
top.
2/14/79*

- New
- Renewal
- Modified

Permit No. 78-489RRRR

DEAVER WATER TREATMENT PLANT
(Name of Facility)

This permit hereby authorizes the applicant:

TOWN OF DEAVER

(Last) (First) (Middle)

P.O. BOX 207

(Street or P.O. Box)

DEAVER

WYO.

82421

(City)

(State)

(Zip Code)

to construct, install, or modify a WATER TREATMENT
facility located in SEC.25 T57N R98W
(Legal Description)

in the County of PARK, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Department of Environmental
Quality

FEBRUARY 6, 1979.
Date of Issuance

C.C. DON ARMSTRONG
TUDOR ENGINEERS
450 S. FEDERAL BLVD.
RIVERTON, WYO. 82501

C.C. BILL GARLAND

*Department of Environmental Quality**Water Quality Division*

3144

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-~~XXXX~~

February 6, 1979.

Town of Deaver
P.O. Box 207,
Deaver, Wyoming, 82421.

Gentlemen:

Enclosed is the permit to construct for the water treatment plant.

During our review of the plans we raised some objection to the bypass line around the filters. Although we realize that there will be provision for chlorinating by-passed water, we would like to stress that by-passing should be used only during emergencies. Unless the raw water is very clear, putting unfiltered water into the distribution system may silt up some of the lines and require line flushing for clean-up. It should also be noted that turbid water does not disinfect as well as filtered water - a much higher chlorine dose may be required.

Sincerely,

Handwritten signature of Roy E. Prior in cursive.

Roy E. Prior, P.E.
DISTRICT ENGINEER

Handwritten signature of Rick Engelmann in cursive.

Rick Engelmann,
ENVIRONMENTAL ENGINEER.

c.c. Pat Crotty, U.S. E.P.A.,
1860 Lincoln, Denver, Colorado 80295.

RE/jky

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: DEAVER WATER TREATMENT PLANT

OWNER: TOWN OF DEAVER, P.O. BOX 207, DEAVER, WYO. 82421

ARCHITECT OR ENGINEER: RICHARD ORTON
c/o DON ARMSTRONG

TUDOR ENGINEERING
450 SOUTH FED. BLVD
RIVERTON, WYO. 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-489RR

REVIEWING ENGINEER: RICK ENGELMANN *RE* ROY E. PRIOR, P.E. *RP*

DATE OF REVIEW: JANUARY 4, 1978

ACTION: NOT AUTHORIZED

COMMENTS:

1. In your review reply of 7 November, 1978, it was indicated that the filter effluent valves were "modulating valves". The review reply of 21 Dec., 1978 states that these valves are controlled ("actuated") by the level control in the storage reservoir.

Unless there has been a misunderstanding over what you are proposing, we do not see how throttling valves controlled by the level in the storage tanks can maintain the correct water level in the filter boxes. Furthermore, we can find nothing in the specifications dealing with the system for controlling the effluent valves.

2. We will not permit jetting or water settling unless the specifications for acceptable soils are spelled out in the specifications. If you choose not to enumerate soil types, then the criteria that the engineer would use for judging acceptability must be spelled out.

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: TOWN OF DEAVER - WATER TREATMENT FACILITY

ENGINEER: RICHARD E. ORTON, JR.,
c/o JOHN BARNES
450 S. FEDERAL BLVD.
RIVERTON, WYO. 82501

OWNER: TOWN OF DEAVER
P.O. BOX 207
DEAVER, WYO. 82421

WATER QUALITY DIVISION REFERENCE NUMBER: 78-489R

REVIEWING ENGINEER: RICK ENGELMANN *RE*

DATE OF REVIEW: DECEMBER 6, 1978

ACTION: NOT AUTHORIZED.

COMMENTS:

Number in parantheses refer to numbered items in your reply of 11/7/78.

- 1) (2) I can see your point in the argument. However, the basis for comparison confuses me. How can one compare the costs unless costs for both methods are converted to present worth or annualized costs?
- 2) (5) I am hoping that this statement means that at least a very small amount of lab work was done to test the effectiveness of alum coagulation. Even minimal jar testing can greatly increase the certainty that the proposed treatment scheme will work. I assume that the 25 mg/l ball park alum dose used in statement (2) was based on this work.
- 3) (7a) Leopold and Wheeler type bottoms are adequate. However, we will not approve an "approved equal."

(7b) It seems that there will be very little water (head) above the filter media during filtration, no more than about 1.7 feet. Has a headloss/pressure drop estimation through clean and dirty media been made? The reason I am asking this question is that it has been reported that air binding in filter media has been a problem in some package filtration units.

(7c) Standard practice is to initiate surface wash some minutes before back-washing starts. However, I understand that sometimes it has been found desirable to expand the anthrocite bed above the surface wash arms before surface washing is started. Is this the intent here?

- 4) (10) I did not see anything in new spec. 6.3.6 about AWWA B-100.
- 5) (12) From the wording of this statement, it appears that it is intended to put non-potable water into the town's water system during fire fighting situations. Under no circumstances will we authorize a system that has this capability. The logistics of safely disinfecting the water system after such use is not practical.
- 6) (13) We believe that the facility to bypass the first portion of a filter run is a good idea. We have been pushing this in recent construction, due to the recently recognized problems with giardia lamblia cysts.

The design of the filter to waste system does appear to have a problem. In looking at the elevations of the washwater ponds and filter effluent/backwash header pipe, the size of piping, and the relatively low flow rate (150 gpm), it appears very possible that air can enter the filter effluent header from the wash water drain line during the filter to waste period. When the filter to waste valve is shut, this air will be trapped. Is it possible for this air to cause trouble with the effluent controllers, etc?

- 7) (16) We do not permit discharge structures to be built unless a discharge permit is obtained. In lieu of the permit, it would be best to eliminate the drainage swales. If the washwater ponds get into trouble, something can be arranged quickly with our permits section in Cheyenne. The ponds could then be drawn down by pumping, siphoning, etc.
- 8) (20) How are the filter effluent valves controlled? Level in the filters, or what?
- 9) (28) What criteria would the engineer use to judge the acceptability of soil for jetting? In addition, has an engineer been retained for inspection of the construction?
- 10) (29) I am not concerned about the pipe through the insulation, but with the vertical length of pipe immediately below it. How deep does frost penetrate in Deaver during a severe winter?
- 11) Due to the number of comments this cannot be considered a final review.

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: TOWN OF DEAVER - WATER TREATMENT FACILITY.

ARCHITECT OR ENGINEER: JERALD B. CREWS
450 S. FEDERAL BLVD.
RIVERTON, WYO. 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-489

REVIEWING ENGINEER: RICK ENGELMANN, ROY E. PRIOR, P.E. *R. E. Prior*

DATE OF REVIEW: SEPTEMBER 27, 1978.

ACTION: NOT AUTHORIZED

COMMENTS:

1. Please provide some details on the Deaver Reservoir inlet structure.
2. The alum should be flash mixed into the raw water stream. Adding it as you have planned will result in high alum use.
3. What is the purpose of the $KMnO_4$? Taste and odor control?
4. Why is soda ash being added? To boost alkalinity of the water?
5. Why were the various chemicals chosen? As a result of jar test work, or what?
6. Returned backwash water should be returned to a point before coagulant addition, not after as you have shown.
7. We will need details on the package filter units. These details include such items as:
 - a. manufacturer's drawings.
 - b. description of how filtration is controlled, automatically or manually.
 - c. description of how backwashing is controlled, including length of backwash, etc.
8. @ 150 gpm, flow through the 4" filter header pipe is high, approx. 3.8 fps. This could disrupt floc particles. 2 fps or less is std. practice.
9. The medium and coarse sand you have specified for the filters is this intended to be part of the media support? If so, it doesn't match the gravel size too well. Furthermore, if you're using Leopold bottoms, I don't see the need for the $1\frac{1}{2}$ " x $\frac{3}{4}$ " gravel layer.

TOWN OF DEEVER - WATER TREATMENT FACILITY
SEPTEMBER 27, 1978.
NOT AUTHORIZED.

COMMENTS cont'd.....

10. Specs should be included for preparation of the filter media for actual filtration. See AWWA B-100.
11. Are you providing a means to sample filter influent?
12. Why are you maintaining the option to completely bypass the filters?
13. What is the intended function of the butterfly valve which connects the washwater waste line with the filter effluent/backwash header?
14. We would like to see the addition of another check valve in the backwash line (near the backwash flow meter, for example), to give the reservoirs double protection.
15. Why are you drawing off water from the washwater ponds @ elev. 4290? As the ponds fill with solids, won't you be drawing solids from the bottom?
16. What is the purpose of the drainage swales in the washwater dikes? Are you planning to discharge?

HYDRAULICS:

17. We need a hydraulic profile of the plant.
18. When the reservoirs are full (treatment plant off), how is flow through the plant stopped? - What valves close?
19. The float valve in the inlet vault-- when the plant is running, will it maintain an essentially steady water level in the basin?
20. How and where is flow through the plant regulated?

CHEMICAL ADDITION:

21. Where are chemicals to be stored? How much chemical can be stored?
22. What safety equipment is being provided for the operator for handling of the coagulant, permanganate, and soda ash?
23. Is there a drain in the chemical area? How would the operator clean up spilled chemical?
24. The chlorine room exhaust fan is it located near the floor? Are the make-up air louvres in the door at the top?
25. The chlorine room light and fan switches should be located outside of the chlorine room entrance.
26. You should have a respirator of thirty minutes capacity rather than a chlorine gas mask. You're liable to run up against OSHA reg.s, if you use the mask.

TOWN OF DEEVER - WATER TREATMENT FACILITY
SEPTEMBER 27, 1978.
NOT AUTHORIZED.

GENERAL

27. Vibratory, weight, or impact equipment is not acceptable in backfilling immediately over pipes. It tends to loosen pipe joints.
28. Jetting is acceptable for only certain types of well drained native material and backfill. Please specify these materials in your spec.s.
29. At your reservoir connection; depending on the time length between back-washes, there may be a chance of the line freezing.
30. If the electric isolation valve failed, would it be possible for backwash water to back flow into the reservoir? We'd like to see a backflow preventer between the isolation valve and the reservoir.

PERMIT TO CONSTRUCT

mailed ref.
9/14/78 L78-13

- New
- Renewal
- Modified

Permit No. 78-490

C.R. ROBERTS GRAVEL PIT

(Name of Facility)

This permit hereby authorizes the applicant:

C.R. ROBERTS AND SONS

(Last)	(First)	(Middle)
BOX 128	(Street or P.O. Box)	
COKEVILLE	LINCOLN	WYOMING
(City)	(County)	(State)
		83114

to construct, install, or modify a SETTLING POND
 facility located in SEC. 4 T20N R109W
 (Legal Description)

in the County of SWEETWATER, in the State of
 Wyoming. This permit shall be effective for a period of 2 years
 from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William F. Galano
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

September 8, 1978

Date of Issuance

PERMIT TO CONSTRUCT

~~78-492R~~ mailed 10/23/78

New

Renewal

Permit No. 78-492R

Modified

WATER IMPROVEMENT PROJECT - TOWN OF COKEVILLE

(Name of Facility)

This permit hereby authorizes the applicant:

TOWN OF COKEVILLE

(Last)

(First)

(Middle)

BOX 29

(Street or P.O. Box)

COKEVILLE

WYOMING

83114

(City)

(State)

(Zip Code)

to construct, install, or modify a WATER COLLECTION - DISTRIBUTION

facility located in SEC. 2 T24N R119W

(Legal Description)

in the County of LINCOLN, in the State of Wyoming.

This permit shall be effective for a period of 2 years from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Garland
Administrator
Water Quality Division

Robert E. Linder
Director
Department of Environmental
Quality

October 16, 1978
Date of Issuance

ENGINEER: UINTA ENGINEERS,
BOX 746
EVANSTON, WYO. 82930

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

*Permit issued
under 78-492R*

PROJECT: WATER IMPROVEMENT PROJECT - TOWN OF COKEVILLE

ARCHITECT OR ENGINEER: UINTA ENGINEERS
BOX 746
EVANSTON, WYO. 82930

WATER QUALITY DIVISION REFERENCE NUMBER: L78-16

REVIEWING ENGINEER: DOUG CRAIG

D.C. Dye & Co. L.C.

DATE OF REVIEW: SEPTEMBER 25, 1978.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide drawings of the disinfection building. Show calculations for a 30 minute contact time at peak flow.
2. Show details of overflow drain structure.
3. Provide details on the interceptor ditch design, i.e., slope, design storm, conditions at discharge point.
4. What type of membrane, if any, are you providing at the interface of the gravel and impermeable top layer in the collector trench?
5. The plans indicate a new 14" main-line water pipe and the spec.s indicate 15" reinforced concrete water pipe. Which is it?
6. Due to the number of comments this cannot be considered a complete review.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

mailed -
9/26/78

- New
- Renewal
- Modified

Permit No. 78-493

LUCKY MC ADDITION #3
(Name of Facility)

This permit hereby authorizes the applicant:

RATHFINDER MINES CORP.
(Last) (First) (Middle)

550 CALIFORNIA ST.
(Street or P.O. Box)

SAN FRANCISCO CALIFORNIA 94104
(City) (State) (Zip Code)

to construct, install, or modify a WATER DISTRIBUTION & SEWAGE COLLECTION
facility located in SEC. 9 T29N R92W
(Legal Description)

in the County of FREMONT, in the State of Wyoming.

This permit shall be effective for a period of 2 years from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Department of Environmental
Quality

SEPTEMBER 12, 1978.
Date of Issuance

C.C. BIG EAGLE MINE, P.O. BOX 450, JEFFREY CITY, WYO. 82310
GINGERY & ASSOCIATES, 1840 S. VALLEJO ST., ENGLEWOOD, COLO 80110

PERMIT TO CONSTRUCT

[Handwritten signature]
10/25/78

New

Renewal

Modified

Permit No. 78-494R

FEDERAL AMERICAN PARTNERS SEWAGE DISPOSAL

(Name of Facility)

This permit hereby authorizes the applicant:

FEDERAL AMERICAN PARTNERS

(Last)

(First)

(Middle)

GAS HILLS STAR RT.

(Street or P.O. Box)

RIVERYON

WYO

82501

(City)

(State)

(Zip Code)

to construct, install, or modify a COMMERCIAL SEPTIC-SEEPAGE BED

facility located in SEC28 T33N R89W

(Legal-Description)

in the County of FREMONT, in the State of Wyoming.

This permit shall be effective for a period of 2 years from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

[Handwritten signature]
Administrator
Water Quality Division

Director
Department of Environmental
Quality

OCTOBER 25, 1978
Date of Issuance

C.C. PAUL STETTNER, TIC CO.,
P.O. BOX 9056, STEAMBOAT SPRINGS, COLO. 80477

REQ

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

*Issued
under
78-494R*

PROJECT: FEDERAL AMERICAN PARTNERS

ARCHITECT OR ENGINEER: PAUL STETTNER, THE INDUSTRIAL COMPANY, P.O. BOX 9056
STEAMBOAT SPRINGS, COLO. 80467

WATER QUALITY DIVISION REFERENCE NUMBER: L78-18

REVIEWING ENGINEER: RICK ENGELMANN, ROY E. PRIOR, P.E. *R.E. Roy E. Prior*

DATE OF REVIEW: SEPTEMBER 27, 1978.

ACTION: NOT AUTHORIZED.

COMMENTS:

1. Please provide specifications on the PVC pipe, pipe installation (including approx. depth of pipe), slopes, etc. In addition, we need specs on the septic tank and seepage pit construction.
2. The seepage beds are insufficiently sized. Using a percolation rate of 48 min/inch, the allowable application rate for a standard leach field is.

$$Q = \frac{5}{48^{\frac{1}{2}}} = .72 \text{ gpd}/(\text{ft}^2 \text{ of trench bottom})$$

Using dept. safety factor of 1.5 for seepage beds, the allowable application rate per ft.² of bed bottom is 0.48 gpd/ft.².

The justification for the 1.5 factor is the fact that most authorities believe that trench walls provide most treatment in subsurface disposal. The 1.5 figure comes from the Uniform Plumbing Code. Utah is even more conservative and uses a 2.0 factor.

3. At the elbow between septic tanks - will you have any solids collecting problems at this point?
4. Please verify in writing that the 6" PVC line will pass through a culvert under the Buss-Russ Haul Rd. In Addition, how will it be installed in the culvert?

Paul:

Rather than wait for your additional info, I ddecided to send out the formal review. This probably contains a few points not brought up when you were in the office last week.

Rick

200

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-496

Panhandle Eastern Pipeline Company-Mobile Home Court
(Name of Facility)

This permit hereby authorizes the applicant:

Panhandle Eastern Pipe Line Company
(Last) (First) (Middle)

P. O. Box 127
(Street or P.O. Box)

Brighton Colorado 80601
(City) (County) (State)

to construct, install, or modify a water distribution and wastewater collation
facility located in Section 34; T20N; R94W
(Legal Description)

in the County of Sweetwater, in the State of
Wyoming. This permit shall be effective for a period of two years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Janda
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 20, 1978

Date of Issuance

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

*Mailed to
London
12/22/78*

New

Renewal

Permit No. 78-498RR

Modified

SEWER & WATER MAINS FOR CEDAR WEST TOWNHOUSES

(Name of Facility)

This permit hereby authorizes the applicant:

HOUTZ CONSTRUCTION

(Last)

(First)

(Middle)

2120 22ND ST.

(Street or P.O. Box)

CODY

WYO

82414

(City)

(State)

(Zip Code)

to construct, install, or modify a SEWER COLLECTION & WATER DISTRIBUTION
facility located in TRACT 79 T53N R101W
(Legal Description)

in the County of PARK, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Paul
Administrator
Water Quality Division

Robert E. Sundin
Director
Department of Environmental
Quality

DECEMBER 12, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: WATER AND SEWER MAINS FOR CEDAR WEST TOWN HOUSES

ENGINEER: GRAHAM, DIETZ & ASSOCIATES, P.O. BOX 348, CODY, WYO. 82414

OWNER: HOUTZ CONSTRUCTION CO.
2120 22ND ST.
CODY, WYO. 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 78-498R

REVIEWING ENGINEER: ROY E. PRIOR, P.E. *Roy E. Prior*

DATE OF REVIEW: NOVEMBER 28, 1978

ACTION: NOT AUTHORIZED.

COMMENTS:

1. You have indicated there will be a valve in the main to isolate the townhouses, where is it located?
2. Your spec.s indicate thrust blocks shall be installed where shown on the plans as directed by the Engineer. Since there are no thrust blocks shown on the plans, will you please advise on how the Engineer will direct and what will be used as a guide? There should have been a statement that indicated the maximum degree of bend that is allowed without blocking, and other applications when blocking should be used. The spec.s should also indicate proper insulation, amount of concrete, minimum soil bearing area, etc. The above could be done by statement, drawing, or both.
3. Your spec.s for unstable sub-grade material is unacceptable. We will, for this project, accept your statement that the problem does not exist. However, if it does exist, you will need to submit a specification for our review before continuing work. The section pertaining to unstable sub-grade should be removed, or an adendum issued indicating it does not apply to this project.
4. The duration of the pressure test for the waterline should be 2 hours. The allowable leakage should be half of what is specified.
5. The chlorine residual should be 25 ppm after 24 hours.
6. It appears that the water and sewer lines will be in the streets and therefore jetting will not be used on this job. If the above assumption is not correct, then the specification for jetting needs to be revised. The revised spec.

78-498R

ROY E. PRIOR, P.E.

NOVEMBER 28, 1978

NOT AUTHORIZED...

should include but not be limited to types of soils allowed, methods for placement and compaction. It should be noted the PVC pipe manufacturer we have talked to, indicated the hydro-hammer can crush the pipe with as much as 3 feet of backfill over the pipe. If the hydro hammer is used, the lines shall be deflection tested. If it is not going to be used, an adendum should indicate it.

7. Per a telephone conversation with this office, it was my understanding we would not require the deflection testing of all the sewer pipe as required by 10 State Standards if there was a statement indicating a certain percent would be randomly tested and if a certain percent of the pipe tested failed, then the whole system would be tested. This spec should include the statement that all of the system may be required to be tested.
8. Due to the number of comments this cannot be considered a final review. If you have any questions about the review, please call this office.

1127

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: WATER & SEWER MAINS FOR CEDAR WEST TOWNHOUSES

ARCHITECT OR ENGINEER: GRAHAM DIETZ & ASSOCIATES, P.O. BOX 348, CODY, WYO. 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 78-498

REVIEWING ENGINEER: RICK ENGELMANN *RE*

DATE OF REVIEW: 10-4-78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Please provide a map showing the general location of the subdivision in the Cody area.

Water Lines:

2. What pressures are expected in the existing main on Draw Street, i.e. will the city system be able to provide sufficient pressure?
3. It is advisable to provide a valve in the 6" Line, so that the sub. can be isolated for maintenance.
4. Will there be thrust blocks at the line bends?
5. With reference to your spec.s, Article IB1., if the trench sub-grade material is unstable, it too should be excavated at least 3" and refilled with suitable material.
6. Pressure testing spec.s should be more explicit and should conform to AWWA C-600-77.
7. Disinfection of mains should conform to AWWA C601-77.
8. What are "approved mechanical means" of compaction? See Article IB4?
9. Jetting or puddling (Article IB4) is not acceptable unless you specify the types of native and fill material this method is suitable for. A description of the procedure will also be required. Drainage must be provided for this compaction method.

...../2

....2

WATER AND SEWER MAINS FOR CEDAR WEST TOWNHOUSES

No. 78-498

DATE: 10-4-78

Sewers:

1. Please provide a letter from the City or calculations to show that the existing sewer can handle the sub. flow.
2. Puddling is suitable only for ASTM Class II material (see ASTM D2321). Drainage must also be provided if puddling is used.
3. Provide a spec. for testing of ovalation of the sewer pipe, such as a pig test or a "go - no go" gauge test.

Due to the number and types of comments, this should not be considered a final review.

mailed -
10/9/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-499

Medicine Bow Coal Company Welding Shop
(Name of Facility)

This permit hereby authorizes the applicant:

Medicine Bow Coal Co.
(Last) (First) (Middle)

Box 550
(Street or P.O. Box)

Hanna Carbon WY 82327
(City) (County) (State)

to construct, install, or modify a septic system
facility located in Sec. 19; T23N; R83W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of two years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

[Signature]
Director
Wyoming Dept. of Environmental Quality

September 21, 1978
Date of Issuance

mailed-
10/17/78

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-500

Northwest Trunk Sewer - City of Sheridan
(Name of Facility)

This permit hereby authorizes the applicant:

City of Sheridan, Mayor, M. Dean Marshall
(Last) (First) (Middle)

City Hall
(Street or P.O. Box)

Sheridan Sheridan Wyoming 82801
(City) (County) (State)

to construct, install, or modify a Sewer Interceptor (from North Height Subd. to Sheridan WWTP)
facility located in Section 21 & 22, T56N, R84W
(Legal Description)

in the County of Sheridan, in the State of

Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Jones
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

October 2, 1978
Date of Issuance.