

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. EDA77-451

Town of Shoshoni - Water System Improvements

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Shoshoni

c/o R. D. Connell and Associates
Box 1010

(Last)

(First)

(Middle)

(Street or P.O. Box)

Riverton Wyoming 82501

(City)

(County)

(State)

to construct, install, or modify a Water System

facility located in the Town of Shoshoni

(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 P. Janda
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

November 28, 1977

Date of Issuance

cc: Mayor and Town Council, Town of Shoshoni, P.O. Box 267, Shoshoni, WY 82649

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. EDA 77-453R

Town of Mountain View Water Distribution System
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|------------------------------|--------------|----------------------|
| <u>Town of Mountain View</u> | | |
| (Last) | (First) | (Middle) |
| <u>c/o Uinta Engineering</u> | | |
| <u>P. O. Box 746</u> | | |
| (Street or P.O. Box) | | |
| <u>Evanston</u> | <u>Uinta</u> | <u>Wyoming 82930</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Water Distribution System
facility located in Section 23, T15, R115
(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'Neal
Administrator
Water Quality Division

Robert E. Furdin
Director
Wyoming Dept. of Environmental Quality

April 17, 1978
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Mountain View, Water Distribution System
Uinta County;

ARCHITECT OR ENGINEER: Uinta Engineering & Survey, Inc.
808 Main
Evanston, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: EDA 77-453

REVIEWING ENGINEER: ~~Thomas F. Hamm~~ - Don Armstrong, P.E.

DATE OF REVIEW: January 27, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. No data on population, soil, system requirements, operational pressures, projected consumption rates and fire flow requirements are given.
2. No basis for selection of main sizes are made and no data on projected growth given.
3. No planned ventage, except for pressurization tests, specified.
4. Technical Specification:
 - a. Section 30-8, in accordance with AWWA? What?
 - b. Section 30-10, no design of thrust backing delineated on Contract Drawings.
 - c. Section 30-13.2, not as directed by the Engineer but as specified on the drawings.
 - d. Section 30-13.4, hydrant drainage not within ten (10) feet of sewer line.
 - e. Section 30-15, test to what pressure? Specify. Test in accordance with AWWA C600.
 - f. Section 30-16, compaction of bedding.
 - g. Section 30-17, delete, "or to the satisfaction of the Engineer".
 - h. Section 31-2, "k" copper should be in accordance with AWWA C800-66.
 - i. Section 30-15.2, gages should have been calibrated in accordance with a standard within 90 days.

PROJECT: Town of Mountain View, Water Distribution System
Uinta County

WATER QUALITY REFERENCE NUMBER: EDA 77-453 (CONT)

5. Blueprints

- a. No legend or definitions of symbols.
- b. Details missing on:
 - 1) Water-sewer line crossings.
 - 2) Thrust Blocks, all type applications.
 - 3) Wood culvert crossing (or note).
 - 4) River crossings and if required 404 permit.
 - 5) Road crossing.
- c. Many water-sewer line crossings are not annotated.
- d. Required thrust blocks missing.
- e. Valves for river crossing missing.
- f. No statement on minimum horizontal separation for water-sewer lines.
- g. No statement or data on minimum water-sewer line crossings.

6. In general, there are too many statements relative to "discretion of Engineer". This is not good engineering practice and is not conducive to honest competitive bidding.

7. Recommend a statement be added to either the General Technical Specifications to the effect that all words and materials shall comply with the Wyoming Water Quality Rules and Regulations, and other applicable State requirements.

8. Any queries relative to these comments should be directed to Tom Hamm; telephone (307)777-7781.

9. This cannot be considered a final review.

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 77-454RR

Aspen Springs Water System
(Name of Facility)

This permit hereby authorizes the applicant:

Aspen Springs Improvement and Service District
(Last) (First) (Middle)

P. O. Box 971
(Street or P.O. Box)

Bondurant Wyoming 82922
(City) (County) (State)

to construct, install, or modify a Water Supply and Distribution
facility located in Section 5 & 8, T21N, R115W
(Legal Description)

in the County of Lincoln, 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. This permit is based upon the amount of water production specified in the application. This permit does not alleviate any liabilities for construction without a permit. A certified operator will be required at the start of operation of the facility.

Authorized by:

William S. Janda
Administrator
Water Quality Division

Robert E. Sunden
Director
Wyoming Dept. of Environmental Quality

May 4, 1978

Date of Issuance

cc: Parker and Associates, 2929 West 7th Avenue, Denver, CO 80204
Walter C. Urbigkit, Jr., P. O. Box 247, Cheyenne, Wyoming 82001

REVIEW OF PLANS AND SPECIFICATIONS

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

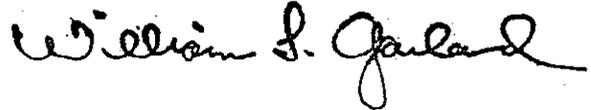
PROJECT: Aspen Springs Estates Water System - Lincoln County

ARCHITECT OR ENGINEER: W. F. Parker, P.E., Parker & Associates, 255 Yuma
Street, Denver, Colorado 80223

WATER QUALITY DIVISION REFERENCE NUMBER: 77-454R

REVIEWING ENGINEER: Roy E. Prior - William L. Garland, P.E.

DATE OF REVIEW: May 2, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). A fire hydrant is needed at the end of Sage Drive.
- 2). The PRV's are too small to permit fire flows.
- 3). Information was not supplied on one of the PRV's. The one near Meadow View Court (sheet 27).
- 4). Provide details of the second well. Will it be chlorinated and provide 30 minute contact time?
- 5). The well piping needs a smooth nosed sampling tap.
- 6). The casing vent should be a minimum of 1.5 inches.
- 7). Provide manufactures data on sanitary seal.
- 8). Provide manufactures data on the flow meter. Can it be repaired without removal.
- 9). Where is the intake vent for the chlorine room?
- 10). The exhaust fan should not exhaust by the door.
- 11). The AWWA C-601 standard requires a 25 mg/l residual after 24 hours.

PAGE 2

PROJECT: Aspen Springs Estates Water System - Lincoln County

WATER QUALITY REFERENCE NUMBER: 77-454R

- 12). More valves are needed in Valley View Circle.
- 13). Sheet 26 shows a different location for the water tanks, Please clarify.
- 14). What type of altitude valves will be used?
- 15). Due to the number of comments, this cannot be considered a complete review.

cc: Aspen Springs Improvement and Service District
P. O. Box 971
Bondurant, Wyoming 82922

Walter C. Urbigkit, Jr.
P. O. Box 247
Cheyenne, Wyoming 82001

REP/do

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Aspen Springs Estates Water System, Kemmerer, Wyoming, Lincoln County

ARCHITECT OR ENGINEER: W. F. Parker, P.E., Parker and Associates, 255 Yuma Street, Denver, CO 80223

WATER QUALITY DIVISION REFERENCE NUMBER: 77-454

REVIEWING ENGINEER: David W. Hill, Roy E. Prior, P.E.

DATE OF REVIEW: December 12, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

WATER LINES

- 1) PVC water pipe meeting ASTM D2241 SDR 26, Class 160 psi does not meet our standards. All PVC water pipe must meet AWWA C900-75.
- 2) Please indicate an equation or quantity of leakage allowed during the pressure-leakage test. The pressure-leakage testing shall conform to AWWA C600.
- 3) The water mains shall be disinfected in accordance to AWWA C601. This standard requires that the chlorine residual at the end of 24 hours be no less than 25 mg/l. Bacteriological tests must be run after final flushing and before the main is placed into service. Provide details.
- 4) A bypass should be provided around the pressure reducing valves in case of maintenance and repairs.
- 5) At least two pressure reducing valves (one large and one small) are recommended at each pressure reducing station in order to handle all flow ranges.
- 6) Please provide us with some manufacturers information on the Golden Anderson P.R.V. valves. We have no information on their product in this office.
- 7) Submit drainage details for the P.R.V. valve pits.
- 8) All fire hydrants shall meet applicable AWWA standards. Please insert this in the specifications or an addendum.

Aspen Springs Estates Water System, Kommerer, Wyoming, Lincoln County

77-454

- 9) A blowoff or fire hydrant shall be provided for all dead end lines (i.e. - cul-de-sacs). Provide details.
WELL AND WELLHOUSE
- 10) Provide casing details (i.e. - material, diameter thickness, weight per foot, specifications, etc.)
- 11) Please provide details of the drop pipe (length, size material, material specifications, etc.)
- 12) Provide well disinfection specifications.
- 13) Provide this Department with a chemical and bacteriological analysis of the well water.
- 14) The well needs a vent.
- 15) Grouting specifications are needed.
- 16) A hatchway is needed over the well to provide for pump pulling and maintenance.
- 17) A flow measuring device is needed.
- 18) Is a well control valve needed to control surges?
- 19) Indicate the length and depth of the chlorination solution line into the well.
- 20) Ten State Standards requires a minimum of 30 minutes detention time for chlorination of groundwater before reaching customers. Will this be provided?
- 21) Indicate the location and size of the exhaust fan in the chlorination room. It must be able to provide for at least one air change per minute.
- 22) The chlorination room venelation and lights must be able to be turned on from outside the building. They must also come on automatically upon opening of the door. Please provide details.
- 23) A chlorine leak detector is recommended.
- 24) A bottle of ammonium hydroxide shall be available for detecting leaks. Will this be provided?
- 25) Respiratory protection equipment suitable for chlorine gas is needed. Provide details and storage location.

- 26) Provide details of the chlorinator vent.
- 27) How will the chlorine cylinders be restrained to prevent them from tipping over?
- 28) A check valve is needed in the chlorine solution line to prevent backflow.

STORAGE TANK

- 29) A bypass should be provided around the altitude valves.
- 30) Please provide us with manufacturers information of the Golden Anderson altitude valves.
- 31) Submit drainage details for the altitude valve pits.
- 32) The ends of the drain-overflow line must be at least 12-18 inches above the concrete receiving slab.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. EDA 77-455

Town of Medicine Bow - Wastewater Treatment Facility
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Medicine Bow
(Last) (First) (Middle)
c/o Banner Association, Inc.
P. O. Box 550
(Street or P.O. Box)
Laramie Albany Wyoming 82070
(City) (County) (State)

to construct, install, or modify a Waste Treatment - Sewage Collection & Lagoon
facility located in Section 5, T22N, R78W
(Legal Description)

in the County of Albany, 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. Sundin
Director
Wyoming Dept. of Environmental Quality

January 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-456

Monteray Heights Subdivision, Ninth Filing, Phase II
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|--|----------------|----------------------|
| <u>Poulos Investments</u> | | |
| (Last) | (First) | (Middle) |
| c/o Gene Pearl | | |
| <u>CSSA - 1780 Westland Road - P. O. Box 943</u> | | |
| (Street or P.O. Box) | | |
| <u>Cheyenne</u> | <u>Laramie</u> | <u>Wyoming 82001</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Water Distribution & Wastewater Collection
facility located in Section 18, T14N, 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 P. Geland
Administrator
Water Quality Division

Robert E. Durbin
Director
Wyoming Dept. of Environmental Quality

February 1, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-457

Tarver Ranch Company Addition "Tract A"
(Name of Facility)

This permit hereby authorizes the applicant:

Throne Ethyl
(Last) (First) (Middle)
C/O Plains Engineering
Box 2020

(Street or P.O. Box)

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

to construct, install, or modify a Water Storage Standpipe
facility located in Section 21, 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 J. O'Connell
Administrator
Water Quality Division

Robert E. Schmitt
Director
Wyoming Dept. of Environmental Quality

January 3, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-458

Emrick and Hill, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|----------------------|----------|---------------|
| Sasser | Stephen | P. |
| (Last) | (First) | (Middle) |
| <u>513 N. Lennox</u> | | |
| (Street or P.O. Box) | | |
| Casper | Natrona | Wyoming 82601 |
| (City) | (County) | (State) |

to construct, install, or modify a Wastewater Disposal
facility located in Section 22, T34N, R79W
(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.

cc: Worthington, Lenhart and Carpenter, Inc., 632 S. David Street, Casper, WY 82601

Authorized by:

William F. O'Connell
Administrator
Water Quality Division

Robert E. Sandin
Director
Wyoming Dept. of Environmental Quality

November 28, 1977

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. 77-459

Fleischli Oil Company

(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|----------------------|----------------|----------------------|
| <u>Anderson</u> | <u>Thomas</u> | <u>V.</u> |
| (Last) | (First) | (Middle) |
| <u>Box 73</u> | | |
| (Street or P.O. Box) | | |
| <u>Casper</u> | <u>Natrona</u> | <u>Wyoming 82601</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Septic System
facility located in Section 5, T33N, R78W
(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.

cc: Worthington, Lenhart and Carpenter, Inc., 632 S. David Street, Casper, WY 82601

Authorized by:

William J. Garland
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

November 28, 1977

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. 77-460

Schlumberger Well Service

(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|----------------------|----------------|----------------------|
| <u>Sasser</u> | <u>Stephen</u> | <u>P.</u> |
| (Last) | (First) | (Middle) |
| <u>513 N. Lennox</u> | | |
| (Street or P.O. Box) | | |
| <u>Casper</u> | <u>Natrona</u> | <u>Wyoming 82601</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Wastewater Disposal
facility located in Section 32, T34N, R79W
(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.

cc: Worthington, Lenhart and Carpenter, Inc., 632 S. David Street, Casper, WY 82601

Authorized by:

William J. Galand
Administrator
Water Quality Division

David E. Austin
Director
Wyoming Dept. of Environmental Quality

November 28, 1977

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. 77-461

B & B Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|----------------------|----------|---------------|
| Burd | William | E. |
| (Last) | (First) | (Middle) |
| <u>3680 CY Ave.</u> | | |
| (Street or P.O. Box) | | |
| Casper | Natrona | Wyoming 82601 |
| (City) | (County) | (State) |

to construct, install, or modify a Wastewater Disposal
facility located in Section 6, T33N, R97W
(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.

cc: Worthington, Lenhart and Carpenter, Inc., 632 S. David, Casper, WY 82601

Authorized by:

William S. Janda
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

November 28, 1977

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. 77-462

J. C. Construction Warehouse

(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|---------------------|----------------------|-----------------|
| <u>Pershbaucher</u> | <u>John</u> | |
| (Last) | (First) | (Middle) |
| <u>2888 W. 64th</u> | (Street or P.O. Box) | |
| <u>Denver</u> | | <u>Colorado</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Wastewater Disposal
facility located in Section 27-34, T34N, 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.

cc: Worthington, Lenhart and Carpenter, Inc., 632 S. David, Casper, WY 82601

Authorized by:

William J. Gulea
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

November 28, 1977

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. 77-463

Inexco Oil Field Office
(Name of Facility)

This permit hereby authorizes the applicant:

Inexco Oil Company
(Last) (First) (Middle)
P. O. Box 1310
(Street or P.O. Box)
Douglas Converse Wyoming 82633
(City) (County) (State)

to construct, install, or modify a Septic Wastewater System
facility located in Section 9, T35N, R71W
(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. Carlsson
Administrator
Water Quality Division

Robert E. Aurdin
Director
Wyoming Dept. of Environmental Quality

March 20, 1978

Date of Issuance
cc: Western Engineers & Architects, 501 North Sun Drive, Casper, WY 82601

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-464

Reliance Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|--|-------------------|----------------------|
| <u>Pacific Power and Light Company</u> | | |
| (Last) | (First) | (Middle) |
| <u>P.O. Box 1688</u> | | |
| (Street or P.O. Box) | | |
| <u>Rock Springs</u> | <u>Sweetwater</u> | <u>Wyoming 82901</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Flow Measuring Weir and Effluent Baffle
facility located in Section 35, T20N, 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 P. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

November 18, 1977

Date of Issuance

cc: Johnson-Fermelia and Crank, Inc., P.O. Box 631, Kemmerer, WY 83101
Attention: Dale Crank, P.E.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. EDA77-465

City of Lander - Sanitary Sewer Improvements
(Name of Facility)

This permit hereby authorizes the applicant:

City of Lander
(Last) (First) (Middle)
c/o C. E. Spurlock, Jr., and Associates
150 North 3rd Street
(Street or P.O. Box)

Lander (City) Fremont (County) Wyoming 82520 (State)

to construct, install, or modify a Sanitary Sewer
facility located in the City of Lander
(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 S. Garland
Administrator
Water Quality Division

Robert E. Scudina
Director
Wyoming Dept. of Environmental Quality

November 28, 1977
Date of Issuance

cc: Mayor and Town Council, City of Lander, 183 South 4th Street, Lander, WY 82520

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 77-466

84 Lumber Company
(Name of Facility)

This permit hereby authorizes the applicant:

Hopkins Donald M.
(Last) (First) (Middle)

216 E. 17th
(Street or P.O. Box)

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

to construct, install, or modify a Septic Wastewater
facility located in Section 36, T14N, R67W
(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 J. Galano
Administrator
Water Quality Division

Robert E. Sinden
Director
Wyoming Dept. of Environmental Quality

November 28, 1977
Date of Issuance

cc: Norm Carter, County Engineers Office, 706 W. 19th, Cheyenne, WY 82001

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-467M - REF. 77-281

Dry Creek Wastewater Line Extension
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|---|----------------------|----------------------|
| <u>Cheyenne Board of Public Utilities</u> | | |
| (Last) | (First) | (Middle) |
| c/o Herman Noe | | |
| P. O. Box 1469 | | |
| | (Street or P.O. Box) | |
| <u>Cheyenne</u> | <u>Laramie</u> | <u>Wyoming 82001</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Wastewater Collection
facility located in Section 13, T14, R67
(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 J. Garland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

January 11, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-468

Office Warehouse - Red Horse Oil Company, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

Red Horse Oil Co., Inc.
(Last) (First) (Middle)
1600 Elk Street
(Street or P.O. Box)
Rock Springs Sweetwater Wyoming 82901
(City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 2, 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. Johnson
Administrator
Water Quality Division

Robert E. Scudler
Director
Wyoming Dept. of Environmental Quality

November 18, 1977

Date of Issuance

cc: Johnson-Fermelia and Crank, Inc., P.O. Box 1633, Rock Springs, WY 82901
Attention: Harry L. Moore, P.E.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-469M

Penny Addition - Water System Details
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Jackson
(Last) (First) (Middle)
c/o Peter Jorgensen, P.E.
P.O. Box 1142
(Street or P.O. Box)
Jackson Teton Wyoming 83001
(City) (County) (State)

to construct, install, or modify a Water System
facility located in Section 33, T41N, R116W
(Legal Description)

in the County of Teton, 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. Sandin
Director
Wyoming Dept. of Environmental Quality

November 28, 1977
Date of Issuance
cc: Paul Penny, P.O. Box 1701, Jackson, WY 83001

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. EDA77-471

Town of Moorcroft - Sanitary Sewer Rehabilitation
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|----------------------|----------|---------------|
| Town of Moorcroft | | |
| _____ | _____ | _____ |
| (Last) | (First) | (Middle) |
| P.O. Box 96 | | |
| _____ | | |
| (Street or P.O. Box) | | |
| Moorcroft | Crook | Wyoming 82721 |
| _____ | _____ | _____ |
| (City) | (County) | (State) |

to construct, install, or modify a Wastewater Collection
facility located in Section 36, T50N, R68W
(Legal Description)

in the County of Crook, 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. Gale
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

November 28, 1977

Date of Issuance

cc: Mr. Jim Gores, NHPQ, Inc., 625 East Madison, Suite #5, Riverton, WY 82501



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

April 9, 1985

Jane Stark
Cumberland Coal Co.
1000 Kiewit Plaza
Omaha, NE 68131

RE: Status of South Haystack Mine DEQ/WQD
"Permit to Construct"

Dear Ms. Stark:

As per our telephone conversation March 28, 1985 and April 2, 1985, I have compiled information as to the status of your permits. According to our records the following permits issued between 1977 and 1983 have expired:

- 77-472R Stormwater runoff reservoir and channels.
Authorized: 1-3-78 Expired: 1-30-80
- 77-534R Sanitary WWTF, truckwash, maintenance shop, primary and secondary crusher settling ponds, evaporation pond.
Renewed: 10-7-82 for two years. Letter dated 10-19-82 to DEQ/WQD cancelled this permit.
- 78-445 South Haystack reservoirs nos. 1-13. Included 1 "Permit thru
to Modify" and 12 "Permits to Construct."
78-457 Authorized: 10-7-82 Expired: 10-7-84. Letter dated 10-19-82 to DEQ/WQD cancelled permits 78-453 (res. no. 9), 78-455 (rev. no. 11), and 78-456 (res. no. 12).
- 82-683 Evaporation pond nos. 1 and 2, containment pond nos. 1, thru
2, 3 and 4, reservoir no. 9.
82-689 Authorized: 2-10-83 Expired: 2-10-85

The enclosed Water Quality Rules and Regulations, Chapter III, stipulates that "a permit may be renewed where construction has not been completed by filing an affidavit with the administrator stating that there will not be any changes in the plans for construction, installation, or modification of a permitted facility no less than 30 days prior to the expiration date of the permit."

April 9, 1985
Ms. Jane Stark
Page Two

Consequently, if you plan to construct any of the above mentioned or additional facilities, new permits must be obtained. An application for a "Permit to Construct" must include four complete sets of plans, construction specifications, and design information.

Please refer to the applicable portions of our current regulations. If you have any questions, please feel free to contact me.

Sincerely,


Jack Bedessem
Area III Supervisor

JB/jw
copy: Lynn Askew
Norma Coulson
File (2)

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-472R

South Haystack Mine
(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 Stormwater Runoff Reservoirs and Channels
Section 2, 6, T16N, R117W, Section 3, 11, T16N, R118W,
facility located in Section 20, 29, 31, T17N, R117W, Section 36, T17N, 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. Galand
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

January 3, 1978
Date of Issuance

ATTN: Tait Johnson

REVIEW OF PLANS AND SPECIFICATIONS

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

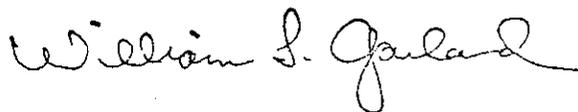
PROJECT: Cumberland Coal Company

ARCHITECT OR ENGINEER: Jack Reed, P.E. - Cumberland Coal Company, 1000 Kiewit
Plaza, Omaha, Nebraska 68131

WATER QUALITY DIVISION REFERENCE NUMBER: 77-472R

REVIEWING ENGINEER: David W. Hill; William L. Garland, P.E.

DATE OF REVIEW: November 21, 1977



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) We need additional information on the sizing of the storm water runoff ponds (i.e. - Storm design, runoff coefficient, rainfall runoff method used, etc.)
- 2) Where will the pit water be dewatered to?

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. EDA77-473

Town of Jackson - Water System Improvements
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Jackson
 (Last) (First) (Middle)
 c/o Nelson Engineering
 P.O. Box 1141
 (Street or P.O. Box)

Jackson Teton Wyoming 83001
 (City) (County) (State)

to construct, install, or modify a Water System
 facility located in the Town of Jackson
 (Legal Description)

in the County of Teton, 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. Gault
 Administrator
 Water Quality Division

Robert E. Anderson
 Director
 Wyoming Dept. of Environmental Quality

December 14, 1977

Date of Issuance

cc: Mayor and Town Council, Town of Jackson, P.O. Box 1687, Jackson, WY 83001

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Rock River - Sanitary Sewer Line No. 4 and Branches

ARCHITECT OR ENGINEER: W. Goodrich, c/o Mr. Ted Nelson, Mayor, Town of Rock River, Wyoming 82083

WATER QUALITY DIVISION REFERENCE NUMBER: EDA 77-474

REVIEWING ENGINEER: Dan ^{DK} H. Kim, Don Armstrong, P.E.

DATE OF REVIEW: November 28, 1977

ACTION: Not authorized for construction.

- COMMENTS:
1. Two (2) sets of plans and specifications are required.
 2. Plans and specifications shall carry the signature or seal of the designing engineer, who is a registered engineer in the State of Wyoming.
 3. Enclosed is an application form for a permit to construct, which must be completed and returned to our office.
 4. Material specifications of sewer pipe should be included. PVC sewer pipe shall meet the requirements of the latest revision of ASTM 3033 or 3034.
 5. We are unfamiliar with Federal specification SS-S-00210 for joint sealing compounds. We would appreciate it if you would provide a copy of it. Ring tite joint with a rubber gasket is common type for PVC sewer pipe.
 6. Maximum distance between manholes is 400 feet.
 7. Detail drawings of sewer service connection should be provided. Wye branches are only acceptable.
 8. What type of bedding will be used? Please provide detail drawings.
 9. Water sewer crossing specifications shall be included in your specifications. These specifications shall comply with Wyoming Water Quality Chapter IV Rules and Regulations.
 10. There should be specifications concerning excessive sidefill pressures and ovalation of the pipe. The maximum vertical deflection allowed shall not exceed 5% of the pipes internal diameter.
 11. This cannot be considered a final review.

cc: Mayor Ted Nelson, Town of Rock River, P. O. Box 250, Rock River, Wyoming 82083

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-475M

City of Worland - Proposed 4th Street Water Main
(Name of Facility)

This permit hereby authorizes the applicant:

City of Worland
(Last) (First) (Middle)
c/o John W. Donnell and Associates
P.O. Box 13
(Street or P.O. Box)
Worland Washakie Wyoming 82401
(City) (County) (State)

to construct, install, or modify a Water Main
facility located in the City of Worland
(Legal Description)

in the County of Washakie, 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.

NOTE: THE PROPOSED 12" PVC PIPE SHALL BE OF A NON-TOXIC TYPE AS APPROVED
BY AND BEARING THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.

Authorized by:

William P. Oland
Administrator
Water Quality Division

Robert E. Scuderi
Director
Wyoming Dept. of Environmental Quality

November 28, 1977

Date of Issuance

cc: Mayor and Town Council, City of Worland, P.O. Box 226, Worland, WY 82401

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-476M

City of Worland - 8" PVC Sanitary Sewer

(Name of Facility)

This permit hereby authorizes the applicant:

City of Worland

| | | |
|---|------------------------|-------------------------|
| <small>(Last)</small> | <small>(First)</small> | <small>(Middle)</small> |
| <u>c/o John W. Donnell and Associates</u> | | |
| <u>P.O. Box 13</u> | | |

(Street or P.O. Box)

| | | | |
|-----------------------|-------------------------|------------------------|--------------|
| <u>Worland</u> | <u>Washakie</u> | <u>- Wyoming</u> | <u>82401</u> |
| <small>(City)</small> | <small>(County)</small> | <small>(State)</small> | |

to construct, install, or modify a Sanitary Sewer

facility located in North of Industrial Addition
(Legal Description)

in the County of Washakie, 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.

NOTE: IT SHOULD BE REALIZED THAT THE PROPOSED GRADES OF THE 8" PVC SANITARY SEWER ARE LESS THAN THE MINIMUM PRESCRIBED WHICH IS 0.4 PERCENT. CONSEQUENTLY IT SHOULD BE EXPECTED THAT SOLIDS MAY SETTLE IN THE SEWER WHICH WILL RESULT IN ADDITIONAL MAINTENANCE REQUIRED OUT.

Authorized by: IN KEEPING THE SEWER CLEANED

William J. Ojala
 Administrator
 Water Quality Division

Robert E. Sinden
 Director
 Wyoming Dept. of Environmental Quality

November 28, 1977

Date of Issuance

cc: Mayor and Town Council, City of Worland, P.O. Box 226, Worland, WY 82401

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-477

Westland Subdivision, Replat of Lots 3 & 4, Block 4
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|---|----------------|----------------------|
| <u>Westland Development Corp.</u> | | |
| (Last) | (First) | (Middle) |
| <u>c/o CSSA</u> | | |
| <u>1780 Westland Road - P. O. Box 943</u> | | |
| (Street or P.O. Box) | | |
| <u>Cheyenne</u> | <u>Laramie</u> | <u>Wyoming 82001</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 1, T13N, R67W
(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 J. Orland
Administrator
Water Quality Division

Robert E. Sordin
Director
Wyoming Dept. of Environmental Quality

February 1, 1978

Date of Issuance

PERMIT TO CONSTRUCT

Marked
11/14/78

- New
- Renewal
- Modified

Permit No. 77-478M

Granite Quarry Relocation
(Name of Facility)

This permit hereby authorizes the applicant:

Great Western Sugar Company
 (Last) (First) (Middle)

P. O. Box 5308
 (Street or P.O. Box)

Denver CO 80217
 (City) (County) (State)

to construct, install, or modify a Modification of Septic System
 facility located in Section 36, T13N, R70W
 (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. Gale
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

October 26, 1978
 Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-478

L-F Quarry Sewer System
(Name of Facility)

This permit hereby authorizes the applicant:

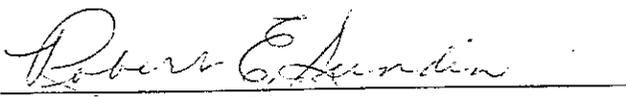
Great Western Sugar Company
(Last) (First) (Middle)
P.O. Box 5308
(Street or P.O. Box)
Denver Colorado 80200
(City) (County) (State)

to construct, install, or modify a Septic Wastewater
facility located in Section 36, T13N, R70W
(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:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

December 14, 1977

Date of Issuance

cc: Rich Reusser, BRW Noblitt, 1709 Carey Avenue, Cheyenne, WY 82001
City-County Health Unit, 315 West 20th, Cheyenne, WY 82001

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. EDA77-479

Town of Granger - Water System
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Granger
(Last) (First) (Middle)
P.O. Box 42
(Street or P.O. Box)
Granger Sweetwater Wyoming 82934
(City) (County) (State)

to construct, install, or modify a Water Storage Tank
facility located in the Town of Granger
(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 L. Garland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

November 28, 1977

Date of Issuance

cc: Tudor Engineering Company, 450 South Federal Boulevard, Riverton, WY 82501

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-481

H & H Lumber Company

(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|---------------------------------|-----------------|----------------------|
| <u>H & H Lumber Company</u> | | |
| (Last) | (First) | (Middle) |
| <u>c/o Eagle Engineering</u> | | |
| <u>Box 2366</u> | | |
| (Street or P.O. Box) | | |
| <u>Gillette</u> | <u>Campbell</u> | <u>Wyoming 82716</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Septic Wastewater
 facility located in Section 11, 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 J. Garland
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

December 29, 1977
 Date of Issuance

cc: Malcolm Crawford, Campbell County Sanitarian

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-482M

Redstone First Addition Water & Sewer Lines
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|-----------------------------------|-----------------------------|---------------------------------|
| <u>Town of Pinedale</u> (Last) | <u></u> (First) | <u></u> (Middle) |
| <u>c/o Rio Verde Engineering</u> | | |
| <u>P. O. Box 67</u> | | |
| (Street or P.O. Box) | | |
| <u>Pinedale</u> (City) | <u>Sublette</u> (County) | <u>Wyoming 82941</u> (State) |

to construct, install, or modify a Water and Sewer Line
facility located in T33, 34N, R109W
(Legal Description)

in the County of Sublette, 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. Lundin
Director
Wyoming Dept. of Environmental Quality

January 9, 1978
Date of Issuance

PERMIT TO CONSTRUCT

mailed
11/8/78

- New
- Renewal
- Modified

Permit No. 77-483MRR

Wardwell Water & Sewer District
(Name of Facility)

This permit hereby authorizes the applicant:

Wardwell Water & Sewer District
(Last) (First) (Middle)

Box 9003
(Street or P.O. Box)

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

to construct, install, or modify a Water & Sewer Lines
facility located in 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. Chalmers
Administrator
Water Quality Division

Director
Wyoming Dept. of Environmental Quality

October 25, 1978

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

mailed
10/31/78

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wardwell Water & Sewer District, Bar Nunn Ranch Subdivision
Natrona County

ARCHITECT OR ENGINEER: Russell Donley, Western Engineers, 501 N. Sun Dr.
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-483MRR

REVIEWING ENGINEER: Robert H. Pinther, Jake *JP* Strohaman, P.E.

DATE OF REVIEW: 10/22/78

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Sheet No. 1 of the plans must bear a statement which indicates that the 1978 Standard Specifications for water distribution lines and sanitary sewer lines as approved by DEQ for Wardwell Water & Sewer District will be used for these plans.

Copy only

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wardwell Water & Sewer District - Water & Sewer Improvements for Bar Nunn Ranch Subdivision, Natrona County

ARCHITECT OR ENGINEER: Russell Donley, Western Engineers, 501 N. Sun Dr. Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-48BMRR

REVIEWING ENGINEER: Robert H. Pinther, Jake ~~S~~ Strohman, P.E.

DATE OF REVIEW: 9/22/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Water System

Please show the existing system to which the new mains will be connected, including the material, size, etc.

Sewer System

1. Please show the existing system to which the new sewer lines will hook.
2. Since a $n = .01$ value is used in predicting velocity of flow in sewer pipe, PVC pipe shall be specified.
3. Provide for disinfection of the water mains. The provisions of AWWA Standard C601 shall be incorporated into the disinfecting procedure.

General

Revise the "Legend" on sheet 1/5 to show that both "8 proposed water main" and "8 proposed sanitary sewer will be in this contract.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wardwell Development Company C-Lots
Box 9003
Casper, WY 82601

ARCHITECT OR ENGINEER: Western Engineering, Inc.
501 N. Sun Drive
Casper, WY 82601.

WATER QUALITY DIVISION REFERENCE NUMBER: 78-483MR

REVIEWING ENGINEER: Thomas F. Hamm, Jake Strohmaier, P.E.

DATE OF REVIEW: 8/1/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Incorporate the attached comments relative to the Wardwell Standards and specifications.
 2. Per our telephone conversation remove the weep hole and add more slope to the drain line.
 3. Submit the sheet #2 that shows the lines this development will tie into.
- Upon incorporation of these comments a Permit to Construct will be issued.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wardwell Water & Sewer District - Water & Sewer Improvements
Bar-Nunn Ranch Subdivision - Natrona County Wyoming

C-102
ARCHITECT OR ENGINEER: Russell Donley, Western Engineers - Architects, Inc.
501 North Sun Drive - Casper Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-483M

REVIEWING ENGINEER: Dan H. Kim - Don Armstrong, *D.A.* P. E.

DATE OF REVIEW: January 20, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Do you intend to get a DEQ permit for the construction of 6" water main and 8" sanitary sewer which are not with this contract?
- 2). Enclosed is an application form for a permit to construct, which must be completed and returned to our office.

WATER SYSTEM

- 1). Water valves should be located at not more than 500 foot intervals in commercial districts and at not more than 800 foot intervals in other districts.
- 2). Please show the existing system which the new mains will be connected to, including its material, size, etc.
- 3). Dead ends of water main shall be provided with fire hydrants or finishing hydrants.
- 4). A new weep hole in the tank site is not acceptable unless there is a reduced pressure backflow preventor at the drain pipe. The drain pipe should be sloped in a manner to employ gravity flow to drain support.
- 5). The following AWWA standards that your specifications are referred to are outdated: AWWA C104-71, AWWA C400-75, AWWA C502-64, AWWA C504-70, AWWA C203-66.

SEWER SYSTEM

- 1). There are no specifications provided for sewer lines, i.e. material, testing, installation, etc.

PROJECT: Wardwell Water & Sewer District - Water & Sewer Improvements
Bar-Nunn Ranch Subdivision - Natrona County Wyoming

WATER QUALITY REFERENCE NUMBER: 77-483M (CONT)

- 2). Please show the existing sewers which the new lines will be hooked onto.
Where is lagoon site?
- 3). There are some places where the slopes are less than minimum requirements.
Please provide computations to justify your design.
- 4). Profile of sewer between MH #19 - MH #18-A should be provided.

This cannot be considered a final review.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-484M

Wardwell Water and Sewer District
(Name of Facility)

This permit hereby authorizes the applicant:

Wardwell Water and Sewer District
(Last) (First) (Middle)
P.O. Box 728
(Street or P.O. Box)
Mills Natrona Wyoming 82644
(City) (County) (State)

to construct, install, or modify a Addition to the Water Distribution System
facility located in the Skyview Industrial Park
(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.

Cc: Rosendahl Engineering and Surveying, P.O. Box 102, Story, WY 82842

Authorized by:

William P. Gula
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

December 19, 1977
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Skyview Industrial Park, Water Distribution System, Wardwell Water and Sewer District, Casper, WY 82601

ARCHITECT OR ENGINEER: Rosendahl Engineering and Surveying, P.O. Box 102, Story, Wyoming 82644

WATER QUALITY DIVISION REFERENCE NUMBER: 77-484M

REVIEWING ENGINEER: ^{RHP} Robert H. Pinther, P.E.

DATE OF REVIEW: 12-16-77

ACTION: CONSTRUCTION AUTHORIZED WITH COMMENT.

COMMENTS: 1. All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods joints designed to prevent movement.

RHP/jo

cc: Wardwell Water and Sewer District, P.O. Box 728, Mills, WY 82644

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-485MRR

Saratoga Municipal Sewerage System
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Saratoga
(Last) (First) (Middle)
P. O. Box 1067
(Street or P.O. Box)
Saratoga Carbon Wyoming 82331
(City) (County) (State)

to construct, install, or modify a Sewage Lift Station
facility located in Saratoga Wyoming
(Legal Description)

in the County of Carbon, 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. Jones
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

June 6, 1978

Date of Issuance

cc: Western Engineers-Architects, Inc., 501 North Sun Drive, Casper, WY 82601

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Saratoga, Sewage Lift Station
Carbon County

ARCHITECT OR ENGINEER: Western Engineers-Architects, Inc., ATTN: Pat Gamroth,
501 North Sun Drive, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-485MR

REVIEWING ENGINEER: *Robert H. Pinther*
Robert H. Pinther, P.E.

DATE OF REVIEW: April 13, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Please respond to comments 1), 2), 2)a. and 5)* of our review **
of January 6, 1978.

*Specify that the wet well ventilation fan shall supply fresh
outside air into the wet well.

**Copy enclosed.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sewage Lift Station Renovation
Town of Saratoga - Saratoga Wyoming - Carbon County

ARCHITECT OR ENGINEER: Western Engineers-Architects, Inc.
ATTN: Pat Gamroth
501 North Sun Drive - Casper Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-485M

REVIEWING ENGINEER: *Robert H. Pinther*
Robert H. Pinther, P.E.

DATE OF REVIEW: January 6, 1978

ACTION: CONSTRUCTION NOT AUTHORIZED

COMMENTS:

- 1). Submit a total of two (2) copies of the plans and specifications.
- 2). Submit the design data and/or calculations on which the size of the pumps and size of the lift station wet well are based. Design calculations shall include both peak and average daily flows.
 - a. Each pump shall be capable of handling flows in excess of the maximum sewage flow at the operating discharge head.
 - b. The effective capacity of the wet well shall provide a holding period not to exceed ten (10) minutes at the design average flow.
- 3). Redesign the lift station to:
 - a. Provide for convenient pump disconnect, removal and replacement without dewatering the wet well and with continuity of operation of the other unit.
 - b. Provide a hopper bottom wet well with a minimum slope of 1 to 1. The horizontal area of the hopper bottom shall be no greater than necessary for proper installation and function of the inlet.
 - c. Provide a check valve on each pump discharge line between the shutoff valve and the pump.
- 4). Unless the pumps are guaranteed not to clog, they shall be preceded by a rack accessible for maintenance from above. The rack shall have openings not exceeding 2-½ inches. Convenient facilities must be provided for handling screenings.

PROJECT: Sewage Lift Station Renovation
Town of Saratoga - Saratoga Wyoming

WATER QUALITY REFERENCE NUMBER: 77-485M (CONT)

- 5). Adequate ventilation shall be provided for the lift station as directed in Chapter 30, Sewage Pump Stations of the Recommended Standards for Sewage Works of the Great Lakes-Upper Mississippi River Board of State Sanitary Engineers. The ventilating systems shall be arranged to independently ventilate the wet well and the valve chamber immediately over the wet well. The wet well shall be ventilated by the mechanical introduction of fresh air into the wet well at the required rate.
- 6). Emergency power shall be provided in compliance with the Paragraph 35 of the Standards referred to in comment number five above.
- 7). The submersible pumps shall be capable of unsubmerged operation without damage or reduction of service capability or positive provision shall be made to assure submergence, e.g. backup controls.
- 8). All electrical systems and components in both the upper and lower levels of the pump station shall be explosion proof complying with the National Electrical Code requirements for Class I, Division 1 locations.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-486MRR

Torrington Sewage Lagoon
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|---------------------------|---------------|----------------------|
| <u>Town of Torrington</u> | | |
| (Last) | (First) | (Middle) |
| <u>P. O. Box 250</u> | | |
| (Street or P.O. Box) | | |
| <u>Torrington</u> | <u>Goshen</u> | <u>Wyoming 82201</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Sewage Lagoon Outlet
facility located in Section 23, T24, R61N
(Legal Description)

in the County of Goshen, 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. O'Connell
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

April 14, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Torrington Lagoon Outlet, Goshen County

ARCHITECT OR ENGINEER: K & H Engineering, P. O. Box 856, Wheatland,
Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 77-486MRR

REVIEWING ENGINEER: *Robert H. Pinther*
Robert H. Pinther, P.E.

DATE OF REVIEW: April 14, 1978

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

As per our telephone conversation of April 14, 1978 with Mr. Donald R. Horton of K & H Engineering, comment #1 below will be incorporated into the plans for this project.

- 1). For accuracy in flow measurements the bottom of the flow channel upstream from each weir shall be below the crest of the weir a distance which is equal to at least twice the maximum head of liquid above the crest of the weir.
- 2). Since the weir gauge is located at the weir plate rather than upstream the recommended distance, it may be necessary to calibrate the weir at various flows to obtain an accurate flow table.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Torrington Lagoon Outlet
Goshen County

ARCHITECT OR ENGINEER: K & H Engineering, P. O. Box 856,
Wheatland, Wyoming 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 77-486M

REVIEWING ENGINEER: Robert H. Pinther, P.E. *RP*

DATE OF REVIEW: March 3, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Submit additional specifications covering the weir. This shall include but not necessarily be limited to the following:

- a. Provide two (2) weirs, one each for measuring the effluents from lagoon numbers 3 and 4.
- b. Each weir plate shall be set with its face vertical and have a sharp crest which is absolutely level.
- c. For accuracy in flow measurements the bottom of the flow channel downstream from each weir shall be below the crest of the weir a distance which is equal to at least twice the maximum head of liquid above the crest of the weir.
- d. The weir plate shall fit the receiving structure in a water-tight manner.
- e. Since the weir gauge is located at the weir plate rather than upstream from the plate, it may be necessary to calibrate the weir at various flows to obtain an accurate flow table.

A & B

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Torrington Lagoons - Proposed Outlet

ARCHITECT OR ENGINEER: K & H Engineering, ATTN: Donald Horton
P. O. Box 147, Torrington, Wyoming 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 77-486M

REVIEWING ENGINEER: Dan H. Kim - Don Armstrong, P. E.

DATE OF REVIEW: January 26, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Enclosed is an application form for a permit to construct, which must be completed and returned to our office.
- 2). Two (2) sets of specifications are required.
- 3). A flow measuring device is required on the outlet.
- 4). This cannot be considered a final review.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Torrington Lagoons - Proposed Outlet

ARCHITECT OR ENGINEER: K & H Engineering, ATTN: Donald Horton
P. O. Box 147, Torrington, Wyoming 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 77-486M

REVIEWING ENGINEER: Dan H. Kim - Don Armstrong, P. E.

DATE OF REVIEW: January 26, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Enclosed is an application form for a permit to construct, which must be completed and returned to our office.
- 2). Two (2) sets of specifications are required.
- 3). A flow measuring device is required on the outlet.
- 4). This cannot be considered a final review.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-487

Reliance Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

Pacific Power and Light Company
(Last) (First) (Middle)
P.O. Box 1688
(Street or P.O. Box)
Rock Springs Sweetwater Wyoming 82901
(City) (County) (State)

to construct, install, or modify a Chlorination
facility located in Section 35, T20N, 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 P. Ogden
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

December 19, 1977

Date of Issuance

Att: S. L. Campagna, Project Manager

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-488M

Patrick Draw Maintenance Station
(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming State Highway Department

(Last) (First) (Middle)
P. O. Box 1708

(Street or P.O. Box)
Cheyenne Laramie County

(City) (County) (State)

to construct, install, or modify a Sewage System
facility located in Patrick Draw

(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. Ojala
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

December 28, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Patrick Draw Maintenance Station Sewage System Modification
Sweetwater County, Wyoming

ARCHITECT OR ENGINEER: Richard F. Karstoft, P.E., Wyoming State Highway Department
P. O. Box 1708, Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 77-488M

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: December 22, 1977

ACTION: AUTHORIZED FOR CONSTRUCTION WITH COMMENTS

COMMENTS: Septic Tank Capacity

The proposed total capacity of 3000 g.p.d. of septic tank is not adequate for the units served.

State regulations require that each residence be allocated 1000 g.p.d. and the shop building with the trailers should be allocated a further 1000 g.p.d. of septic tank capacity recommended.

Should less than the recommended capacity be utilized it should be expected that the tanks will need to be pumped out at shorter intervals closer to once in three years than once in ten years.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. EDA77-489

Town of Clearmont Water System Improvements
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Clearmont
(Last) (First) (Middle)

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

Clearmont Sheridan Wyoming 82835
(City) (County) (State)

to construct, install, or modify a Municipal Water System
facility located in the Town of Clearmont
(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 P. Galand
Administrator
Water Quality Division

Robert E. Sandin
Director
Wyoming Dept. of Environmental Quality

December 20, 1977

Date of Issuance

cc: Centennial Engineering and Research, Inc., 49 East Loucks, Suite 207,
Sheridan, Wyoming 82801

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 77-490

Section 21 Evaporation Pond
(Name of Facility)

This permit hereby authorizes the applicant:

Kerr-McGee Nuclear Corporation
(Last) (First) (Middle)
P.O. Box 188
(Street or P.O. Box)
Glenrock Converse Wyoming 82637
(City) (County) (State)

to construct, install, or modify a Wastewater Lagoon
facility located in Section 21, T37N, R73W
(Legal Description)

in the County of Converse, in the State of
Wyoming. This permit shall be effective for a period of 3 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Gula
Administrator
Water Quality Division

Robert E. Hendin
Director
Wyoming Dept. of Environmental Quality

December 19, 1977

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-491

Lot 4 - Block 4 Mtn. Aire Subdivision, 2nd Section, Shop & Office Bldg.
(Name of Facility)

This permit hereby authorizes the applicant:

Mesa Investments, Inc.
 (Last) (First) (Middle)

Box 1664
 (Street or P.O. Box)

Rock Springs Sweetwater Wyoming 82901
 (City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
 facility located in Section 9, T19N, 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 L. Quinn
 Administrator
 Water Quality Division

Robert E. Lunden
 Director
 Wyoming Dept. of Environmental Quality

December 13, 1977

Date of Issuance

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

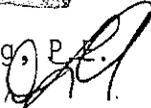
REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Muddy Gap Houses, Muddy Gap Maintenance Camp,
Carbon County~~

ARCHITECT OR ENGINEER: Richard Karstoft, P.E. - Project Development Engineer
Wyoming Highway Department

WATER QUALITY DIVISION REFERENCE NUMBER: ~~77-492M~~

REVIEWING ENGINEER: Dan H. Kim - Don Armstrong, P.E. 

DATE OF REVIEW: January 10, 1978

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

- 1). Enclosed is an application form for a permit to construct, which must be completed and returned to our office.
- 2). One (1) more set of plans and specifications are required.
- 3). Minimum size of sewage collection line is 6" sewers. (Sewers from MH #1 - MH #3, MH #2 - MH #3 and MH #3 - Septic Tank - Leach Field shall be 6" lines. Eight (8) inch sewers are preferred).
- 4). The slope of the sewers shall meet the minimum requirements.
- 5). Plastic sewer pipe shall meet the requirements of the latest revision of ASTM D3033 or 3034.
- 6). Cast iron pipe is required through the foundation of the dwelling and extended a distance of five (5) feet from the foundation. Cast iron or schedule 40 PVC is required into and out of a septic tank. The cast iron or schedule 40 PVC pipe shall extend at least five (5) feet from the inlet and outlet.
- 7). Design calculations should be provided for septic tank and leach field. Those informations should include, but not be limited to, anticipated sewage flow, detention time for septic tank, percolation rate of leach field site, highest known groundwater level, size of leach field, number of perforated lines, etc.
- 8). Minimum distances between any points of the septic tank or the disposal field and other structures shall meet the requirements of Wyoming Water Quality, Chapter III Rules and Regulations, Appendix B, sub-part 2.5 or sub-part 3, respectively.

PROJECT: . Muddy Gap Houses, Muddy Gap Maintenance Camp

WATER QUALITY REFERENCE NUMBER: 77-492M

- 9). The minimum distance between trenches shall be six (6) feet at leach field.
- 10). Maximum exfiltration or infiltration rates for the sewer shall not exceed 200 gpd/inch of diameter/mile for any section of the system.
- 11). Information concerning the existing septic tank and leach field at Muddy Gap shop layout, site no. 2, should be provided.
- 12). There should be specifications concerning excessive sidefill pressures and ovalation of the sewer pipe. The maximum vertical deflection allowed shall not exceed 5% of the pipes internal diameter.
- 13). Water and sewer crossing specifications shall meet the Wyoming Chapter IV Regulations, Section 15. (Reference Appendix A, Sub-Part 3).
- 14). Bedding specifications should provide type to be used and typical drawings.
- 15). Sewer pipe shall not rest on bells. There should be specifications concerning relieving the bells.

*Water systems are not under the State jurisdiction because there will not be more than ten (10) service connections.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-493

Centrilift Division Waste Water Disposal
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|----------------------------|----------|---------------|
| Reker | Steven | Alan |
| (Last) | (First) | (Middle) |
| <u>1971 E. Yellowstone</u> | | |
| (Street or P.O. Box) | | |
| Casper | Natrona | Wyoming 82601 |
| (City) | (County) | (State) |

to construct, install, or modify a Wastewater Disposal
facility located in Natrona County, WY
(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. [Signature]
Administrator
Water Quality Division

Robert E. [Signature]
Director
Wyoming Dept. of Environmental Quality

December 14, 1977

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. 77-494

Economy Bit Company Wastewater System
(Name of Facility)

This permit hereby authorizes the applicant:

Bitner Construction
(Last) (First) (Middle)
Box-2205
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Wastewater Disposal
facility located in Section 28 & 30, T34N, 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 J. Garland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

March 20, 1978

Date of Issuance

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



THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

Herschler Building ● 122 West 25th Street ● Cheyenne, Wyoming 82002

| | | | | | | |
|--|---|---|---|--|---|---|
| ADMINISTRATION (307) 777-7758 FAX 777-7682 | ABANDONED MINES (307) 777-6145 FAX 634-0799 | AIR QUALITY (307) 777-7391 FAX 777-7682 | INDUSTRIAL SITING (307) 777-7368 FAX 777-6937 | LAND QUALITY (307) 777-7756 FAX 634-0799 | SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973 | WATER QUALITY (307) 777-7781 FAX 777-5973 |
|--|---|---|---|--|---|---|

May 8, 1995

James W. Johnson
Johnson Engineering Associates
1807 Beaufort Street
Laramie, Wyoming 82070

RE: Changes to usage of the Gem City Bone & Joint Clinic Septic System Will Require Application for a modified Permit To Construct to permit #77-495

Dear Mr. Johnson:

The Water Quality Division (WQD) of the Wyoming Department of Environmental Quality (DEQ) has received and reviewed your letter of May 2, 1995. The emphasis of both of your letters (February 22nd, and May 2nd) has been on the hydraulic loading only of the septic system. From the additional information provided in your May 2nd letter it does appear that the existing system and leach field can handle the increased hydraulic loading from the proposed expansion. However, in the interim since February 22nd, the WQD has become aware of additional concerns about the potential hazardous nature of the wastes which could be, and may already be, discharged into the leach field.

The first concern is that because the proposed expansion is for an "operating room", that other than "domestic" type wastes could be discharged into the system. Such things as human blood and other contaminated surgery byproducts may be a problem if not handled properly. Therefore, these types of wastes will have to be identified and the handling of this material will have to be addressed in an application for a modified permit to construct.

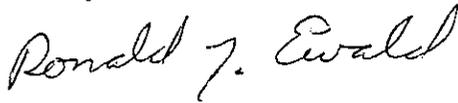
The second concern arises from a review of the existing facilities and permit in which it was discovered that this septic system includes an "acid waste" drain line which bypasses the septic tank and discharges directly to the leach field. Although this was permitted in 1978, this practice is contrary to today's federal Underground Injection Control Program (UIC).

James W. Johnson
May 8, 1995
Page 3

the wellhead protection area for the City of Laramie drinking water supply and the 201 service area for the Laramie Wastewater Treatment Plant, the WQD will not be able to approve a permit for this modification and change in use until such time as a 201 exemption is granted by the 201 review panel.

If you have any questions concerning the UIC aspects of this letter please contact Robert Lucht, at (307) 777-7095. If you have any other questions please call me at (307) 777-6183.

Sincerely,



Ronald L. Ewald
Engineering Evaluator
SE District, Water Quality Division

RLE/nc 51996.LTR

cc: Gem City Bone & Joint
Gary Steele, WQD
Larry Robinson, WQD
Jake Strohmman, WQD
Robert Lucht, WQD
Andy Kasehagen, Albany County Planner

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-495RR

Gem City Bone and Joint Clinic

(Name of Facility)

This permit hereby authorizes the applicant:

Grand Street Boys

(Last)

(First)

(Middle)

509 Spruce

(Street or P.O. Box)

Laramie

(City)

Albany

(County)

Wyoming 82070

(State)

to construct, install, or modify a Septic Wastewater

facility located in Section 1, T15N, R73W

(Legal Description)

in the County of Albany, 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. Palmer

Administrator

Water Quality Division

Robert E. Lundin

Director

Wyoming Dept. of Environmental Quality

March 1, 1978

Date of Issuance

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Gem City Bone & Joint Clinic
Albany County

ARCHITECT OR ENGINEER: Sierra Madre Company
ATTN: Terry D. Wilson, P.E.
509 Spruce Street - Laramie, Wyoming 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 77-495R

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E.

DATE OF REVIEW: February 15, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

- 1). The following information is required:
 - Percolation rate for the leach field area.
 - Design calculations and estimated daily flow.
 - Depth to groundwater in the leach field area.
 - Composition of acid waste.
- 2). The ends of the leach lines shall be tied together with additional perforated pipe.
- 3). Please indicate how water will be supplied to the building. The septic system may not be placed within 100 feet of any water well.
- 4). Why are the leach trenches backfilled completely to grade with gravel?

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 14, 1977

Grand Street Boys
509 Spruce
Laramie, Wyoming 82070

77-498

Gentlemen:

I am returning your application for a Wastewater Facility Permit. The plans and specifications for such applications are required to carry the signature of a Professional Engineer registered to practice in the State of Wyoming. The plans cannot be reviewed until this condition is met.

Yours truly,

Tom Mueller

Tom Mueller
Environmental Engineer
Water Quality Division

TM/jo

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Gillette, Well Pumping Stations, Contract No. 2
Campbell County

ARCHITECT OR ENGINEER: Wright-McLaughlin Engineers, 2420 Alcott Street.
Denver, CO 80211

WATER QUALITY DIVISION REFERENCE NUMBER: 77-496M

REVIEWING ENGINEER: Dan H. Kim, Don Armstrong  P.E.

DATE OF REVIEW: January 18, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

- 1). Enclosed is an application form for a permit to construct, which must be completed and returned to our office.
- 2). One (1) more set of plans and specifications are required. Upon approval, one set will be returned to you.
- 3). Compaction of trenches by water inundation is not allowed.
- 4). AWWA C151-65 has been revised, the latest version is AWWA C151-76.
- 5). ASA specification A21.4-64 has been revised, the latest version is ANSI A21.4-1974. All specifications covering pipe or fittings should reference the latest revision of AWWA or ANSI specifications.
- 6). AWWA C500-61 has been revised, the latest version is AWWA C601-68.
- 7). Disinfection of the water line shall comply with AWWA C601-68. The chlorine residual after 24 hours shall not be less than 25 ppm.
- 8). Please provide manufacturer's data on the pitless adaptors and sanitary well cap.
- 9). Water valves should be located at not more than 500 foot intervals in commercial district and 800 foot intervals in other districts on distribution lines. Please comment on the anticipated use of the water lines from well #18 and well #19 to Sutherland Estate.
- 10). This cannot be considered a final review.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-497RR

Western Nuclear Pump Station Renovation
(Name of Facility)

This permit hereby authorizes the applicant:

Western Nuclear Inc.

(Last) (First) (Middle)

c/o Richard Fairservis
P. O. Box 630

(Street or P.O. Box)

Jeffrey City Fremont Wyoming 82301
(City) (County) (State)

to construct, install, or modify a Sewage Treatment
facility located in Section 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 P. Galano
Administrator
Water Quality Division

Robert E. Hendin
Director
Wyoming Dept. of Environmental Quality

March 15, 1978

Date of Issuance

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 14, 1978

Western Engineers-Architects, Inc.
Russell L. Donley
501 North Sun Drive
Casper, Wyoming 82601

ATTN: Pat Gamroth

REF: Western Nuclear Pump Station Renovation
Water Quality Reference Number 77-497RR

Dear Pat:

Per our telephone conversation on March 8, 1978, Ten States Standards would require the peak flow design to be 2.5 to 4.0 times the average daily flow. While the pumps specified will handle the present population of Jeffrey City, they will not meet the peak flows of the future population designs submitted in the application to construct. On the basis of the capability of the pumps to meet the requirements of the present population, a permit to construct will be issued. All future additions to the system will require a re-evaluation of the capacities of the lift station and proposed design flows.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roy E. Prior".

Roy E. Prior
Environmental Engineer

REP/do

cc

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Western Nuclear Pump Station Renovation, Jeffrey City, Wyoming,
Fremont County

ARCHITECT OR ENGINEER: Western Engineers-Architects, Inc.
ATTN: Russell L. Donley, P.E.
501 North Sun Drive - Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-497R

REVIEWING ENGINEER: David W. Hill - William L. Garland, P.E.

DATE OF REVIEW: February 21, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Please submit complete design criteria for the sewer line and lift station (i.e. population, average flows, peak flows, etc.).
- 2). Details of the lift station alarm system are needed.
- 3). How will the casing ends be closed?
- 4). Another manhole is needed between M.H. 7A and M.H. 5A. Under no circumstances should the sewer line in storm sewer M.H. 6A be opened.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Western Nuclear Pump Station Renovation, Jeffrey City, Wyoming,
Fremont County~~

ARCHITECT OR ENGINEER: Russell L. Donley, P.E. - Western Engineers -
Architects, Inc., 501 North Sun Drive, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: ~~77-497~~

REVIEWING ENGINEER: David W. Hill, Roy E. Prior,

DATE OF REVIEW: December 15, 1977

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

GENERAL

- 1) Please supply this Department with two copies of plans and specifications. One set shall be returned to you upon our authorization.
- 2) Please have owner or owner's designated representative fill out and submit two copies "Application for Permit to Construct, Install,....."
- 3) Please submit complete design criteria for sewer line and lift station (i.e. - population, average flows, peak flows, etc.)

SEWER OUTFALL LINE

- 4) More details are needed for Manhole 6-A. How do the sanitary sewer and storm sewer interface?
- 5) Casing details are needed for the highway crossing.
- 6) Infiltration - exfiltration specifications, leakage testing specifications, and alignment specifications are needed.

LIFT STATION

- 7) Will the Palmer/Bowlus Flume manhole require frequent maintenance? (i.e. - cleaning sonar probe, flume, etc.) An easier access manhole with safety equipment should be considered.
- 8) Please submit lift station hatch details. It should be an easy opening hatch.

- 9) The hatch must be protected against flooding. Provide details of the entrance hatch height above ground level.
- 10) The venelation system is undersized. Ten State Standards requires that the air be changed at least thirty times per hour.
- 11) Please address power outages. Can the lift station automatically bypass to Cell #1 during power outages?
- 12) Supply more details of alarm system (i.e. - light, bell, etc.)
- 13) Please supply information of the existing or proposed dry well lighting.

AERATION SYSTEM

- 14) Freezing problems should be addressed to keep the aeratons from tipping over.
- 15) Can the mooring cables be unhooked from the center anchor without a maintenance man dipping his hand into the lagoon water?



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 9, 1977

Geck, Inc.
P.O. Box 1983
Rock Springs, Wyoming 82901

Dear Sirs:

RE: Wastewater Facility for Shop and
Office 77-498

We have received in this office a set of plans and specifications for the proposed septic tank-leach field system.

Under the "Wyoming Water Quality Rules and Regulations, 1976, Chapter III" your facility is considered to be a commercial facility. All plans and specifications for commercial facility wastewater treatment systems must be signed or sealed by an engineer registered in the State of Wyoming as per Chapter III. The plans will not be reviewed until this is done. Please be aware that construction without a permit from this Department is subject to severe penalties (up to 10,000 per day of violation).

If any question comes up, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script that reads "David W. Hill".

David W. Hill
Environmental Engineer
Water Quality Division

DWH/jo

Enclosure

cc: Bowker Construction, P.O. Box 154, Rock Springs, WY 82901

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-499M

Town of Deaver - 2nd Ave. 8" Sewer Line Extension
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Deaver
(Last) (First) (Middle)
c/o Tudor Engineering
450 S. Federal Blvd.
(Street or P.O. Box)

Riverton Fremont Wyoming 82501
(City) (County) (State)

to construct, install, or modify a 8" Sewer Line
facility located in the Town of Deaver
(Legal Description)

in the County of Big Horn, 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. Jordan
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

December 15, 1977

Date of Issuance

cc: Mayor and Town Council, Town of Deaver, P.O. Box 207, Deaver, WY 82421