

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-1RR

Boy Scouts of America Teton Canoe Base
(Name of Facility)

This permit hereby authorizes the applicant:

Boy Scouts of America
(Last) (First) (Middle)
c/o Don Allen
525 Foothill Blvd.
(Street or P.O. Box)
Salt Lake City Utah
(City) (County) (State)

to construct, install, or modify a Waste Treatment
facility located in Section 27, T39N, 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. Garland
Administrator
Water Quality Division

Robert E. Scardin
Director
Wyoming Dept. of Environmental Quality

February 23, 1978
Date of Issuance

cc: Peter M. Jorgensen, P. O. Box 1142, Jackson, Wyoming 83001

REVIEW OF PLANS AND SPECIFICATIONS

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

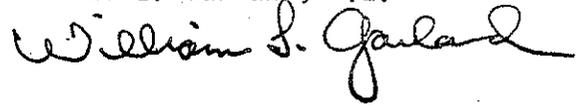
PROJECT: Boy Scouts of America, Teton Canoe Base
Waste Treatment Facility - Teton County

ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E.
P. O. Box 1142 - Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-1R

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

DATE OF REVIEW: February 3, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1). The area of both leach beds need to be increased by 50%.

REVIEW OF PLANS AND SPECIFICATIONS

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

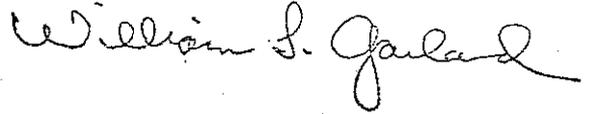
PROJECT: Boy Scouts of America Teton Canoe Base, Waste Treatment Facility, Teton County Wyoming

ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E.
P. O. Box 731 - Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-1

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

DATE OF REVIEW: December 28, 1977



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). This Department will not review the water system because it is less than ten (10) connections and does not come under our jurisdiction.
- 2). Please supply more design calculations (i.e. percolation rate, flow per system, etc.).
- 3). Please indicate the depth to the seasonal high groundwater table.
- 4). Six inch lines should be used from the buildings to the septic tanks unless four inch lines can be hydraulically justified during peak flows.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. EDA 78-2M

City of Sheridan Water System Improvements (EDA 77-2)
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|------------------------------------|----------------|----------------------|
| <u>Marshall</u> | <u>M.</u> | <u>Dean</u> |
| (Last) | (First) | (Middle) |
| <u>c/o Clyde Dolan, HNTB, Inc.</u> | | |
| <u>P. O. Box 3478</u> | | |
| (Street or P.O. Box) | | |
| <u>Casper</u> | <u>Natrona</u> | <u>Wyoming 82602</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Water Distribution & Valve Modification
facility located in Section 21, 28, 29, 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. Ogden
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

January 3, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. EDA 78-3M

City of Sheridan (EDA 77-4)
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|---|----------------------------|---------------------------------|
| <u>Marshall</u> (Last) | <u>M.</u> (First) | <u>Dean</u> (Middle) |
| <u>c/o Clyde Dolan, HNTB, Inc.</u> <u>P. O. Box 3478</u> | | |
| (Street or P.O. Box) | | |
| <u>Casper</u> (City) | <u>Natrona</u> (County) | <u>Wyoming 82602</u> (State) |

to construct, install, or modify a Water Transmission Main & Distribution Main
facility located in Section 2, 13, 14, T55N, 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 J. Dolan
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

January 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. EDA 78-4M

City of Sheridan Water System (EDA 77-3)
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|-------------------------|-----------------|----------------------|
| <u>City of Sheridan</u> | | |
| (Last) | (First) | (Middle) |
| <u>P. O. Box 848</u> | | |
| (Street or P.O. Box) | | |
| <u>Sheridan</u> | <u>Sheridan</u> | <u>Wyoming 82801</u> |
| (City) | (County) | (State) |

to construct, install, or modify a Water System Improvement
facility located in Section 3, 4, 14, 33, T56, 55N, 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 J. Galano
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

January 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New

Renewal

Permit No. 78-5M

Modified

Town of Midwest, Sewer System Improvement
(Name of Facility)

This permit hereby authorizes the applicant:

Town Hall c/o Jim Gores

(Last)

(First)

(Middle)

NHPQ, Inc.

625 East Madison, Suite 5

(Street or P.O. Box)

Riverton

(City)

(County)

Wyoming 82501

(State)

to construct, install, or modify a Sewage Collection & Lagoon

facility located in Section 25, T40N, 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.

Authorized by:

William P. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 3, 1978

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

*mailed
10/30/78*

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

PROJECT: Town of Midwest - Lagoon Influent Line Relocation

ARCHITECT OR ENGINEER: Nelson, Haley, Patterson & Quirk, Inc
625 E. Madison, Suite 5
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-5MR

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

DATE OF REVIEW: 10/23/78

ACTION: CONCURRENCE WITH AS BUILTS

COMMENTS:

This office does not issue permits for As Built system; however, this serves as concurrence with the relocation of lagoon influent line.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. EDA 78-6MRR

Saratoga Water and Sewerage System
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Saratoga
(Last) (First) (Middle)

P. O. Box 486
(Street or P.O. Box)

Saratoga Carbon Wyoming 82331
(City) (County) (State)

to construct, install, or modify a Water, Sewer & Lift Station Improvements
facility located in Town of Saratoga
(Legal Description)

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

Authorized by:

William P. O'Neil
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

March 2, 1978
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water, Sewer & Lift Station Improvements near Saratoga Inn,
Town of Saratoga, Carbon County

ARCHITECT OR ENGINEER: Western Engineers-Architects
501 North Sun Drive - Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: EDA 78-6MRR

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

DATE OF REVIEW: February 22, 1978

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

- 1). No construction shall be done without DEQ authorization on any lines designated on the plans as "future water lines" or "future sewer lines".
- 2). Packing and joint materials used in the joints of water mains shall meet the criteria set forth in the AWWA C111-72 Standard for Rubber Gasket Joints for Cast Iron and Ductile Iron Pressure Pipe and Fittings.
- 3). The raw sewage screening baskets in the lift station should be located above the high liquid level and should be easily removable for cleaning.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water, Sewer & Lift Station Improvements near Saratoga Inn,
Town of Saratoga - Carbon County

ARCHITECT OR ENGINEER: Western Engineers - Architects
501 North Sun Drive
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: EDA 78-6MR

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

DATE OF REVIEW: January 26, 1978

ACTION: CONSTRUCTION NOT AUTHORIZED PENDING COMPLIANCE WITH THE COMMENTS LISTED BELOW.

COMMENTS: (COMMENTS ARE NUMBERED THE SAME AS IN THE REVIEW OF DECEMBER 29, 1977 BEARING WATER QUALITY REFERENCE NUMBER EDA 78-6M).

B. Water Lines

1. Valve spacing on both proposed and future lines is inadequate. Where are the two additional valves which your letter of January 3, 1978 states, ". . . will be shown on the revised plans"?
2. The illustration on the plans is ambiguous; call for minimum of 10' separation and clarify to assure that the pipes themselves are not within that 10' separation.
3. Designate on the plans the disposition of the dead end on Texas Trail.
4. Specify the methods of making joints and the materials to be used.
5.
 - a. Also, specify a minimum cover at the location where Texas Trail crosses the river.
 - b. Specify flexible water tight joints on the underwater river crossings.
 - c. The valves must be able to isolate the river crossing sections and not be subject to flooding. One crossing has only one valve whereas two valves are required to isolate each crossing. To reduce interruption of service the crossing should be capable of isolation by operation of only one valve at each end of the crossing.
 - d. The corporation stops in each valve manhole at the river crossings shall be fitted to accomodate the insertion of water meters.

PROJECT: Water, Sewer & Lift Station Improvements near Saratoga Inn,
Town of Saratoga, Carbon County

WATER QUALITY REFERENCE NUMBER: EDA 78-6MR (CONT)

e. Blocking shall, also, be placed at all plugs.

C. Sewerage Improvements

1. Provide method of making joints and the materials to be used for each alternate sewer pipe type specified.
2. The lift station shall not be subject to flooding, i.e. bring fill at the lift station to a point at least 2 feet above the highest known water mark.
3. Clarify the location of the lift station valve pit in relation to the river. Also, provide a safety belt on the lift station access ladder to protect the operator while he is disconnecting a pump prior to its removal for repair or maintenance. The valve pit shall not be subject to entry of river water by seepage or flooding.
4. The pumps should be preceded by a bar screen, rack or removable basket accessible for maintenance from above. The screen openings shall not exceed 2-1/2 inches. Convenient facilities must be provided for handling screenings.
5. Set forth provisions for emergency power in the plans or in the specifications or submit a letter from the Town indicating its intention to provide emergency power equipment.

REVISED

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water, Sewer & Lift Station Improvements near Saratoga Inn, Town of Saratoga, Saratoga, Wyoming

ARCHITECT OR ENGINEER: Western Engineers & Architects, 501 North Sun Drive, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: EDA 78-6M

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

DATE OF REVIEW: December 28, 1977

ACTION: CONSTRUCTION NOT AUTHORIZED

COMMENTS:

- A. Submit two (2) copies of the plans and specifications.
- B. Water Lines
 - 1. Locate valves at not more than 500 feet intervals in commercial districts and at not more than one block or 800 foot intervals in other districts.
 - 2. Specify a minimum 10 foot horizontal separation, measured edge to edge, between all water and sewer lines.
 - 3. Where dead end mains occur, they shall be provided with a fire hydrant or an approved flushing hydrant or blow-off for flushing purposes. No flushing device shall directly connect to any sewer.
 - 4. Specify the types of joints to be used.
 - 5. Specify the following for the underwater river crossings:
 - a. A minimum cover of 2 feet over the pipe.
 - b. Flexible water tight joints.
 - c. Provide a valve at each end of the crossing so the section can be isolated for testing or repair; the valves shall be easily accessible, and not subject to flooding; and the valve closest to the supply source shall be in a manhole.
 - d. Permanent taps shall be made on each side of the valve within the manhole to allow insertion of a small meter for testing to determine leakage and for sampling purposes.

PROJECT: Water, Sewer & Lift Station Improvements near Saratoga Inn,
Town of Saratoga, Saratoga, Wyoming

REFERENCE NUMBER: EDA 78-6M

B. Water Lines (cont)

- e. All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement.

C. Sewerage Improvements

- a. Item "2 Scope" on page TS-1 of the specifications should be altered to include the sewerage improvements.
- b. Specify the method of making joints on sewer lines and the materials to be used.
- c. Specify that neither exfiltration or infiltration of the sewers shall exceed 200 gallons per inch per mile per day.
- d. Indicate the size of existing receiving sewer at manhole #28 on Pic Pike County Road and Richards Road junction.
- e. The force main shall be sloped to allow drainage of pump station discharge line.
- f. Is the top of the lift station above the highest known flood level?
- g. Submit design calculations on which the size of the pumps and the size of the lift station wet well are based. Design calculations shall include both peak and average daily flows.
 - 1). Each pump shall be capable of handling flows in excess of the maximum sewage flow at the operating discharge head.
 - 2). The effective capacity of the wet well shall provide a holding period not to exceed 10 minutes at the design average flow.
- h. Redesign the lift station to relocate the discharge piping valves in a pit offset from the wet well and to provide for convenient pump disconnect and removal from above without the necessity of entering the wet well. The control panel should be located in a dry and well ventilated place.
- i. Submit the design calculations covering sewage flows on which the sizes of the several sections of collector sewers are based.
- j. 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 2-1/2 inches. Convenient facilities must be provided for handling screenings.
- k. A check valve shall be placed on each pump discharge line between the shutoff valve and the pump.

PROJECT: Water, Sewer & Lift Station Improvements near Saratoga Inn,
Town of Saratoga, Saratoga, Wyoming

REFERENCE NUMBER: EDA 78-6M

- l. The wet well floor shall have a minimum slope of 1 to 1 to a hopper bottom. The horizontal area of the hopper bottom shall be no greater than necessary for proper installation and function of the inlet.
- m. Emergency power shall be provided in compliance with the "Recommended Standards for Sewage Works of the Great Lakes-Upper Mississippi River Board of State Sanitary Engineers".
- n. At design average flow, the force main shall have flow through it at a cleansing velocity of at least 2 feet per second.
- o. 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 system shall be arranged to independently ventilate the wet well. The wet well shall be ventilated by the mechanical introduction of fresh air into the wet well at the required rate. The valve shall be drained to the surface of the ground or to an absorption pit.
- p. 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.q., back up controls.
- q. 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 I locations.

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

January 11, 1978

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

Western Engineers & Architects
501 North Sun Drive
Casper, Wyoming 82601

RE: Water Quality Reference
Number: EDA78-6M

Gentlemen:

We are enclosing the revised second and third sheets of our plan review of December 28, 1977 pertaining to the above referenced plans.

Please replace these sheets of the original review with the enclosed sheets which were revised on January 10, 1978.

Sincerely,

Robert H. Pinther
Robert H. Pinther, P.E.
Environmental Engineer
Municipal Operations

RHP/do

Enclosure

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water, Sewer & Lift Station Improvements near Saratoga Inn, Town of Saratoga, Saratoga, Wyoming

ARCHITECT OR ENGINEER: Western Engineers & Architects, 501 North Sun Drive, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: EDA 78-6M

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

Robert H. Pinther

DATE OF REVIEW: December 28, 1977

ACTION: CONSTRUCTION NOT AUTHORIZED

COMMENTS:

A. Submit two (2) copies of the plans and specifications.

B. Water Lines

1. Locate valves at not more than 500 feet intervals in commercial districts and at not more than one block or 800 foot intervals in other districts.
2. Specify a minimum 10 foot horizontal separation, measured edge to edge, between all water and sewer lines.
3. Where dead end mains occur, they shall be provided with a fire hydrant or an approved flushing hydrant or blow-off for flushing purposes. No flushing device shall directly connect to any sewer.
4. Specify the types of joints to be used.
5. Specify the following for the underwater river crossings:
 - a. A minimum cover of 2 feet over the pipe.
 - b. Flexible water tight joints.
 - c. Provide a valve at each end of the crossing so the section can be isolated for testing or repair; the valves shall be easily accessible, and not subject to flooding; and the valve closest to the supply source shall be in a manhole.
 - d. Permanent taps shall be made on each side of the valve within the manhole to allow insertion of a small meter for testing to determine leakage and for sampling purposes.

PROJECT: Water, Sewer & Lift Station Improvements near Saratoga Inn,
Town of Saratoga, Saratoga, Wyoming

REFERENCE NUMBER: EDA 78-6M

B. Water Lines (cont)

- e. All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement.

C. Sewerage Improvements

- a. Item "2 Scope" on page TS-1 of the specifications should be altered to include the sewerage improvements.
- b. Specify the method of making joints on sewer lines and the materials to be used.
- c. Specify that neither exfiltration or infiltration of the sewers shall exceed 200 gallons per inch per mile per day.
- d. Indicate the size of existing receiving sewer at manhole #28 on Pic Pike County Road and Richards Road junction.
- e. The force main shall be sloped to allow drainage of pump station discharge line.
- f. Is the top of the lift station above the highest known flood level?
- g. Submit design calculations on which the size of the pumps and the size of the lift station wet well are based. Design calculations shall include both peak and average daily flows.
 - 1). Each pump shall be capable of handling flows in excess of the maximum sewage flow at the operating discharge head.
 - 2). The effective capacity of the wet well shall provide a holding period not to exceed 10 minutes at the design average flow..
- h. Redesign the lift station to relocate the discharge piping valves in a pit offset from the wet well and to provide for convenient pump disconnect and removal from above without the necessity of entering the wet well. The control panel should be located in a dry and well ventilated place.
- i. Submit the design calculations covering sewage flows on which the sizes of the several sections of collector sewers are based.
- j. 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 2-1/2 inches. Convenient facilities must be provided for handling screenings.
- k. A check valve shall be placed on each pump discharge line.

PROJECT: Water, Sewer & Lift Station Improvements near Saratoga Inn,
Town of Saratoga, Saratoga, Wyoming

REFERENCE NUMBER: EDA 78-6M

- l. The wet well floor shall have a minimum slope of 1 to 1 to a hopper bottom. The horizontal area of the hopper bottom shall be no greater than necessary for proper installation and function of the inlet.
- m. Emergency power shall be provided in compliance with the "Recommended Standards for Sewage Works of the Great Lakes-Upper Mississippi River Board of State Sanitary Engineers".
- n. At design average flow, the force main shall have flow through it at a cleansing velocity of at least 2 feet per second.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. EDA 78-7M

Rawlins Municipal Water Supply
(Name of Facility)

This permit hereby authorizes the applicant:

City of Rawlins
(Last) (First) (Middle)
P. O. Box 953
(Street or P.O. Box)
Rawlins Carbon Wyoming 82301
(City) (County) (State)

to construct, install, or modify a 20" & 12" Water Main & 2 Pressure Reducing Valve Stations
facility located in the City of Rawlins
(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 S. Galan
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 3, 1978
Date of Issuance

cc: Meurer, Serafini & Meurer, Inc.
570 West 44th Avenue at Fox Street
Denver, CO 80216

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: 20" and 12" Water Mains and Two Pressure Reducing Valve Stations
for the City of Rawlins, Carbon County, Wyoming

ARCHITECT OR ENGINEER: Meurer, Serafini & Meurer, Inc.
ATTN: Thomas S. Kolkman
570 West 44th Avenue - Denver, CO 80216

WATER QUALITY DIVISION REFERENCE NUMBER: EDA 78-7M

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

DATE OF REVIEW: February 2, 1978

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-8

Rissler Development
(Name of Facility)

This permit hereby authorizes the applicant:

Rissler Development Company
(Last) (First) (Middle)
P. O. Box 757
(Street or P.O. Box)
Mills Natrona Wyoming 82644
(City) (County) (State)

to construct, install, or modify a Septic Wastewater
facility located in Section 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.

Authorized by:

William J. Galand
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

January 11, 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. 78-9

Dick Jones Residence

(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|---|----------------------------|---------------------------------|
| <u>Jones</u> (Last) | <u>Dick</u> (First) | <u></u> (Middle) |
| <u>5017 Alcova Route - Box 22</u> (Street or P.O. Box) | | |
| <u>Casper</u> (City) | <u>Natrona</u> (County) | <u>Wyoming 82601</u> (State) |

to construct, install, or modify a Electro Osmosis Disposal
facility located in Section 27, 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 J. Jones
Administrator
Water Quality Division

Robert E. Seaman
Director
Wyoming Dept. of Environmental Quality

January 11, 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. 178-9R

Ten Sleep Water Distribution System
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|------------------------------|-----------------|----------------|
| <u>Town of Ten Sleep</u> | | |
| (Last) | (First) | (Middle) |
| <u>Town Hall, P.O. Box 5</u> | | |
| (Street or P.O. Box) | | |
| <u>Ten Sleep</u> | <u>Washakie</u> | <u>Wyoming</u> |
| (City) | (County) | (State) |

to construct, install, or modify a water distribution system
facility located in Sections 6 and 17 T. 47N R.88W
(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.

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Burden
Director
Wyoming Dept. of Environmental Quality

August 11, 1978
Date of Issuance

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

mailed-
10/19/78

New

Renewal

Modified

Permit No. 178-10R

ELSON NO. 1 RESERVOIR

(Name of Facility)

This permit hereby authorizes the applicant:

OCLE PETROLEUM INC.

(Last)

(First)

(Middle)

150 N. NICHOLS AVE.

(Street or P.O. Box)

CASPER, WYO.

(City)

(State)

822012201

(Zip Code)

to construct, install, or modify a

EVAPORATION

facility located in SEC.25 T27N R.97W

(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. Anderson

Director
Department of Environmental
Quality

SEPTEMBER 15, 1978.

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-12R

Irigaray Mine Site

(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming Mineral Corp.

(Last)

(First)

(Middle)

3900 So. Wadsworth Blvd.

(Street or P.O. Box)

Lakewood, Co 80235

(City)

(County)

(State)

to construct, install, or modify a wastewater evaporation ponds

facility located in Sec8,9 T45N R77W

(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 P. Garland
 Administrator
 Water Quality Division

Robert E. Jordan
 Director
 Wyoming Dept. of Environmental Quality

6-30-78

Date of Issuance

NOTE: See conditions attached to this permit.



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

Permit No. 78-12R

Conditions attached to Water Quality Division Permit to Construct, Reference No. 78-12R, issued to Wyoming Mineral Corporation.

The leak detection piping, underlying the evaporation ponds, is to be monitored by a suitable sampling device a minimum of once per week. The monitoring for each pond is to commence at the same time operation of that pond begins. The monitoring for each pond is to be continued until that pond has been reclaimed. Records of the monitoring are to be kept, and made available to inspectors of the Department of Environmental Quality.

If at any time water is detected in the piping, the Water Quality Division is to be notified by telephone as soon as possible. A sample of the water in the piping is to be obtained if at all possible and analyzed for Sulfates, Total Dissolved Solids and if possible Total Radium 226.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-13M

Senior Citizen's Centers
(Name of Facility)

This permit hereby authorizes the applicant:

Senior Citizen's Centers
(Last) (First) (Middle)
c/o George W. Tresler
P. O. Box 1050
(Street or P.O. Box)
Cody Park Wyoming 82414
(City) (County) (State)

to construct, install, or modify a Senior Citizen's Centers Water & Sewer Mains
facility located in Lovell and Greybull, Wyoming
(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 P. Gable
Administrator
Water Quality Division

Robert E. Linder
Director
Wyoming Dept. of Environmental Quality

February 3, 1978
Date of Issuance

JH

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: A & T Mobile Home Park - Water & Wastewater Facilities,
Section 23, T1N, R4E - Fremont County

ARCHITECT OR ENGINEER: Wind River Engineers, 2333 Rose Lane, Riverton,
Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-14RR

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

DATE OF REVIEW: May 15, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

WATER SYSTEM

- 1). The blowoff valves as shown in the specifications are not acceptable. The blowoff valve must terminate at least one (1) foot above ground and have a screened downward turned elbow.
- 2). Chapter III Regulations will require a peak flow of 385 gpm plus fire flows. This requires a total peak flow of 885 gpm. If one pump is out of service, the peak flows cannot be provided.
- 3). The details of the area of the termination of the tank drain are not clear. Can the water in the pond reach an elevation that will submerge the drain?
- 4). We will allow the tanks for water hammer protection but not as part of the pump control. To reduce the total head on the pumps, there should be a pressure bypass in the system.
- 5). Where is the polyethylene pipe going to be used?

SEWER SYSTEM

- 6). The slope of the lines between MH^H6 to MH6-A and MH D-1 to MH D-1-A need to be increased.
- 7). The flow measuring device needs to be more accessible or a remote readout should be used.
- 8). Can the flow measuring device measure flows within a 10% accuracy?
- 9). Due to the number of comments, this cannot be considered a final review.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-14RRR

A & T Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

A & T Enterprises
(Last) (First) (Middle)
c/o Frank Andrews
Broadway and Park
(Street or P.O. Box)
Riverton Fremont Wyoming 82501
(City) (County) (State)

to construct, install, or modify a Water Supply and Sewage Treatment
facility located in Section 23, T1N, R4E
(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. Ojala
Administrator
Water Quality Division

Robert E. Bordin
Director
Wyoming Dept. of Environmental Quality

June 14, 1978

Date of Issuance
cc: Wind River Engineers, 2333 Rose Lane, Riverton, Wyoming 82501

JH

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: A & T Mobile Home Park, Water & Wastewater Facilities
Section 23, T1N, R4E, Fremont County

ARCHITECT OR ENGINEER: Wind River Engineers, ATTN: Elmo G. Peterson, P.E.,
P. O. Box 1369, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-14R

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

DATE OF REVIEW: March 7, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1). The map of the 100 year flood zone was not enclosed. Please provide.
- 2). Two (2) sets of plans and specifications are required.

WATER SYSTEM

- 3). All main water lines must be no smaller than six inches.
- 4). All dead end lines must have a blowoff or hydrant on the end.
- 5). The booster pumps should have the capability to handle fire flow plus minimum daily flow. Your present pumps cannot do this.
- 6). In order to isolate the storage tank for maintenance, a bypass is needed from the well to the distribution system.
- 7). The drain from storage tank cannot be connected to the storm sewer.
- 8). We are still concerned about the use of the hydropneumatic tanks. The standards indicate the tanks cannot be used in a system designed for fire flows. They should only be used on small facilities (under 50 homes). To avoid excessive pressures in the system there should be a pressure regulated bypass back to the storage tank.

WASTEWATER SYSTEM

- 9). An overflow line from the lift station wet well is not allowed.

PROJECT: A & T Mobile Home Park, Water and Wastewater Facilities
Section 23, T1N, R4E, Fremont County

WATER QUALITY REFERENCE NUMBER: 78-14R (CONT)

- 10). Provisions must be made for measuring flow from the lagoon cell drain lines.
- 11). A discharge permit application is still needed.
- 12). The slopes of the sewer lines do not meet the requirements of Appendix A, Chapter III Regulations.
- 13). What will be done with the screenings from the lift station?
- 14). Are there locking devices on the drain valves to prevent unauthorized discharges?
- 15). The discharge from drain lines should be chlorinated.

cc: A & T Enterprises, Inc.
c/o Frank Andrews
Broadway and Park
Riverton, Wyoming 82501

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: A & T Mobile Home Park - Water & Waste Treatment Facility
Section 23, T1N, R4E - Riverton Wyoming - Fremont County

ARCHITECT OR ENGINEER: Wind River Engineers
ATTN: Elmo G. Peterson, P.E.
P. O. Box 1369 - Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-14

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

DATE OF REVIEW: January 13, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1). Are the wastewater treatment facility and the well pump house out of the 100 year flood zone?

WATER SYSTEM

WELLS

- 2). Please supply manufacturer's pitless adapter details.
- 3). Please supply sanitary well seal details (i.e. venting, etc.).
- 4). It is recommended that two tanks be used for the hypochlorite system - one for mixing and one for feeding.
- 5). Is a mechanical mixer needed for mixing the hypochlorite?
- 6). A bypass is needed around the water meter to provide for maintenance and repair.
- 7). Well disinfection specifications are needed.
- 8). Bacteriological and chemical analysis of the well water is needed and should be supplied to us upon completion of the well.
- 9). Provide drop pipe material and specifications.

WATER TANK

- 10). This Department has no information on the existing City of Riverton fiberglass reinforced tank. It does not meet AWWA D-100 criteria. Therefore, we need a complete structural analysis of the tank and foundation to indicate that it will provide satisfactory service.

PROJECT: A & T Mobile Home Park - Water & Waste Treatment Facility
Section 23, T1N, R4E - Riverton Wyoming - Fremont County

REFERENCE NUMBER: 78-14 (CONT)

- 11). Information is needed that the fiberglass reinforced plastic and the gel coating is suitable for potable water installations. It should be AWWA, NSF, EPA or FDA approved for potable water.
- 12). Please provide details of the ventilator dome.
- 13). Provide details of the manhole. It shall be framed at least four inches and preferably six inches above the roof surface. It shall be fitted with a solid watertight cover which overlaps the opening and extends down around the side at least two inches. It shall be locked and should be hinged.
- 14). The outlet pipe needs a removable silt stop.
- 15). Please provide details of the overflow. The end of the overflow pipe shall open downward and be screened with twenty four mesh screen. It must discharge at least 12-24 inches above the receiving ditch or splash plate.
- 16). The above criteria (15) also applies to the drain line.
- 17). Does the reservoir access ladder conform to OSHA requirements?

WATER DISTRIBUTION SYSTEM

- 18). What is the purpose for using both variable speed pumps and hydro-pneumatic tanks in the system?
- 19). Each hydro-pneumatic tank shall have an access manhole, drain and applicable control equipment such as pressure gages, sight glasses, air blowoffs, means of adding air, etc.
- 20). The hydro-pneumatic tanks must meet ASME code requirements.
- 21). All PVC water pipe shall meet AWWA C900-75 criteria.
- 22). All water systems utilizing fire flow shall have no main line smaller than six inches in diameter.
- 23). Blowoffs or fire hydrants are needed at the end of all dead end lines.
- 24). Blowoffs must end in a screened downward turning elbow at least one foot above ground. This must be a permanent type installation.
- 25). Can the water pumps be easily removed? Overhead hatches or a hoist appear to be needed.

WASTEWATER SYSTEM

- 26). It is highly recommended that steeper slopes be utilized whenever possible. Shallow sewer line slopes will create many maintenance problems.

PROJECT: A & T Mobile Home Park - Water & Waste Treatment Facility
Section 23, T1N, R4E - Riverton Wyoming - Fremont County

REFERENCE NUMBER: 78-14 (CONT)

- 27). All sewers shall be installed with a straight alignment between manholes.
- 28). Cleanouts may be installed at the end of a lateral only if the lateral is less than 150 feet in length. Otherwise a manhole is needed.
- 29). Please supply details of a typical cleanout.
- 30). Detailed specifications are required for bedding and backfilling the sewer pipe in order to prevent excessive sidefill pressure or ovalation. The use of a deflection testing device is highly recommended (i.e. Go-No Go Pig at 5% deflection).
- 31). All individual sewer risers shall terminate a minimum of four inches above the natural ground. It shall be protected by concrete a minimum of four inches thick and twelve inches in diameter.
- 32). Does the drain (12 inch PVC) presently exist all the way to the canal? What does the line carry?

LIFT STATION AND CONTROL BUILDING

- 33). Each lift pump in a two pump lift station must be able to handle peak flows. The present pumps are too small to handle 300 units.
- 34). This Department is very concerned about the amount of suction lift. Please submit to us in detail, an analysis of the NPSH available and allowable suction lift.
- 35). The wet well floor shall have a minimum slope of 1 to 1 to the hopper bottom.
- 36). Floor drains are needed in the control building.
- 37). All lift pumps shall be capable of passing a three inch sphere.
- 38). Can the pumps and blowers be easily removed for servicing? It appears that overhead hatches or hoists are needed.
- 39). To prevent septic conditions and odors in the wet well, the effective capacity of the wet well should be no greater than 10 minutes at average daily flow. You presently have 20 minutes. The float levels should be adjusted accordingly.
- 40). Where will the alarm light or horn be located indicating pump failure?
- 41). Each suction line shall have shutoff valves. Will these be provided?
- 42). Will a check valve and shutoff valve be provided for each pump discharge line?

PROJECT: A & T Mobile Home Park - Water & Waste Treatment Facility
Section 23, T1N, R4E - Riverton Wyoming - Fremont County

REFERENCE: 78-14 (CONT)

WASTEWATER LAGOONS

- 43). Please submit a specification covering compaction of the cell bottoms.
- 44). It is recommended that the effluent structure from cell number three have provisions for selective drawoff so that effluent of the highest quality be withdrawn.
- 45). A discharge permit is needed for the discharge. Enclosed is an application.
- 46). How will flow monitoring be done? The discharge permit will require an instantaneous flow measurement accurate to $\pm 10\%$.
- 47). It is recommended that the drain lines from each cell not be installed. The discharge permit must cover these possible discharge points if you install them.
- 48). Submit warning sign details.
- 49). Due to lack of sufficient historical operating information, we must reluctantly authorize the use of a tablet chlorinator. The effluent should be monitored closely to determine if satisfactory coliform and chlorine residual numbers are being met. Non-conformance with the numbers in the discharge permit could result in very stiff penalties.
- 50). This cannot be considered a final review.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Clear View Estates, Water & Sewer System
Green River Wyoming - Sweetwater County

ARCHITECT OR ENGINEER: William F. Carder, P.E. - Bennett-Carder & Associates, Inc.
P. O. Box 1324
Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 78-15

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

DATE OF REVIEW: ~~December 28, 1978~~ 1-9-78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:
GENERAL

- 1). Please have owner or owners designated representative fill out and submit two copies "Application for Permit to Construct, Install, or Modify Public Water Supplies and Waste Facilities in Wyoming."
- 2). A letter is needed from the Town of Green River stating that they approve and accept the subdivision.
- 3). Provide design criteria (i.e. - population, flows, etc.).
- 4). Due to the lack of information this cannot be considered a complete review.

WATER SYSTEM

- 1). Complete specifications are needed for the installation. Please supply us with copies of the P P & L specifications if you are referring to them.
- 2). 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.

SEWER SYSTEM

- 1). Complete specifications are needed. Please supply us with copies of the Town of Green River specifications if you are referring to them.

REVIEW OF PLANS AND SPECIFICATIONS

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

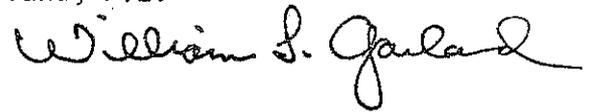
PROJECT: Clear View Estates, Water & Sewer System
Green River, Wyoming - Sweetwater County

ARCHITECT OR ENGINEER: Bennett-Carder & Assoc. - ATTN: William F. Carder, P.E.
P. O. Box 1324 - Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 78-15R

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

DATE OF REVIEW: March 2, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Complete specifications are still needed for the water system installation.
(i.e. disinfection, bedding, backfill, pressure, leakage testing, etc.).

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-15RR

Clear View Estates

(Name of Facility)

This permit hereby authorizes the applicant:

Pioneer Specialists of Wyoming, Inc.

(Last)

(First)

(Middle)

P. O. Box 826

(Street or P.O. Box)

Green River

(City)

Sweetwater

(County)

Wyoming 82935

(State)

to construct, install, or modify a Waste Collection and Water Distribution
facility located in Section 27, T18N, R107W
(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. Gable
Administrator
Water Quality Division

Robert E. Durbin
Director
Wyoming Dept. of Environmental Quality

May 24, 1978

Date of Issuance

cc: Bennett-Carder & Assoc., P. O. Box 1324, Rock Springs, Wyoming 82901

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-16

Contractor Supply System
(Name of Facility)

This permit hereby authorizes the applicant:

Contractor Supply
(Last) (First) (Middle)
c/o Larsen Engineering
316 South Gillette Avenue
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Septic Wastewater
facility located in Section 2, 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. Ireland
Administrator
Water Quality Division

Robert E. Lardin
Director
Wyoming Dept. of Environmental Quality

January 13, 1978

Date of Issuance

8-8



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 8, 1985

Mr. Strat Murdock
Pathfinder Mine
Shirley Basin, WY 82615

RE: Renewal of Construction Permits #78-17R, 78-18R, 78-20R, 78-21R,
78-22R

Dear Mr. Murdock:

In order to renew the construction permits for the above referenced sedimentation ponds, the following areas need to be addressed:

1. Riprap is necessary on the spillway to prevent erosion. Specs are needed on the location, size, gradation, etc.
2. An evaluation must be made as to whether riprap is necessary on the constructed dike.
3. The inlet ditches must have mechanisms in them that will prevent erosion and disturbance of the pond bottom.
4. More specifications are necessary on the dike construction as to material type, maximum rock size, maximum lifts, allowable moisture content, etc.

Once these items are adequately addressed, a renewed permit can be issued.

Sincerely,

Thomas S. Norman
Water Quality Engineer

TSN/nc

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-17R

Reservoir 7W4

(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corp.

(Last)

(First)

(Middle)

Shirley Basin Mine

(Street or P.O. Box)

Shirley Basin

(City)

(County)

Wyoming 82615

(State)

to construct, install, or modify a Runoff Containment

facility located in Section 26, T28N, R78W

(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 5 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Oland
Administrator
Water Quality Division

Robert E. Lardin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-18R

Reservoir 3N1
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corp.
(Last) (First) (Middle)

Shirley Basin Mine
(Street or P.O. Box)

Shirley Basin Wyoming 82615
(City) (County) (State)

to construct, install, or modify a Runoff Containment
facility located in Section 26, T28N, R78W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 5 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. Lundin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 78-19R

Reservoir 7W6
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)

Shirley Basin Mine
(Street or P.O. Box)

Shirley Basin Wyoming 82615
(City) (County) (State)

to construct, install, or modify a Runoff Containment
facility located in Section 26, T28N, R78W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 5 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. Sundin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-20R

Reservoir 7W5
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)

Shirley Basin Mine
(Street or P.O. Box)

Shirley Basin Wyoming 82615
(City) (County) (State)

to construct, install, or modify a Runoff Containment
facility located in Section 26, T28N, R78W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 5 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

April 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-21R

Reservoir 7W2
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)
Shirley Basin Mine
(Street or P.O. Box)
Shirley Basin Wyoming 82615
(City) (County) (State)

to construct, install, or modify a Runoff Containment
facility located in Section 23, T28N, R78W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 5 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

April 3, 1978
Date of Issuance

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 78-22R

Reservoir 7W3
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)

Shirley Basin Mine
(Street or P.O. Box)

Shirley Basin Wyoming 82615
(City) (County) (State)

to construct, install, or modify a Runoff Containment
facility located in Section 23, T28N, R78W
(Legal Description)

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

Authorized by:

William S. Gaudin
Administrator
Water Quality Division

Robert E. Sandlin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-23R

Reservoir 7E1
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)

Shirley Basin Mine
(Street or P.O. Box)

Shirley Basin Wyoming 82615
(City) (County) (State)

to construct, install, or modify a Runoff Containment

facility located in Section 25, T28N, R78W
(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 5 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. O'Quinn
Administrator
Water Quality Division

Robert E. Curdin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-24R

Reservoir 7E2
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)
Shirley Basin Mine
(Street or P.O. Box)
Shirley Basin Wyoming 82615
(City) (County) (State)

to construct, install, or modify a Runoff Containment
facility located in Section 25, T28N, R78W
(Legal Description)

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

Authorized by:

William P. Oueland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-25R

Reservoir 7E3

(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation

(Last)

(First)

(Middle)

Shirley Basin Mine

(Street or P.O. Box)

Shirley Basin

(City)

(County)

Wyoming 82615

(State)

to construct, install, or modify a Runoff Containment

facility located in Section 25, T28N, R78W

(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 5 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 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 78-26R

Reservoir 7E4
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)

Shirley Basin Mine
(Street or P.O. Box)

Shirley Basin Wyoming 82615
(City) (County) (State)

to construct, install, or modify a Runoff Containment

facility located in Section 25, T28N, R78W
(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 5 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Quilley
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-27R

Reservoir 7W1
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)

Shirley Basin Mine
(Street or P.O. Box)

Shirley Basin Wyoming 82615
(City) (County) (State)

to construct, install, or modify a Runoff Containment
facility located in Section 25, T28N, R78W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 5 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

April 3, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

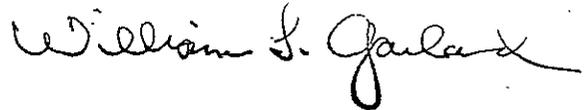
PROJECT: Lucky Mc Uranium Corp. Wastewater Ponds (11)
T28N, R78W - Carbon County Wyoming

ARCHITECT OR ENGINEER: George Hoffman - Stratford Murdock
Shirley Basin Mine
Shirley Basin, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-17 through 78-27

REVIEWING ENGINEER: Jake Strohman - William L. Garland, P.E.

DATE OF REVIEW: January 16, 1978



ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS:

- 1). Furnish dike compaction specifications.
- 2). A part of your discharge permit reads as follows: "Sufficient design shall be defined by the following criteria:
 - b. Impoundment structures and sediment retention basins shall be designed to provide for full recovery down to the permanent pool storage elevation within fifteen (15) days after the runoff condition above by decanting, pumping, irrigation or other measures. These basins shall be designed to give a minimum of five (5) days retention prior to drawing down to permanent pool."

Forward these designs for each facility.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-28

Rawhide Ranch Camp
(Name of Facility)

This permit hereby authorizes the applicant:

Deveraux Jerome C
(Last) (First) (Middle)
Painter Star Route
(Street or P.O. Box)
Cody Park Wyoming 82414
(City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 12, T55W, T105W
(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:

[Signature]
Administrator
Water Quality Division

[Signature]
Director
Wyoming Dept. of Environmental Quality

January 23, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-29

Belle Ayre Mine Pond #1
(Name of Facility)

This permit hereby authorizes the applicant:

AMAX Coal Company
(Last) (First) (Middle)
ATTN: Ted Terrel
205 South Ross Avenue
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Mine Water Treatment Pond
facility located in Section 33, T48N, R71W
(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 S. Adams
Administrator
Water Quality Division

Robert E. Auer
Director
Wyoming Dept. of Environmental Quality

February 8, 1978

Date of Issuance

NOTE: This permit does not authorize discharge from any point other than that authorized in NPDES Permit WY-0003514. The request to modify the discharge permit has been forwarded to Mr. John Wagner of this office.

4-13-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-30 RR

Targhee Village
(Name of Facility)

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

Targhee Village Inc.
477 West 4125 North
Ogden, UT

to construct, install, or modify a water source, a water storage and distribution
system, a sewage collection and treatment

facility according to the procedures and conditions of the

application No. 78-30 RR. The facility is located in

Sec. 32, T44N, R118W

in the County of Teton,

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

Book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-30RR

Targhee Village, Inc.

(Name of Facility)

This permit hereby authorizes the applicant:

Targhee Village Inc., % Robert Ebeling
 (Last) (First) (Middle)

616 West 5th North
 (Street or P.O. Box)

Brigham City, Utah 84302
 (City) (County) (State)

to construct, install, or modify a water supply & sewage treatment

facility located in Sec 29 T44N R118W
 (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. O'Connell
 Administrator
 Water Quality Division

Robert E. Lundin
 Director
 Wyoming Dept. of Environmental Quality

6-29-78
 Date of Issuance

cc: Bob Ablondi, Teton County
 Peter M. Jorgensen, P.O. Box 1142, Jackson, Wyoming 83001

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Targhee Village Inc., Water and Wastewater System
Teton County

ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E., P. O. Box 1142, Jackson,
Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-30R

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

DATE OF REVIEW: May 5, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

WATER SYSTEM

- 1). The open end of all air relief pipes and blowoffs shall extend above grade and be provided with a screened downward turned elbow. The end of the pipe should terminate at least one (1) foot above the ground surface. The blowoffs should be built like a hydrant, i.e, stop and waste valve after the main valve or no drain at all. No drain is preferable in high ground water.
- 2). The water sewer line crossings do not meet the requirements of Section 15, Chapter III, Water Quality Rules and Regulations.
- 3). Water line #8 has to be six (6) inch diameter or larger.
- 4). The vent on the well casing must be 1.5 inches in diameter and end at and above the well casing.
- 5). Can the water meter be repaired without taking the well out of service? A bypass around the meter may be needed.
- 6). Ten State Standards require steel water tanks to meet AWWA D100-73. The tank proposed does not meet these standards.
- 7). Will the 1,000,000 gallons of water be available for fire flows at all times? If not, storage in domestic water supply should be increased.
- 8). Thirty (30) minutes contact time is required before the first usage after the application of chlorine.

PROJECT: Targhee Village Inc., Water and Wastewater System

WATER QUALITY REFERENCE NUMBER: 78-30R

WATER SYSTEM (CONT)

- 9). Why the pit in the chlorine room? It should be avoided.
- 10). The chlorine room does not meet the requirements of Section 5.4.1 of the Ten State Standards.
- 11). Safety equipment should be provided, i.e. self-contained air mask, ammonium, etc.

SEWER SYSTEM

- 12). Manhole shall be placed no further than 400 feet apart.
- 13). The specification for excessive sidefill pressure and ovalation is to provide protection against poor backfill practices also.
- 14). A chlorine contact chamber is needed which provides a minimum detention time of 15 minutes at peak flow.
- 15). The same comments concerning the chlorination facility for the water supply apply to the wastewater facility.
- 16). All discharges to the water hazards and streams will require chlorination and be required to meet the requirements of a permit to discharge.
- 17). Provide details of the flow meter.
- 18). What provisions have been made for emergency power of the lagoon lift station?
- 19). Is the wastewater treatment facility completely out of the 100 year flood zone? If not, provide details for flood protection.
- 20). Provide details of discharge line to pond #3 and inlet structure.
- 21). The water hazards may require a permit from the State Engineer.
- 22). We have reservations concerning the O₂ transfer rates indicated. The ability of the waste treatment facility to meet the discharge permit conditions is the responsibility of the owner.
- 23). Due to the number of comments, this cannot be considered a final review.
- 24). A Permit to Discharge will be required.

cc: John A. Melehes, 477 West 4125 North, Ogden, Utah
Targhee Village Inc., c/o Robert Ebeling, 616 West 5th North, Brigham
City, Utah 84302
State Engineer

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Targhee Village, Inc.
Water and Wastewater System - Teton County Wyoming

ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E.
P. O. Box 1142
Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-30

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

DATE OF REVIEW: January 6, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:
WATER LINES

WATER SYSTEM

- 1). The installed pipe should be pressure tested and leakage tested in accordance to AWWA C600. This includes a two hour leakage test.
- 2). All fire hydrants shall meet applicable AWWA Standards. Please insert this into the specifications.
- 3). All fire hydrants shall be located at least ten feet from any sewer line.
- 4). Please indicate the class of AWWA C900 pipe to be used in this project.
- 5). Submit details of the air release valve and pit.
- 6). Supply a detailed drawing of the blowoffs (drains).
- 7). Water and sewer line crossings shall conform to Section 15, Chapter III, Water Quality Rules and Regulations.
- 8). The six inch east-west line must have a fire hydrant or blowoff on the west end
OR
The line to the sewage lagoon changed to a six inch line and provided with a hydrant or blowoff. Provide details.
- 9). Please provide details of the flush and wash valve at the blower building.
- 10). Provide well casing details (i.e. - material with specifications, weight per foot, thickness, etc.).

PROJECT: Targhee Village, Inc. - Water and Wastewater System - Teton County Wyoming
WATER QUALITY REFERENCE NUMBER: 78-30 (CONT)

- 11). Please provide drop pipe material and specifications.
- 12). A hatch or manway is needed over the well for pulling the pump out.
- 13). A vent is needed. Provide details.
- 14). Are deep well pump controls and air release-vacuum relief valves needed?
- 15). More detailed well disinfection specifications are needed. Reference to Wyoming Department of Health and Social Services publication will not suffice.
- 16). A check valve is needed in the discharge line.
- 17). Provisions should be made for measuring the flow.
- 18). Please supply the building floor drain details.
- 19). Does the tank conform to AWWA D-100 or better? A complete structural analyses of the tank and footings are needed. Can two footings with supports adequately prevent buckling of the tank?
- 20). All coatings used should meet AWWA D-101 standards and must be EPA, FDA or NSF approved for use with potable water. Does the epoxy coating meet this criteria? Provide details.
- 21). Please provide outside coating details (if used).
- 22). Please provide details of the insulating foaming procedure.
- 23). The tank manhole shall be framed at least four inches and preferrably six inches above the roof surface. This manhole shall be fitted with a solid water tight cover which overlaps the framed opening and extends down around the side at least two inches. This manhole cover should be hinged and locked.
- 24). The overflow shall be below the top of the tank roof.
- 25). The end of the above overflow shall be placed at least 12-18 inches above the drainage trench.
- 26). A silt stop is needed in the reservoir.
- 27). A vent is needed. Provide details.
- 28). The reservoir drain should be at the bottom of the tank.
- 29). Provide storage tank disinfection procedures. It should be disinfected in accordance to AWWA D-102, Section 5.

PROJECT: Targhee Village, Inc. - Water and Wastewater System - Teton County Wyoming

WATER QUALITY REFERENCE NUMBER: 78-30 (CONT)

- 30). The steel pipe material specifications need to be provided.
- 31). Will thrust blocking be needed in the inflow-outflow line to the water storage tank at Sta. 9 + 15 and 10 + 20 to prevent the pipe from coming apart?
- 32). We are concerned about the size of the storage tank. It is recommended that it be able to hold one average daily flow plus fire flows,
- 33). Manholes shall be placed no further than 400 feet apart. There are many lines in which the spacing is greater than this.
- 34). The minimum allowable slope for 8 inch sewer line is 0.004. Collection line 7 has a slope less than this. A lower slope is allowable if it can be justified in detail by the designing engineer.
- 35). Detailed specifications are required for bedding and backfilling the sewer pipe in order to prevent excessive side fill pressures or ovalation. The use of a deflection testing specification is highly recommended (i.e. - Go-No-Go Pig at 5% deflection).
- 36). Please provide complete design criteria for the lift station (i.e. - peak flows, average flows, etc.).
- 37). Please indicate the elevation levels for the floats (i.e. - pump shutoff, turn on, emergency alarm).
- 38). Address power outages.
- 39). The vent should end in a downward turning elbow with a screen on the end.
- 40). The drain from the valve pit should go to a drainage pit, not back to the wet well (i.e. - chance of gas buildup in pit).
- 41). An overflow to an outside ditch is not allowed.
- 42). Provide detailed pipe material specifications for the force main.
- 43). The overflow pipes will require a discharge permit.
- 44). Submit details of the wet well following the lagoon.
- 45). Our calculations indicate there isn't enough surface area to evaporate the total flow. If any of the effluent is used to irrigate the golf course or other areas a discharge permit will be required or the areas irrigated will have to meet the land application requirements. Please provide a water balance of the waste treatment facility.
- 46). The water going to the water traps will have to be chlorinated and monitored. Depending upon the water balance more monitoring parameters may be required.
- 47). Provide details of the receiving ponds (i.e. - size volume, etc.).

PROJECT: Targhee Village - Water and Wastewater System - Teton County Wyoming

WATER QUALITY REFERENCE NUMBER: 78-30 (CONT)

- 48). Please provide breakdown for the influent organic loading. It appears the calculated BOD loading is too small and consequently an insufficient amount of air is being added.
- 49). Flow monitoring will be required on all discharges. Provide details.
- 50). It appears from looking at the contour lines that the lagoons may be in a natural drainage. It must be protected from at least a 100 year flood. Provide hydrologic design data for designing the drainage ditches around the system. It is highly recommended that the lagoons not be built in a natural drainage.
- 51). The overflow from cell #2 should have the provision for selective draw off from various depths in order to obtain the best effluent at various times of the year.
- 52). Details are needed for the blower building, At least two blowers, each capable of providing enough air, is needed.
- 53). Warning signs are needed. Please provide details.
- 54). Where is the gate and dirt ramp to the lagoon dikes?
- 55). Provide details of the gas cleaning system and procedure.
- 56). Due to the number of comments, this cannot be considered a complete review. Ten State Standards should be used as a guide for re-submission of your application.

cc: John A. Melehes
477 West 4125 North
Ogden, Utah

Targhee Village, Inc.
c/o Robert Ebeling
616 West 5th North
Brigham City, Utah

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-32

Zero Road Industrial Park
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|---|----------------------------|---------------------------------|
| <u>O'Quin</u> (Last) | <u>Richard</u> (First) | <u>C</u> (Middle) |
| <u>c/o Worthington, Lenhart & Carpenter</u> <u>632 South David</u> (Street or P.O. Box) | | |
| <u>Casper</u> (City) | <u>Natrona</u> (County) | <u>Wyoming 82601</u> (State) |

to construct, install, or modify a Water Distribution
facility located in Section 3, 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 S. O'Quinn
Administrator
Water Quality Division

Robert E. Lusk
Director
Wyoming Dept. of Environmental Quality

February 9, 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. 78-33R

Robertson Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|--|--------------------------|---------------------------------|
| <u>Robertson</u> (Last) | <u>Chloe</u> (First) | <u></u> (Middle) |
| <u>P. O. Box 842</u> (Street or P.O. Box) | | |
| <u>Jackson</u> (City) | <u>Teton</u> (County) | <u>Wyoming 83001</u> (State) |

to construct, install, or modify a Waste Treatment Facility
facility located in Section 3, T39N, 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.

A copy of the plans have been forwarded to Environmental Surveillance and Control,
Department of Health and Social Services per Appendix A, Chapter III, Water
Quality Division Rules and Regulations.

Authorized by:

William J. Galand
Administrator
Water Quality Division

Robert E. Hendin
Director
Wyoming Dept. of Environmental Quality

March 15, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

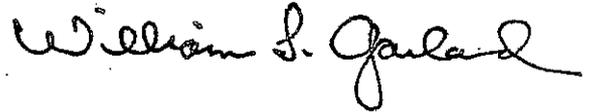
PROJECT: Robertson Mobile Home Park - Teton County

ARCHITECT OR ENGINEER: Nelson Engineering & Surveyors
P. O. Box 1141
Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-33

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

DATE OF REVIEW: February 23, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

It is our understanding that the existing facilities were constructed in 1975. Our records do not indicate that a permit to construct was obtained for the existing facilities. The plans as submitted are not clear as to what part is "as-built" and what part is proposed. Please provide drawings that show what is existing. This should include type of pipe, location of manholes, location of cleanouts, how the drop pipes are built, etc. The proposed drawings should include construction specifications, design criteria, typical drawings, etc.

Two (2) copies of plans and specifications should be submitted. The drawings indicate the leach fields are being tied together, since this is not a DEQ requirement, please explain.

cc: Chloe Robertson, P. O. Box 842, Jackson, Wyoming 83001
Robert Ablondi, Teton County Courthouse, Jackson, Wyoming 83001

Enclosures

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-34R

Compressor Pump & Engine
(Name of Facility)

This permit hereby authorizes the applicant:

Compressor Pump & Engine
 (Last) (First) (Middle)
 c/o Western Construction
 P. O. Box 930
 (Street or P.O. Box)

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

to construct, install, or modify a Septic Wastewater
 facility located in Section 32, T33N, 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.

Authorized by:

William J. [Signature]
 Administrator
 Water Quality Division

[Signature]
 Director
 Wyoming Dept. of Environmental Quality

March 23, 1978

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
Hathaway Office Building
Cheyenne, Wyoming 82002

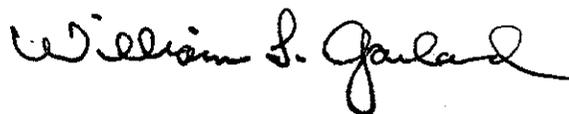
PROJECT: Compressor Pump & Engineering
202 Cleveland - Mt. View Addition - Casper Wyoming
Section 32, T32N, T79W

ARCHITECT OR ENGINEER: Edwin Rate, Jr., P.E.
Western Construction
Box 930 - Casper Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 78-34

REVIEWING ENGINEER: Jake Strohmman, William L. Garland, P.E.

DATE OF REVIEW: January 16, 1978



ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS: Send design information on the three sump drain beds,

cc: Nix Anderson
Sanitarian
241 South Conwell
Casper, Wyoming 82601

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-35R

Atta Vista Addition

(Name of Facility)

This permit hereby authorizes the applicant:

Meurer, Serafini & Meurer, Inc.

(Last) (First) (Middle)

570 West 44th Avenue

(Street or P.O. Box)

Denver

(City)

Colorado 80216

(State)

to construct, install, or modify a Sewage Collection & Water Distribution

facility located in Section 15, T33N, 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.

Authorized by:

William J. [Signature]

Administrator
Water Quality Division

Robert E. [Signature]

Director
Wyoming Dept. of Environmental Quality

March 1, 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. 78-36

Second Highland Hills Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

Meurer, Serafini & Meurer, Inc.
(Last) (First) (Middle)
570 West 44th Avenue
(Street or P.O. Box)
Denver Colorado 80216
(City) (County) (State)

to construct, install, or modify a Sewage Collection & Water Distribution
facility located in Section 9, T21N, R87W
(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 S. Garsland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

February 8, 1978

Date of Issuance

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PERMIT TO CONSTRUCT

New

Renewal

Permit No. 78-37R

Modified

English Avenue Extensions
(Name of Facility)

This permit hereby authorizes the applicant:

Global Engineering
(Last) (First) (Middle)

P. O. Box 532
(Street or P.O. Box)

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

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 4 & 5, 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.

Authorized by:

William P. Gales
Administrator
Water Quality Division

Robert E. Landon
Director
Wyoming Dept. of Environmental Quality

February 7, 1978

Date of Issuance

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

cc: Natrona County Sanitarian

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: English Avenue Water & Sewer Extension
North Platte Water & Sewer District - Natrona County Wyoming

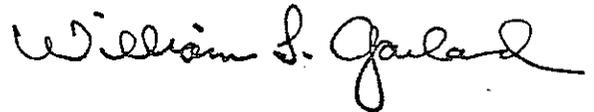
ARCHITECT OR ENGINEER: B. F. Cronin - Global Engineering
P. O. Box 532 - Casper Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-37

REVIEWING ENGINEER: Jake Strohman - William L. Garland, P.E.

DATE OF REVIEW: January 13, 1978

ACTION: CONSTRUCTION NOT AUTHORIZED



COMMENTS:

- 1). Need letter of acceptance from Casper Board of Public Utilities.
- 2). State minimum size of thrust blocks.
- 3). Complete application sheet

cc: Nix Anderson

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. EDA 78-38MR

Guernsey Water System Improvements
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Guernsey
(Last) (First) (Middle)
P. O. Box 323
(Street or P.O. Box)
Guernsey Platte Wyoming 82214
(City) (County) (State)

to construct, install, or modify a Water Distribution
facility located in Section 35, T27N, R66W
(Legal Description)

in the County of Platte, 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. Daland
Administrator
Water Quality Division

Robert E. Surdin
Director
Wyoming Dept. of Environmental Quality

January 16, 1978

Date of Issuance

cc: Richard R. Reusser
Project Engineer, BRW/Noblitt, 1709 Carey, Cheyenne, Wyoming 82001

8

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-39

WYOCO Properties
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|--|----------------------------|---------------------------------|
| <u>Sasser</u> (Last) | <u>Stephen</u> (First) | <u>E</u> (Middle) |
| <u>c/o Worthington, Lenhart & Carpenter</u> <u>632 South David Street</u> (Street or P.O. Box) | | |
| <u>Casper</u> (City) | <u>Natrona</u> (County) | <u>Wyoming 82601</u> (State) |

to construct, install, or modify a Septic & Gray Wastewater
facility located in Section 32, 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. Opland
Administrator
Water Quality Division

Robert E. Linder
Director
Wyoming Dept. of Environmental Quality

February 3, 1978

Date of Issuance

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

8

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-40R

Union Pacific Railroad Mobile Home Park
 (Name of Facility)

This permit hereby authorizes the applicant:

Halliburton Services
 (Last) (First) (Middle)
P. O. Box 805
 (Street or P.O. Box)
Evanston Uinta Wyoming 82930
 (City) (County) (State)

to construct, install, or modify a Water Distribution & Sewer Collection
 facility located in Section 17, T15N, R120W
 (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 F. Ouland
 Administrator
 Water Quality Division

Robert E. Lunden
 Director
 Wyoming Dept. of Environmental Quality

February 7, 1978

Date of Issuance
 cc: Uinta Engineering & Surveying, P. O. Box 746, Evanston, Wyoming 82930
 ATTN: John Proffitt, P.E.

REVIEW OF PLANS AND SPECIFICATIONS

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

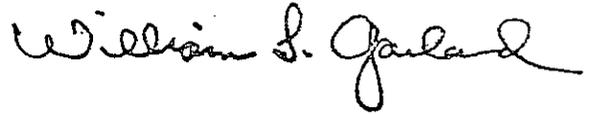
PROJECT: U.P.R.R. (Halliburton) Mobile Home Park
Proposed Water & Sewer Extension - Evanston, Wyoming - Uinta County

ARCHITECT OR ENGINEER: Uinta Engineering
ATTN: John Proffit, P. E.
P. O. Box 746 - Evanston, Wyoming 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 78-40

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

DATE OF REVIEW: January 27, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Please have owner or owners designated representative fill out and submit two (2) copies of "Application for Permit to Construct, Install, or Modify Public Water Supplies and Waste Facilities in Wyoming".
- 2). Complete specifications are needed. Reference to the City of Evanston water and sewer specifications is sufficient.
- 3). No less than two (2) inch water lines shall be installed in place of the proposed one (1) inch lines. Please indicate where valves on these lines are.

Enclosures

PERMIT TO CONSTRUCT

New

Renewal

Permit No. 78-41MRR

Modified

Town of Wheatland - Water & Sewer Line Maple Street
(Name of Facility) Interceptor

This permit hereby authorizes the applicant:

Town of Wheatland
(Last) (First) (Middle)
c/o Kenneth Kennedy - K & H Engineering
P. O. Box 856
(Street or P.O. Box)
Wheatland Platte Wyoming 82201
(City) (County) (State)

to construct, install, or modify a Sewage Collection

facility located in Section 13, T24, R68
(Legal Description)

in the County of Platte, 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
by [Signature]

Robert E. Scardin
Director
Wyoming Dept. of Environmental Quality

April 7, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-42MRR

Town of Wheatland - Veterinary Services, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

Veterinary Services, Inc.

(Last) (First) (Middle)

c/o Kenneth Kennedy - K & H Engineering

P. O. Box 856

(Street or P.O. Box)

Wheatland
(City)

Platte
(County)

Wyoming 82201
(State)

to construct, install, or modify a Sewage Collection

facility located in Section 13, T24, R68

(Legal Description)

in the County of Platte, 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. Cochran

Administrator

Water Quality Division

by [Signature]

Robert E. Sundin

Director

Wyoming Dept. of Environmental Quality

April 7, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-43MRR

Town of Wheatland - 18th Street
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Wheatland
(Last) (First) (Middle)
c/o Kenneth Kennedy - K & H Engineering
P. O. Box 856
(Street or P.O. Box)

Wheatland Platte Wyoming 82201
(City) (County) (State)

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 14, T24, R68
(Legal Description)

in the County of Platte, 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
by D. A. Amberg

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

April 7, 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 Wheatland - Water and Sewer Line on 18th Street
Platte County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-43MR, 78-42MR, 78-41MR

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

DATE OF REVIEW: March 17, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The following AWWA & ASTM designations but not necessarily limited to, are outdated. They should reference the latest revisions.
 - a. ASTM D698-42T
 - b. ASA B-166-1944
 - c. ASA B16.1-1948
 - d. AWWA 600-54T
 - e. AWWA C601-54
 - f. AWWA C110-64
 - g. AWWA C111-64
 - h. AWWA Tentative Specifications C500-59T
 - i. AWWA C502-54
 - j. ASTM A185-37
 - k. ASTM C301-60T
 - l. ASTM C425-64
- 2). Degree of compaction should be expressed as percentage of maximum dry density as defined by ASTM D698. What percentage of compaction do you refer to for "ordinary compacted fill" and "selected compacted fill" respectively?
- 3). Saddle types are not recommended for sewer service connections due to comparatively higher exfiltration and infiltration rates than "Y" branches - recommendations only.
- 4). There should be specifications concerning excessive sidefill pressures and ovalation of the sewer pipe. The maximum deflection allowed shall not exceed 5% of the pipes internal diameter.
- 5). This cannot be considered a final review.

*The above comments are also applied to project number 78-42MR (Veterinary Services, Inc., Sewer and Water Lines). Sewer part of the comments are the same for the project 78-41MR (Maple Street Interceptor Line).

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Wheatland - Sewer Line on Maple & 16th Street
Platte County

ARCHITECT OR ENGINEER: Kenneth Kennedy - K & H Engineering
P. O. Box 1089 - Wheatland, Wyoming 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 78-41M

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

DATE OF REVIEW: January 30, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Two (2) complete sets of specifications are required. The specifications have not been provided although your cover letter indicated they had been enclosed.
- 2). Enclosed is an application for a permit to construct, which must be completed and returned to our office.
- 3). Plans and specifications shall carry the seal or signature of design engineer who is registered in the State of Wyoming.
- 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: ~~Town of Wheatland - Veterinary Services, Inc., Sewer~~
~~Platte County~~

ARCHITECT OR ENGINEER: J. Kenneth Kennedy, K & H Engineering
P. O. Box 1089 - Wheatland, Wyoming 82201

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-42M~~

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

DATE OF REVIEW: January 30, 1978

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

- 1). Two (2) sets of specifications should be submitted.
- 2). An application form should be filed.
- 3). A letter of verification from the Town should be provided, indicating that they are capable of handling added organic and/or hydraulic loads.
- 4). Will the highway crossing be done by boring or open cut? If it will be bored, details are required.
- 5). Plans and specifications shall carry the seal or signature of professional engineer.
- 6). Is the 8" sewer connected to the existing line at station 19+90? If so, please provide additional information as to the existing line (i.e. size, material, etc.), otherwise, there should be a manhole.
- 7). 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: Town of Wheatland - Water & Sewer Line on 18th Street
Platte County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-43M

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

DATE OF REVIEW: January 31, 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) complete sets of specifications are required. The specifications have not been filed although your letter indicated that they had been enclosed with the plans.
- 3). The plans and specifications shall carry the seal or signature of design engineer, who is registered in the State of Wyoming.
- 4). Manholes shall be provided at the end of sewer. Cleanouts may be installed at the end of a lateral in place of a manhole, if the length of the lateral is less than 150 feet.
- 5). Typical drawings of thrust block, service connections, manhole, fire hydrants, type of bedding, etc., should be provided.
- 6). Where are the fire hydrants located?
- 7). Please differentiate between the existing line and proposed line. Provide additional informations as to existing lines (i.e. size, material, etc.). Is the 4" water line existing one?
- 8). Underwater crossing shall meet part 8.7 of Ten State Standards (*Water*)
- 9). This cannot be considered a final review.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-44

Sunrise Hills #4 Sanitary Sewer
(Name of Facility)

This permit hereby authorizes the applicant:

Perlmutter Jack
(Last) (First) (Middle)
c/o Worthington, Lenhart & Carpenter
632 South David
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Sewage Collection
facility located in Section 21, T33N, 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.

NOTE: This permit does not authorize construction of the trunk sewer line from
Center Street to College Circle.

Authorized by:

William P. O'Quinn
Administrator
Water Quality Division

Robert E. Larkin
Director
Wyoming Dept. of Environmental Quality

March 8, 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. 78-45R

Jim Carneal Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

| | | |
|--|-----------------------------|---------------------------------|
| <u>Carneal</u> (Last) | <u>Jim</u> (First) | <u></u> (Middle) |
| <u>407 Robertson</u> (Street or P.O. Box) | | |
| <u>Worland</u> (City) | <u>Washakie</u> (County) | <u>Wyoming 82401</u> (State) |

to construct, install, or modify a Water & Sewer Line
facility located in Section 25, T47N, R93W
(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.

Authorized by:

William S. O'Neal
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

February 17, 1978

Date of Issuance
cc: John W. Donnell & Associates, P. O. Box 13, Worland, Wyoming, 82401

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Mobile Home Park - Water & Sanitary Sewer Service - Worland Wyoming
Washakie County - Lots 9, 10, 11, Block 7

ARCHITECT OR ENGINEER: John W. Donnell & Associates - ATTN: Herbert L. Jennerich, P.E.
P. O. Box 13 - Worland, Wyoming 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 78-45

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

DATE OF REVIEW: January 23, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1). Please have owner or owners designated representative fill out and submit two (2) copies of the "Application for Permit to Construct".
- 2). We need a letter from the City of Worland stating that they will provide water and sewer service for this mobile home park.

WATER SYSTEM

- 3). Blowoffs are needed at the end of all water mains. The blowoffs shall not be located beneath mobile homes.

SEWER SYSTEM

- 4). Indicate the size of the existing sewer line serving the northeastern trailers.
- 5). Wye's should be used for all service connections rather than saddles.

Enclosures

BB



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

3144
TELEPHONE 307-332-3047

October 17, 1978.

Mr. Dick Fairservis,
Western Nuclear,
P.O. Box 630,
Jeffrey City, Wyo. 82310.

76-470

Ref: Water Quality Division's Reference Number 78-46

Dear Mr. Fairservis;

Subject: JEFFREY CITY TOWN SITE IMPROVEMENTS,
1974, 1975, 1976 and 1977

The Water Quality Division (WQD) has reviewed the "as built plans and specifications" for the town site improvements. The WQD does not issue Permits to Construct for "as built" facilities but by this letter indicates the facility is acceptable to the Division. It should be noted that before any future construction or modifications of the system, a Permit to Construct or Modify shall be obtained from the Water Quality Division.

It should also be noted that the shallow sewers were allowed because of the existing town site conditions, but future expansions may require the use of a lift station.

Sincerely,

Roy E. Prior, P.E.
DISTRICT ENGINEER.

REP/jky

c.c. Western Engineers - Architects, Inc.

REVIEW OF PLANS AND SPECIFICATIONS

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

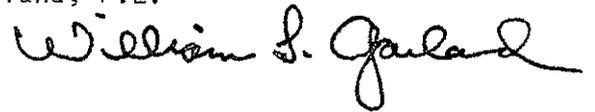
PROJECT: Jeffrey City Water & Sewer Townsite Improvements,
Fremont County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-46

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

DATE OF REVIEW: February 24, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Please have owner or owner's designated representative fill out and submit two (2) copies of "Application for Permit to Construct".
- 2). Two (2) copies of all plans and specifications are needed. One (1) set shall be returned to you upon our approval.
- 3). It is extremely difficult to interpret the plans. Please indicate exactly what water and sewer lines you are including in this application for a permit.
- 4). Complete design criteria and detailed specifications are needed.
- 5). All plans and specifications must be signed or sealed by an engineer registered in the State of Wyoming.

ENCLOSURE: Application for Permit to Construct (2)

PERMIT TO CONSTRUCT

New

Renewal

Permit No. 78-47

Modified

5th Street, Harper Valley Industrial Park
(Name of Facility)

This permit hereby authorizes the applicant:

C. P. Company

(Last) (First) (Middle)

c/o CSSA
1780 Westland Road

(Street or P.O. Box)

Cheyenne Laramie Wyoming 82001

(City) (County) (State)

to construct, install, or modify a One Block of Sewer

facility located in Section 1 and 12, 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. Gulek
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

February 13, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-48M

Mills Sanitary Lagoon
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Mills
(Last) (First) (Middle)

704 - 4th Street
(Street or P.O. Box)

Mills Natrona Wyoming 82644
(City) (County) (State)

to construct, install, or modify a Jet Diffusion Oxygenator
facility located in Section 6, T33N, 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.

Authorized by:

William J. Guland
Administrator
Water Quality Division

Robert E. Sundin
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.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Mills Lagoon Jet Diffusion Oxygenator
Town of Mills - Natrona County

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, Inc., 632
South David - Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-48M

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

DATE OF REVIEW: March 17, 1978

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

- 1). Provide protection against freezing of the sewage in the pumps.
- 2). It is our understanding that the purpose of this improvement is to eliminate sludge deposits in the entrance manhole of the lagoon and to disperse the scum which gathers in the southeast corner of the lagoon.

REVIEW OF PLANS AND SPECIFICATIONS

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

JS
Permit
issued
78-595

PROJECT: Van Valin Subdivision - Sewer System, Park County

ARCHITECT OR ENGINEER: Engineering Associates, P. O. Box 1539,
Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 78-49R

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

DATE OF REVIEW: June 19, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). We have not received the letter from the City of Powell.
- 2). Submit plans showing revised water/sewer crossings.

cc: Powell Investment Company
Box 687
Powell, Wyoming 82435

REVIEW OF PLANS AND SPECIFICATIONS

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

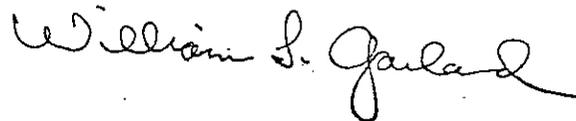
PROJECT: Van Valin Subdivision - Sewer System
Powell Wyoming - Park County

ARCHITECT OR ENGINEER: Engineering Associates
ATTN: Donald J. Livingston, P.E.
P. O. Box 1539 - Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 78-49

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

DATE OF REVIEW: January 26, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Please have the owner or owners designated representative fill out and submit two (2) copies of the Application for Permit to Construct, Install, or Modify Public Water Supplies and Waste Facilities in Wyoming.
- 2). Our "Wyoming Water Quality Rules and Regulations, Chapter III, 1976" section 15 requires that sewers be constructed of water class type materials for a horizontal distance of at least ten (10) feet on each side of the crossing if the eighteen (18) inch separation cannot be maintained. Commercial grade PVC pipe (160 psi) is acceptable.
- 3). A letter is needed from the City of Powell which indicates that they will provide sewer service for this subdivision.

Enclosures: 2 Applications



THE STATE OF WYOMING

REFERENCE NUMBER: 78-50M

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 14, 1978

Nelson Engineering
P. O. Box 1141
Jackson, Wyoming 83001

Dear Mr. Yamashiro:

The whole sets of preliminary plans and specifications of wastewater treatment facilities for City of Rawlins are hereby returned to you, according to the decision of the meeting on February 24, 1978 between Nelson Engineering, Environmental Protection Agency and City of Rawlins and Department of Environmental Quality.

DEQ will resume reviewing the plans after the complete final sets are submitted.

Sincerely yours,

Dan H. Kim

Dan H. Kim
Environmental Engineer
Water Quality Division

DHK/do

cc