

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-101

R J Addition

(Name of Facility)

This permit hereby authorizes the applicant:

<u>City of Worland</u>		
(Last)	(First)	(Middle)
<u>P.O. Box 226</u>		
(Street or P.O. Box)		
<u>Worland</u>	<u>Washakie</u>	<u>Wyoming 82401</u>
(City)	(County)	(State)

to construct, install, or modify a Water and Sewer Extension
facility located in City of Worland
(Legal Description)

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

Authorized by:

William L. O'Connell
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 19, 1977

Date of Issuance

cc: John W. Donnell, P.E., P.O. Box 13, Worland, WY 82401

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-103R

Elevated Water Storage Tank
(Name of Facility)

This permit hereby authorizes the applicant:

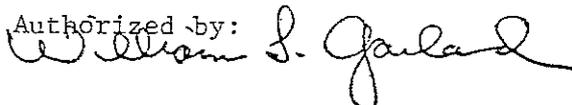
City of Powell
(Last) (First) (Middle)

P.O. Box 1008
(Street or P.O. Box)

Powell Park Wyoming 82435
(City) (County) (State)

to construct, install, or modify a Water Storage Tank
facility located in the City of Powell
(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: 

Supervisor - Water Quality Div.

Director
Wyoming Dept. of Environmental Quality

April 5, 1977

Date of Issuance

cc: Sanderson/Stewart/Mueller, 1629 Avenue D/Suite 7A, Billings, Montana 59102

REVIEW OF PLANS AND SPECIFICATIONS

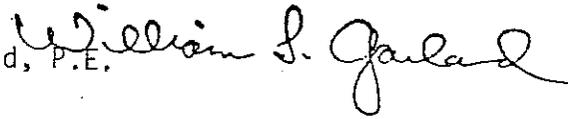
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Black Butte Coal Company, Reservoirs, Channels, Sweetwater County,
Wyoming

ARCHITECT OR ENGINEER: Jack Reed, P.E. - David J. Engebretson, Black Butte Coal
Company, P.O. Box 98, Point of Rocks, WY 82942

WATER QUALITY DIVISION REFERENCE NUMBER: 77-104

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



DATE OF REVIEW: April 21, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) Complete design calculations for the runoff holding reservoirs are needed. (i.e. - drainage area, pond storage volume, runoff coefficient, rainfall intensity, etc.)
 - 2) Please discuss seepage rates in the reservoir areas. Also submit groundwater depth in the areas.
 - 3) Please submit soil classification data for the earth fill used.
 - 4) The evaporation pond EP-8 will not be reviewed in this submission. It will be reviewed when the final plans for the domestic sewer and water are submitted.

PERMIT TO CONSTRUCT

*Book
M-7-1979*

- New
- Renewal
- Modified

Permit No. 77-104R

Black Butte Coal Mine

(Name of Facility)

This permit hereby authorizes the applicant:

Black Butte Coal Company

(Last) (First) (Middle)

P.O. Box 98

(Street or P.O. Box)

Point of Rocks, Sweetwater, WY 82942

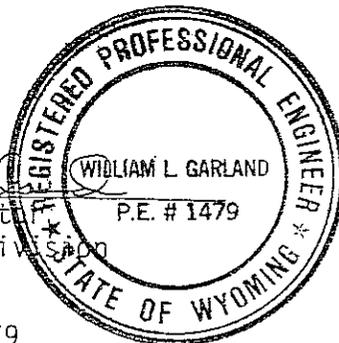
(City) (County) (State)

to construct, install, or modify a settling ponds, evaporation ponds, runoff channels
facility located in Sec. 3, 4, T18N, R100 W, Sec. 4, 22, 23, 27, 28, 29, 32, 33 & 34,
T19N, R100W (Legal Description)

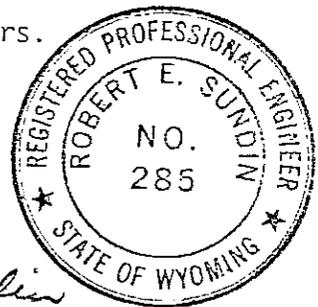
in the County of Sweetwater, in the State of
Wyoming. This permit shall be effective for a period of one (1) years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland
Administrative
Water Quality Division



Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



July 18, 1979
Date of Issuance

"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."

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-104R

Black Butte Coal Mine
(Name of Facility)

This permit hereby authorizes the applicant:

Black Butte Coal Company
(Last) (First) (Middle)
P.O. Box 98
(Street or P.O. Box)
Point of Rocks Sweetwater Wyoming 82942
(City) (County) (State)

to construct, install, or modify a Settling Ponds, Evaporation Ponds, Runoff Channels
facility located in Sec. 3, 4, T18N, R100W, Sec. 4, 22, 23, 27, 28, 29, 32, 33, 34, T19N
R100W (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 S. Galand
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

August 29, 1977

Date of Issuance
Attention: David J. Engebretson, Chief Engineer

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Latigo Hills Filing No. 1 - Campbell County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 77-106

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.

DATE OF REVIEW: April 4, 1977

William L. Garland
Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. Dead end water mains shall be minimized by looping of all mains. Where dead end mains occur they shall be provided with a fire hydrant, flushing hydrant or blow-off for flushing purposes.
 2. The fire hydrant specification is AWWA C-502 not C-520 as shown on Sheet 24 of 25. A 4½ inch pumper nozzle is required.
 3. The minimum size of water main shall be 6-inch diameter.
 4. Bell holes shall be excavated at all bell and spigot joints for water mains as well as sewer mains.
 5. The water jetting method of compaction is not allowed.
 6. Please clarify the difference between utility trenches and other trenches; i.e. utility trenches require an 85% soil density while others require 90%.
 7. The open end of an air relief pipe from automatic valves shall be extended to at least one foot above grade and provided with a screened, downward-facing elbow.
 8. The enclosed application form shall be completed and returned along with the requested information.
 9. There appears to be a conflict between Sheets 2 of 25 and 5 of 25 concerning where the 12 inch water main ends, i.e. does it stop at the tee on Wright Blvd. or continue on across the street?

PROJECT: Latigo Hills Filing No. 1 - Campbell County

REFERENCE NUMBER: 77-106

10. This cannot be considered a final review of plans and specifications, upon receipt of the required information a final review will be initiated.

TRB/jo

cc: Mr. Frank L. Novak, Atlantic Richfield Company,
1500 Security Life Building, Denver, Colorado 80202

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-106R

Latigo Hills Filing No. 1
(Name of Facility)

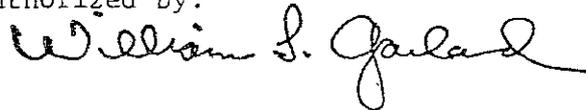
This permit hereby authorizes the applicant:

Housing Services, Inc.
(Last) (First) (Middle)
Gingery Associates, Inc., Consulting Engineers
2840 South Vallejo Street
(Street or P.O. Box)
Englewood Colorado 80110
(City) (County) (State)

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

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

Authorized by:



Director
Wyoming Dept. of Environmental Quality

April 28, 1977

Date of Issuance

cc: Housing Services, Inc., 1500 Security Life Building, Denver, CO 80202

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-107

Jolley Rogers, Inc.

(Name of Facility)

This permit hereby authorizes the applicant:

<u>Jolley</u> (Last)	<u>Gil</u> (First)	<u>E.</u> (Middle)
<u>3430 E. Lincolnway</u> (Street or P.O. Box)		
<u>Cheyenne</u> (City)	<u>Laramie</u> (County)	<u>Wyoming 82001</u> (State)

to construct, install, or modify a Commercial septic tank
facility located in Section 27, T14N, R66W
(Legal Description)

in the County of Laramie, in the State of
Wyoming. This permit shall be effective for a period of 1 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Garland

Supervisor - Water Quality Div.

Director

Wyoming Dept. of Environmental Quality

March 30, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Building for District No. 4, Wyoming Highway Department - Sundance

ARCHITECT OR ENGINEER: Hitchcock and Hitchcock, Architects, 107 S. Fifth Street, Laramie, Wyoming 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 77-108

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.

DATE OF REVIEW: April 4, 1977

William L. Garland
Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. All plans and specifications must carry the seal or signature of the designing engineer who is a registered professional engineer in Wyoming. Two copies of all plans and spec's are required.
 2. Manufacturer's data shall be provided for the extended aeration package plant.
 3. Anticipated volume and type of wastes to be treated shall be specified.
 4. Please clarify what type of liner will be used for the lagoon; i.e. polyethylene or PVC. Also, was PVC intended to be PVC?
 5. Water settling of backfill material in trenches is not allowed.
 6. Please complete the enclosed copy of the application form and return it along with the requested information.

REVIEW OF PLANS AND SPECIFICATIONS

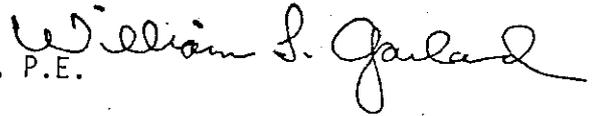
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Building for District No. 4 Wyoming Highway Department-Sundance

ARCHITECT OR ENGINEER: Hitchcock and Hitchcock, Architects, 107 S. Fifth
Street, Laramie, Wyoming 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 77-108R

REVIEWING ENGINEER: Dan H. Kim, William L. Garland, P.E.



DATE OF REVIEW: May 13, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
- 1) What is an average evaporation rate in your pond site?
Assuming a evaporation rate of 3 ft/yr., our calculations indicates that your retention pond will discharge. Please clarify.
 - 2) With a daily waste water load of 2189 gallons, your manufactured extended aeration package plant of 1200 gallons is substantially undersized. Please support your design. It should be noted that "Jet Aeration" Model 101-FP is not "NSF" approved. (See an enclosed copy of NSF list).
 - 3) Two copies of all plans and specifications are required.
 - 4) Bedding details for sewer lines shall include provisions for placing the pipe, relieving the bells, placing of backfill material in the trench and around the pipe and acceptable material that can be used for backfill.
 - 5) O & M manual shall also be submitted to our office for review.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 77-108RR

Building for District No. 4, Wyoming Highway Department
(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming Highway Department
(Last) (First) (Middle)

(Street or P.O. Box)
Cheyenne Wyoming 82002
(City) (County) (State)

to construct, install, or modify a Wastewater Treatment Facility
facility located in Section 18, T51N, R62W
(Legal Description)

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

*NOTE: A CERTIFIED OPERATOR IS REQUIRED FOR YOUR SEWAGE TREATMENT FACILITY.

Authorized by:

William J. Chelton
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

June 24, 1977

Date of Issuance

mailed - 8/24/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-109RR

Riverview Estates #2 City of Lander
(Name of Facility)

This permit hereby authorizes the applicant:

Riverview Estates Inc. & Bill Nightingale
(Last) (First) (Middle)

431 Main Street
(Street or P.O. Box)

Lander, Fremont Wyo 82520
(City) (County) (State)

to construct, install, or modify a water distribution & sewage collection
facility located in Sec 7 T33N R99W
(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. Janda
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

8-4-78
Date of Issuance

CC: Wind River Engineers, P.O. Box 1369, Riverton, Wy 82501
Brasel & Sims Const. Co., Lander, Wy 82520

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Riverview Estates Addition No. 2, City of Lander, Wyoming
Fremont County

ARCHITECT OR ENGINEER: C. E. Spurlock and Associates, P.O. Box 0, Lander,
Wyoming 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 77-109

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

William L. Garland

DATE OF REVIEW: April 8, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1) Please Submit two sets of plans and specifications to us. One set will be returned to you upon our authorization for construction.
- 2) Have owner fill out and submit 2 "Application for Permit to Construct, Install,"
- 3) The Lander Standard Sewer and Water Specifications must be reviewed by this office. We have no copy of the specifications.
- 4) A letter from the City is needed indicating that adequate water and water pressure and adequate sewage facilities are available.

WATER SYSTEM

- 5) The D.I.P. lines must end in a fire hydrant, flushing hydrant, or a blowoff.

SEWER SYSTEM

- 6) Will the lift station be adequately protected from surface water inflow?
- 7) We will accept the use of only one sewage ejector. However, the station must be designed to permit the installation of a future duplicate unit without structural changes.
- 8) Detailed manufacturers plans and specifications are needed of the sewage ejector (i.e. - size, flow rate, compressor details, etc.)
- 9) Please submit more detailed plans and specifications of the emergency high water level alarm.

PROJECT: Riverview Estates Addition No. 2, City of Lander, Wyoming
Fremont County

REFERENCE NUMBER: 77-109

- 10) Wet well must have adequate venelation. At least 12 air changes per hour if continuous venelation is required and at least 30 air changes per hour if intermittent venelation is used.
- 11) The dry well concrete floor must slope towards the sump pump.
- 12) A full sized manhole should be used at the end of the force main. This manhole should be provided with a flow channel.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-110R

Western Hills Trailer Court
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Kersey</u>	<u>V.</u>	<u>R.</u>
(Last)	(First)	(Middle)
<u>Western Hills Trailer Court, Star Route 2, Space 1</u>		
(Street or P.O. Box)		
<u>Rock Springs</u>	<u>Sweetwater</u>	<u>Wyoming 82901</u>
(City)	(County)	(State)

to construct, install, or modify a Wastewater Treatment Package Plant
facility located in Section 12, T18N, R106W
(Legal Description)

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

Authorized by:
William J. Garland

Director
Wyoming Dept. of Environmental Quality

May 18, 1977

Date of Issuance
cc: Ross M. Turner, P.E., c/o Richard A. Morley, P.O. Box 398, Auburn, WY 83111

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

State Office Building

Cheyenne, Wyoming 82002

PROJECT: Western Hills Trailer Court, Package Waste Treatment System,
Rock Springs, Wyoming, Sweetwater County

ARCHITECT OR ENGINEER: Ross M. Turner, P.E. c/o Richard A. Morley,
P.O. Box 398, Auburn, Wyoming 83111

WATER QUALITY DIVISION REFERENCE NUMBER: 77-110

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

William L. Garland

DATE OF REVIEW: April 3, 1977

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) Please fill out and submit to us two copies of "Application for Permit to Construct, Install....."
 - 2) Complete detailed plans and specifications of the gas chlorination facility are needed. A brief written description will not suffice.
 - 3) Detailed plans and specifications of the sewer line railroad crossing are needed.
 - 4) Western Hills must have a certified wastewater operator who holds a Class "D" Certificate. Enclosed is an application for certification. The next water and wastewater operators school is on April 25-29 at Casper College with a certification test on April 30.

DWH/jo

Enclosures - 2-"Applications for Permit to Construct, Install....."
1-Application for Certification

cc: Mr. Bob Kersey, Western Hills Trailer Court, Star Route, Space #1,
Rock Springs, Wyoming 82901

REVIEW OF PLANS AND SPECIFICATIONS

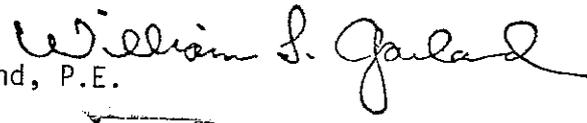
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Twin Creek Mine Wastewater Collection and Treatment, Lincoln County,
Wyoming

ARCHITECT OR ENGINEER: Jack Reed, P.E. - Peter Kiewit Sons Company, Mining
Division, One Thousand Kiewit Plaza,
Omaha, Nebraska 68131

WATER QUALITY DIVISION REFERENCE NUMBER: 77-111

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



DATE OF REVIEW: April 19, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: SANITARY SEWER SYSTEM

- 1) The minimum size of sewer line used should be 8 inches.
- 2) Sewers on 20 percent slope or greater shall be anchored securely with concrete anchors or equal. For a 38 percent slope these anchors should be spaced not over 24 feet center to center.
- 3) Manhole SS-8 must have an invert elevation at least 6 inches above the maximum operating level of the lagoon in order to prevent surcharging of the manhole.

TRUCK WASH - MAINTENANCE SHOP WASTEWATER

- 4) A crude analysis indicates that sedimentation pond no. 4 will not be able to handle the wash water - maintenance shop wastewater flows without discharging. A discharge permit is needed. (enclosed)
- 5) The truck wash-maintenance shop wastewater line should be anchored with concrete archors or equal on the 33 percent section at intervals not exceeding 36 feet center to center.
- 6) Will sufficient baffling be provided at the settling basins during minimum flows?

REVIEW OF PLANS AND SPECIFICATIONS

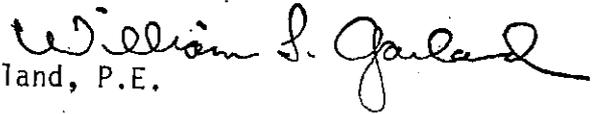
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Twin Creek Mines, Wastewater Collection and Treatment

ARCHITECT OR ENGINEER: Jack Reed, P.E., Peter Kiewit Son's Company,
Mining Division, 1000 Kiewit Plaza,
Omaha, Nebraska 68131

WATER QUALITY DIVISION REFERENCE NUMBER: 77-111R

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



DATE OF REVIEW: June 1, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) The application for the NPDES permit must be received in this office before a "Permit to Construct" can be issued.
- 2) Please submit details of flow monitoring equipment. An instantaneous flow measuring device is acceptable.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Twin Creek Mines, Wastewater Collection and Treatment

ARCHITECT OR ENGINEER: Jack Reed, P.E. - Peter Kiewit Son's Company,
Mining Division, 1000 Kiewit Plaza,
Omaha, Nebraska 68131
77-111RR

WATER QUALITY DIVISION REFERENCE NUMBER:

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

DATE OF REVIEW: August 1, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: 1) A "Permit to Construct" cannot be issued until the application for the NPDES permit is received by this office.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-111RRR

Twin Creek Mine
(Name of Facility)

This permit hereby authorizes the applicant:

Cumberland Coal Company
(Last) (First) (Middle)
1000 Kiewit Plaza
(Street or P.O. Box)
Omaha NB 68131
(City) (County) (State)

to construct, install, or modify a Sanitary Wastewater, Truck Wash & Maintenance Shop
Wastewater, Primary-Secondary Crusher Settling Basins
& SITO Washdown Evaporation Pond
facility located in Section 8, 9, T21N, R116W
(Legal Description)

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

Authorized by:

William J. Garland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

January 9, 1978

Date of Issuance

ATTN: Tait Johnson

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 77-112

Saratoga Water Plant Infiltration Gallery
(Name of Facility)

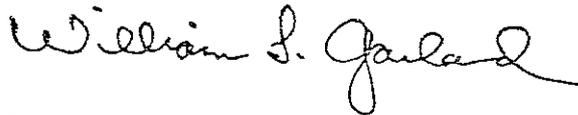
This permit hereby authorizes the applicant:

Town of Saratoga
(Last) (First) (Middle)
c/o Western Engineers
501 N. Sun Drive
(Street or P.O. Box)
Casper Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Water Plant Infiltration Gallery
facility located in Section 14, T17N, R84W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 1 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Director
Wyoming Dept. of Environmental Quality

April 21, 1977

Date of Issuance

Mailed 5-7-79

PERMIT TO CONSTRUCT

New

Permit No. 77-115R

Renewal

Modified

Union Pacific - Rawlins Recirculation System
(Name of Facility)

This permit hereby authorizes the applicant:

Union Pacific Railroad Company

(Last) (First) (Middle)

1416 Dodge Street

(Street or P.O. Box)

Omaha

Nebraska 68179

(City) (County) (State)

to construct, install, or modify a industrial sewage treatment

facility located in Sec. 17, T21N, R87W

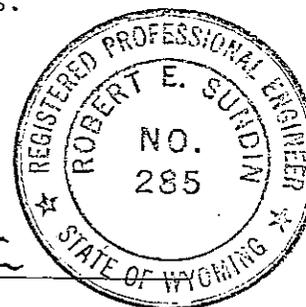
(Legal Description)

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

AUTHORIZED BY:

William L. Paland
Administrator
Water Quality Division

Robert E. Sutin
Director
Wyoming Dept. of Environmental Quality



May 2, 1979

Date of Issuance

"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."

UNION PACIFIC RAILROAD COMPANY

ENGINEERING DEPARTMENT

R. M. BROWN
CHIEF ENGINEER



1416 DODGE STREET
OMAHA, NEBRASKA, 68179

RHP

February 2, 1979

A-14165



The Wyoming Department of
Environmental Quality
Water Quality Division
State Office Building
Cheyenne, Wyoming 82002

Attention: Mr. Robert H. Pinther
Environmental Engineer
Re: Union Pacific - Rawlins Recirculation
System

Dear Mr. Pinther:

In response to your inspection report dated October 5, 1978, covering the above-referenced facility, we offer the following comments to your remarks.

1. Outlet weir in concrete tank will be leveled.
2. Plans and Specifications, covering the proposed addition, were submitted to your office July 7, 1977 and Permit No. 77-115R was issued for construction on August 5, 1977, authorized by Mr. Robert E. Sundin of your office.
3. As explained above, we are in receipt of Permit to Construct No. 77-115R. However, Permit was for one year and expired on August 5, 1978. We hereby request renewal of Permit No. 77-115R, under the same conditions of construction specified in the original Permit.

Very truly yours,

R M Brown

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-115R

Union Pacific - Rawlins Recirculation System
(Name of Facility)

This permit hereby authorizes the applicant:

Union Pacific Railroad Company
(Last) (First) (Middle)
1416 Dodge Street
(Street or P.O. Box)
Omaha Nebraska 68179
(City) (County) (State)

to construct, install, or modify a Industrial Sewage Treatment
facility located in Section 17, T21N, R87W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 1 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Dala
Administrator
Water Quality Division

Robert E. Hendon
Director
Wyoming Dept. of Environmental Quality

August 5, 1977
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Union Pacific - Rawlins Recirculation System - (NPDES WY-0000639)

ARCHITECT OR ENGINEER: Union Pacific Railroad Company, 1416 Dodge Street,
Omaha, Nebraska 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 77-115

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

William L. Garland

DATE OF REVIEW: April 7, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. All plans submitted for construction authorization are required to carry the signature and/or seal of an engineer licensed to practice in the State of Wyoming.
 2. Specifications for the aerator shown on the plans shall be submitted. It is suggested that rails and splash guards might be necessary around the aeration basin.
 3. How will floating oil and/or scum be removed from the proposed retention basin? How will sludge be collected at the recirculation pump intake?
 4. Please indicate peak flows through the proposed system. Is there any likelihood that high storm flows could upset the system in any way?

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-116R

Rivers West Phase II Water Extension
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Pittman</u> (Last)	<u>T.</u> (First)	<u>W.</u> (Middle)
<u>1145 S. Wolcott</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 Extension
facility located in Rivers West Estates
(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. [Signature]
Administrator
Water Quality Division

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

May 19, 1977

Date of Issuance

cc: James Bradley, P.E., 731 S. Walsh, 110A, Casper, WY 82601

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Rivers West Phase II Water Distribution System

ARCHITECT OR ENGINEER: James Bradley, P.E. - 731 S. Walsh 110A, Casper,
Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-116

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

DATE OF REVIEW: April 19, 1977

ACTION: CONSTRUCTION NOT AUTHORIZED

- COMMENTS:
1. Need letter of acceptance from Brooks Water and Sewer District.
 2. Structural requirements for unusual conditions of sewer or water line crossovers should be stated.
 3. Rivers West Drive and Cotton Creek Place should be looped as well as Cotton Creek Place and Cabin Creek.

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 77-117

Trumbull Wastewater Facility
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Trumbull</u> (Last)	<u>Sidney</u> (First)	<u>C.</u> (Middle)
<u>c/o John Donnell</u> <u>P.O. Box 13</u>		
(Street or P.O. Box)		
<u>Worland</u> (City)	<u></u> (County)	<u>Wyoming 82401</u> (State)

to construct, install, or modify a Wastewater
facility located in Section 28, T51N, R93W
(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.

- NOTE: 1. ENSURE WATER WELL HAS 100 FOOT SEPARATION FROM LEACH FIELD.
2. RECOMMEND INCREASING SIZE OF LEACH FIELD DUE TO NATURE OF WASTES AND POSSIBLE USE OF MORE THAN 300 GAL/DAY WATER USE.
3. SPECIFY SPECIFICATIONS FOR MATERIALS USED.

Authorized by:

William S. Galar

Director
Wyoming Dept. of Environmental Quality

April 22, 1977

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-118

Water Main Extension - City of Sundance
(Name of Facility)

This permit hereby authorizes the applicant:

City of Sundance Attn: Allen Edwards
(Last) (First) (Middle)

P.O. Box 542
(Street or P.O. Box)

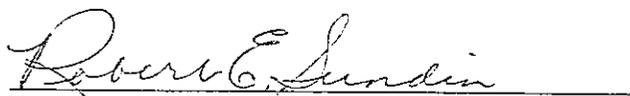
Sundance Crook Wyoming 82729
(City) (County) (State)

to construct, install, or modify a Water Distribution
facility located in Section 14, T51N, R63W
(Legal Description)

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

Authorized by:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

June 23, 1977

Date of Issuance

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 77-119

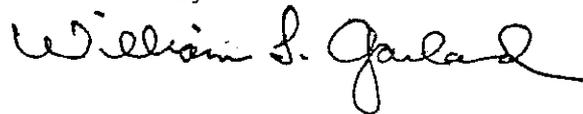
Robert E. McConaughy Property
(Name of Facility)

This permit hereby authorizes the applicant:

<u>McConaughy</u> (Last)	<u>Robert</u> (First)	<u>E.</u> (Middle)
<u>P.O. Box 518</u> (Street or P.O. Box)		
<u>Wilson</u> (City)	<u>Teton</u> (County)	<u>Wyoming 83014</u> (State)

to construct, install, or modify a Small Wastewater Facility
facility located in Section 14, T41N, R117W
(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:



Director
Wyoming Dept. of Environmental Quality

April 19, 1977

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
State Office Building
Cheyenne, Wyoming 82002

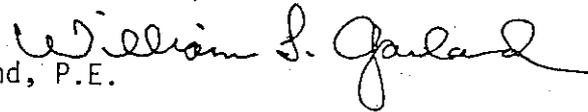
PROJECT: Beef Processing Plant, Section 20, T44N, R118W, Teton County, WY

ARCHITECT OR ENGINEER: None

Charles M. Christensen, R.R. #1,
Box 77, Driggs, Idaho 83422

WATER QUALITY DIVISION REFERENCE NUMBER: 77-120

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



DATE OF REVIEW: April 15, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: All commercial wastewater facility plans must be signed by a registered professional engineer in the State of Wyoming, irregardless of size. The submissions will not be reviewed until this is done.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-120R

Alta Beef Processing

(Name of Facility)

This permit hereby authorizes the applicant:

Christensen
(Last)

Charles
(First)

Morris
(Middle)

R.R. #1, Box 77

(Street or P.O. Box)

Driggs
(City)

Teton
(County)

Idaho 83422
(State)

to construct, install, or modify a Waste Treatment

facility located in Section 20, T44N, R118W

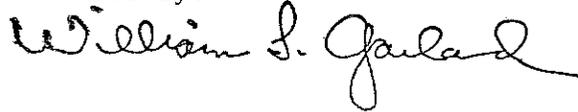
(Legal Description)

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:



Director

Wyoming Dept. of Environmental Quality

May 10, 1977

Date of Issuance

cc: Peter M. Jorgensen, P.O. Box 1142, Jackson, Wyoming 83001
Dan Cowee, Teton County Planner, Teton County Courthouse, Jackson, WY 83001

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 77-122

Proposed Sewer Extension - South Side Sewer District
(Name of Facility) City of Sheridan

This permit hereby authorizes the applicant:

Werco
(Last) (First) (Middle)
c/o Walter J. Pilch and Associates
Box 6498
(Street or P.O. Box)
Sheridan Sheridan Wyoming 82801
(City) (County) (State)

to construct, install, or modify a Sewage Collection
facility located in Section 2, 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 S. Gaulard

Director
Wyoming Dept. of Environmental Quality

April 28, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

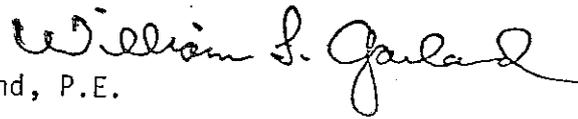
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Gillette, Well Pumping Stations, Contract No. 31

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

WATER QUALITY DIVISION REFERENCE NUMBER: 77-123

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: April 20, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
- 1) Compaction of trenches by water inundation is not allowed.
 - 2) AWWA C151-65 has been revised, the latest revision is AWWA C151-76.
 - 3) ASA Specification A21.4-64 has been revised, the latest revision is ANSI A21.4-1974. All specifications covering pipe or fittings should reference the latest revision of AWWA or ANSI Specifications.
 - 4) AWWA C500-61 has been revised, the latest revision is AWWA C500-71.
 - 5) Disinfection of the water line shall comply with AWWA C601-68. The chlorine residual after 24 hours shall not be less than 25 ppm.
 - 6) Please provide manufacturer's data on the pitless adaptors and sanitary well cap.

TRB:jo

cc: City of Gillette, Department of Public Works, P.O. Box 540,
Gillette, Wyoming 82716

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-124

Missouri Basin Power Project Laramie River Station
(Name of Facility)

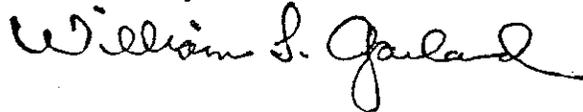
This permit hereby authorizes the applicant:

Basin Electric Power Cooperative
(Last) (First) (Middle)
1717 East Interstate Avenue
(Street or P.O. Box)
Bismarck North Dakota 58501
(City) (County) (State)

to construct, install, or modify a Water Treatment
facility located in Section 28, T25N, R67W
(Legal Description)

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

Authorized by:



Director
Wyoming Dept. of Environmental Quality

May 18, 1977

Date of Issuance

cc: Burns and McDonnell, P.O. Box 173, Kansas City, Missouri 64141
Attention: H. J. Hanna

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 18, 1977

Mr. Albert D. Francis
Basin Electric Power Cooperative
1717 East Interstate Avenue
Bismarck, ND 58501

Dear Mr. Francis:

The enclosed permit authorizes construction of the Laramie River Station water treatment plant. It should be noted, however, that the permit does not authorize any additional "potable water" distribution lines or storage facilities, such as the storage tank to be located in the powerhouse. Plans and specifications for such additional facilities have not yet been submitted.

Yours truly,

Tom Mueller

Tom Mueller
Environmental Engineer
Water Quality Division

TM/jo

cc: H. J. Hanna, Burns & McDonnell

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-125

Pepi Thunder Creek Waste Water Facility
(Name of Facility)

This permit hereby authorizes the applicant:

Panhandle Eastern Pipeline Co. Attention: Mr. B.J. Delap
(Last) (First) (Middle)
Box 127
(Street or P.O. Box)
Brighton Colorado 80601
(City) (County) (State)

to construct, install, or modify a Commercial Subsurface Disposal
facility located in Section 24, T43N, R69W
(Legal Description)

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

Authorized by:

William P. Gales
Administrator
Water Quality Division

Robert E. Andina
Director
Wyoming Dept. of Environmental Quality

May 23, 1977

Date of Issuance

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 77-126

Big Horn Processing Plant
(Name of Facility)

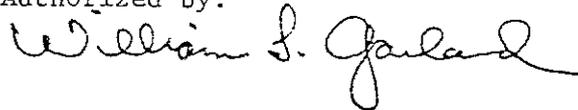
This permit hereby authorizes the applicant:

Lundberg Stan
(Last) (First) (Middle)
c/o Sanderson/Stewart/Mueller, Engineering, Inc.
1629 Avenue D, Suite 7A, Billings
(Street or P.O. Box)
Billings Montana 59102
(City) (County) (State)

to construct, install, or modify a Lift Station and Force Main
facility located in the Town of Lovell
(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:



Director
Wyoming Dept. of Environmental Quality

April 21, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

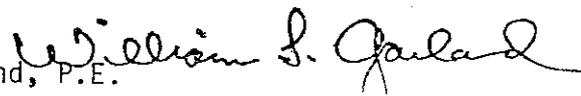
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Shoshoni Storage Reservoir, Section 30, T38N, R94W, Fremont County,
Wyoming

ARCHITECT OR ENGINEER: Lloyd Baker, P.E. - Fremont County Association of
Governments, 191 South Fourth Street,
Lander, Wyoming 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 77-127

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



DATE OF REVIEW: April 22, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) Compaction specifications are needed for backfilling area around Northeast corner of the water storage tank.
 - 2) Please give information on the method used to waterproof the joints on the galvanized corrugated roofing panels.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Brad Abelseth Trailer Court, SE $\frac{1}{4}$, SW $\frac{1}{4}$, Section 28, T55N, R65W,
Crook County, Wyoming

ARCHITECT OR ENGINEER: James T. Fletcher, P.E. & L.S., P.O. Box 727,
Newcastle, Wyoming 82701

WATER QUALITY DIVISION REFERENCE NUMBER: 77-128

William L. Garland

REVIEWING ENGINEER: Dan H. Kim, Roy E. Prior, William L. Garland, P.E.

DATE OF REVIEW: May 5, 1977

ACTION: CONSTRUCTION NOT AUTHORIZED. (SEE COMMENTS)

- COMMENTS:
- 1) Engineering drawing should carry the signature of Registered Engineer in Wyoming.
 - 2) Please provide details of drain valve w/box and the end of drain line.
 - 3) The well casing should terminate 12 inches above ground surface, standing water, or runoff water, whichever is greater.
 - 4) A casing vent shall terminate in a downturned position, in a minimum 1 $\frac{1}{2}$ inch diameter opening with a 24 mesh, corrosion resistant screen.
 - 5) Please clarify the capacity and head data of the pressure booster pump (your drawings indicated 3 HP 240 volt pump, but specification No. 1 on the same sheet indicated 2 HP well pump). 10 State Standards also recommended that at least 2 pumping units shall be provided.
 - 6) The minimum depth top soil in leach field shall be 12 inches.
 - 7) The sizes and shapes of thrust blockings should be provided.
 - 8) Stop and drain valves designed to be installed underground in water connection are not acceptable.
 - 9) Your specifications under sewer services connections indicate that "saddles" and "branches" are concurrent. But sewer connections should be made with Y branches only.
 - 10) What provisions have been made to exclude surface runoff from the leach field and septic tank?
 - 11) What will prevent the leach field effluent from surfacing on the (Cont.)

PROJECT: Brad Abelseth Trailer Court, SE $\frac{1}{4}$, SW $\frac{1}{4}$, Section 28, T55N, R65W,
Crook County, Wyoming

REFERENCE NUMBER: 77-128

- 11) (Cont.) Lower end between original ground and fill material?
- 12) Provide working pressure ratings and SDR for water line.
- 13) This cannot be considered a final review of plans and specifications, upon receipt of the required information a final review will be initiated.
- 14) In order to avoid confusion as to what is meant by an AWWA Steel water tank, you should provide the owner with information as to what AWWA requires. i.e. a AWWA tank is not any steel tank.

DHK/jo

cc: Mr. Brad Abelseth, Hulett, Wyoming 82720

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-129

Grace Baptist Church
(Name of Facility)

This permit hereby authorizes the applicant:

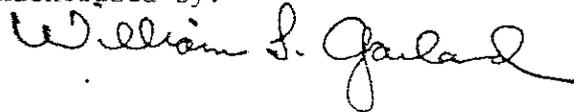
Grace Baptist Church
(Last) (First) (Middle)
c/o John W. Donnell
P.O. Box 13
(Street or P.O. Box)
Worland Washakie Wyoming 82401
(City) (County) (State)

to construct, install, or modify a Sewage Disposal
facility located in Section 28, T47N, R92W
(Legal Description)

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

NOTE: SIGNATURE OF DESIGNING ENGINEER IS REQUIRED.

Authorized by:



Director
Wyoming Dept. of Environmental Quality

April 21, 1977

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-130RR

Brasher Shop

(Name of Facility)

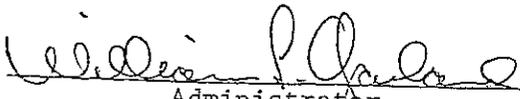
This permit hereby authorizes the applicant:

<u>Brasher</u> (Last)	<u>Richard</u> (First)	<u>L.</u> (Middle)
<u>Box 833</u> (Street or P.O. Box)		
<u>Cody</u> (City)	<u>Park</u> (County)	<u>Wyoming 82414</u> (State)

to construct, install, or modify a Wastewater Disposal
facility located in Section 33, T53N, R101W
(Legal Description)

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

Authorized by:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

June 23, 1977

Date of Issuance

Don Livingston, Engineering Associates, P.O. Box 1539, Cody, WY 82414

REVIEW OF PLANS AND SPECIFICATIONS

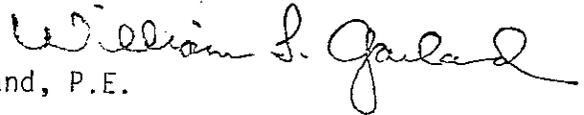
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Shop and Storage Building - Owner, R. L. Brasher, Box 833,
Cody, Wyoming 82414

ARCHITECT OR ENGINEER: Don Livingston, P.E., Engineering Associates,
Box 1539, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 77-130R

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



DATE OF REVIEW: 6-1-77

ACTION: CONSTRUCTION NOT AUTHORIZED

- COMMENTS:
1. Have owner fill out application sheet.
 2. Is there any groundwater within 8 feet of the surface?
 3. Why is the trench specified to have 2 inches of bentonite?
 4. Are there any sumps or other wastewater drains in the building?
 5. What is the use of the building? Are there any chemicals used or wasted?
 6. What is the contour of the land? Where is the well or water line located? Is the field in the driveway?

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-131

Shoshoni - Heart Mountain Irrigation District
(Name of Facility)

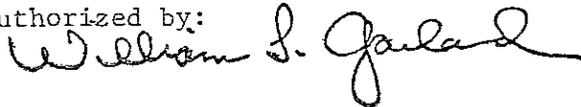
This permit hereby authorizes the applicant:

Shoshoni - Heart Mt. Irrigation District
(Last) (First) (Middle)
P.O. Box 822,
(Street or P.O. Box)
Powell Park Wyoming 82435
(City) (County) (State)

to construct, install, or modify a Sewage System
facility located in Section 23, T55N, R100W
(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:



Director
Wyoming Dept. of Environmental Quality

April 28, 1977

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-132

Teton Valley Ranch Campsite
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Teton Valley Ranch</u>		
(Last)	(First)	(Middle)
c/o Phil W. Wilson		
<u>(Street or P.O. Box)</u>		
<u>Kelly</u>	<u>Teton</u>	<u>Wyoming 83011</u>
(City)	(County)	(State)

to construct, install, or modify a Wastewater Disposal System
facility located in Section 11 & 12, T42N, R115W
(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 S. Garland

Director
Wyoming Dept. of Environmental Quality

April 28, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Bridger Valley Water Project, Uinta County, Wyoming

ARCHITECT OR ENGINEER: John Proffit, P.E., Uinta Engineering & Surveying,
P.O. Box 746, Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 77-133

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

William L. Garland

DATE OF REVIEW: June 10, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) Please have owner or owners designated representative fill out and submit two copies "Application for Permit to Construct,....."
- 2) This office does not have a copy of the Town of Lyman standards and specifications. Please supply us with a copy.
- 3) The specifications for pipe laying (62.2) are not as clear as they should be. These specifications should indicate in detail that the bedding and initial backfill (up to 1 foot above pipe) must be carefully placed and compacted. The compaction of the backfill after this initial backfilling is unimportant if settlement or loading is not a problem.
- 4) Is the water line buried sufficiently deep to prevent freezing problems. Also, how will the water line be protected from washing out at Sta. 128+40 and Sta 154+60?
- 5) Please give us some indication of the elevation of the existing springs for Lyman. We want to insure that hydraulic stability is maintained.
- 6) Are there going to be any problems with high groundwater in the air relief valve or meter pits?
- 7) The open end of the air relief piping shall extend to at least one foot above grade and be provided with a screened, downward facing elbow.
- 8) Indicate distances between the proposed water line and existing sewer lines on Fourth Street in Mountain View.

Bridger Valley Water Project, Uinta County, Wyoming

77-133

- 9) A typical water-sewer line crossing detailed drawing or specifications are needed.
- 10) The water meter at Lyman shall meet applicable AWWA Standards.
- 11) The pipe used in the Smiths Fork Crossings which are not concrete encased shall be constructed with flexible watertight joints.
- 12) A U.S. Army Corps of Engineers Dredge and Fill Permit is needed for the water treatment plant intake structure. Also please fill out and submit two copies of "Application for State Certification for Activities Requiring U.S. Army Corps of Engineers Dredge and Fill Permits" to this office.
- 13) We would like information on the highest known and expected flood level in the intake structure area. Is the structure adequately protected from washing out by rip rap, etc?
- 14) In order to minimize the problems of frazil ice, the flow through the screens in the intake structure should be held to no more than 6 inches/second. My crude calculations indicate that the approach velocity to the fine screen exceeds this. Please address.
- 15) How will the debris well be cleaned when needed?
- 16) How will the raw water flow be measured at the intake structure?
- 17) Manholes should be installed on the intake line every 1000 feet for inspection and line cleaning purposes.

DWH/jo

Enclosures - 2 "Application for Permit to Construct"

2 "State Certification for Army Corps Engineers Permits"

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Mountain View Joint Powers Board, Sewage Facilities Project,
Mountain View, Wyoming, Uinta County, Wyoming

ARCHITECT OR ENGINEER: John A. Proffit, Uinta Engineering and Surveying,
P.O. Box 746, Evanston, Wyoming 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 77-134

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

William L. Garland

DATE OF REVIEW: April 25, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1) All in-stream work in streams with a flow of 5 CFS or more such as the sewer line crossing of the Smiths Fork River will need state certification for dredge and fill activities.
- 2) Please have the Mountain View Joint Powers Board fill out and submit 2 copies "Application for Permit to Construct....."

SEWER SYSTEM

- 3) Infiltration or exfiltration shall not exceed 200 gallons per inch of pipe diameter per mile per day for any section. This should be inserted into the specifications.

LAGOON SYSTEM

- 4) The literature suggests that a minimum of 2-2.5 lbs. O₂ per lb. of BOD should be provided in order to handle peak loads. Please expound.
- 5) Specification 52 seems to imply that 9.97 lbs. of air is required, not oxygen. Please change the wording.
- 6) How many blowers are proposed? A spare blower should be available installed in place. This should be stated in the specifications.
- 7) An operation and maintenance guide must be prepared.
- 8) A stilling well is needed at the parshall flume if a float is used.
- 9) The influent line needs a manhole as close to the dike as possible. This manhole shall have an invert at least six inches above (Cont. page 2)

PROJECT: Mountain View Joint Powers Board, Sewage Facilities Project,
Mountain View, Wyoming, Uinta County, Wyoming

REFERENCE NUMBER: 77-134

9. the maximum operating level of the lagoon.
10. The influent and receiving station point of discharge shall terminate at the $\frac{1}{2}$ to $\frac{1}{3}$ point in the first cell. This will prevent solids deposition in the corner of cell #1.
11. Because of the adverse effects from a shock organic load, thought should be given to the use of short term aeration and slow diffusion of the wastewater to the system at the receiving station.
12. Detailed plans and specifications are needed for the water tower and pump at the receiving station
13. Blower building and chlorination building details are needed.
14. The piping should be arranged so that individual cells can be bypassed for maintenance purposes. A complete bypass is not acceptable.
15. The outside slope of the lagoon embankments shall not be steeper than 3:1.
16. Please address reseeding of the lagoon area. The embankments shall be seeded from the outside toe to one foot above the high water level of the cells.
17. The cell transfer structures must not draw off wastewater (and sludge) from the bottom. The transfer structures should be equipped with multiple valved drawoff lines so that wastewater can be drawn off from selected depths.
18. Warning sign details are needed.
19. The lagoon system must have a flow measurement structure at its effluent. Provide details.
20. The chlorine contact chamber must be provided with a baffle or scum collector.
21. A sump should be considered at the end of the chlorine contact chamber. This sump would serve as a safety factor so that the operator does not pull the weir boards and flush the accumulate sludge in the contact chamber to the river.
22. We must review and authorize the use of all selected aeration, chlorinator, and flow measurement equipment.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Mountain View Joint Powers Board
Sewerage Facilities Project
Mountain View, WY Uinta County

ARCHITECT OR ENGINEER:

John Proffit,

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

WATER QUALITY DIVISION REFERENCE NUMBER: 77-134R

REVIEWING ENGINEER: David W. Hill, ^{Dust} Don Armstrong, P. E.

DATE OF REVIEW: July 1, 1977

ACTION: Not Authorized for Construction

COMMENTS:

- 1) The influent and receiving station discharge point in the lagoon shall terminate at the 1/4 to 1/3 point in the first cell way from any dike to minimize solids deposition.
- 2) It is our feeling that in order to prevent adverse organic loading on the system, short term aeration must be provided in the receiving station. Please provide details. Also, please provide details of the proposed operation of the receiving station.
- 3) Detailed plans and specifications are still needed for the water tower-pump, blower building, and the chlorination building.
- 4) Warning sign details are still needed.
- 5) An effluent flow measuring structure is still needed.
- 6) It still appears that the cell transfer structures will draw off wastewater from the bottom of the cells. We recommend at least two draw off lines from the 3 to 6 foot depth. Facilities to drain the cells really have no useful function here because the entire system would have to be drained just to drain one cell.
- 7) Is the first cell in the system designed to be completely mixed or partially mixed? We have our doubts that enough air is supplied to keep it completely mixed.
- 8) We need to review the operation and maintenance guide.
- 9) A gas mask is needed for the chlorination facility. Provide details.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-135R

Bingo Service
(Name of Facility)

This permit hereby authorizes the applicant:

Telum, Inc.
(Last) (First) (Middle)
3227 North Canyon Road
(Street or P.O. Box)
Provo Utah 84601
(City) (County) (State)

to construct, install, or modify a Collection Lines, Septic Tanks, Sewage Lagoons
facility located in Section 35, T16N, R116W
(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:



Administrator
Water Quality Division



Director
Wyoming Dept. of Environmental Quality

June 9, 1977

Date of Issuance

cc: Uinta Engineering and Surveying, P.O. Box 746, Evanston, Wyoming 82930

REVIEW OF PLANS AND SPECIFICATIONS

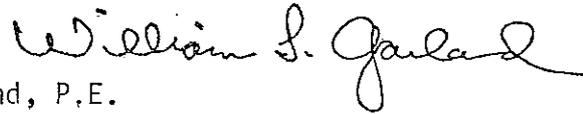
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Bingo Service, Sewage and Sewage Treatment System, Fort Bridger, WY,
Uinta County

ARCHITECT OR ENGINEER: John Proffit, P.E., Uinta Engineering and Surveying,
P.O. Box 746, Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 77-135

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



DATE OF REVIEW: May 10, 1977

ACTION: "AS - BUILT" SYSTEM IS NOT AUTHORIZED FOR RE-CONSTRUCTION

- COMMENTS:
- 1) This Department has jurisdiction over all water systems with two or more connections. Please submit all water system details, unless at least two spaces are deleted from the mobile home park.
 - 2) The lagoon embankments must be compacted to at least 95% maximum density. Please supply details.
 - 3) A manhole must be provided at the end of the 6 inch mobile home park line. Supply details.
 - 4) Please submit sewer line riser details.

DWH/jo

cc: Telum, Inc., Attention: John Okey, 3227 North Canyon Road,
Provo, Utah 84601

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-136

Centennial Addition

(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities

(Last) (First) (Middle)

136 W. 8th Street

(Street or P.O. Box)

Casper Natrona Wyoming 82601

(City) (County) (State)

to construct, install, or modify a Water and Sewer Extension

facility located in City of Casper

(Legal Description)

in the County of Natrona, in the State of

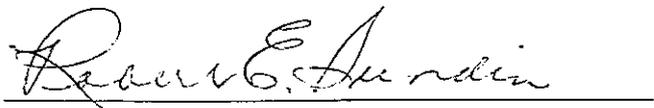
Wyoming. This permit shall be effective for a period of 2 years

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

Authorized by:



Administrator
Water Quality Division



Director
Wyoming Dept. of Environmental Quality

May 19, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

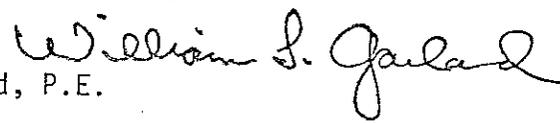
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Evanston, Water Improvement Project - Phase I, Evanston,
Wyoming, Uinta County

ARCHITECT OR ENGINEER: John A. Proffit, P.E., Uinta Engineering and Surveying,
P.O. Box 746, Evanston, Wyoming 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 77-137

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



DATE OF REVIEW: April 28, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) A pipe shall extend from the pressure relief-vacuum relief valve to the top of the pit. The open end of the pipe shall be provided with a downward facing, screened elbow.
 - 2) Please have city fill out and submit 2 copies "Application for Permit to Construct....."

DWH/jo

Enclosures - "Application for Permit to Construct,....."

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-137R

City of Evanston Water Improvements
(Name of Facility)

This permit hereby authorizes the applicant:

Evanston Joint Powers Board
(Last) (First) (Middle)
P. O. Box 130
(Street or P.O. Box)
Evanston, Uinta Wyoming
(City) (County) (State)

to construct, install, or modify a water system
facility located in Sec. 20 & 21, 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 P. Chaland
Administrator
Water Quality Division

Robert E. Sandin
Director
Wyoming Dept. of Environmental Quality

July 8, 1977

Date of Issuance

cc: John Proffit, P.E., Uinta Engineering & Surveying
P. O. Box 746
Evanston, WY 82930

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-138

Amoco Office Sanitary System
(Name of Facility)

This permit hereby authorizes the applicant:

Amoco Office Sanitary System
(Last) (First) (Middle)
c/o Joynson-Fermelia and Crank, Inc.
P.O. Box 1633
(Street or P.O. Box)
Rock Springs Sweetwater Wyoming 82901
(City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 13, T17N, R119W
(Legal Description)

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

Authorized by:

William J. Ireland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

June 1, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

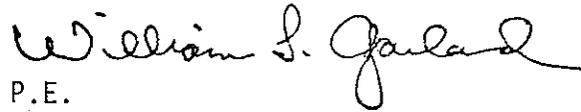
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: McMicken Street Sewer

ARCHITECT OR ENGINEER: City of Rawlins, P.O. Box 953, Rawlins, WY 82301
Attention: Jim Blackwell

WATER QUALITY DIVISION REFERENCE NUMBER: 77-142

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



DATE OF REVIEW: May 16, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. Manhole details shall be submitted.
 2. Standard maximum manhole spacing is 400 ft. If greater spacing is to be used, written verification that adequate cleaning equipment is available shall be required.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-142R

McMicken Street Sewer
(Name of Facility)

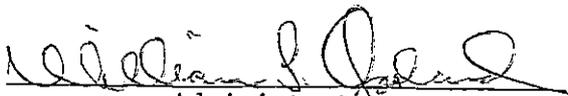
This permit hereby authorizes the applicant:

City of Rawlins
(Last) (First) (Middle)
City Engineer
P.O. Box 593
(Street or P.O. Box)
Rawlins Carbon Wyoming 82301
(City) (County) (State)

to construct, install, or modify a Sanitary Sewer Extension
facility located in Section 16, 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:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

June 9, 1977

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-143, REF. 76-370R

Donkey Creek Sewer Extension "B"
(Name of Facility)

This permit hereby authorizes the applicant:

City of Gillette
(Last) (First) (Middle)
Attention: Gary W. Albertson
P.O. Box 540
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Waste Facility Collection System
facility located in Section 34, T50N, R72W
(Legal Description)

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

Authorized by:

William S. Garland

Director
Wyoming Dept. of Environmental Quality

May 11, 1977
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-144

Pratt Addition No. 2
(Name of Facility)

This permit hereby authorizes the applicant:

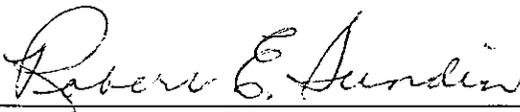
City of Casper
(Last) (First) (Middle)
City-County Building, Room 124
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

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

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

Authorized by:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

May 19, 1977

Date of Issuance

cc: Casper Board of Public Utilities, 136 West 8th Street, Casper, WY 82601

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-145

Rawlins Water System Improvements
(Name of Facility)

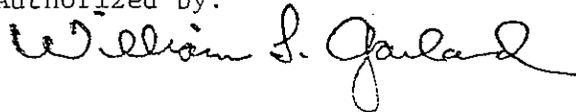
This permit hereby authorizes the applicant:

The 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 Water System Improvements
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:



Director
Wyoming Dept. of Environmental Quality

April 26, 1977

Date of Issuance

cc: Howard Needles Tammen and Bergendoff, P.O. Box 3478, Intermountain
Bldg., Casper, Wyoming 82601

REVIEW OF PLANS AND SPECIFICATIONS

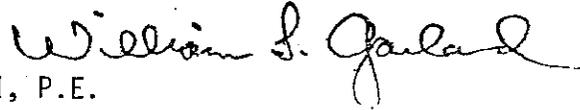
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Gros Ventre West & Bar Y Estates, Water System, Teton County, WY

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

WATER QUALITY DIVISION REFERENCE NUMBER: 77-146

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



DATE OF REVIEW: April 21, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) The steel storage tank can be bedded to a one third depth only if the tank is laid along its axis as expressed by my letter of March 1. All steel tanks erected vertically along its axis must be totally above ground.
- 2) The steel storage tank must meet AWWA D100-73. (i.e. - all steel plates in contact with the stored water must be $\frac{1}{4}$ " thick, all plates above the water line can be $\frac{3}{16}$ " thick).
- 3) The vent should be located as close to the center of the roof as possible. It should be adequately sized to pass air so that at the maximum rate of water, either entering or leaving the reservoir, excessive pressure or any vacuum will not develop. We question that a one-inch vent is large enough in this instance.
- 5) All paint used must meet AWWA D102-64.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Gros Ventre West & Bar Y Estates
Water System - Storage Tank
Teton County, WY

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

WATER QUALITY DIVISION REFERENCE NUMBER: 77-146R

REVIEWING ENGINEER: David W. Hill, ^{Rec'd} Don Armstrong, P. E.

DATE OF REVIEW: July 1, 1977

ACTION: Not Authorized for Construction

COMMENTS:

- 1) The manhole shall be framed at least four inches above the surface of the tank. It shall be fitted with a solid waterproof cover which overlaps the framed opening and extends down around the frame at least two inches. It shall also be locked.
- 2) The overflow and drain must discharge at least two feet above the spill line of the receiving ditch.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-146RR

Gros Ventre West and Bar Y Estates Water System
(Name of Facility)

This permit hereby authorizes the applicant:

Meckem William
(Last) (First) (Middle)

P.O. Box 989
(Street or P.O. Box)

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

to construct, install, or modify a Water Storage Tank
facility located in Section 19, and 20, T41N, R117W
(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. Ouland
Administrator
Water Quality Division

Robert E. ...
Director
Wyoming Dept. of Environmental Quality

August 5, 1977
Date of Issuance

cc: Peter Jorgensen, P.E., P.O. Box 1142, Jackson, WY 83001

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-147

Water System Improvements - Phase II
(Name of Facility)

This permit hereby authorizes the applicant:

City of Powell
(Last) (First) (Middle)
c/o Sanderson/Stewart/Mueller Engineering, Inc.
1629 Avenue D/Suite 7A
(Street or P.O. Box)
Billings Montana 59102
(City) (County) (State)

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

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

Authorized by:
William S. Gauland

Director
Wyoming Dept. of Environmental Quality

April 27, 1977

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-148R

Southerland Estates, Phase I

(Name of Facility)

This permit hereby authorizes the applicant:

Davis	Gary	L.
(Last)	(First)	(Middle)
1000 Poplar		
(Street or P.O. Box)		
Gillette	Campbell	Wyoming 82716
(City)	(County)	(State)

to construct, ~~xxxxxx, xxxxxxxx, xxx~~ water distribution and sewage collection
facility located in Section 33, T50N R72W
(Legal Description)

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

Authorized by:

William L. Fuland
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

June 29, 1977

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-148RR

Sutherland Estates

(Name of Facility)

This permit hereby authorizes the applicant:

<u>Davis</u> (Last)	<u>Gary</u> (First)	<u>L.</u> (Middle)
<u>1000 Poplar Lane</u> (Street or P.O. Box)		
<u>Gillette</u> (City)	<u>Campbell</u> (County)	<u>Wyoming 82716</u> (State)

to construct, install, or modify a Water Distribution and Sewage Collection
facility located in Section 33, T50N, R72W
(Legal Description)

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

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Aundin
Director
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sutherland Estates Phase I

ARCHITECT OR ENGINEER: Davis Surveying, 1000 Poplar Lane, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 77-148RR

REVIEWING ENGINEER: Don Armstrong, P.E., William

William S. Gaulard
P.E.

DATE OF REVIEW: October 6, 1977

ACTION: MODIFICATION OF PERMIT TO CONSTRUCT NO. 77-148R IS AUTHORIZED

COMMENTS:

The 12" watermain located in the Lakeway County Road R.O.W. may be replaced with a 10" watermain as specified in the plans and specifications.

REVIEW OF PLANS AND SPECIFICATIONS

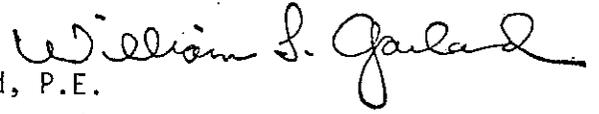
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Sutherland Estates - Gillette, Campbell County

ARCHITECT OR ENGINEER: R. H. Krum, Davis Surveying, 900 Stanley,
Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 77-148

REVIEWING ENGINEER: Dan H. Kim, William L. Garland, P.E.



DATE OF REVIEW: May 17, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
- 1) The enclosed application form shall be completed and returned along with the requested information.
 - 2) The location map should be included in Engineering drawings.
 - 3) Two copies of all plans and specifications are required.
 - 4) If water and sewerage system are to be connected to City mains, a letter of Verification from City of Gillette should be provided. This verification should indicate the City will accept the subdivision and supply water and sewage treatment for the subdivision.
 - 5) The total seepage and infiltration of groundwater shall in no case exceed a rate of 200 gpd/mile/inch diameter of pipe.
 - 6) Your specifications under "Sewer Service Lines" indicated that "Tee" and "Wye" are concurrent. Only "Y" branches are acceptable.
 - 7) Rocks found in the trench shall be removed for a depth of at least 6 inches below the bottom of the pipe.
 - 8) What's the intention of well site shown on page 17 of plans? Is it part of this application for a permit to construct?
 - 9) Provide size of water line at Fitch Street.
 - 10) Two dead ends of water line located on Vivian Avenue and Sutherland Street shall be placed by blowoffs or flushing hydrants.
 - 11) Disinfection of water line shall conform to the latest AWWA C601-68.

Sutherland Estates - Gillette, Campbell County

77-148

- 12) ASTM C-94 for ready-mixed concrete is outdated. Please eliminate this.
- 13) Our regulations requires all PVC pipes for water line to be in accordance with the latest AWWA C-900. Please revise your PVC pipe specification.
- 14) Due to the large number of comments, this cannot be considered a final review of plans and specifications.

REVIEW OF PLANS AND SPECIFICATIONS

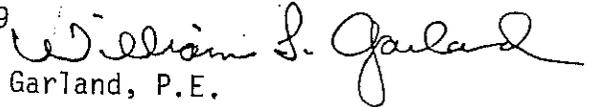
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Oregon Trail Estates, Glenrock, WY

ARCHITECT OR ENGINEER: Ken Wolz, P.O. Box 322, Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 77-149

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



DATE OF REVIEW: May 16, 1977

ACTION: CONSTRUCTION IS NOT AUTHORIZED

- COMMENTS:
1. Ensure 10 feet horizontal separation between water and sewer lines.
 2. Need letter of acceptance from Town.
 3. Lift Station requires standby power or pumping. Alarm should be telemetered for 24 hr. monitoring.
 4. Lift station wet well has very small capacity which may cause excessive pump when operating at design capacity.

cc: Town of Glenrock

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-149R

Oregon Trail Estates No. 2
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Glenrock
(Last) (First) (Middle)
c/o Ken Wolz
P.O. Box 322
(Street or P.O. Box)

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

to construct, install, or modify a Lift Station and Aerated Lagoon
facility located in Section 3 & 4, T33N, R75W
(Legal Description)

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

Authorized by:

William P. Oaland
Administrator
Water Quality Division

Robert E. Enderlin
Director
Wyoming Dept. of Environmental Quality

August 31, 1977
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

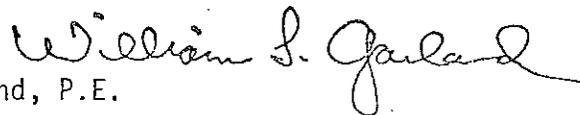
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Rawlins, 20 inch Transmission Line

ARCHITECT OR ENGINEER: HNTB, P.O. Box 3478, Casper, Wyoming 82601
Attention: John Donmyer

WATER QUALITY DIVISION REFERENCE NUMBER: 77-150

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



DATE OF REVIEW: May 4, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS: There do not appear to be any major problems with the plans.
The following points must be clarified, however.

- 1) The blow-off detail shall be completed to show a termination in a screened, downward-facing elbow.
- 2) How is the water main to be supported in the highway and railroad crossings? It shall not be in direct contact with the metal of the crossing.
- 3) Details of the joint restraints shall be provided.
- 4) What material is to be used for the chlorine solution rotameters and manifold? This is a somewhat unusual design, and the material must be suitable for this application.