

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-300R

Big Eagle Shop and Office
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Cosner</u>	<u>Harry</u>	<u>W.</u>
(Last)	(First)	(Middle)
<u>P.O. Box 450</u>		
(Street or P.O. Box)		
<u>Jeffrey City</u>	<u>Fremont</u>	<u>Wyoming 82310</u>
(City)	(County)	(State)

to construct, install, or modify a Sanitary Waste Septic Tank - Leach Field
facility located in Section 2 & 11, T27N, R92W
(Legal Description)

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

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Hurdin
Director
Wyoming Dept. of Environmental Quality

October 7, 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 Sheridan, Proposed Sanitary Sewer Extension, on First Avenue, East

ARCHITECT OR ENGINEER: S & W Associates, Consulting Engineers - Land Surveyors, Sheridan, WY 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 77-301

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

DATE OF REVIEW: 9-26-77

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide location map.
2. Provide size of existing sewer.
3. Provide letter from City of Sheridan indicating they will provide service.
4. Submit application to construct and two sets of drawings and specifications.
5. Will the City of Sheridan specifications be used?
6. Where are the taps located? They must be branches not saddles.
7. What will the line serve? Provide design details.
8. What are the specifications on the PVC pipe?

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Mountain View Subdivision No. 2, Water Supply Facilities,
Section 30, T1N, R4E

ARCHITECT OR ENGINEER: J. Roger Miller, P.E. - Miller Consulting Enigneers,
5308 South 12th Street,
Sheboygan, Wisconsin 53081

WATER QUALITY DIVISION REFERENCE NUMBER: 77-302

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

DATE OF REVIEW: August 22, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) All main water lines in a subdivision with permanent housing must have 4 inch lines.
- 2) Supply detailed bedding-backfill details.
- 3) Waterline pressure-leakage testing specifications are needed.
- 4) Waterline disinfection specifications are needed. It must be in accordance to AWWA C601-68.
- 5) Supply blowoff valve details. The end of the blowoff drain line must be at least two feet above the spill line of the receiving ditch and must be screened.
- 6) Supply thrust blocking details.
- 7) Supply valve specifications.
- 8) The new water system should be looped into the existing water system.
- 9) More water storage capacity appears to be needed for a reliable system. Please discuss.
- 10) Please supply complete design information for the existing well-hydropneumatic system. Will this existing system be able to handle the additional demand? Our crude calculations indicate a high degree of pump cycling.
- 11) Another booster pump is needed at Well No. 2 to provide for system reliability.

cc: Howard Johnson, Inberg Surveying, P.O. Box 230, Riverton, WY 82501

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-302R

Mountain View Subdivision No. 2
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Miller</u> (Last)	<u>James</u> (First)	<u>R.</u> (Middle)
<u>516 East Main Street</u> (Street or P.O. Box)		
<u>Riverton</u> (City)	<u>Fremont</u> (County)	<u>Wyoming 82501</u> (State)

to construct, install, or modify a Water Lines
facility located in Section 30, 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 J. Jones
Administrator
Water Quality Division

Robert E. Sinden
Director
Wyoming Dept. of Environmental Quality

November 18, 1977

Date of Issuance

cc: Miller Consulting Engineers, 5308 South 12th Street, Sheboygan, Wisconsin 53081

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 77-303

Skyline Ranch Water System

(Name of Facility)

This permit hereby authorizes the applicant:

Skyline Ranch

(Last)

(First)

(Middle)

P.O. Box 1142

(Street or P.O. Box)

Jackson

Teton

Wyoming 83001

(City)

(County)

(State)

to construct, install, or modify a Water

facility located in Section 25, 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 P. Galand
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

September 1, 1977

Date of Issuance

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-304

Town of Dubois
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Town of Dubois</u>		
<u>(Last)</u>	<u>(First)</u>	<u>(Middle)</u>
<u>P.O. Box 456</u>		
<u>(Street or P.O. Box)</u>		
<u>Dubois</u>	<u>Fremont</u>	<u>Wyoming 82513</u>
<u>(City)</u>	<u>(County)</u>	<u>(State)</u>

to construct, install, or modify a Water and Sewer lines
facility located in Section 1, 12, T41N, R107W
(Legal Description)

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

Authorized by:

William P. Oland
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

September 1, 1977

Date of Issuance

cc: Inberg Surveying Company, Inc., P.O. Box 230, Riverton, WY 82501
Attention: Howard Johnson

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-305

City of Gillette Sewerline Extension between 7th and 8th Streets
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Gillette Plumbing and Heating</u>		
(Last)	(First)	(Middle)
<u>P.O. Box 1176</u>		
(Street or P.O. Box)		
<u>Gillette</u>	<u>Campbell</u>	<u>Wyoming 82716</u>
(City)	(County)	(State)

to construct, install, or modify a Waste Collection
facility located in Section 27, T50N, R72W
(Legal Description)

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

Authorized by:

William J. Galand
Administrator
Water Quality Division

Robert E. Auerlin
Director
Wyoming Dept. of Environmental Quality

October 7, 1977
Date of Issuance

cc: R. J. Timm and Associates, P.O. Box 726, Gillette, WY 82716

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-306

Water Well and Pump Station - J & J Trailer Park
(Name of Facility)

This permit hereby authorizes the applicant:

Dickinson	Gerald	
(Last)	(First)	(Middle)
<hr/>		
P.O. Box 1951		
(Street or P.O. Box)		
<hr/>		
Gillette	Campbell	Wyoming 82716
(City)	(County)	(State)

to construct, install, or modify a Public Water Supply
facility located in Section 20, T50N, R72W
(Legal Description)

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

Authorized by:

William J. Palmer
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

August 29, 1977

Date of Issuance

cc: R. J. Timm and Associates, P.O. Box 726, Gillette, WY 82716

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-307RR

Fox Park Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Drum-Coulter

(Last)

(First)

(Middle)

P. O. Box 909

(Street or P.O. Box)

Gillette

(City)

Campbell

(County)

Wyoming 82716

(State)

to construct, install, or modify a Public Water Supply & Sewage Treatment Plant

facility located in Section 31, T50N, 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 J. Gale
 Administrator
 Water Quality Division

Robert E. Austin
 Director
 Wyoming Dept. of Environmental Quality

January 10, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Fox Park Subdivision - Water Supply and Sewage Treatment Plant
Campbell County

ARCHITECT OR ENGINEER: Russ Larson, P.E.
310 Miller - Suite K, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 77-307RR

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

DATE OF REVIEW: January 9, 1978



ACTION: CONSTRUCTION AUTHORIZED (The following items are not authorized but shall be provided in the time frame shown).

COMMENTS:

- 1). Standby power is required for surge basins and sewage treatment plant. The standby power is required to be constructed before the 50th house goes on the line. The plans and specifications have to be approved prior to construction.
- 2). The sludge disposal plan has to be approved by the time the sewage treatment plant becomes operational.

WATER SUPPLY

- 3). All pertinent information regarding the well shall be forwarded (i.e. depth, drawdown, actual pump output, chemical and bacteriological analysis, etc.). The well can be drilled if paper work required by the State Engineer is completed. Furnish above information as soon as possible.

WATER STORAGE TANK

- 4). Engineer shall sign a letter indicating he accepts the responsibility for the gaskets used in the construction of the tank which are not approved by FDA, EPA, AWWA, etc. The manufacturer should furnish this information (before use).
- 5). Enclosed is some additional information for the O & M Manual: The twenty-four hour digester shut off time before wasting is excessive in your submittal. A more realistic figure is 6 to 8 hours maximum.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Fox Park Subdivision, Water Supply and Sewage Treatment Facilities

ARCHITECT OR ENGINEER: Larson Engineering, 316 So. Gillette Avenue, Gillette,
WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 77-307

William L. Garland

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

DATE OF REVIEW: 9-26-77

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

- A. The storage tank is not an AWWA approved tank. Provide complete manufacturers data including structural designs.
- B. Well
 1. Provide chemical and bacteriological data of the well.
 2. Two wells are strongly recommended. Verify with yield and drawdown tests and data requested in 10 State Standards (Section 3,2,4.1) that the well will produce 200 gpm.
 3. What is the distance between natural ground level, highest flood level and the upper terminal of the well.
 4. Provide manufacturers data on wellcap and pitless adapter.
 5. Will the well be grouted to its full length? How will it be installed?
 6. What is the thickness of the well casing?
 7. Where will the chlorine line terminate in the well?
 8. Will the chlorine solution line withstand the pressures in the well?
 9. Why did you use this point of application of chlorination when all the water goes into the storage tank?
 10. Can the storage tank be bypassed to permit repairs.
 11. How will the well be perforated?

Fox Park Subdivision, Water Supply and Sewage Treatment Facilities

77-307

C. Pumphouse and chlorine room

1. Provide sump details.
2. Can the meter be repaired without a shut down of the system?
3. What is the 2 inch pipe for?
4. Will the suction side of the pumps provide enough water pressure to operate the chlorinator under all flow conditions?
5. Why are two pumps of different capacities being used instead of 3 pumps the same size?

D. Sewage treatment facility

1. A backflow preventor shall be provided on 3/4" water line to chlorine facility.
2. Drawings of the waste treatment facility are not complete. Please provide construction drawings, detail drawings, and the drawings showing the location of all of the equipment. The engineering data is not consistent with the drawings provided.
3. What is the amount and duration of the 100 yr. flood?
4. Provide an operation and maintenance manual.
5. Provide details of the outfall structure.
6. Will there be gratings over the plants open basins?
7. What will be the ultimate sludge disposal?
8. Where will screenings, etc., be disposed of?
9. What is the capacity of the air lift pumps?
10. Blowers shall meet the maximum air demand with single largest unit out of service. The blowers for S-850 are too small.
11. How will your treatment facility be protected against freezing and cold weather operations?
12. The water lines must be installed per our Chapter III Regulations.

Fox Park Subdivision, Water Supply and Sewage Treatment Facilities

77-307

13. Manholes shall be provided for changes in direction of sewer lines.

E. Due to the number of comments this cannot be considered a complete review.

Campbell
Co.
77-307 R

November 23, 1977

Larson Engineering
316 South Gillette Avenue
Gillette, Wyoming 82716

ATTN: Ted Hick

Dear Mr. Hick:

This letter is to follow up the telephone conversation relaying review items which need attention for the Fox Park Subdivision.

- 1). The proposed sludge disposal is unacceptable. Raw sludge cannot be disposed on land. Treatment is required. Also, the land application of treated sludge requires a permit from this office. The application should include a complete plan of disposal and survey of area (runoff control, soil types, ground water, vegetation, application rates, etc.)
- 2). The plans do not show the increased unit size of the smaller pump in the house.
- 3). The acceptability of the neoprene gasket used in the water storage tank has not been justified.

Should any questions arise, do not hesitate to contact me.

Yours truly,



Jake Strohmman
Environmental Engineer
Water Quality Division

JS/do

cc

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-308

Knife and Sons Trucking
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Knife</u> (Last)	<u>Dale</u> (First)	<u></u> (Middle)
<u>P.O. Box 377</u> (Street or P.O. Box)		
<u>Moorcroft</u> (City)	<u>Crook</u> (County)	<u>Wyoming 82721</u> (State)

to construct, install, or modify a Sewer Collection and Water Distribution
facility located in Section 22, T50N, R72W
(Legal Description)

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

Authorized by:

William J. Ireland
Administrator
Water Quality Division

Robert E. Luedin
Director
Wyoming Dept. of Environmental Quality

August 30, 1977

Date of Issuance

cc: Larson Engineering, 316 So. Gillette, Gillette, WY 82716

REVIEW OF PLANS AND SPECIFICATIONS

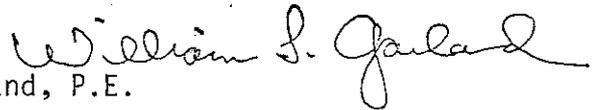
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Ranchester Packing - Waste Treatment Facility, Sheridan County

ARCHITECT OR ENGINEER: VTN, Wyoming, 330 No. Main, Sheridan, WY 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 77-309

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



DATE OF REVIEW: 10-11-77

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Due to the amount of information that was not supplied with the application this cannot be considered a complete review.

In a meeting held April 5, at VTN's office in Sheridan with Tom Mueller, Terry Book, Roy Prior of DEQ and Gene Hackleman and Larry Baccari of VTN the following items were agreed upon:

1. An overall water balance for the system which would include data on the existing facility before the installation of the aeration equipment to determine the condition of the existing bentonite lining.
2. The water levels would be lowered to provide three (3) feet of freeboard as had been discussed in the meeting of December 10, 1976.

By the letter of agreement between DEQ and Ranchester Packing dated December 6, 1976 the ponds should have a minimum operating depth of four (4) feet.

The plans and specifications as submitted do not meet the above agreements.

The original plans and specifications as approved indicated the facility should be constructed with a 3:1 horizontal to vertical side slopes. Without slope protection, an aerated lagoon should have 3:1 side slopes.

The following should also be provided:

Ranchester Packing - Waste Treatment Facility, Sheridan County

77-309

1. Specifications for the installation of the sewer pipe.
2. Specifications for the liners proposed.
3. Specifications for the installation of the liners.
4. Specifications and drawings for a concrete splash pad for the discharge pipe from Cell #2.
5. Surface area for each pond at low and high water levels.
6. Manufacturers information on the rain gun.
7. Manufacturers information on the pump.
8. Information as to where the drain in the pumphouse discharges to and what will be done with the effluent.

There are some serious problems with the pumphouse. There isn't any safety rails around the rain gun or access to it when the pond is full. It looks like the operator will have to go down into the pit to service the pump and there is no ventilation provided. The pumphouse as proposed should conform to the safety requirements of a lift station. Where is the door located? What is the motor base plate made out of?

The facility as proposed may not eliminate the odor problems. If the wastes are not stabilized in the first two cells, they will go septic in the winter months and the rain gun will only help to put the aromatics into the air.

M E M O R A N D U M

TO: William L. Garland, Administrator, Water Quality Division
FROM: Roy E. Prior, Environmental Engineer, Water Quality Division
DATE: October 11, 1977
SUBJECT: Ranchester Packing - Waste Treatment Facility, Sheridan County
77-309

This memo is to provide you with my comments for your consideration in the issuance or denial of the above referenced application for a permit to construct. It is my recommendation that the permit be denied for the following reasons:

The consultant did not provide us with any data on the existing system in order for us to determine if the present ponds are leaking. This information has been requested with every meeting we have had with the representatives of Ranchester Packing. We also agreed in the meeting that the free board on the ponds should be three feet, but the plans show one and a half foot free board.

They have requested that they be allowed to construct the third pond with 2:1 side slopes that the existing embankments are satisfactory with 2:1 side slopes. The original plans and specifications called for 3:1 side slopes. I think there should be 3:1 side slopes in an aerated lagoon that has no slope protection.

They also propose to vary the water level in all of the ponds. Their low water level in pond 1 and pond 2 is below the minimum level required to operate the aerators. According to the manufacturers information the aerators will operate in a three foot depth with anti-erosion plates. I am not sure a bentonite liner is best under such marginal conditions. I also feel the pond levels in pond 1 and 2 should be maintained above the three foot level to allow for evaporation and minimum working depth for the aerators.

The engineer should also provide the following:

1. Specifications for the installation of the sewer pipe.
2. Specifications for the liners proposed.

3. Specifications on installing the liners.
4. Information as to where the drain in the pumphouse discharges to.
5. The surface area for each pond at low and high water levels.
6. Specifications and drawings for a concrete splash pad for the discharge pipe from cell #2.
7. Manufacturers information on the rain gun.
8. Manufacturers information on the pump.

I feel there are some serious problems with the pumphouse. There isn't any safety rails around the rain gun or any access to it when the pond is full. It looks like an operator has to go down into the pit to service a pump and there is no ventilation provided. I think the pumphouse should conform to the safety requirements of a lift station. Depending upon where the door is could cause problems in safety also.

I would think the facility as proposed will cause odor problems.

Due to the number of comments this cannot be considered a complete review.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-310

Byron Water System Improvements
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Byron
(Last) (First) (Middle)
c/o Don Livingston, P.E.
P.O. Box 1539
(Street or P.O. Box)

Cody Park Wyoming 82414
(City) (County) (State)

to construct, install, or modify a Water System
facility located in town of Byron
(Legal Description)

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

Authorized by:

William J. O'Neil
Administrator
Water Quality Division

Robert E. Stender
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: Byron Water System Improvements, Byron, WY

ARCHITECT OR ENGINEER: Don Livingston, P.E. - P.O. Box 1539, Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 77-310

William L. Garland

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

DATE OF REVIEW: 8-30-77

ACTION: CONSTRUCTION AUTHORIZED (SEE COMPLIANCE ITEMS)

COMMENTS:

1. If sufficient funds are available, all proposed 4" diameter lines on 1st and 2nd streets N shall be installed as 6" diameter lines.
2. Outside of chlorine contact chambers shall be coated with a bituminous seal.
3. Baffles shall be added to chlorine contact tank.
4. Specify minimum size thrust blocks to provide adequate bearing area.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cherokee Ranch Subdivision, Rawlins, WY

ARCHITECT OR ENGINEER: Johnson-Fermelia and Crank, Inc., P.O. Box 631,
Kemmerer, Wyoming 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 77-311

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

DATE OF REVIEW: August 26, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

1. Infiltration into sewers shall not exceed 200 gallons per inch diameter per mile per day.
2. Pipe shall be laid on shaped bedding. "Class D" bedding is unacceptable.
3. Will the water line along Comanche ever be extended? If not, a fire or flushing hydrant should be located at the end of it.
4. The lift station appears to be just capable of handling peak flows with one pump out. It should be noted that the capacity of the lift station will probably have to be increased if future wastewater flows from the remaining phases of the subdivision are routed to it.
5. Please indicate how emergency operation of the lift station will be provided in case of power failure.
6. Please supply the following information on the sewage treatment facility:
 - Are there any major difficulties with routing the sewage into the Rawlins sewer system, apart from the present lack of a treatment facility?
 - What is the freeboard of the tanks?
 - How will sludge be wasted from the facility, and how will waste sludge be disposed of?
 - What type of chlorination equipment will be used?

Cherokee Ranch Subdivision, Rawlins, WY

77-311

- Are there any provisions for draining and bypassing the chlorine contact chamber for cleaning?
 - How and where will sewage flow be measured?
 - How deep will the plant be buried? Has covered operation been considered?
 - Please show a detail of the plant outfall, sufficient to indicate how effluent samples will be taken.
7. The sewage treatment facility will require a discharge permit. Mr. John Wagner of this office should be contacted in this matter.
 8. The sewage treatment facility will require a qualified operator. What legal entity will be responsible for operation and maintenance? Does the prospective operator have State Certification?
 9. The Water Quality Division will require verification that the City of Rawlins will agree to supply water to the subdivision.

NOTE: Standard ASTM C-200 for VCP sewer pipe is obsolete and has been replaced by C-700. The associated joint standard is C-425. The standards for PVC sewer pipe are ASTM D-3033 or D-3034.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-311R

Cherokee Ranch Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

Cherokee Ranches, Incorporated

(Last) (First) (Middle)
Johnson-Fermelia and Crank, Inc.
P.O. Box 631

(Street or P.O. Box)

Kemmerer Wyoming 83101
(City) (County) (State)

to construct, install, or modify a Water Distribution and Sewage Collection & Treatment
facility located in Section 13, T21N, R88W
(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 P. [Signature]
Administrator
Water Quality Division

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

October 11, 1977
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cherokee Ranch Subdivision

ARCHITECT OR ENGINEER: Johnson-Fermelia and Crank, Inc.

WATER QUALITY DIVISION REFERENCE NUMBER: 77-311R

William L. Garland

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

DATE OF REVIEW: 9-29-77

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The 6" waterline supplying this subdivision is considered marginal as a reliable and sufficient source. The ability of the line to maintain adequate pressure under fire flow conditions is questionable. Therefore, prior to any future phase development of the subdivision, a fully adequate source of water must be developed and/or demonstrated.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-312

Herrick Trailer Rentals

(Name of Facility)

This permit hereby authorizes the applicant:

Herrick	Donna	
(Last)	(First)	(Middle)
P.O. Box 1984		
(Street or P.O. Box)		
Gillette		Wyoming 82716
(City)	(County)	(State)

to construct, install, or modify a Septic System
facility located in Section 20, T34N, R79W
(Legal Description)

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

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

Authorized by:

William L. Galan
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-313

Hertz Rent-A-Car Car Wash
(Name of Facility)

This permit hereby authorizes the applicant:

King Construction Company
(Last) (First) (Middle)
320 Logan Street
(Street or P.O. Box)
Green River Sweetwater Wyoming 82935
(City) (County) (State)

to construct, install, or modify a Car wash disposal system
facility located in Section 30, T19N, R103W
(Legal Description)

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

Authorized by:

William J. Ojala
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 14, 1977
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-314R

Husky Car/Truck Stop

(Name of Facility)

This permit hereby authorizes the applicant:

Husky Oil Company

(Last)

(First)

(Middle)

404 North 31st Street

(Street or P.O. Box)

Billings

(City)

Montana 59101

(County)

(State)

to construct, install, or modify a Tertiary Treatment Rapid Sand Filter

facility located in West Rock Springs

(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. Galand
Administrator
Water Quality Division

Robert E. Jordan
Director
Wyoming Dept. of Environmental Quality

December 14, 1977

Date of Issuance

cc: Case/Cotter, Inc., 6625 East 49th Drive, Commerce City, CO 80022

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Husky Oil Company, Proposed Tertiary Treatment System, Rock Springs,
Wyoming, Sweetwater County~~

ARCHITECT OR ENGINEER: Carroll S. Delaney, P.E. - Case/Cotter, Inc., 6625 E. 49th
Drive, Commerce City, Colorado 80022

WATER QUALITY DIVISION REFERENCE NUMBER: ~~77-314~~

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

DATE OF REVIEW: September 6, 1977

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

- 1) Please fill out and submit two copies "Application for Permit to Construct, Install....."
- 2) Provide complete existing and design flow data (i.e. - peak flows, maximum daily flows, average flows).
- 3) The package plant at the time of our last inspection was in a deplorable operating condition. Indicate the steps which will be taken to revamp the facility to a efficient operating condition.
- 4) A sludge holding tank or aerobic digester is essential to the proper operation of any activated sludge plant. It is highly recommended that one be considered for this system.
- 5) Complete details of the pressure filter are needed (i.e. - media size and types, depth, etc.)
- 6) The system as presently designed appears very marginal in terms of reliability. At least two pressure filters, each able to handle peak flows, are highly recommended in order to provide reliability. Justify why only one pressure filter is used.
- 7) A operation and maintenance guide for the tertiary pressure filter is needed.
- 8) Is an air release valve needed on the pressure filter?
- 9) An access manhole should be provided in the pressure filter for maintenance and inspection.
- 10) How will freezing problems with the filter inflow line and foot valve be prevented?

Husky Oil Company, Proposed Tertiary Treatment System, Rock Springs,
Wyoming, Sweetwater County

77-314

- 11) Oil must be kept out of the pressure filters. Are all oil and grit pits in good condition and cleaned on a regular basis?
- 12) Indicate locations of the filter backwash line and the filter intake line in the pond. They must be separated far enough apart to prevent short circuiting.
- 13) We are concerned about the pond overflow line. Please justify why a pond overflow is still needed with this new system.
- 14) This review 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: Anderson Commercial Building, Commercial Waste Treatment System,
S $\frac{1}{2}$, Section 2, T33N, R100W, Fremont County, WY

ARCHITECT OR ENGINEER: John Cometto, P.E., The Company, Inc., P.O. Box 1026,
Lander, Wyoming 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 77-315

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

DATE OF REVIEW: August 26, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) Please submit two copies of all plans and specifications. One set shall be returned to you upon issuance of the permit.
- 2) Supply complete design criteria (i.e. - workers, flow per worker, washwater flow if any, etc.)
- 3) Septic tank details are needed.
- 4) Please fill out the reverse side of the "Small Waste Treatment Facility Checklist."
- 5) Indicate the type and size of pipe to be used. Cast iron pipe or schedule 40 PVC must be used at the inlet and outlet of the septic tank.

DWH/jo

cc: Mr. Harold Anderson, P.O. Box 7, Midwest, WY 82643

Enclosures - 2 Checklists
2 Title Sheets
2 Applications
2 Septic Tank Sheets
2 Standard Leach Field Sheets

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-315R

Meter Specialists, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

Anderson Harold I.
(Last) (First) (Middle)

P.O. Box 7
(Street or P.O. Box)

Midwest Wyoming 82643
(City) (County) (State)

to construct, install, or modify a Commercial Wastewater
facility located in Section 2, T33N, R100W
(Legal Description)

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

Authorized by:

William P. Ireland
Administrator
Water Quality Division

Robert E. Jensen
Director
Wyoming Dept. of Environmental Quality

October 11, 1977

Date of Issuance

cc: John Cometto, P.E., 340 Hedges, Lander, WY 82520

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Starlite Jade Mining Company, Section 2, T19N, R105W, Sweetwater
County, Wyoming~~

ARCHITECT OR ENGINEER: David P. Miller, P.E., P.O. Box 422, Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: ~~777-316~~

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

DATE OF REVIEW: August 25, 1977

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

- COMMENTS:
- 1) Complete design details are needed (i.e. - number of workers, flow per worker, etc.)
 - 2) Manhole is needed at the outlet side of the septic tank.
 - 3) The baffles in the septic tank must protrude to at least the 40 percent depth of the liquid.
 - 4) The leach field must be kept aerobic. It will be hard to maintain an aerobic condition with six foot deep leach lines.
- A shallower leach field should be used or a sidehill leach field.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-316R

Starlite Jade Mining Company, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Long</u> (Last)	<u>Max</u> (First)	<u>Loren</u> (Middle)
<u>P.O. Box 1931</u> (Street or P.O. Box)		
<u>Rock Springs</u> (City)	<u>Sweetwater</u> (County)	<u>Wyoming 82901</u> (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 2, T19N, R105W
(Legal Description)

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

Authorized by:

William P. Jones
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 22, 1977

Date of Issuance

cc: David P. Miller, P.E., P.O. Box 422, Rock Springs, Wyoming 82901

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-317R

Wapiti Valley Fire Association - Fire Truck Housing
(Name of Facility)

This permit hereby authorizes the applicant:

Wapiti Valley Fire Association
(Last) (First) (Middle)

(Street or P.O. Box)

Wapiti Park Wyoming 82450
(City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 18, T52N, R104W
(Legal Description)

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

Authorized by:

William J. [Signature]
Administrator
Water Quality Division

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

December 14, 1977

Date of Issuance

cc: George W. Tresler, P.O. Box 1050, Cody, Wyoming 82414

REVIEW OF PLANS AND SPECIFICATIONS

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

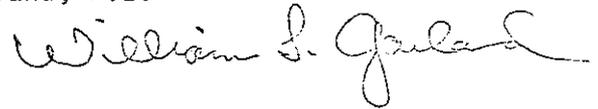
PROJECT: Wapiti Valley Fire Association, Fire Truck Housing, Section 18,
T52N, R104W, Park County, Wyoming

ARCHITECT OR ENGINEER: George W. Tresler, P.E. - P.O. Box 1050, Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 77-317

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

DATE OF REVIEW: November 3, 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, Install....."
- 2) Submit two copies of all plans and specifications. One set shall be returned to you upon our issuance of a permit.
- 3) Please indicate the slope of the sewer line from the fire hall to the septic tank.
- 4) Submit detailed drawing of the proposed septic tank.
- 5) The gravel in the leach field shall be covered with untreated building paper or equivalent (straw, hay, etc.) before backfilling.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-318

Grayrocks Construction Village

(Name of Facility)

This permit hereby authorizes the applicant:

Basin Electric Power Cooperative

(Last) (First) (Middle)
c/o Banner and Associates, Inc.
P.O. Box 550

(Street or P.O. Box)

Laramie Wyoming 82070
 (City) (County) (State)

to construct, install, or modify a Septic Sewage Tank
 facility located in Section 5, T25N, R65W
 (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. [Signature]
 Administrator
 Water Quality Division

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

September 15, 1977

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-319

Hutton Heights Sewer Improvements

(Name of Facility)

This permit hereby authorizes the applicant:

<u>Town of Green River</u>		
<u>(Last)</u>	<u>(First)</u>	<u>(Middle)</u>
<u>P.O. Box 127</u>		
<u>(Street or P.O. Box)</u>		
<u>Green River</u>	<u>Sweetwater</u>	<u>Wyoming 82935</u>
<u>(City)</u>	<u>(County)</u>	<u>(State)</u>

to construct, install, or modify a Sewer Line

facility located in _____
(Legal Description)

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

Authorized by:

William P. Janda
Administrator
Water Quality Division

Robert E. Scudler
Director
Wyoming Dept. of Environmental Quality

September 15, 1977

Date of Issuance

cc: Nelson Engineering, P.O. Box 1141, Jackson, WY 83001, Att: Robert Farnsworth, P.E.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: McDougall, Cooper, and Seamands Small Wastewater Facilities,
Fremont County, Wyoming

ARCHITECT OR ENGINEER: Ralph E. Goff, P.E. - Sewaco, Inc., P.O. Box 20345,
Salt Lake City, Utah 84120

WATER QUALITY DIVISION REFERENCE NUMBER: 77-320, 77-321, and 77-322

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

DATE OF REVIEW: September 6, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

William L. Garland

COMMENTS:

We are concerned about several design aspects of the evapotranspiration bed as follows:

- 1) Our Chapter III Rules and Regulations requires one foot of clean washed gravel $1\frac{1}{2}$ to $2\frac{1}{2}$ inches in size to be placed on the bottom of the beds.
- 2) Capillary action is essential to the proper operation of evapotranspiration beds. Clean, washed, sand should be placed over the gravel.
- 3) For proper capillary action the straw layer should be a minimum width, preferably no more than 2-3 inches.
- 4) The system must be aerobic. Six inches of top soil is too much. No more than 3-4 inches should be used.
- 5) Please discuss the type of grass and shrubs to be placed on the evapotranspiration bed.

cc: Clay Construction Company, Lander, WY 82520
Attention: Rich Dowell

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

State Office Building

Cheyenne, Wyoming 82002

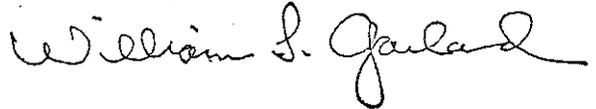
PROJECT: Proposed Mobile Home Park, Mountain View Addition, Lots 17-21,
Block 20, Natrona Co., WY

ARCHITECT OR ENGINEER: E. C. Lenhart, 632 S. David, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-323

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

DATE OF REVIEW: 9-12-77



ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS:

1. Have applicant complete application form?
2. A manhole is required at the junction and end of the 8 inch line. Send specifications for manholes.
3. Slope of the sewer line is .067 (??)
4. Furnish sewer alignment, joints and infiltration and exfiltration specifications.
5. What is a standard saddle connection for sewer and water connections? Send details and specifications.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 77-324R

Allied Chemical Corporation Water System
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Garland</u> (Last)	<u>B.</u> (First)	<u>W.</u> (Middle)
<u>P.O. Box 551</u> (Street or P.O. Box)		
<u>Green River</u> (City)	<u>Sweetwater</u> (County)	<u>Wyoming 82935</u> (State)

to construct, install, or modify a Chlorination System
facility located in Section 30, T19N, R109W
(Legal Description)

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

Authorized by:

William P. Garland
Administrator
Water Quality Division

Robert E. Scardin
Director
Wyoming Dept. of Environmental Quality

August 31, 1977

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-325

South McKinley Street Sewer Extension
 (Name of Facility)

This permit hereby authorizes the applicant:

City of Casper

C/O Worthington, Lenhart and Carpenter, Inc.
 632 S. David

(Street or P.O. Box)

Casper Natrona Wyoming 82601

(City) (County) (State)

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

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

Authorized by:

William P. Ojala
 Administrator
 Water Quality Division

Robert E. Lundin
 Director
 Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-326

Guardian Inspection Service

(Name of Facility)

This permit hereby authorizes the applicant:

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

to construct, install, or modify a Septic System
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.

NOTE: IN FUTURE SUBMITTALS, FURNISH DATA ON FLOW DETERMINATIONS (i.e. NUMBER OF EMPLOYEES AND USERS, SOURCE OF SUMP WATER, ANY CHEMICALS USED, ETC.)

Authorized by:

William J. [Signature]
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-327

C & Y Leasing Office Wastewater System

(Name of Facility)

This permit hereby authorizes the applicant:

C & Y Leasing

(Last) Harry Patterson, (First) P.E. (Middle)
c/o Harry Patterson, P.E.
437 South Spruce

(Street or P.O. Box)

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

to construct, install, or modify a Wastewater

facility located in NE $\frac{1}{4}$, SE $\frac{1}{4}$, SE $\frac{1}{4}$, NW $\frac{1}{4}$, Section 1, T33N, R78W

(Legal Description)

in the County of Natrona, in the State of

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

Authorized by:

William P. Quinn
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 23, 1977

Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: West Saddle Subdivision, Section 25, T45N, R65W, Newcastle, WY,
Weston Co.

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 727, Newcastle, WY 82701

WATER QUALITY DIVISION REFERENCE NUMBER: 77-328

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

DATE OF REVIEW: 9-27-77

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Can the lots in this subdivision be used for any other use than that of a place to park a mobile home?
2. Will the City of Newcastle own the sewer lines, waterlines and streets within the permit area?
3. What is the working pressure of the water system? If the working pressure is above 60 psi a prv should be installed.
4. Provide a location map and elevations in the subdivision.
5. Does the waterlines need air relief valves?
6. Two type of pvc water pipe are specified please clarify.
7. AWWA-C-110-64, AWWA-C111-64, C-601-54 and C-502-54 specifications are outdated.
8. Are there any areas that would require the special provisions as indicated in Section 10.312B, page 3?
9. What is municipal class 160 plastic service line?
10. Provide specifications for excessive sidefill pressure and pipe ovalation.
11. What is carefully compacted backfill?
12. Provide information requested in Section 25.9 of Ten State Standards for sewage.

West Saddle Subdivision, Section 25, T45N, R65W, Newcastle, WY,
Weston Co.

77-328

13. Due to the depth of sewerlines, most of the sewer taps will have to be made using water class pipe. These taps should be identified on the plans.
14. Provide water and sewerline crossing specifications per the requirements of the Division's Chapter III Regulations.
15. Provide a letter of acceptance from the City of Newcastle.
16. Provide mobile home hookup details.
17. Indicate which manholes will be drop manholes.
18. Fire hydrants should be AWWA approved.
19. This cannot be considered a final review.

REP/jo

cc: Tom L. Arnold, Newcastle, WY 82701

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-328R

West Saddle Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Arnold	Tom	L.
(Last)	(First)	(Middle)
c/o Plains Engineering		
P.O. Box 727		
(Street or P.O. Box)		
Newcastle	Weston	Wyoming 82701
(City)	(County)	(State)

to construct, install, or modify a Wastewater Collection and Water Distribution facility located in Section 25, T45N, R62W (Legal Description)

in the County of Weston, 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. Chalmers
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

November 3, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Hutton Heights Addition (Eighth Filing), Water and Sewer Facilities, Green River, Wyoming, Sweetwater County

ARCHITECT OR ENGINEER: Jerald B. Crews, P.E., Tudor Engineering Co.,
450 South Federal Blvd., Riverton,
WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 77-329

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

DATE OF REVIEW: September 8, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

William L. Garland

COMMENTS:

1. Please fill out and submit two copies "Application for Permit to Construct, Install....."
2. A letter is needed from P.P. & L. that they approve of the plans and can supply adequate water to the subdivision.
3. Provide design criteria (i.e. - population, flows per capita, capita per lot, future flows, etc.)

WATER SYSTEM

4. A blowoff or fire hydrant is needed at the ends of all deadend lines (i.e. - cul-de-sacs). Provide details.
5. Pressure and leakage tests shall be performed in accordance to AWWA C600-64 or AWWA C603-65. The waterline shall be filled with water a minimum of 24 hours before beginning the pressure test. The leakage test shall be no less than 2 hours long.
6. All waterlines must be disinfected in accordance to AWWA C601-68. Your disinfection specifications are fine but please refer to the AWWA standard in your specifications.
7. Supply thrust block details (i.e. - size, concrete strength, etc.)
8. Some of your specifications do not agree with the City of Green River specifications (i.e. - type of PVC pipe, etc.) Please be consistent.

Hutton Heights Addition (Eighth Filing), Water and Sewer
Facilities, Green River, Wyoming, Sweetwater County

77-329

- 9) The slope from Manhole 4 + 42.93 to Manhole 1 + 30.19 to the existing Manhole is less than our minimum design standards. This will be acceptable if the designing engineer furnishes computations of depth of flow in the sewer line at minimum, average, and peak rate of flow.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-329R

Hutton Heights Addition (Eighth Filing)
(Name of Facility)

This permit hereby authorizes the applicant:

Northwest Homes, Inc.
(Last) (First) (Middle)
c/o Tudor Engineering Company
450 So. Federal Blvd.
(Street or P.O. Box)
Riverton Wyoming 82501
(City) (County) (State)

to construct, install, or modify a Water and Sewer
facility located in Section 21, 28, 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 P. Jones
Administrator
Water Quality Division

Robert E. Sunden
Director
Wyoming Dept. of Environmental Quality

October 26, 1977
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-330

Wamsutter Water & Sewer Line Extensions

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Wamsutter		
_____	_____	_____
(Last)	(First)	(Middle)
P.O. Box 6		

(Street or P.O. Box)		
Wamsutter	Sweetwater	Wyoming 82336
_____	_____	_____
(City)	(County)	(State)

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

facility located in Section 34, T20N, R94W
(Legal Description)

in the County of Sweetwater, in the State of

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

Authorized by:

William P. Gale
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

September 15, 1977

Date of Issuance

cc: Nelson Engineering, P.O. Box 1141, Jackson, WY 83001, Att: Mickey Yamashiro, P.E.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-331

Spring House Renovation
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Douglas - Attention: Bill Galletly
 (Last) (First) (Middle)

130 S. 3rd
 (Street or P.O. Box)

Douglas Converse Wyoming 82633
 (City) (County) (State)

to construct, install, or modify a Spring House
 facility located in town of Douglas
 (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 J. DeLoach
 Administrator
 Water Quality Division

Robert E. Eberlein
 Director
 Wyoming Dept. of Environmental Quality

August 31, 1977

Date of Issuance

cc: Nelson Engineering, P.O. Box 1141, Jackson, WY 83001

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Spring House Renovation, Douglas, WY~~

ARCHITECT OR ENGINEER: Albert Nelson - Nelson Engineering, P.O. Box 1141,
Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: ~~77-331~~

William L. Garland

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

DATE OF REVIEW: 8-30-77

ACTION: ~~CONSTRUCTION AUTHORIZED (SEE COMPLIANCE ITEM)~~

COMMENTS:

1. The drainage away from the drain waste pipe should be excavated to provide drainage away from the spring house and provide one (1) foot separation between the bottom of the drain pipe and the top of the water. This should be accomplished by the Town personnel or let in this contract.

JS/jo

cc: Bill Galletly, Town of Douglas, 130 S. 3rd, Douglas, WY 82633

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-332

Latigo Hills Filing No. 1
(Name of Facility)

This permit hereby authorizes the applicant:

Housing Services, Inc. Attention: Frank L. Novak
(Last) (First) (Middle)
1500 Security Life Building
(Street or P.O. Box)
Denver Colorado 80202
(City) (County) (State)

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

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

Authorized by:

William J. O'Connell
Administrator
Water Quality Division

Robert E. Auerlein
Director
Wyoming Dept. of Environmental Quality

October 24, 1977
Date of Issuance
cc: City of Gillette, Department of Planning and Development, P.O. Box 540,
Gillette, WY 82716

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-333R

Dilts Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Douglas

(Last) (First) (Middle)

c/o C. E. Spurlock, Jr.

P.O. Box 0

(Street or P.O. Box)

Lander

(City)

(County)

Wyoming 82520

(State)

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

facility located in NE $\frac{1}{4}$, SW $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 8, T32N, R71W

(Legal Description)

in the County of Converse, in the State of

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

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

Authorized by:

William J. Galand

Administrator

Water Quality Division

Robert E. Burdick

Director

Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Dilts Subdivision, Water and Sewer Extension, NE $\frac{1}{4}$, SW $\frac{1}{4}$,
NW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 8, T32N, R71W, Douglas, WY

ARCHITECT OR ENGINEER: C. E. Spurlock, Jr., Box 0, Lander, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 77-333R

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

DATE OF REVIEW: 9-8-77

ACTION: CONSTRUCTION AUTHORIZED (ENGINEER HAS AGREED TO PUT THE FOLLOWING
COMMENTS IN SPECIFICATIONS)

COMMENTS:

1. Indicate minimum size and bearing area for thrust blocks.
2. Lamping specifications.
3. Maximum allowable pipe deflection of 5% of diameter.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-334

Millward Street & Spruce Drive Water & Sewer Extensions
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Jackson
(Last) (First) (Middle)
P.O. Box 1687
(Street or P.O. Box)
Jackson Teton Wyoming 83001
(City) (County) (State)

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

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

Authorized by:

William P. Quinn
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

September 22, 1977

Date of Issuance
cc: Nelson Engineering, P.O. Box 1141, Jackson, WY 83001, Attention: Albert Nelson

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-335RR

Lucky Mc Uranium Corporation
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)
550 California Street
(Street or P.O. Box)
San Francisco California 94014
(City) (County) (State)

to construct, install, or modify a Water Distribution, Sewage Collection and Storm Sewers
facility located in Section 9, T29N, R92W
(Legal Description)

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

Authorized by:

William J. Galand
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

December 13, 1977

Date of Issuance

cc: Gingery Associates, Inc., 2840 South Vallejo Street, Englewood, CO 80110
Attention: Robert T. Adamczyk
Harmon, O'Donnell and Henninge, Associates, Inc., 2727 E. 2nd Ave., Denver, CO 80206

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-335R

Lucky Mc Uranium Corporation
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corporation
(Last) (First) (Middle)
550 California Street
(Street or P.O. Box)
San Francisco California 94014
(City) (County) (State)

to construct, install, or modify a Water Distribution, Sewage Collection, and Storm Sewers
facility located in Section 9, T29N, R92W
(Legal Description)

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

Authorized by:

William J. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

cc: Gingery Associates, Inc., 2840 South Vallejo Street, Englewood, CO 80110
Attention: Robert T. Adamczyk
Harmon O'Donne[?] and Henninger Associates, Inc., 2727 E. 2nd Ave., Denver, CO 80206

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Lucky Mc Addition No. 1, Section 9, T29N, R92W, Fremont Co., WY

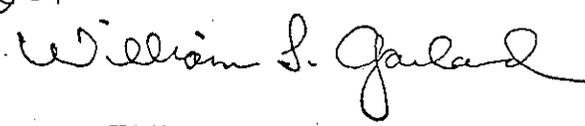
ARCHITECT OR ENGINEER: Gingery Associates, Inc., 2840 South Vallejo Street,
Englewood, Colorado 80110

WATER QUALITY DIVISION REFERENCE NUMBER: 77-335

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

DATE OF REVIEW: September 20, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION



COMMENTS:

GENERAL

- 1) We need complete detailed design data for the water and sewer system (i.e. - population, average flow, peak flow, ultimate flow to lift station, etc.)
- 2) The minimum horizontal distance between water and sewer lines shall be ten feet, edge to edge.
- 3) The vertical separation specification also applies to house sewers and storm sewers. Please make this clear in the vertical separation specifications. (Sheet 9 of 14)

WATER SYSTEM

- 4) On Sheet 3 of 14, storm sewer manhole at the intersection of the Entrance Road and Collector Road appears to be less than 10 feet from the water main.
- 5) The deadend water line on Collector Road (Sheet 4 of 14) is not acceptable. A temporary hydrant or blowoff valve is required.

SEWER SYSTEM

- 6) The pressure - leakage test shall conform to AWWA C600. The pressure test shall last at least 1 hr, while the duration of the leakage test shall be at least two hours.
- 7) Adequate provisions must be made for power outages. Please discuss. An alternate power source will be required when the subdivision reaches 50 homes.

Lucky Mc Addition No. 1, Section 9, T29N, R92W, Fremont Co., WY
77-335

- 8) A lamping specification for straight alignment between manholes in straight sections is needed.
- 9) Indicate the lift station ventilation blower capacity. It must be able to provide for at least 30 air changes per hour if operated intermittently.

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 77-337

Bar 13 Ranch Sewage System

(Name of Facility)

This permit hereby authorizes the applicant:

<u>Hunnicut</u>	<u>Jim</u>	<u>L.</u>
(Last)	(First)	(Middle)
<u>3544 Boston Road</u>		
(Street or P.O. Box)		
<u>Cheyenne</u>	<u>Wyoming</u>	<u>82001</u>
(City)	(County)	(State)

to construct, install, or modify a Septic Tank and Leach Field
facility located in Section 13, T13N, R69W
(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 S. Goad
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 22, 1977

Date of Issuance

cc: D. M. Hopkins and Associates, 1709 Carey Avenue, Cheyenne, WY 82001

171
12 10 86

PERMIT TO CONSTRUCT

New

Permit No.

77-338

Renewal

Modified

FOX PARK SUBDIVISION - PHASE II

(Name of Facility)

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

Fox Park Subdivision

P.O. Box 909

Gillette, Wyoming 82716

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

facility according to the procedures and conditions of the application

No. 77-338. The facility is located in Section 31,

T.50N., R.71W.

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

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

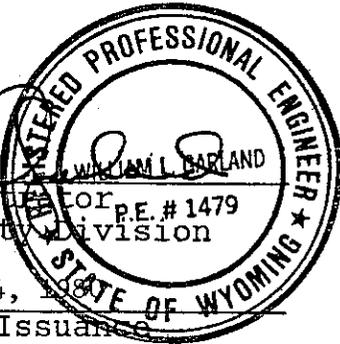
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

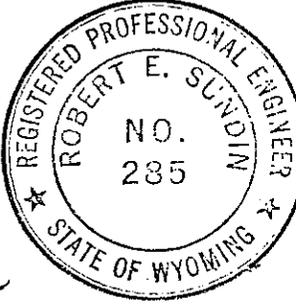
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

AUTHORIZED BY:


William L. Barland
Administrator
Water Quality Division
December 4, 1988
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Coulter Agency (Attn: Cheryl)
Box 909
Gillette, WY 82716

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-338

Fox Park Subdivision - Phase II
(Name of Facility)

This permit hereby authorizes the applicant:

Fox Park Subdivision
(Last) (First) (Middle)
P.O. Box 909
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Sewage Collection and Water Distribution
facility located in Section 31, T50N, 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 J. Jones
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

October 26, 1977

Date of Issuance
cc: Larson Engineering, 316 So. Gillette Avenue, Gillette, WY 82716

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-339R

River Bend Subdivision & Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

Bretton Corporation
(Last) (First) (Middle)
c/o R. G. Stuckert & Associates
P. O. Box 901
(Street or P.O. Box)
Buffalo Johnson Wyoming 82834
(City) (County) (State)

to construct, install, or modify a Water Distribution & Sewer Collection
facility located in Section 12, T43N, R82W
(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 S. Paul
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

February 9, 1978
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

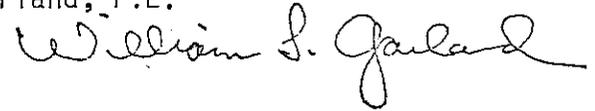
PROJECT: Riverbend Subdivision and Mobile Home Park, Water and Sewer Lines

ARCHITECT OR ENGINEER: R. G. Stuckert and Associates, Inc., P.O. Box 901,
Buffalo, WY 82834

WATER QUALITY DIVISION REFERENCE NUMBER: 77-339

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

DATE OF REVIEW: 10-17-77



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. What is the slope of the sewer service to the mobile home risers?
2. Provide a profile of the sewer line between MH 5 and MH 6.
3. Sewer line lengths as noted on the plan and profile views do not correspond with each other.
4. Due to the depth of the sewer line on Denines Drive some of the service taps will have to be made with water service type pipe where they cross under the water line.
5. Infiltration and exfiltration specifications shall be for each section of pipe. (i.e. - manhole to manhole).
6. The deadend lines need a fire hydrant or blowoff valve.
7. Verify the use of a 10 inch water line that is fed by a 6 inch line.
8. The C104 and C106 specifications used are outdated.
9. What will the working and static pressure of the system be?
10. This cannot be considered a complete review.

cc: Bretton Corp., John Sloan-President, P.O. Box 2931, Casper, WY. 82601

October 19, 1977

R. G. Stuckert and Associates, Inc.
P.O. Box 901
Buffalo, Wyoming 82834

Dear Sirs:

RE: Our plan review dated 10-17-77 and
numbered 77-339

In our review of your plans and specifications a major item was inadvertently overlooked in preparing our list of comments. The comment that was omitted is that all of the waterlines within the subdivision and mobile home park must be 6 inches in diameter or larger. Please consider this comment as part of our review.

Sincerely,



Roy E. Prior
Environmental Engineer
Water Quality Division

REP/jo

cc: Bretton Corporation, John Sloan - President, P.O. Box 2931, Casper,
WY 82501

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-340

Saratoga Water Treatment Plant

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Saratoga

(Last) (First) (Middle)

c/o Western Engineers - Architects
501 N. Sun Drive

(Street or P.O. Box)

Casper

Wyoming 82601

(City)

(County)

(State)

New Water Treatment Plant

to construct, install, or modify a and Water Treatment Plant Renovation

facility located in Section 11, T17N, R84W

(Legal Description)

in the County of Carbon, in the State of

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

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

Authorized by:

William J. Gable
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

October 26, 1977

Date of Issuance

cc: The Honorable Kathy Glode, Mayor, Town of Saratoga, P.O. Box 486, Saratoga, WY 82331

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Canyon Inn, Section 24, T28N, R120W, Lincoln County, Wyoming

ARCHITECT OR ENGINEER: Robert L. Farnsworth, P.E., Nelson Engineering,
P.O. Box 1141, Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 77-341

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

DATE OF REVIEW: September 15, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) An estimated hydraulic load of 50 gpd/unit seems low. Metcalf and Eddy recommends 100 gpd/unit. Please rationalize your choice of 50 gpd/unit and 5 washes @ 50 gal/wash.
 - 2) In order to provide for sufficient stabilization of the wastewater, the fill sand should have a percolation rate no slower than 5-10 minutes/inch.
 - 3) Highly recommend that a high-water level alarm be installed.
 - 4) A check valve is needed on the discharge line from the submersible pump.
 - 5) The finish grade of the elevated disposal field must extend at least ten feet beyond the leaching area, before tapering off at a 3:1 slope.
 - 6) A compacted barrier of clay-type soil is needed at the toe of the fill to prevent seeping.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-341R

Canyon Inn
(Name of Facility)

This permit hereby authorizes the applicant:

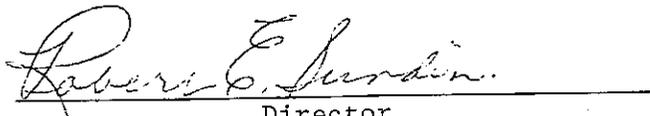
<u>Lowe</u> (Last)	<u>Raymond</u> (First)	<u></u> (Middle)
<u>Canyon Inn</u> (Street or P.O. Box)		
<u>Cokeville</u> (City)	<u>Lincoln</u> (County)	<u>Wyoming 83114</u> (State)

to construct, install, or modify a Sewage Disposal System
facility located in Section 24, T28N, R120W
(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:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

October 24, 1977

Date of Issuance

cc: Nelson Engineering, P.O. Box 1141, Jackson, WY 83001 - Attention: Robert Farnsworth, P.E.

REVIEW OF PLANS AND SPECIFICATIONS

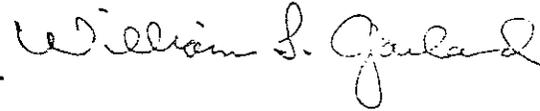
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Homestead Mall, Trunk Sewer and Water Main, Gillette, WY

ARCHITECT OR ENGINEER: Consulting Engineer, Inc., Bill H. Hemmings, 1629 Ave.
D/Suite 7A, Billings Montana 59102

WATER QUALITY DIVISION REFERENCE NUMBER: 77-342

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



DATE OF REVIEW: November 3, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) Enclosed is an application for a permit to construct, which should be completed and returned to our office.
- 2) 2 sets of plans and specifications are required.
- 3) A scope of work shall be provided. Please differentiate the lines that are included in this project from those that are not included.
- 4) A letter of verification from City of Gillette is required, stating that they will provide the service.
- 5) Details of water main connection to the existing line at the North corner of Husky Truck Shop should be provided. What is the size of the existing waterline?
- 6) Under-water crossing does not meet the requirements of 10 State Standards.
- 7) Water-sewer crossing specifications shall comply with State Water Quality Chapter III Rules and Regulations (See enclosed copy).
- 8) Disinfection specifications for waterline shall comply with AWWA C601-68. The chlorination residual after 24 hrs. shall not be less than 25 ppm.
- 9) Compaction by flooding or soaking with water are not allowed in this area.
- 10) Specifications concerning relieving the bells of the pipe should be provided. Pipes shall not rest on bells.
- 11) Tee saddles are not acceptable for sewer service connections (see typical drawing). Wye branches should be used.

Homestead Mall, Trunk Sewer and Water Main, Gillette, WY

77-342

- 12) Maximum allowable vertical deflection should not be more than $7\frac{1}{2}\%$ of the pipes internal diameter. 5% would be more preferable.
- 13) This cannot be considered a final review.

DHK/jo
Enclosure

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-342R

Homestead Mall - Gillette
(Name of Facility)

This permit hereby authorizes the applicant:

Sanderson/Stewart/Mueller
(Last) (First) (Middle)

1629 Ave. D/Suite 7A
(Street or P.O. Box)

Billings Montana 59102
(City) (County) (State)

to construct, install, or modify a Sewer Collection and Water Distribution
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 J. O'Neal
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

December 14, 1977

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-343

Shaw Waste Treatment Facility
(Name of Facility)

This permit hereby authorizes the applicant:

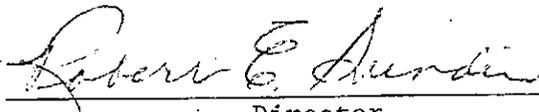
Shaw J. Richard
(Last) (First) (Middle)
P.O. Box 157
(Street or P.O. Box)
Big Horn Sheridan Wyoming 82833
(City) (County) (State)

to construct, install, or modify a Waste Treatment
facility located in Section 4, T54N, 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:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

October 17, 1977

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-344

Rawlins Water Line Extensions

(Name of Facility)

This permit hereby authorizes the applicant:

City of Rawlins

(Last) (First) (Middle)
 c/o Jim Carney, City Engineer
 P.O. Box 953

(Street or P.O. Box)

Rawlins Carbon Wyoming 82301

(City) (County) (State)

to construct, install, or modify a Water Distribution

facility located in Rawlins City Limits

(Legal Description)

in the County of Carbon, in the State of

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

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

Authorized by:

William J. Garland
 Administrator
 Water Quality Division

Robert E. Sandin
 Director
 Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-345

Harland Machinery

(Name of Facility)

This permit hereby authorizes the applicant:

DeVault - Morton, Inc.

(Last) (First) (Middle)
814 E. 21st

(Street or P.O. Box)
Casper Natrona Wyoming 82601

(City) (County) (State)

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

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

NOTE: ENSURE WATERLINE HAS REQUIRED SEPARATION. SHOW LINES AND WELLS ON PLOT PLAN WITH FUTURE SUBMITTALS.

cc: Western Construction, Inc., 1255 East "C" Street, Box 930, Casper, WY 82602

Authorized by:

William J. Galar
Administrator
Water Quality Division

Robert E. Sardin
Director
Wyoming Dept. of Environmental Quality

September 15, 1977

Date of Issuance

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



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 29, 1977

Mr. Kenneth Ohm
307 East Mountain Drive
Sheridan, Wyoming 82801

SUBJECT: Sun Village, Ref. No. 77-346RR

Dear Mr. Ohm:

Plans and specifications for the Sun Village Mobile Home Park have been satisfactorily upgraded and are hereby approved. No actual permit will be issued, since much of the actual construction has already taken place.

I would remind you once again that the Park must be constructed in accordance with the final plans and specifications. To that end, I have enclosed a copy of the latest specification revision and some other information you should make use of.

If you have any further questions on this matter, feel free to give me a call.

Yours truly,

A handwritten signature in cursive script that reads "William L. Garland".

William L. Garland
Administrator
Water Quality Division

WLG/jo
Enclosure

cc: Gene Hackleman, VTN, 330 N. Main, Sheridan, WY 82801
Chron File
Sheridan District Sanitarian

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sun Village Mobile Home Park - Sheridan County

ARCHITECT OR ENGINEER: Thomas J. Aksamit - Owner: Kenneth Ohm, 307 E. Mtn.
View Dr., Sheridan, WY 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 77-346

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

DATE OF REVIEW: 10-18-77

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

It is our understanding that the facility has been constructed. The facility as represented by the drawings submitted will not meet our minimum requirements.

The submitted drawings did not provide specifications on type of pipe, how the pipe is to be installed, manholes, typical drawings on the water and sewer risers, distance between risers, details about the pump, storage tank, well, a chemical and bacteriological analysis of the water, design data for the water system, etc.

Cleanouts can only be used at the end of collection lines and only if the line is 150 feet long or less. The typical drawing does not correspond with the plan view submitted.

The facility needs to be redesigned according to Water Quality Divisions Chapter III regulations, Appendix A and be resubmitted for a permit to construct before any changes are made. Any further construction without a permit will be referred to the Attorney General for action.

Due to the number of items involved this cannot be considered a final review.

cc: Leslie E. Jayne, Sheridan Area Planning Agency, P.O. Box 652,
Sheridan, WY 82801
South Side Water and Sewer District, c/o Robert W. Koester, 172
N. Main, Sheridan, WY 82801

REVIEW OF PLANS AND SPECIFICATIONS

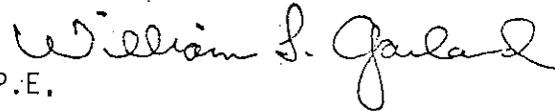
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Sun Village Trailer Park

ARCHITECT OR ENGINEER: VTN, 330 N. Main, Sheridan, Wyoming 82801
Attention: Gene Hackleman

WATER QUALITY DIVISION REFERENCE NUMBER: 77-346R

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



DATE OF REVIEW: 12-6-77

ACTION: NOT APPROVED. SEE COMMENTS.

COMMENTS:

1. The water well will deliver only 16 gpm. The system should be designed to deliver a peak flow of approximately 29 gpm according to Chapter III of "Wyoming Water Quality Rules and Regulations." Similarly, the hydropneumatic tanks should have a total capacity of 290 gallons.
2. The hydropneumatic tank information does not indicate that the tanks meet ASME Code. Requirements for unfired pressure vessels.
3. No information is supplied to indicate how water lines are protected at water-sewer crossings.
4. No well seal detail is shown.
5. No water main disinfection specification is included.
6. No chemical analysis of the well water is included.
7. Is the groundwater level above the sewerlines? If so, an infiltration limitation is needed.
8. Class 160 water pipe is not allowed. In light of the fact that the installation has already been made, replacement does not appear to be warranted in this case. Please be aware, however, that this material will not be approved for construction.
9. The Water-Sure 050 chlorinator cannot be used in a pressurized water system. If a chlorinator is needed or desired, a system capable of injecting hypochlorite solution under pressure will be required.



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 29, 1977

Mr. Kenneth Ohm
307 East Mountain Drive
Sheridan, Wyoming 82801

SUBJECT: Sun Village, Ref. No. 77-346RR

Dear Mr. Ohm:

Plans and specifications for the Sun Village Mobile Home Park have been satisfactorily upgraded and are hereby approved. No actual permit will be issued, since much of the actual construction has already taken place.

I would remind you once again that the Park must be constructed in accordance with the final plans and specifications. To that end, I have enclosed a copy of the latest specification revision and some other information you should make use of.

If you have any further questions on this matter, feel free to give me a call.

Yours truly,

A handwritten signature in cursive script that reads "William L. Garland".

William L. Garland
Administrator
Water Quality Division

WLG/jo
Enclosure

cc: Gene Hackleman, VTN, 330 N. Main, Sheridan, WY 82801
Chron File
Sheridan District Sanitarian

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 77-347

Jafer, Inc. - Residence - Wastewater Disposal
(Name of Facility)

This permit hereby authorizes the applicant:

Jafer, Inc.

(Last)

(First)

(Middle)

1731 Kingsboro.

(Street or P.O. Box)

Casper

Natrona

Wyoming 82601

(City)

(County)

(State)

Wastewater Disposal

to construct, install, or modify a

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.

cc: Western Construction Company, P.O. Box 930, Casper, WY 82602

NOTE: WITH A PERCOLATION RATE OF 7½ MINUTES PER INCH, THIS OFFICE WOULD QUESTION THE NECESSITY OF AN E.O. SYSTEM.

Authorized by:

William J. Geland

Administrator

Water Quality Division

Robert E. Lundin

Director

Wyoming Dept. of Environmental Quality

October 11, 1977

Date of Issuance

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 77-348

Girl Scouts of America - Visitors Center
(Name of Facility)

This permit hereby authorizes the applicant:

Girl Scouts of the U.S.A.
(Last) (First) (Middle)
National Center West
(Street or P.O. Box)
Tensleep Washakie Wyoming 82442
(City) (County) (State)

to construct, install, or modify a Sewage Disposal
facility located in Section 33, T47N, R87W
(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 P. Galo
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 15, 1977

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

Kennecott Energy Company
505 South Gillette Avenue
Caller Box 3009
Gillette, Wyoming 82717-3009
(307) 687-6000 Fax: (307) 687-6015

*Patti
Please file this with
these permits
eJB*

**Kennecott
Energy**

July 24, 1998

Mr. Gary Beach
WDEQ - Water Quality Division Administrator
Herschler Building - 122 West 25th Street
Cheyenne, WY 82002

Re: Notification of Corporate Changes; Jacobs Ranch Mine Facility

Dear Mr. Beach:

Kennecott Energy and Coal Company (KECC) has purchased from Kerr-McGee Corporation all of the stock in Kerr-McGee Coal Corporation (KMCC), a Delaware corporation. The close of the purchase and sales agreement occurred on July 23. KMCC owns and operates the Jacobs Ranch Mine.

This transaction represents a pure stock transfer, with continuation of the existing Delaware corporation. The transaction involves neither new or changed stock, nor any corporate reorganization of stock. However, to meet requirements of the agreement, KECC changed the name from Kerr-McGee Coal Corporation to Jacobs Ranch Coal Company immediately upon close of the transaction yesterday. The original corporation will be maintained, but under the new name and different management personnel. The facility name of Jacobs Ranch Mine will remain unchanged.

This document serves as formal notification of the change in name relative to the Jacobs Ranch Mine Stormwater Pollution Prevention Plan, Permits WY-0023531, WYR000096, 74-77, 77-349R, and 78-552. All applicable permit requirements and commitments remain unchanged, and will continue to be met by the facility under Jacobs Ranch Coal Company.

If I can provide any additional information, please contact me at (307) 687-6061 or at the letterhead address.

Sincerely,

Bob Green

Bob Green
Environmental Manager

RECEIVED

JUL 28 1998

WATER QUALITY DIVISION
WYOMING

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-349R

Kerr-McGee Wastewater Pond

(Name of Facility)

This permit hereby authorizes the applicant:

Kerr-McGee Corporation

(Last)

(First)

(Middle)

400 South Miller Avenue - P. O. Drawer 1509

(Street or P.O. Box)

Gillette

(City)

Campbell

(County)

Wyoming 82716

(State)

to construct, install, or modify a Dry Coal Preparation

facility located in Section 11, T43N, R70W

(Legal Description)

in the County of Campbell, 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. Garland

Administrator

Water Quality Division

Robert E. Lundin

Director

Wyoming Dept. of Environmental Quality

January 9, 1978

Date of Issuance



KERR-McGEE COAL CORPORATION

POST OFFICE DRAWER 1509 • GILLETTE, WYOMING 82716

December 22, 1977



Mr. Jake Strohman
Wyoming Department of Environmental Quality
Water Quality Division
Hathaway Building
Cheyenne, Wyoming

RE: Permit No. 77-349

Dear Mr. Strohman:

A permit to construct a dry coal preparation facility washdown lagoon was received October 17, 1977. In the permit application it was stated that the lagoon would be lined with bentonitic clay to minimize water seepage into the ground. At that time, a water well 100 feet southeast of the lagoon was to be used for potable purposes; therefore, we did not want to risk the possibility of contamination from the lagoon. Now, water from the well will be used for non-potable purposes only. On this basis, we request modification of the permit to exclude use of the bentonitic clay lining. To support this request, please find enclosed representative soils and percolation test data for an area 50 feet north of the lagoon area. Please note that test locations on the soils report sheet can be referenced on the plan map submitted with the application earlier.

If any further information is desired, please contact me. Your favorable consideration of this permit modification request will be appreciated.

*Phoned Bob Sharp 12-28-77
Contamination - coal dust*

Sincerely,

Darrell Scharf
Environmental Engineer

DS:bg
File #100-16.5/1
JRM File #100-6.11

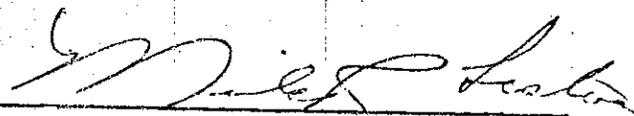
NORTHERN TESTING LABORATORIES, INC.
CONSULTING GEOTECHNICAL ENGINEERS
Great Falls, Billings, Montana - Boise, Idaho - Gillette, Wyoming

SUMMARY OF SOIL PROFILE PITS
& FIELD PERCOLATION TESTS
JACOBS RANCH MINE-LAB BUILDING

Sheet 1 of 1
Job No. 75-531

Test Pit No.	Location	Depth, in feet	Soil Classification	Test Depth, in feet	Percolation Rate Minutes per inch
1.	80' south, 25' east of southeast corner of building.	0.0 - 3.0	BAKED SHALE; Coarse, little sand;	3.0	1.6
2.	65' south, 25' east of southeast corner of building.	0.0 - 3.0	BAKED SHALE; Well graded;	3.0	5.7
3.	40' south, 35' east of southeast corner of building.	0.0 - 3.0	BAKED SHALE; Very sandy;	3.0	4.4

Certified



PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 77-349

Kerr-McGee Coal Corporation
(Name of Facility)

This permit hereby authorizes the applicant:

Kerr-McGee Coal Corporation
(Last) (First) (Middle)
400 S. Miller Ave.
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Dry Coal Preparation
facility located in Section 11, T43N, R70W
(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. Jones
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

October 17, 1977
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sewaco Waste Treatment System, Dick Sawyer Residence

ARCHITECT OR ENGINEER: Ralph E. Goff, P.E. - Sewaco, Inc., P.O. Box 20345,
Salt Lake City, Utah 84120

WATER QUALITY DIVISION REFERENCE NUMBER: 77-350

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

DATE OF REVIEW: September 14, 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) Our Chapter III Rules and Regulations requires one foot of clean washed gravel 1½ to 2½ inches in size to be placed on the bottom of the beds.
- 3) Capillary action is essential to the proper operation of evapotranspiration beds. Clean, washed sand should be placed over the gravel.
- 4) For proper capillary action the straw layer should be a minimum width, preferrably no more than 2-3 inches.
- 5) The system must be aerobic. Six inches of top soil is too much. No more than 3-4 inches should be used.
- 6) Please discuss the type of grass and shrubs to be placed on the evapotranspiration bed.